



2020 Annual Surface Water Report

Per Environmental Compliance Approvals
#5178-9TUDP9 Conditions 8(6) and 11(5)b
#7004-BC7KQ5 Condition 12(9)

Revision 0
March 2021

Table of Contents

	Page
1. Introduction	1
2. Surface Water Quality Monitoring Program Overview	1
2.1. Pinewood River	2
2.2. Area Creeks	3
2.3. Rainy River	3
3. Surface Water Quality Data and Trends	4
3.1. Pinewood River	4
3.2. Area Creeks	6
3.3. Rainy River	9
4. Effluent Discharge Quality and Trends	11
4.1. Sediment Pond 1	11
4.2. Sediment Pond 2	12
4.3. EDL1	12
4.4. EDL2	12
5. Effluent Flow Rates and Mixing Ratios	12
5.1. Sediment Pond 1	12
5.2. Sediment Pond 2	13
5.3. EDL1	13
5.4. EDL2	13
6. Incidents of Non-Compliance	13
7. Closing	15

Tables

Table 1:	Updated Receiving Surface Water Sampling Locations	16
Table 2:	Average 2020 Pinewood River Water Quality for Selected Parameters	17
Table 3:	Average 2019 Pinewood River Water Quality for Selected Parameters	18
Table 4:	Average 2018 Pinewood River Water Quality for Selected Parameters	19
Table 5:	Average 2017 Pinewood River Water Quality for Selected Parameters	20
Table 6:	Average 2016 Pinewood River Water Quality for Selected Parameters	21
Table 7:	2020 ECA Trigger Value Compliance for SW22A	22
Table 8:	2020 ECA Trigger Value Compliance for SW24	22
Table 9:	2019 ECA Trigger Value Compliance for SW22A	23
Table 10:	2019 ECA Trigger Value Compliance for SW24	23
Table 11:	2018 ECA Trigger Value Compliance for SW22A	24
Table 12:	2018 ECA Trigger Value Compliance for SW24	24
Table 13:	2017 ECA Trigger Value Compliance for SW22A	25
Table 14:	2016 ECA Trigger Value Compliance for SW22A	25
Table 15:	Average 2020 Area Creek & Rainy River Water Quality for Selected Parameters	26
Table 16:	Average 2019 Area Creek & Rainy River Water Quality for Selected Parameters	27

Tables Cont'd

Table 17:	Average 2018 Area Creek & Rainy River Water Quality for Selected Parameters	28
Table 18:	Average 2017 Area Creek & Rainy River Water Quality for Selected Parameters	29
Table 19:	Average 2016 Area Creek & Rainy River Water Quality for Selected Parameters	30
Table 20:	Sediment Pond 1 Effluent Discharge Quality, July 2020	31
Table 21:	October 2020 Pinewood River Surface Water Monitoring and Effluent Discharge Quality Data	32
Table 22:	Pinewood River Daily Average Flow, Discharge Rates and Dilution Ratios for October 2020	33
Table 23:	Expected SW24 Total Copper Results at 1:1 Dilution	34
Table 24:	Expected SW24 Total Copper Results at 1:0.5 Dilution	34

Figures

Figure 1:	RRM Site Plan with Surface Water Sampling Locations	35
Figure 2a:	RRM Field pH Levels in Pinewood River 2015-2020	36
Figure 2b:	RRM Field pH Levels in Pinewood River 2020	37
Figure 3a:	RRM Total Suspended Solids in Pinewood River 2015-2020	38
Figure 3b:	RRM Total Suspended Solids in Pinewood River 2020	39
Figure 4a:	RRM Total Arsenic in Pinewood River 2015-2020	40
Figure 4b:	RRM Total Arsenic in Pinewood River 2020	41
Figure 5a:	RRM Total Copper in Pinewood River 2015-2020	42
Figure 5b:	RRM Total Copper in Pinewood River 2020	43
Figure 6a:	RRM Total Lead in Pinewood River 2015-2020	44
Figure 6b:	RRM Total Lead in Pinewood River 2020	45
Figure 7a:	RRM Total Nickel in Pinewood River 2015-2020	46
Figure 7b:	RRM Total Nickel in Pinewood River 2020	47
Figure 8a:	RRM Total Phosphorus in Pinewood River 2017-2020	48
Figure 8b:	RRM Total Phosphorus in Pinewood River 2020	49
Figure 9a:	RRM Total Zinc in Pinewood River 2015-2020	50
Figure 9b:	RRM Total Zinc in Pinewood River 2020	51
Figure 10a:	RRM Total Mercury in Pinewood River 2015-2020	52
Figure 10b:	RRM Total Mercury in Pinewood River 2020	53
Figure 11a:	RRM Unionized Ammonia in Pinewood River 2015-2020	54
Figure 11b:	RRM Unionized Ammonia in Pinewood River 2020	55
Figure 12a:	RRM Free Cyanide in Pinewood River 2018-2020	56
Figure 12b:	RRM Free Cyanide in Pinewood River 2020	57
Figure 13a:	RRM Field pH Levels in Area Creeks 2015-2020	58
Figure 13b:	RRM Field pH Levels in Area Creeks 2020	59
Figure 14a:	RRM Total Suspended Solids in Area Creeks 2015-2020	60
Figure 14b:	RRM Total Suspended Solids in Area Creeks 2020	61
Figure 15a:	RRM Total Arsenic in Area Creeks 2015-2020	62
Figure 15b:	RRM Total Arsenic in Area Creeks 2020	63

Figures Cont'd

Figure 16a:	RRM Total Copper in Area Creeks 2015-2020	64
Figure 16b:	RRM Total Copper in Area Creeks 2020	65
Figure 17a:	RRM Total Lead in Area Creeks 2015-2020	66
Figure 17b:	RRM Total Lead in Area Creeks 2020	67
Figure 18a:	RRM Total Nickel in Area Creeks 2015-2020	68
Figure 18b:	RRM Total Nickel in Area Creeks 2020	69
Figure 19a:	RRM Total Phosphorus in Area Creeks 2017-2020	70
Figure 19b:	RRM Total Phosphorus in Area Creeks 2020	71
Figure 20a:	RRM Total Zinc in Area Creeks 2015-2020	72
Figure 20b:	RRM Total Zinc in Area Creeks 2020	73
Figure 21a:	RRM Total Mercury in Area Creeks 2015-2020	74
Figure 21b:	RRM Total Mercury in Area Creeks 2020	75
Figure 22a:	RRM Unionized Ammonia in Area Creeks 2015-2020	76
Figure 22b:	RRM Unionized Ammonia in Area Creeks 2020	77
Figure 23a:	RRM Free Cyanide in Area Creeks 2018-2020	78
Figure 23b:	RRM Free Cyanide in Area Creeks 2020	79
Figure 24a:	RRM Field pH Levels in Rainy River 2015-2020	80
Figure 24b:	RRM Field pH Levels in Rainy River 2020	81
Figure 25a:	RRM Total Suspended Solids in Rainy River 2015-2020	82
Figure 25b:	RRM Total Suspended Solids in Rainy River 2020	83
Figure 26a:	RRM Total Arsenic in Rainy River 2015-2020	84
Figure 26b:	RRM Total Arsenic in Rainy River 2020	85
Figure 27a:	RRM Total Copper in Rainy River 2015-2020	86
Figure 27b:	RRM Total Copper in Rainy River 2020	87
Figure 28a:	RRM Total Lead in Rainy River 2015-2020	88
Figure 28b:	RRM Total Lead in Rainy River 2020	89
Figure 29a:	RRM Total Nickel in Rainy River 2015-2020	90
Figure 29b:	RRM Total Nickel in Rainy River 2020	91
Figure 30a:	RRM Total Phosphorus in Rainy River 2017-2020	92
Figure 30b:	RRM Total Phosphorus in Rainy River 2020	93
Figure 31a:	RRM Total Zinc in Rainy River 2015-2020	94
Figure 31b:	RRM Total Zinc in Rainy River 2015-2020	95
Figure 32a:	RRM Total Mercury in Rainy River 2015-2020	96
Figure 32b:	RRM Total Mercury in Rainy River 2020	97
Figure 33a:	RRM Unionized Ammonia in Rainy River 2015-2020	98
Figure 33b:	RRM Unionized Ammonia in Rainy River 2020	99
Figure 34a:	RRM Free Cyanide in Rainy River 2018-2020	100
Figure 34b:	RRM Free Cyanide in Rainy River 2020	101

Appendices

- Appendix A: Certification by Owner
- Appendix B: Baseline Receiver Water Quality Tables and Graphs
- Appendix C: Monthly ECA Works Performance Reports 2020
- Appendix D: Certificates of Analysis

1. Introduction

New Gold Inc. (New Gold) operates the Rainy River Mine located within Chapple Township, approximately 65 kilometers northwest of Fort Frances in northwestern Ontario. In October 2017, the Rainy River Project transitioned from its construction phase to an operational phase known as Rainy River Mine (RRM). To date, RRM is an operational open pit and underground mine producing approximately 250,000 ounces of gold/silver annually.

This report has been prepared to satisfy Condition 12(9) of amended Environmental Compliance Approval (ECA) #7004-BC7KQ5 issued on February 11, 2020 by the Ministry of Environment, Conservation and Parks (MECP), replacing ECA #5781-9VJQ2J and ECA #5178-9TUPD9 issued on May 8, 2015 and September 1, 2015, respectively. Condition 12(9) of the amended ECA requires the submission of an annual Surface Water Monitoring report, certified by the Mine Manager or designate, by March 31 of each year. For ease of reporting, the sections of the report will be laid out in the order that the required information is listed in Condition 12(9) of the ECA:

- (a) a map of the entire site illustrating significant features (e.g., lakes, streams, ponds, seeps, ditches, waste rock piles, collection, and treatment facilities, etc.), surface water sampling locations, and hydrometric stations. Specific UTM coordinates must also be provided for surface water sampling locations and hydrometric stations,*
- (b) a summary and interpretation of all surface water monitoring data (e.g. Tables in usable format such as Microsoft Excel and shall contain current and historical data; graphs to visualize spatial and temporal trends; indicators within tables/graphs to denote when measured values exceeded applicable provincial/federal objectives/guidelines and triggers; a summary of non-compliance incidences over the reporting period, for example effluent limits or dilution ratios were exceeded, and if receiver water quality was influenced/impacted; etc.),*
- (c) other relevant information (e.g. Field sampling protocol and QA/QC measures),*
- (d) a summary of any potential effects that would necessitate investigation and abatement actions,*
- (e) any other information the District Manager may require from time to time.*

All data presented in this report will also be provided in spreadsheet format. A site plan with surface water sampling locations is provided as Figure 1. Appendix A includes a Certification by Owner (or representative) statement.

2. Surface Water Monitoring Program Overview

The New Gold RRM Surface Water Monitoring Program commenced in 2015 and includes 16 surface water monitoring locations with monthly sampling frequency per Tables 9 and 10 of the ECA, located both upstream and downstream of the mine, to assist with assessment of aquatic effects associated with the operation of RRM. The program has been aligned with the Effluent and Water Quality Monitoring sampling required by Schedule 5 of the *Metal and Diamond Mining Effluent Regulation* (MDMER). As such, at times during active discharge additional samples may be collected at selected surface water monitoring locations to ensure compliance with the MDMER. The program data also supports the reporting requirements of Condition 12(6) of the ECA for Environmental Effects Monitoring

Reports for Effluent Discharges every 3 years and the Environmental Effects Monitoring (EEM) Biological Monitoring studies required by Schedule 5 of the MDMER.

Quality assurance and quality control measures undertaken for the RRM Surface Water Monitoring Program include the collection of one field duplicate and preparation of one field blank each month. One travel blank is shipped with the samples to the external laboratory each month. Field water quality meters used for field data collection for the Surface Water Monitoring Program are calibrated externally on an annual basis, and are calibration checked by RRM Environmental Technicians at minimum once monthly.

A site plan with surface water sampling and hydrometric monitoring locations is presented in Figure 1. On three occasions, a request has been made to move the location of a surface water sample location listed in Table 7 of the ECA due to lack of safe access, and approval was received from the MECF. Table 1 of receiver surface water sampling locations with UTM coordinates reflects these approvals.

For this report, the surface water monitoring sample locations are grouped by location upstream to downstream, where applicable: Pinewood River, area creeks and Rainy River. Pre-2015 baseline receiver water quality tables and graphs are not discussed in this report however are provided in Appendix B for reference.

2.1. Pinewood River

Pinewood River surface water sample location data is reported in the following order:

- SW20 – Pinewood River at Heatwole Rd
- SW10 – Pinewood River at former Highway 600
- SW21A – Pinewood River upstream of the confluence with Loslo Creek
- SW22A – Pinewood River downstream of the confluence with Loslo Creek
- SW03 – Pinewood River at realigned Highway 600
- SW23 – Pinewood River upstream of EDL1
- SW24 – Pinewood River downstream of EDL1
- SW15 – Pinewood River upstream of the confluence with the Rainy River

Samples were not collected at the following Pinewood River surface water locations in 2020 for the indicated reasons:

- SW15 – Unsafe ice conditions in April

Two samples were collected at the following locations in November 2020: SW20, SW22A, SW23, SW24. This additional sampling was conducted during active discharge as a precaution as it was unclear if discharge would continue until the scheduled November surface water sampling due to cold weather. Though every attempt to collect surface water monitoring samples during active discharge has been made, there have been months that it was not possible due to discharge commencing late in a calendar month or ceasing abruptly due to reduce flow in the Pinewood River. Going forward, collection of

additional samples at the SW20, SW22A, SW23 and SW24 locations upon commencement of discharge late in a calendar month after surface water sampling has been completed or when cessation of discharge will occur before monthly surface water sampling has been completed, when possible, will be collected.

2.2. Area Creeks

Area creek surface water sample location data is reported in the following order:

- SW28A – “Clark Creek” downstream of the Clark Creek/Teeple Diversion
- SW02 – West Creek upstream of the West Creek Diversion
- SW25 – West Creek Diversion (WCD) upstream of Sediment Pond 1 final discharge point
- SW26 – WCD at old Highway 600 crossing near end of the diversion
- SW27 – remnant Loslo Creek downstream of the WCD, and
- SW29 – Tait Creek upstream of the EDL1 pipeline crossing.

Samples were not collected at the following area creek surface water locations in 2020 for the indicated reasons:

- SW28A – Dry in August
- SW25 – Low/no flow in August
- SW29 – Unsafe ice conditions in April, November and December, low water levels in July, August, September, October preventing access by canoe.

A floating dock/walkway is planned at the SW29 sample location to provide access during low water conditions, a land use application was submitted to MNR for approval to install the dock on September 28, 2020. When approval is received, the dock will be installed in low water conditions.

2.3. Rainy River

Rainy River surface water sample location data is reported in the following order:

- SW16 – Rainy River upstream (Emo) of the confluence with the Pinewood River
- SW17 – Rainy River downstream of the confluence with the Pinewood River

Samples were not collected at the following Rainy River surface water locations in 2020 for the indicated reasons:

- SW16 – Unsafe ice conditions in January, February, March, and December

The SW16 sample location is under review due to an increase in missed samples resulting from unsafe ice conditions. In the event the sample location moves more than 100m from the approved sampling location, a request to relocate the sample location will be submitted to the MECP. Any deviation in sample location due to unsafe conditions will be noted.

Where data is presented in tabular format, Rainy River data has been included with area creeks to reduce the total number of tables presented.

3. Surface Water Quality Data and Trends

Pursuant to Condition 12(9)(b) of the ECA, the historical and 2020 receiving surface water quality data is presented for key parameters with comparison to ECA Surface Water Trigger Values (ECA Table 11), the Ontario Provincial Water Quality Objectives (PWQO), and Canadian Environmental Quality Guidelines (CEQG) in both tables and graphs to visualize spatial and temporal trends. Overall, the data show that water quality is good, and results are generally below the PWQO, CEQG and ECA trigger values. To date, parameter results have been generally below the standards for protection of aquatic life, with exception of aluminum and iron which commonly exceeded permitted limits.

3.1. Pinewood River

The 2020 annual average surface water quality data for the Pinewood River sample locations is in Table 2. For comparison purposes, Tables 3 through 6 present the annual average surface water quality data for the years 2016 through 2019, the data for 2015 has not been presented as an annual average as the surface water monitoring program began mid-year. These tables provide a high-level overview of the average Pinewood River water quality by year at each sample location, from upstream of site to downstream of the Pinewood confluence with the Rainy River. The annual average surface water quality exceeded both the PWQO limit for total aluminum and the PWQO/CEQG limit for total iron consistently at each surface water monitoring sample location for the Pinewood River.

Pursuant to Condition 10(6) of the ECA, Tables 7 and 8 present the 2020 monthly surface water quality data for comparison with the ECA Table 11 Surface Water Trigger Values at surface water monitoring sample locations SW22A and SW24. Tables 9 through 14 present the 2016 to 2019 monthly surface water data for comparison with the ECA Surface Water Trigger Values. As a part of the Monthly Sewage Works Performance report required under Condition 12(5), surface water quality results for key parameters, including ECA Surface Water Trigger Values, are reported in tabular format. These tables are available in Appendix C which contains copies of the 2020 Monthly Performance Reports and provided in spreadsheet format.

Field pH

Figure 2a presents the field pH levels at all Pinewood River surface water monitoring sample locations for mid-2015 through 2020. In general, the field pH values recorded for the Pinewood River fall within the PWQO lower and upper pH limits (6.5 and 8.5). Figure 2b presents the field pH levels for 2020, which were all within the PWQO upper and lower pH limits except for the November 10, 2020 field pH recorded at SW24 (6.32). The field pH data collected at this location did not pass RRM quality control as the laboratory reported pH was 7.89.

Total Suspended Solids

Figure 3a presents the total suspended solids (TSS) results for all Pinewood River surface water sample locations for mid-2015 through 2020. In general, the TSS results are below 30 mg/L with some elevated results recorded during spring freshet and the summer low flow season. Figure 3b presents the TSS results for 2020, which were all at or below 30 mg/L.

Total Arsenic

Figure 4a presents the total arsenic results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2020. In general, the total arsenic results are below the PWQO limit (0.005 mg/L) with elevated results recorded during the summer low flow season. Figure 4b presents the total arsenic results for 2020, which were all below the PWQO limit.

Total Copper

Figure 5a presents the total copper results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2020. In general, the total copper results are below the PWQO limit (0.005 mg/L) with elevated results recorded during the summer low flow season. Figure 5b presents the total copper results for 2020. Elevated results above the PWQO total copper limit (0.005 mg/L) were recorded at SW03 during the summer low flow season. An elevated result above PWQO limit and ECA Surface Water Trigger Value for total copper was recorded at SW24 during active discharge on October 14, 2020. This incident of non-compliance is further discussed in Section 6.

Total Lead

Figure 6a presents the total lead results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2020. In general, the total lead results are below the PWQO limit (0.001-0.005 mg/L, dependent on hardness) with elevated results recorded during both the summer and winter low flow seasons. Figure 6b presents the total lead results for 2020. Elevated results above the lower end of the PWQO limit (0.001 mg/L, where hardness <30 mg/L CaCO₃) were recorded at SW15 in July and October however the hardness was above 80 mg/L CaCO₃ for both samples.

Total Nickel

Figure 7a presents the total nickel results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2020. To date, all total nickel results are below the PWQO limit (0.025 mg/L). There are higher results recorded during the winter and summer low flow seasons. Figure 7b presents the total nickel results for 2020.

Total Phosphorus

Figure 8a presents the total phosphorus results for all Pinewood River surface water monitoring sample locations for 2017 to 2020. In general, the total phosphorus results are below the ECA Surface Water

Trigger Value (0.1 mg/L) with elevated results recorded during both the summer and winter low flow seasons. Figure 8b presents the total phosphorus results for 2020. Elevated results above the ECA Surface Water Trigger Value were recorded in January and February at SW21A, at several sample locations during the summer low flow season and at SW15 in October. It should be noted that the elevated result at SW15 was recorded during active discharge from 3 final discharge points, however the results at both SW22A and SW24 were well below the ECA Surface Water Trigger Value.

Total Zinc

Figure 9a presents the total zinc results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2020. In general, the total zinc results are below the PWQO limit (0.02 mg/L) with elevated results recorded during the winter and summer low flow seasons. Figure 9b presents the total zinc results for 2020. Results above the PWQO limit were recorded at SW22A in March and SW23 in December, however RRM was not actively discharging in March or December.

Total Mercury

Figure 10a presents the total mercury results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2020. To date, all total mercury results are below the PWQO limit (0.0002 mg/L) and are often below the method detection limit. Figure 10b presents the total mercury results for 2020. All total mercury results, apart from three, were below the method detection limit.

Unionized Ammonia

Figure 11a presents the calculated unionized ammonia results for all Pinewood River surface water monitoring sample locations for late 2015 to 2020. To date, all calculated unionized ammonia results are below the PWQO limit (0.02 mg/L). Figure 11b presents the calculated unionized ammonia results for 2020.

Free Cyanide

Figure 12a presents the free cyanide results for all Pinewood River surface water monitoring sample locations for early 2018 to 2020. To date, all free cyanide results are below the PWQO limit (0.005 mg/L). Figure 12b presents the free cyanide results for 2020.

3.2. Area Creeks

The 2020 annual average surface water quality data for area creek, and Rainy River, sample locations is presented in Table 15. For comparison purposes, the annual average surface water quality data for the years 2016 through 2019 are presented in Tables 16 through 19, the data for 2015 has not been presented as an annual average as the surface water monitoring program began mid-year. These tables provide a high-level overview of the average area creek water quality by year at each sample location, from creeks and diversions upstream of site to downstream of site where a discharge pipeline passes under Tait Creek. The annual average surface water quality exceeded both the PWQO limit for total

aluminum, and the PWQO/CEQG limit for total iron with one exception at SW02, at each surface water monitoring sample location for area creeks.

As a part of the Monthly Sewage Works Performance report required under Condition 12(5), surface water quality results for key parameters are reported in tabular format. These tables are included with report in Appendix C which contains copies of the 2020 Monthly Performance Reports and provided in spreadsheet format.

Field pH

Figure 13a presents the field pH levels at all area creek surface water monitoring sample locations for mid-2015 through 2020. In general, the field pH values recorded for area creeks fall within the PWQO lower and upper pH limits (6.5 and 8.5). Figure 13b presents the field pH levels for 2020, which were all within the PWQO upper and lower pH limits except for the January 9 (6.02) and March 10 (6.38) field pH recorded at SW29 at Tait Creek. The field pH data collected at this location for January and March did not pass RRM quality control, the laboratory reported pH is accurate at 7.06 and 7.00, respectively.

Total Suspended Solids

Figure 14a presents the total suspended solids (TSS) results for all area creek surface water sample locations for mid-2015 through 2020. In general, the TSS results are below 30 mg/L with some elevated results recorded during spring freshet and the summer low flow season. Figure 14b presents the TSS results for 2020, which were all at or below 30 mg/L except for the August sample collected at SW27 (45 mg/L). At the time of collection, the August SW27 sample location had very low flow conditions with organics present.

Total Arsenic

Figure 15a presents the total arsenic results for all area creek surface water monitoring sample locations for mid-2015 to 2020. In general, the total arsenic results are below the PWQO limit (0.005 mg/L) with elevated results recorded during the summer low flow season. Figure 15b presents the total arsenic results for 2020, which were all below the PWQO limit.

Total Copper

Figure 16a presents the total copper results for area creek surface water monitoring sample locations for mid-2015 to 2020. In general, the total copper results are below the PWQO limit (0.005 mg/L) with elevated results recorded during the summer low flow season. Figure 16b presents the total copper results for 2020. Elevated results above the PWQO total copper limit (0.005 mg/L) were recorded at SW25 on October 14 (0.0075 mg/L), which may correlate to a TSS exceedance reported for the West Creek Diversion resulting from a large rain event on October 12, 2020 (SAC Reference #0254-BUBRLZ).

Total Lead

Figure 17a presents the total lead results for all area creek surface water monitoring sample locations for mid-2015 to 2020. In general, the total lead results are below the PWQO limit (0.001-0.005 mg/L, dependent on hardness) with elevated results recorded during both the summer and winter low flow seasons. Figure 17b presents the total lead results for 2020. All 2020 results were below the PWQO limit.

Total Nickel

Figure 18a presents the total nickel results for all area creek surface water monitoring sample locations for mid-2015 to 2020. To date, all total nickel results are below the PWQO limit (0.025 mg/L). There are higher results recorded during the winter and summer low flow seasons. Figure 18b presents the total nickel results for 2020.

Total Phosphorus

Figure 19a presents the total phosphorus results for all area creek surface water monitoring sample locations for 2017 to 2020. In general, the total phosphorus results are below 0.1 mg/L with some elevated results recorded during the winter and summer low flow periods. Figure 19b presents the total phosphorus results for 2020, with two elevated results that correspond with the winter and summer low flow periods.

Total Zinc

Figure 20a presents the total zinc results for all area creek surface water monitoring sample locations for mid-2015 to 2020. In general, the total zinc results are below the PWQO limit (0.02 mg/L) with elevated results recorded during the winter and summer low flow seasons. Figure 20b presents the total zinc results for 2020. Results above the PWQO limit were recorded in the West Creek Diversion at SW25 and SW26 and downstream of the West Creek Diversion at SW27 during the winter low flow period in January through March, and again in December.

Total Mercury

Figure 21a presents the total mercury results for all area creek surface water monitoring sample locations for mid-2015 to 2020. To date, all total mercury results are below the PWQO limit (0.0002 mg/L) and are often below the method detection limit. Figure 21b presents the total mercury results for 2020.

Unionized Ammonia

Figure 22a presents the calculated unionized ammonia results for all area creek surface water monitoring sample locations for late 2015 to 2020. To date, all calculated unionized ammonia results are

below the PWQO limit (0.02 mg/L) except for an anomalous result (0.04 mg/L) recorded at SW29 in February 2018. Figure 22b presents the calculated unionized ammonia results for 2020.

Free Cyanide

Figure 23a presents the free cyanide results for all area creek surface water monitoring sample locations for early 2018 to 2020. To date, all free cyanide results are below the PWQO limit (0.005 mg/L). Figure 23b presents the free cyanide results for 2020.

3.3. Rainy River

The 2020 annual average surface water quality data for the Rainy River sample locations is presented in Table 15. For comparison purposes, the annual average surface water quality data for the years 2016 through 2019 are presented in Tables 16 through 19, the data for 2015 has not been presented as an annual average as the surface water monitoring program began mid-year. These tables provide a high-level overview of the average Rainy River water quality by year at the Rainy River upstream of RRM at Emo and downstream of the Pinewood confluence with the Rainy River. The annual average surface water quality exceeded both the PWQO limit for total aluminum, and the PWQO/CEQG limit for total iron at both Rainy River surface water monitoring sample locations.

As a part of the Monthly Sewage Works Performance report required under Condition 12(5), surface water quality results for key parameters, including ECA Surface Water Trigger Value parameters are reported in tabular format. These tables are included with report in Appendix C which contains copies of the 2020 Monthly Performance Reports and provided in spreadsheet format.

Field pH

Figure 24a presents the field pH levels at the two Rainy River surface water monitoring sample locations for mid-2015 through 2020. In general, the field pH values recorded for the two locations fall within the PWQO lower and upper pH limits (6.5 and 8.5). Figure 24b presents the field pH levels for 2020 which were all within the PWQO upper and lower pH limits except for two values that failed RRM quality control, SW16 for September (8.80) and at SW17 for August (6.42). The laboratory reported pH is accurate, 7.95 and 7.72, respectively.

Total Suspended Solids

Figure 25a presents the total suspended solids (TSS) results for the two Rainy River water sample locations for mid-2015 through 2020. In general, the TSS results are below 30 mg/L with some elevated results recorded during spring freshet. Figure 25b presents the TSS results for 2020, which were all at or below 30 mg/L.

Total Arsenic

Figure 26a presents the total arsenic results for the two Rainy River water monitoring sample locations for mid-2015 to 2020. In general, the total arsenic results are below the PWQO limit (0.005 mg/L) with some anomalous results reported. Figure 26b presents the total arsenic results for 2020, which were all below the PWQO limit.

Total Copper

Figure 27a presents the total copper results for the two Rainy River surface water monitoring sample locations for mid-2015 to 2020. In general, the total copper results are below the PWQO limit (0.005 mg/L) with elevated results recorded during the winter low flow season. Figure 27b presents the total copper results for 2020, all results were below the PWQO limit.

Total Lead

Figure 28a presents the total lead results for the two Rainy River surface water monitoring sample locations for mid-2015 to 2020. In general, the total lead results are below the PWQO limit (0.001-0.005 mg/L, dependent on hardness) with elevated results recorded during the winter low flow season. Figure 28b presents the total lead results for 2020, all results were below the PWQO limit.

Total Nickel

Figure 29a presents the total nickel results for the two Rainy River surface water monitoring sample locations for mid-2015 to 2020. To date, all total nickel results are below the PWQO limit (0.025 mg/L). Figure 29b presents the total nickel results for 2020.

Total Phosphorus

Figure 30a presents the total phosphorus results for the two Rainy River surface water monitoring sample locations for 2017 to 2020. In general, the total phosphorus results are below 0.1 mg/L. Figure 30b presents the total phosphorus results for 2020, which were all below 0.1 mg/L.

Total Zinc

Figure 31a presents the total zinc results for the two Rainy River monitoring sample locations for mid-2015 to 2020. In general, the total zinc results are below the PWQO limit (0.02 mg/L). Figure 31b presents the total zinc results for 2020, all results were below the PWQO limit.

Total Mercury

Figure 32a presents the total mercury results for the two Rainy River surface water monitoring sample locations for mid-2015 to 2020. To date, all total mercury results are below the PWQO limit (0.0002

mg/L) and are often below the method detection limit. Figure 32b presents the total mercury results for 2020 which are all below the method detection limit.

Unionized Ammonia

Figure 33a presents the calculated unionized ammonia results for the two Rainy River surface water monitoring sample locations for late 2015 to 2020. To date, all calculated unionized ammonia results are below the PWQO limit (0.02 mg/L). Figure 33b presents the calculated unionized ammonia results for 2020.

Free Cyanide

Figure 34a presents the free cyanide results for the two Rainy River surface water monitoring sample locations for early 2018 to 2020. To date, all free cyanide results are below the PWQO limit (0.005 mg/L). Figure 34b presents the free cyanide results for 2020.

4. Discharge Water Quality Data and Trends

Four final discharge points were active in 2020, the final discharge point locations are marked on Figure 1. The discharge locations and dates are summarized below:

- Sediment Pond #1, 1 day total
 - July 16
- Sediment Pond #2, 87 days total
 - June 21 through July 19
 - September 28 through November 27
- Effluent Discharge Location #1 (EDL1) – 67 days total
 - April 29 through May 31
 - September 6 through September 7
 - October 9 through November 14
- Effluent Discharge Location #2 (EDL2) – 29 days total
 - October 13 through November 14

As a part of the Monthly Sewage Works Performance report required under Condition 12(5), effluent discharge quality results for key parameters, including PWQO and ECA limits and objective parameters are reported in tabular format. These tables are included with this report in Appendix C which contains copies of the 2020 Monthly Performance Reports and provided in spreadsheet format.

4.1. Sediment Pond 1

There were no planned discharges from Sediment Pond 1 for 2020. On July 16, 2020, 162m³ of effluent was discharged at the Sediment Pond 1 final discharge point location because of a leaking valve. This incident was reported to the Spills Action Centre (SAC), the reference number is #5034-BRLL96. Table 21 presents the effluent quality of the July 16 unplanned discharge at the Sediment Pond 1 final discharge

point, for parameters with ECA Limits and Objectives. It should be noted that the total zinc concentration result (0.211 mg/L) for this unplanned discharge was above the monthly average ECA limit of 0.174 mg/L.

4.2. Sediment Pond 2

In 2020, Sediment Pond 2 effluent discharge quality was compliant with all PWQO and ECA limits and objectives.

4.3. EDL1

The effluent discharge quality for EDL1 was compliant with all daily ECA limits in 2020. There was an exceedance of the monthly average ECA limit for copper (0.014 mg/L) in October 2020, the monthly average result was 0.0158 mg/L total copper. This exceedance was reported to the Kenora Area MECP office and included in the October 2020 Monthly Performance Report. The highest daily total copper result for EDL1 in October 2020 was 0.203 mg/L for the sample collected on October 14, 2020. An exceedance of the ECA Surface Water Trigger Value for total copper was recorded at SW24 on the same date, this incident is further discussed in Section 5.

4.4. EDL2

In 2020, EDL2 effluent discharge quality was compliant with all ECA limits and objectives.

5. Effluent Discharge Rates and Mixing Ratios

Pursuant to Condition 4(8) and 4(9) of the ECA, no effluent was discharged to the Pinewood River via EDL1 and/or EDL2 before the spring melt when the Pinewood River was largely ice free and the minimum flow threshold was met at H1 hydrometric station (10,000 m³). In 2020, the planned effluent discharges at RRM met or were below the mixing/dilution ratio limits prescribed in Conditions 4(10), 6(6) and 6(7).

As a part of the Monthly Sewage Works Performance report required under Condition 12(5), Pinewood River flow, effluent discharge rates and dilution/mixing ratios are reported in tabular format. These tables are included with this report in Appendix C which contains copies of the 2020 Monthly Performance Reports and provided in spreadsheet format.

5.1. Sediment Pond 1

As the July 16, 2020 discharge at the Sediment Pond 1 final discharge point was not planned, the 1:5 dilution ratio required by ECA Condition 6(6) for discharge to the West Creek Diversion at this location was not met. The previous 24-hr average flow recorded at the H3 hydrometric station in the Box Culvert in the West Creek Diversion was 223 m³. The unplanned discharge was estimated at 176 m³.

5.2. Sediment Pond 2

In 2020, the 1:10 dilution ratio required by ECA Condition 6(7) for discharge to the Pinewood at the Sediment Pond 2 final discharge point was met at all times during active discharge within 1%.

5.3. EDL1

Condition 4(10) of the ECA requiring that the combined discharge dilution ratio for both EDL1 and EDL2 combined not exceed 1:1 with the flow in the Pinewood River recorded at H1 hydrometric station was always met during active discharge.

5.4. EDL2

Condition 4(10) of the ECA requiring that the combined discharge dilution ratio for both EDL1 and EDL2 combined not exceed 1:1 with the flow in the Pinewood River recorded at H1 hydrometric station was always met during active discharge.

6. Incidents of Non-Compliance

An exceedance of the ECA Surface Water Trigger Value for total copper at SW24 occurred in October (0.0087 mg/L) during active discharge. This exceedance coincides with the highest daily total copper result for EDL1 in October 2020 (0.0203 mg/L), both samples were collected on the same date (October 14, 2020). This exceedance was reported in the October 2020 Monthly Performance Report. Table 21 presents the October 2020 Pinewood River Surface Water and Discharge Quality Data, in the order of upstream of site to downstream of site. Sediment Pond 2 and EDL2 effluent discharge quality is included in Table 21 for reference. It should be noted that SW21A and SW22A sample collection was delayed until after discharge at EDL2 commenced on October 15, this data was also included for reference though the samples were not collected on October 14, 2020.

A review of the October 14, 2020 Surface Water Monitoring water quality results, the EDL1 effluent discharge water quality results and the H1 hydrometric station for the Pinewood River was undertaken to assess the cause of the exceedance of the Surface Water Trigger Value for total copper at SW24 in accordance with Condition 10(7) of the ECA. The condition requires submission of a plan to assess the cause of any Surface Water Trigger Value exceeded for two consecutive months, define contingency measures, and recommend actions to address potential impacts. This has been undertaken for a single Surface Water Trigger Value proactively to reduce the incidence of future exceedances.

The following information was compiled during the assessment of the cause of the exceedance of the total copper Surface Water Trigger Value on October 14, 2020:

- Discharge via EDL1 was directly from the Water Management Pond (WMP),
- The effluent monitoring results for total copper for the WMP for the 6 weeks prior to the commencement of discharge via EDL1 ranged between 0.012 and 0.0129 mg/L,

- The total copper result did not exceed the ECA daily limit for total copper for EDL1 (0.0203 mg/L), however was the highest total copper result recorded for October 2020,
- The rate of effluent discharge was determined using the previous 24-hr average (October 13) Pinewood River flow recorded at H1 hydrometric station, which was 15,645 m³/day or 0.181 m³/sec, less discharge,
- The total volume of discharge at EDL1 on October 14, 2020 was 14,878 m³ or 0.172 m³/sec (Table 22),
- The dilution ratio was 0.95:1 with the previous 24-hr Pinewood River flow (Table 22),
- Over the course of the day, 18 mm of rain was recorded at the Barwick Climate Station which resulted in an increase in flow recorded at the H1 hydrometric station,
- The average 24-hr Pinewood River flow recorded at H1 hydrometric station for October 14 was 41,954 m³/day less discharge,
- The dilution ratio was 0.39:1 with the same day 24-hr Pinewood River flow,
- The total copper concentration at the SW23 sample location upstream of the EDL1 discharge location was 0.00114 mg/L
- Assuming full transverse mixing at the SW24 sample location at the actual 0.39:1 dilution ratio, a simple calculation of the expected total copper concentration (0.008031 mg/L) at SW24 was slightly lower than the actual total copper result (0.00868 mg/L)

Based on the above information, and an assumption of full transverse mixing at the SW24 sample location, Tables 23 and 24 present the expected total copper concentrations at SW24 sample location. Utilizing the last available total copper result for SW23 sample location and the last available total copper result for the WMP, a simple calculation provides the expected total copper result for SW24 sample location if discharge occurs directly from the WMP at a dilution ratio of 1:1 and 0.5:1, respectively. If the expected total copper result at SW24 is above the ECA Surface Water Trigger Value at the 1:1 dilution ratio, a lower dilution ratio will be utilized to avoid exceedance of the Surface Water Trigger Value.

The October 14, 2020 EDL1 total copper result (0.0203 mg/L) was not expected based on previous effluent monitoring total copper results for the WMP. The effluent monitoring samples were collected at the location the WMP water level is surveyed, at surface level, and total copper results ranged between 0.12 to 0.129 mg/L in the six weeks prior to commencement of discharge. A regular turnaround time of 14 days for total metals was utilized for sample analysis as the effluent monitoring results suggested that rush results were not necessary. As a precaution, rush results will be requested upon commencement of discharge directly from the WMP via EDL1. This will allow for the discontinuation of discharge directly from the WMP via EDL1 in a short time should there be any unexpected effluent quality results.

The pump utilized to discharge from the WMP to the Pinewood River via EDL1 draws from a depth of 2-3 m below the surface of the WMP. All EDL1 total copper results in October were higher than the monthly average total copper limit, which resulted in an exceedance of the ECA monthly average total copper limit. It is suspected that a pycnocline may exist in the WMP. Under ice depth profile samples were collected in March 2021 as the worst-case scenario for effluent quality. The sampling will be duplicated in open water conditions when the WMP is ice-free.

7. Closing

This environmental compliance report was prepared by the New Gold Environment Department in accordance with generally accepted industry-standards. If you require further information, please contact Sylvie St. Jean at 807-234-8200 ext. 8163.

Table 1: Updated Receiving Surface Water Sampling Location

Sampling Location	Description	UTM Coordinates (NAD 83) (Zone, Easting Northing)
SW20	Pinewood River - at Heatwole Rd	15, 4351015, 5407720
SW10	Pinewood River - at former Hwy 600	15, 427720, 5407085
SW21A	Pinewood River - upstream of the confluence with Loslo Creek EDL2	15, 422189, 5409251
SW22A	Pinewood River - downstream of the confluence with Loslo Creek EDL2	15, 421846, 5409039
SW03	Pinewood River – upstream of realigned Hwy 600	15, 419490, 5408130
SW23	Pinewood River – upstream of EDL1	15, 415490, 5407225
SW24	Pinewood River – downstream of EDL1	15, 415455, 5407110
SW15	Pinewood River - upstream of the confluence with Rainy River	15, 404750, 5397655
SW28A	Clark Creek - downstream of the Clark Creek Diversion	15, 430150, 540818
SW02	West Creek - within West Creek, near Roen Pit	15, 426295, 5411780
SW25	West Creek within the West Creek Diversion, near Sediment Pond #1	15, 424080, 5411560 15, 422560, 5410225
SW26	West Creek - within the West Creek Diversion, near Sediment Pond #2	15, 422560, 5410225
SW27	Loslo Creek - downstream of West Creek Diversion confluence and upstream of EDL2	15, 421785, 5409515
SW29	Tait Creek - upstream of the EDL1 pipeline creek crossing	15, 418294, 5407017
SW16	Rainy River - upstream of the Pinewood River confluence	15, 438855, 5385790
SW17	Rainy River - downstream of the Pinewood River confluence	15, 393195, 5394425

Table 2: Average 2020 Pinewood River Water Quality for Selected Parameters

Location	SW20	SW10	SW21A	SW22A	SW03	SW23	SW24	SW15	
Description	Pinewood at Heatwole Rd	Pinewood at former Hwy 600	Pinewood upstream of EDL2	Pinewood downstream of EDL2	Pinewood upstream of realigned Hwy 600	Pinewood upstream of EDL1	Pinewood downstream of EDL1	Pinewood upstream of Rainy River Confluence	Water Quality Target/Limit
Ammonia, Total (mg/L)	0.0331	0.040	0.042	0.044	0.068	0.041	0.072	0.049	0.35-0.73*
Ammonia, Unionized (mg/L)	0.0008	0.0008	0.0009	0.0009	0.0016	0.0009	0.0012	0.0010	0.02**^1
Cyanide, Free (mg/L)	0.0009	0.0008	0.0007	0.0007	0.0007	0.0010	0.0007	0.0008	0.005 ¹
Cyanide, Total (mg/L)	0.0006	0.0008	0.0006	0.0006	0.0008	0.0011	0.0010	0.0007	0.005*^
Field pH (mg/L)	7.21	7.29	7.31	7.37	7.26	7.26	7.26	7.32	6.5-8.5^
Total Suspended Solids (mg/L)	4.5	5.0	7.4	6.4	11.6	13.5	10.1	12.0	30 ¹
Aluminium, Total (mg/L)	0.185	0.194	0.233	0.202	0.401	0.568	0.406	0.610	0.075^
Arsenic, Total (mg/L)	0.0011	0.0013	0.0014	0.0016	0.0014	0.0019	0.0017	0.0017	0.01 ¹
Cadmium, Total (mg/L)	0.000010	0.000012	0.000011	0.000011	0.000017	0.000020	0.000018	0.000021	0.0001-0.0005^
Chromium, Total (mg/L)	0.0005	0.0005	0.0006	0.0005	0.0009	0.0014	0.0012	0.0013	0.001*^
Cobalt, Total (mg/L)	0.0004	0.0004	0.0005	0.0005	0.0005	0.0007	0.0007	0.0006	0.0009^
Copper, Total (mg/L)	0.00082	0.00094	0.00111	0.00147	0.00325	0.00191	0.00292	0.00239	0.005^, 0.008 ¹
Iron, Total (mg/L)	0.767	0.664	0.804	0.617	0.853	1.161	1.017	1.198	0.3*^
Lead, Total (mg/L)	0.000143	0.000159	0.000176	0.000187	0.000293	0.000523	0.000365	0.000615	0.008 ¹
Mercury, Total (mg/L)	0.000005	0.000005	0.000005	0.000005	0.000005	0.000004	0.000005	0.000005	0.0002^
Nickel, Total (mg/L)	0.00152	0.00179	0.00183	0.00177	0.00274	0.00262	0.00233	0.00249	0.025 ¹
Phosphorus, Total (mg/L)	0.002	0.050	0.069	0.062	0.054	0.059	0.057	0.055	0.1 ¹
Zinc, Total (mg/L)	0.00383	0.00305	0.00488	0.00524	0.00523	0.00401	0.00430	0.00533	0.02^

* CEQG

^ PWQO

¹ ECA SW Trigger Value

Table 3: Average 2019 Pinewood River Water Quality for Selected Parameters

Location	SW20	SW10	SW21A	SW22A	SW03	SW23	SW24	SW15	
Description	Pinewood at Heatwole Rd	Pinewood at former Hwy 600	Pinewood upstream of EDL2	Pinewood downstream of EDL2	Pinewood upstream of realigned Hwy 600	Pinewood upstream of EDL1	Pinewood downstream of EDL1	Pinewood upstream of Rainy River Confluence	Water Quality Target/Limit
Ammonia, Total (mg/L)	0.1292	0.062	0.106	0.090	0.116	0.041	0.075	0.029	0.35-0.73*
Ammonia, Unionized (mg/L)	0.0013	0.0011	0.0010	0.0009	0.0011	0.0009	0.0010	0.0010	0.02* ¹
Cyanide, Free (mg/L)	0.0008	0.0008	0.0008	0.0008	0.0008	0.0010	0.0011	0.0006	0.005 ¹
Cyanide, Total (mg/L)	0.0008	0.0010	0.0009	0.0009	0.0011	0.0011	0.0011	0.0008	0.005* ¹
Field pH (mg/L)	7.38	7.59	7.33	7.44	7.35	7.26	7.29	7.44	6.5-8.5 ¹
Total Suspended Solids (mg/L)	7.6	5.6	9.9	17.7	15.7	13.5	12.8	12.9	30 ¹
Aluminium, Total (mg/L)	0.212	0.190	0.229	0.441	0.473	0.568	0.498	0.483	0.075 ¹
Arsenic, Total (mg/L)	0.0013	0.0015	0.0015	0.0015	0.0017	0.0019	0.0019	0.0013	0.01 ¹
Cadmium, Total (mg/L)	0.000013	0.000014	0.000015	0.000016	0.000024	0.000020	0.000021	0.000016	0.0001-0.0005 ¹
Chromium, Total (mg/L)	0.0010	0.0008	0.0007	0.0011	0.0013	0.0014	0.0013	0.0011	0.001* ¹
Cobalt, Total (mg/L)	0.0007	0.0008	0.0007	0.0007	0.0011	0.0007	0.0008	0.0004	0.0009 ¹
Copper, Total (mg/L)	0.00103	0.00094	0.00104	0.00182	0.00366	0.00191	0.00200	0.00166	0.005 ¹ , 0.008 ¹
Iron, Total (mg/L)	1.273	1.022	1.145	1.329	1.454	1.161	1.354	0.781	0.3* ¹
Lead, Total (mg/L)	0.000189	0.000184	0.000258	0.000316	0.000392	0.000523	0.000506	0.000377	0.008 ¹
Mercury, Total (mg/L)	0.000004	0.000004	0.000005	0.000004	0.000004	0.000004	0.000004	0.000004	0.0002 ¹
Nickel, Total (mg/L)	0.00171	0.00191	0.00193	0.00216	0.00318	0.00262	0.00273	0.00176	0.025 ¹
Phosphorus, Total (mg/L)	0.002	0.090	0.137	0.125	0.111	0.059	0.069	0.036	0.1 ¹
Zinc, Total (mg/L)	0.00483	0.00301	0.00295	0.00789	0.00642	0.00401	0.00480	0.00410	0.02 ¹

* CEQG

¹ PWQO

¹ ECA SW Trigger Value

Table 4: Average 2018 Pinewood River Water Quality for Selected Parameters

Location	SW20	SW10	SW21A	SW22A	SW03	SW23	SW24	SW15	
Description	Pinewood at Heatwole Rd	Pinewood at former Hwy 600	Pinewood upstream of EDL2	Pinewood downstream of EDL2	Pinewood upstream of realigned Hwy 600	Pinewood upstream of EDL1	Pinewood downstream of EDL1	Pinewood upstream of Rainy River confluence	Water Quality Target/Limit
Ammonia, Total (mg/L)	0.1100	0.0976	0.210	0.144	0.099	0.130	0.115	0.033	0.35-0.73*
Ammonia, Unionized (mg/L)	0.0010	0.0010	0.0025	0.0020	0.0011	0.0011	0.001	0.0012	0.02* ¹
Cyanide, Free (mg/L)	0.0007	0.0007	0.0006	0.0007	0.0006	0.0008	0.0012	0.0005	0.005 ¹
Cyanide, Total (mg/L)	0.0006	0.0007	0.0008	0.0007	0.0011	0.0007	0.0007	0.0005	0.005* ¹
Field pH (mg/L)	7.40	7.57	7.79	7.70	7.65	7.70	7.74	7.92	6.5-8.5 ¹
Total Suspended Solids (mg/L)	4.4	8.0	16.4	10.6	12.2	20.0	28.8	9.7	30 ¹
Aluminium, Total (mg/L)	0.133	0.223	0.274	0.259	0.501	0.937	1.176	0.797	0.075 ¹
Arsenic, Total (mg/L)	0.0011	0.0014	0.0019	0.0018	0.0016	0.0019	0.0024	0.0012	0.01 ¹
Cadmium, Total (mg/L)	0.001090	0.000015	0.000011	0.000010	0.000020	0.000023	0.000026	0.000014	0.0001-0.0005 ¹
Chromium, Total (mg/L)	0.0005	0.0007	0.0008	0.0007	0.0011	0.0018	0.0022	0.0013	0.001* ¹
Cobalt, Total (mg/L)	0.0005	0.0006	0.0009	0.0006	0.0006	0.0009	0.0011	0.0004	0.0009 ¹
Copper, Total (mg/L)	0.00087	0.00127	0.00126	0.00134	0.00303	0.00225	0.00265	0.00183	0.005 ¹ ,0.008 ¹
Iron, Total (mg/L)	0.975	0.919	2.122	1.058	0.929	1.674	1.878	0.856	0.3* ¹
Lead, Total (mg/L)	0.000163	0.000227	0.000292	0.000232	0.000370	0.000711	0.000900	0.000406	0.008 ¹
Mercury, Total (mg/L)	0.000004	0.000003	0.000003	0.000002	0.000003	0.000005	0.000006	0.000005	0.0002 ¹
Nickel, Total (mg/L)	0.00156	0.00185	0.00207	0.00205	0.00326	0.00316	0.00359	0.00191	0.025 ¹
Phosphorus, Total (mg/L)	0.058	0.081	0.285	0.157	0.069	0.089	0.106	0.045	0.1 ¹
Zinc, Total (mg/L)	0.00617	0.00340	0.00513	0.00887	0.00631	0.00522	0.00687	0.00415	0.02 ¹

* CEQG

¹ PWQO

¹ ECA SW Trigger Value

Table 5: Average 2017 Pinewood River Water Quality for Selected Parameters

Location	SW20	SW10	SW21A	SW22A	SW03	SW23	SW24	SW15	
Description	Pinewood at Heatwole Rd	Pinewood at former Hwy 600	Pinewood upstream of EDL2	Pinewood downstream of EDL2	Pinewood upstream of realigned Hwy 600	Pinewood upstream of EDL1	Pinewood downstream of EDL1	Pinewood upstream of Rainy River confluence	Water Quality Target/Limit
Ammonia, Total (mg/L)	0.0522	0.0462	0.110	0.104	0.106			0.052	0.35-0.73*
Ammonia, Unionized (mg/L)	0.0008	0.0010	0.0009	0.0010	0.0012			0.0010	0.02* ¹
Cyanide, Free (mg/L)									0.005 ¹
Cyanide, Total (mg/L)	0.0010	0.0008	0.0010	0.0010	0.0011			0.0010	0.005* ¹
Field pH (mg/L)	7.24	7.36	7.37	7.49	7.53			7.57	6.5-8.5 ¹
Total Suspended Solids (mg/L)	2.9	7.2	4.4	3.9	12.2			16.0	30 ¹
Aluminium, Total (mg/L)	0.155	0.225	0.114	0.128	0.447			0.764	0.075 ¹
Arsenic, Total (mg/L)	0.0009	0.0011	0.0012	0.0012	0.0013			0.0013	0.01 ¹
Cadmium, Total (mg/L)	0.000008	0.000009	0.000008	0.000008	0.000015			0.000022	0.0001-0.0005 ¹
Chromium, Total (mg/L)	0.0005	0.0006	0.0004	0.0005	0.0009			0.0015	0.001* ¹
Cobalt, Total (mg/L)	0.0003	0.0004	0.0003	0.0003	0.0005			0.0006	0.0009 ¹
Copper, Total (mg/L)	0.00078	0.00088	0.00091	0.00088	0.00179			0.00192	0.005 ¹ ,0.008 ¹
Iron, Total (mg/L)	0.509	0.662	0.428	0.448	0.739			1.174	0.3* ¹
Lead, Total (mg/L)	0.000090	0.000161	0.000126	0.000090	0.000270			0.000488	0.008 ¹
Mercury, Total (mg/L)	0.000003	0.000003	0.000003	0.000002	0.000003			0.000005	0.0002 ¹
Nickel, Total (mg/L)	0.00143	0.00162	0.00145	0.00155	0.00213			0.00224	0.025 ¹
Phosphorus, Total (mg/L)	0.023	0.033	0.030	0.032	0.039			0.041	0.1 ¹
Zinc, Total (mg/L)	0.00914	0.00421	0.00513	0.00559	0.00478			0.00696	0.02 ¹

* CEQG

¹ PWQO

¹ ECA SW Trigger Value

Table 6: Average 2016 Pinewood River Water Quality for Selected Parameters

Location	SW20	SW10	SW21A	SW22A	SW03	SW23	SW24	SW15	
Description	Pinewood at Heatwole Rd	Pinewood at former Hwy 600	Pinewood upstream of EDL2	Pinewood downstream of EDL2	Pinewood upstream of realigned Hwy 600	Pinewood upstream of EDL1	Pinewood downstream of EDL1	Pinewood upstream of Rainy River confluence	Water Quality Target/Limit
Ammonia, Total (mg/L)	0.0379	0.0469	0.091	0.050	0.061			0.026	0.35-0.73*
Ammonia, Unionized (mg/L)	0.0010	0.0010	0.001	0.0010	0.0010			0.0013	0.02* ¹
Cyanide, Free (mg/L)									0.005 ¹
Cyanide, Total (mg/L)									0.005* ¹
Field pH (mg/L)	7.14	7.27	7.23	7.28	7.34			7.49	6.5-8.5 ¹
Total Suspended Solids (mg/L)	4.0	8.4	8.7	3.7	11.4			16.1	30 ¹
Aluminium, Total (mg/L)	0.207	0.284	0.152	0.137	0.343			0.717	0.075 ¹
Arsenic, Total (mg/L)	0.0010	0.0011	0.0011	0.0011	0.0012			0.0013	0.01 ¹
Cadmium, Total (mg/L)	0.000011	0.000010	0.000013	0.000010	0.000015			0.000021	0.0001-0.0005 ¹
Chromium, Total (mg/L)	0.0006	0.0008	0.0005	0.0004	0.0008			0.0014	0.001* ¹
Cobalt, Total (mg/L)	0.0004	0.0005	0.0003	0.0004	0.0005			0.0005	0.0009 ¹
Copper, Total (mg/L)	0.00086	0.00100	0.00115	0.00081	0.00166			0.00201	0.005 ¹ ,0.008 ¹
Iron, Total (mg/L)	0.766	0.816	0.517	0.585	0.837			1.064	0.3* ¹
Lead, Total (mg/L)	0.000149	0.000218	0.000153	0.000111	0.000232			0.000513	0.008 ¹
Mercury, Total (mg/L)	0.000003	0.000003	0.000002	0.000003	0.000003			0.000003	0.0002 ¹
Nickel, Total (mg/L)	0.00158	0.00170	0.00167	0.00144	0.00207			0.00222	0.025 ¹
Phosphorus, Total (mg/L)									0.1 ¹
Zinc, Total (mg/L)	0.00395	0.00621	0.00530	0.00240	0.00354			0.00642	0.02 ¹

* CEQG

¹ PWQO

¹ ECA SW Trigger Value

Table 7: 2020 ECA Surface Water Trigger Values for Surface Water Location SW22A

Location	Sample Date	Ammonia, Unionized (mg/L)	Cyanide, Free (mg/L)	Total Suspend Solids (mg/L)	Arsenic, Total (mg/L)	Copper, Total (mg/L)	Lead, Total (mg/L)	Nickel, Total (mg/L)	Phosphorous, Total (mg/L)	Zinc, Total (mg/L)
ECA Surface Water Trigger Value		0.020	0.005	30	0.01	0.008	0.008	0.025	0.1	0.09
SW22A - Pinewood River downstream of the confluence with Loslo Creek/EDL2	2020-01-09	<i>0.0010</i>	0.0008	9.5	0.0010	0.00148	0.000240	0.0021	0.080	0.010
	2020-02-05	<i>0.0010</i>	0.0008	6.0	0.0010	0.00116	0.000215	0.0020	0.080	0.009
	2020-03-11	<i>0.0010</i>	0.0013	8.5	0.0010	0.00144	0.000240	0.0021	0.080	0.023
	2020-04-09	<i>0.0010</i>	0.0006	9.0	0.0007	0.00166	0.000310	0.0016	0.052	0.004
	2020-05-13	<i>0.0010</i>	0.0004	9.5	0.0010	0.00144	0.000230	0.0017	0.032	0.004
	2020-06-17	0.0007	0.0011	5.0	0.0016	0.00095	0.000180	0.0018	0.088	0.003
	2020-07-10	0.0010	0.0006	3.0	0.0021	0.00080	0.000090	0.0016	0.005	0.002
	2020-08-11	<i>0.0010</i>	0.0006	20.0	0.0040	0.00188	0.000430	0.0025	0.205	0.006
	2020-09-15	<i>0.0010</i>	0.0003	4.0	0.0015	0.00026	0.000030	0.0012	0.070	0.001
	2020-10-19	<i>0.0010</i>	0.0003	2.5	0.0026	0.00096	0.000080	0.0011	0.005	0.002
	2020-11-04	<i>0.0010</i>	0.0007	1.5	0.0013	0.00264	0.000150	0.0017	0.015	0.001
2020-11-10	<i>0.0010</i>	0.0008	0.5	0.0013	0.00370	0.000100	0.0016	0.020	0.002	
2020-12-16	0.0001	0.0007	4.5	0.0012	0.00080	0.000130	0.0020	0.075	0.004	

Italicized results denote <DL

Table 8: 2020 ECA Surface Water Trigger Values for Surface Water Location SW24

Location	Sample Date	Ammonia, Unionized (mg/L)	Cyanide, Free (mg/L)	Total Suspend Solids (mg/L)	Arsenic, Total (mg/L)	Copper, Total (mg/L)	Lead, Total (mg/L)	Nickel, Total (mg/L)	Phosphorous, Total (mg/L)	Zinc, Total (mg/L)
ECA Surface Water Trigger Value		0.020	0.005	30	0.01	0.008	0.008	0.025	0.1	0.09
SW24 -Pinewood River downstream of EDL1	2020-01-09	<i>0.0010</i>	0.0004	10.5	0.0010	0.00152	0.00037	0.00234	0.065	0.0058
	2020-02-04	<i>0.0010</i>	0.0007	9.5	0.0010	0.00150	0.00035	0.00216	0.070	0.0044
	2020-03-10	<i>0.0010</i>	0.0008	22.0	0.0011	0.00160	0.00051	0.00262	0.085	0.0075
	2020-04-07	<i>0.0010</i>	0.0008	19.0	0.0007	0.00166	0.00039	0.00180	0.060	0.0040
	2020-05-12	0.0050	0.0005	11.5	0.0014	0.00318	0.00031	0.00214	0.024	0.0035
	2020-06-17	0.0006	0.0015	19.0	0.0019	0.00230	0.00052	0.00268	0.050	0.0044
	2020-07-07	0.0006	0.0013	15.0	0.0038	0.00220	0.00064	0.00286	0.132	0.0038
	2020-08-11	<i>0.0010</i>	0.0005	4.0	0.0024	0.00332	0.00041	0.00378	0.060	0.0025
	2020-09-15	<i>0.0010</i>	0.0004	3.5	0.0025	0.00186	0.00042	0.00252	0.095	0.0055
	2020-10-14	<i>0.0010</i>	<i>0.0001</i>	4.0	0.0021	0.00868	0.00024	0.00176	0.030	0.0015
	2020-11-04	<i>0.0010</i>	0.0007	3.5	0.0014	0.00508	0.00011	0.00138	0.015	0.0005
2020-11-10	<i>0.0010</i>	0.0006	6.5	0.0014	0.00370	0.00023	0.00190	0.020	0.0025	
2020-12-16	0.00004	0.0011	3.5	0.00120	0.00140	0.00024	0.00230	0.035	0.0100	

Table 9: 2019 ECA Surface Water Trigger Values for Surface Water Location SW22A

Location	Sample Date	Ammonia, Unionized (mg/L)	Cyanide, Free (mg/L)	Total Suspended Solids (mg/L)	Arsenic, Total (mg/L)	Copper, Total (mg/L)	Lead, Total (mg/L)	Nickel, Total (mg/L)	Phosphorous, Total (mg/L)	Zinc, Total (mg/L)
ECA Surface Water Trigger Value		0.020	0.005	30	0.01	0.008	0.008	0.025	0.1	0.09
SW22A - Pinewood River downstream of the confluence with Loslo Creek/EDL2	2019-01-16	<i>0.0010</i>	0.0018	7.0	0.00147	0.00174	0.000215	0.0022	0.145	0.022
	2019-02-13	No Sample								
	2019-03-12	<i>0.0010</i>	0.0007	96.0	0.00283	0.00302	0.001590	0.0055	0.730	0.018
	2019-04-09	<i>0.0010</i>	0.0004	22.5	0.00063	0.00170	0.000375	0.0013	0.065	0.005
	2019-05-15	<i>0.0010</i>	0.0006	15.5	0.00137	0.00506	0.000340	0.0022	0.060	0.015
	2019-06-12	<i>0.0010</i>	0.0006	8.0	0.00125	0.00172	0.000190	0.0019	0.045	0.004
	2019-07-08	<i>0.0010</i>	0.0008	4.0	0.00181	0.00134	0.000110	0.0016	0.050	0.002
	2019-08-13	<i>0.0010</i>	0.0012	9.0	0.0028	0.00090	0.000150	0.0018		0.002
	2019-09-19	<i>0.0010</i>	0.0007	3.5	0.00145	0.00058	0.000030	0.0017	0.055	0.001
	2019-10-08	<i>0.0010</i>	0.001	2.5	0.00092	0.00120	0.000025	0.0015	0.020	0.003
2019-11-14	<i>0.0005</i>	0.0004	6.5	0.00088	0.00116	0.000110	0.0016	0.025	0.004	
2019-12-12	<i>0.0005</i>	0.0007	20.5	0.00098	0.00160	0.000345	0.0023	0.055	0.011	

Italicized results denote <DL

Table 10: 2019 ECA Surface Water Trigger Values for Surface Water Location SW24

Location	Sample Date	Ammonia, Unionized (mg/L)	Cyanide, Free (mg/L)	Total Suspended Solids (mg/L)	Arsenic, Total (mg/L)	Copper, Total (mg/L)	Lead, Total (mg/L)	Nickel, Total (mg/L)	Phosphorous, Total (mg/L)	Zinc, Total (mg/L)
ECA Surface Water Trigger Value		0.020	0.005	30	0.01	0.008	0.008	0.025	0.1	0.09
SW24 -Pinewood River downstream of EDL1	2019-01-15	<i>0.0010</i>	0.0012	12.5	0.00132	0.00192	0.00050	0.00286	0.080	0.0034
	2019-02-12	<i>0.0010</i>	0.0009	14.0	0.00188	0.00262	0.00079	0.00406	0.105	0.0054
	2019-03-12	<i>0.0010</i>	0.0007	11.0	0.00178	0.00172	0.00072	0.00364	0.145	0.0042
	2019-04-09	<i>0.0010</i>	0.0006	27.5	0.00069	0.00196	0.00054	0.00178	0.090	0.0062
	2019-05-15	<i>0.0010</i>	0.0011	10.5	0.00124	0.00228	0.00032	0.00188	0.035	0.0106
	2019-06-11	<i>0.0010</i>	0.0014	10.5	0.00144	0.00168	0.00030	0.00236	0.045	0.0030
	2019-07-08	<i>0.0010</i>	0.0014	17.0	0.00412	0.00302	0.00095	0.00448	0.115	0.0048
	2019-08-13	<i>0.0010</i>	0.0019	15.5	0.00560	0.00260	0.00107	0.00430	0.000	0.0050
	2019-09-18	<i>0.0010</i>	0.0011	14.0	0.00163	0.00116	0.00033	0.00196	0.050	0.0018
	2019-10-08	<i>0.0010</i>	0.0013	7.5	0.00091	0.00112	0.00011	0.00150	0.025	0.0022
	2019-11-14	<i>0.0010</i>	0.0006	3.5	0.00115	0.00240	0.00017	0.00178	0.030	0.0046
2019-12-13	<i>0.0010</i>	0.0008	10.5	0.00096	0.00148	0.00029	0.00210	0.035	0.0064	

Italicized results denote <DL

Table 11: 2018 ECA Surface Water Trigger Values for Surface Water Location SW22A

Location	Sample Date	Ammonia, Unionized (mg/L)	Cyanide, Free (mg/L)	Total Suspended Solids (mg/L)	Arsenic, Total (mg/L)	Copper, Total (mg/L)	Lead, Total (mg/L)	Nickel, Total (mg/L)	Phosphorous, Total (mg/L)	Zinc, Total (mg/L)
ECA Surface Water Trigger Value		0.020	0.005	30	0.01	0.008	0.008	0.025	0.1	0.09
SW22A - Pinewood River downstream of the confluence with Loslo Creek/EDL2	2018-01-09	<i>0.0010</i>		5.0	0.0013	0.00176	0.000250	0.0022	0.074	0.031
	2018-02-20	0.0130		25.0	0.0019	0.00092	0.000520	0.0025	0.432	0.004
	2018-03-13	<i>0.0010</i>		14.5	0.0016	0.00192	0.000490	0.0026	0.230	0.026
	2018-04-10	<i>0.0010</i>	0.0001	4.5	0.0010	0.00146	0.000200	0.0018	0.082	0.009
	2018-05-08	<i>0.0010</i>	0.0006	7.5	0.0012	0.00130	0.000240	0.0017	0.068	0.004
	2018-06-12	<i>0.0010</i>	0.0006	4.5	0.0021	0.00124	0.000090	0.0017	0.116	0.003
	2018-07-17	<i>0.0010</i>	0.0009	33.5	0.0032	0.00146	0.000380	0.0028	0.202	0.006
	2018-08-09	<i>0.0010</i>	0.0009	4.5	0.0033	0.00118	0.000250	0.0022	0.225	0.005
	2018-09-11	<i>0.0010</i>	0.0014	14.5	0.0031	0.00050	0.000040	0.0016	0.335	0.001
	2018-10-16	<i>0.0010</i>	0.0001	6.0	0.0008	0.00164	0.000080	0.0016	0.055	0.005
	2018-11-14	<i>0.0010</i>	0.0008	2.5	0.0008	0.00128	0.000095	0.0017	0.010	0.005
2018-12-04	<i>0.0010</i>	0.0009	5.5	0.0012	0.00140	0.000150	0.0021	0.055	0.007	

Italicized results denote <DL

Table 12: 2018 ECA Surface Water Trigger Values for Surface Water Location SW24

Location	Sample Date	Ammonia, Unionized (mg/L)	Cyanide, Free (mg/L)	Total Suspended Solids (mg/L)	Arsenic, Total (mg/L)	Copper, Total (mg/L)	Lead, Total (mg/L)	Nickel, Total (mg/L)	Phosphorous, Total (mg/L)	Zinc, Total (mg/L)
ECA Surface Water Trigger Value		0.020	0.005	30	0.01	0.008	0.008	0.025	0.1	0.09
SW24 -Pinewood River downstream of EDL1	2018-01-09	0.0020		19.0	0.0012	0.00238	0.00075	0.00358	0.082	0.0076
	2018-02-20	0.0020		25.0	0.0014	0.00228	0.00089	0.00354	0.128	0.0060
	2018-03-13	<i>0.0010</i>		20.0	0.0015	0.00244	0.00110	0.00404	0.156	0.0068
	2018-04-10	<i>0.0010</i>	0.0002	5.0	0.0009	0.00148	0.00030	0.00184	0.050	0.0030
	2018-05-08	<i>0.0010</i>	<i>0.0005</i>	17.5	0.0011	0.00210	0.00053	0.00238	0.050	0.0048
	2018-06-12	<i>0.0010</i>	<i>0.0001</i>	27.0	0.0022	0.00336	0.00096	0.00364	0.086	0.0082
	2018-07-17	<i>0.0010</i>	0.0010	118.0	0.0059	0.00624	0.00258	0.00854	0.222	0.0206
	2018-08-07	<i>0.0010</i>	0.0014	43.5	0.0052	0.00334	0.00149	0.00452	0.165	0.0098
	2018-09-11	<i>0.0010</i>	0.0009	48.5	0.0065	0.00342	0.00142	0.00508	0.220	0.0060
	2018-10-16	<i>0.0010</i>	0.0004	8.5	0.0008	0.00140	0.00022	0.00168	0.045	0.0024
	2018-11-13	<i>0.0010</i>	0.0008	6.5	0.0009	0.00152	0.00022	0.00180	0.015	0.0032
2018-12-04	<i>0.0010</i>	0.0007	6.5	0.0011	0.00188	0.00034	0.00248	0.050	0.0040	

Italicized results denote <DL

Table 13: 2017 ECA Surface Water Trigger Values for Surface Water Location SW22A

Location	Sample Date	Ammonia, Unionized (mg/L)	Cyanide, Free (mg/L)	Total Suspend Solids (mg/L)	Arsenic, Total (mg/L)	Copper, Total (mg/L)	Lead, Total (mg/L)	Nickel, Total (mg/L)	Phosphorous, Total (mg/L)	Zinc, Total (mg/L)
ECA Surface Water Trigger Value		0.020	0.005	30	0.01	0.008	0.008	0.025	0.1	0.09
SW22A - Pinewood River downstream of the confluence with Loslo Creek/EDL2	2017-01-25	<i>0.0005</i>		5.0	0.0010	0.00090	0.000200	0.0016		0.008
	2017-02-15	<i>0.0010</i>		6.0	0.0011	0.00090	0.000100	0.0024		0.010
	2017-03-29	<i>0.0010</i>		9.0	0.0005	0.00130	0.000200	0.0011		0.004
	2017-04-26	<i>0.0010</i>		3.5	0.0007	0.00090	0.000060	0.0012		0.002
	2017-05-25	<i>0.0010</i>		2.5	0.0009	0.00085	0.000040	0.0016		0.002
	2017-06-21	<i>0.0010</i>		5.0	0.0014	0.00070	0.000080	0.0015		0.004
	2017-07-18			1.5	0.0020	0.00030	0.000070	0.0014		0.003
	2017-08-18			5.5	0.0030	0.00050	0.000110	0.0021		0.004
	2017-09-26	<i>0.0010</i>		2.0	0.0011	0.00100	0.000005	0.0013		0.003
	2017-10-30	<i>0.0010</i>		2.0	0.0008	0.00100	0.000040	0.0012		0.003
2017-11-20	<i>0.0010</i>		2.5	0.0008	0.00100	0.000080	0.0015		0.015	
2017-12-14	<i>0.0010</i>		2.5	0.0008	0.00120	0.000100	0.0017		0.012	

Italicized results denote <DL

Table 14: 2016 ECA Surface Water Trigger Values for Surface Water Location SW22A

Location	Sample Date	Ammonia, Unionized (mg/L)	Cyanide, Free (mg/L)	Total Suspend Solids (mg/L)	Arsenic, Total (mg/L)	Copper, Total (mg/L)	Lead, Total (mg/L)	Nickel, Total (mg/L)	Phosphorous, Total (mg/L)	Zinc, Total (mg/L)
ECA Benchmark		0.020	0.005	30	0.01	0.008	0.008	0.025	0.1	0.09
SW22A - Pinewood River downstream of the confluence with Loslo Creek/EDL2	2016-01-27	<i>0.0010</i>		3.5	0.001	0.00090	0.00020	0.00160		0.00500
	2016-02-29	<i>0.0010</i>		3.5	0.0011	0.00090	0.00021	0.00180		0.00500
	2016-03-23	<i>0.0005</i>		7.5	0.0006	0.00150	0.00026	0.00140		0.00350
	2016-04-18	<i>0.0010</i>		4.5	0.0006	0.00110	0.00011	0.00120		0.00150
	2016-05-18	<i>0.0010</i>		3.5	0.001	0.00090	0.00003	0.00150		0.00100
	2016-06-22	<i>0.0010</i>		1.0						
	2016-07-15	<i>0.0010</i>		0.5	0.0017	0.00070	0.00005	0.00160		0.00150
	2016-08-16	<i>0.0010</i>		3.0	0.0021	0.00040	0.00001	0.00150		0.00050
	2016-09-21	<i>0.0010</i>		4.0	0.0011	0.00040	0.00006	0.00140		0.00050
	2016-10-22	<i>0.0010</i>		3.5	0.0007	0.00070	0.00006	0.00110		0.00200
	2016-11-16	<i>0.0010</i>		6.0	0.0008	0.00060	0.00012	0.00130		0.00350
2016-12-21	<i>No Sample</i>									

Italicized results denote <DL

Table 15: Average 2020 Area Creek and Rainy River Water Quality for Selected Parameters

Location	SW28A	SW02	SW25	SW26	SW27	SW29	SW16	SW17	
Description	Clark Creek downstream of Clark Creek/Teeples Diversion	West Creek near Roen Pit	West Creek Diversion near Sediment Pond #1	West Creek Diversion near Sediment Pond #2	Loslo Creek downstream of West Creek Diversion confluence	Tait Creek upstream of EDL1 pipe crossing	Rainy River upstream of Pinewood confluence	Rainy River downstream of Pinewood confluence	Water Quality Target/Limit
Ammonia, Total (mg/L)	0.042	0.101	0.029	0.033	0.039	0.203	0.020	0.016	0.35-0.73*
Ammonia, Unionized (mg/L)	0.0009	0.0009	0.0008	0.0009	0.0009	0.0008	0.0009	0.0015	0.02**^
Cyanide, Free (mg/L)	0.0008	0.0009	0.0006	0.0006	0.0008	0.0008	0.0006	0.0004	
Cyanide, Total (mg/L)	0.0007	0.0006	0.0009	0.0007	0.0006	0.0011	0.0003	0.0004	0.005**^
Field pH (mg/L)	7.67	6.95	7.55	7.66	7.51	6.82	7.33	7.44	6.5-8.5^
Total Suspended Solids (mg/L)	7.8	1.3	5.0	5.3	7.0	4.2	9.3	5.6	
Aluminium, Total (mg/L)	0.221	0.073	0.230	0.205	0.261	0.168	0.304	0.168	0.075^
Arsenic, Total (mg/L)	0.0011	0.0006	0.0009	0.0012	0.0012	0.0012	0.0006	0.0006	0.05*
Cadmium, Total (mg/L)	0.000013	0.000007	0.000009	0.000007	0.000013	0.000010	0.000018	0.000013	0.0001-0.0005^
Chromium, Total (mg/L)	0.0005	0.0003	0.0005	0.0005	0.0006	0.0005	0.0008	0.0006	0.001**^
Cobalt, Total (mg/L)	0.0004	0.0002	0.0002	0.0003	0.0004	0.0011	0.0002	0.0001	0.0009^
Copper, Total (mg/L)	0.00107	0.00038	0.00235	0.00192	0.00174	0.00058	0.00150	0.00114	0.002-0.004*
Iron, Total (mg/L)	0.589	0.378	0.469	0.446	0.485	1.246	0.437	0.318	0.3**^
Lead, Total (mg/L)	0.000155	0.000091	0.000165	0.000155	0.000175	0.000220	0.000251	0.000163	0.001-0.005**^
Mercury, Total (mg/L)	0.000005	0.000005	0.000005	0.000005	0.000005	0.000006	0.000005	0.000005	0.0002^
Nickel, Total (mg/L)	0.00128	0.00050	0.00152	0.00149	0.00156	0.00153	0.00114	0.00094	0.025**^
Phosphorus, Total (mg/L)	0.017	0.007	0.030	0.023	0.036	0.055	0.018	0.014	
Zinc, Total (mg/L)	0.00212	0.00178	0.01141	0.01533	0.01167	0.00588	0.00429	0.00237	0.02^

* CEQG

^ PWQO

Table 16: Average 2019 Area Creek and Rainy River Water Quality for Selected Parameters

Location	SW28A	SW02	SW25	SW26	SW27	SW29	SW16	SW17	
Description	Clark Creek downstream of Clark Creek/Teepie Diversion	West Creek near Roen Pit	West Creek Diversion near Sediment Pond #1	West Creek Diversion near Sediment Pond #2	Loslo Creek downstream of West Creek Diversion confluence	Tait Creek upstream of EDL1 pipe crossing	Rainy River upstream of Pinewood confluence	Rainy River downstream of Pinewood confluence	Water Quality Target/Limit
Ammonia, Total (mg/L)	0.027	0.089	0.165	0.097	0.024	0.193	0.015	0.025	0.35-0.73*
Ammonia, Unionized (mg/L)	0.0009	0.0009	0.0011	0.0013	0.0009	0.0016	0.0010	0.0009	0.02*^
Cyanide, Free (mg/L)	0.0006	0.0008	0.0008	0.0008	0.0009	0.0011	0.0004	0.0005	
Cyanide, Total (mg/L)	0.0006	0.0009	0.0008	0.0009	0.0009	0.0012	0.0004	0.0005	0.005*^
Field pH (mg/L)	7.57	7.20	7.34	7.77	7.45	7.14	7.79	7.55	6.5-8.5^
Total Suspended Solids (mg/L)	10.8	1.7	8.0	15.6	4.8	6.4	17.7	5.9	
Aluminium, Total (mg/L)	0.238	0.145	0.240	0.307	0.207	0.199	0.349	0.152	0.075^
Arsenic, Total (mg/L)	0.0010	0.0007	0.0014	0.0015	0.0011	0.0015	0.0006	0.0005	0.05*
Cadmium, Total (mg/L)	0.000011	0.000006	0.000014	0.000013	0.000009	0.000011	0.000014	0.000007	0.0001-0.0005^
Chromium, Total (mg/L)	0.0008	0.0007	0.0009	0.0009	0.0008	0.0007	0.0011	0.0006	0.001*^
Cobalt, Total (mg/L)	0.0003	0.0003	0.0008	0.0005	0.0003	0.0009	0.0003	0.0001	0.0009^
Copper, Total (mg/L)	0.00126	0.00096	0.00161	0.00186	0.00153	0.00088	0.00146	0.00107	0.002-0.004*
Iron, Total (mg/L)	0.494	0.499	0.736	0.602	0.467	1.753	0.562	0.290	0.3*^
Lead, Total (mg/L)	0.000195	0.000124	0.000208	0.000217	0.000148	0.000209	0.000335	0.000138	0.001-0.005*^
Mercury, Total (mg/L)	0.000004	0.000004	0.000004	0.000003	0.000004	0.000006	0.000004	0.000004	0.0002^
Nickel, Total (mg/L)	0.00141	0.00068	0.00188	0.00183	0.00157	0.00161	0.00125	0.00085	0.025*^
Phosphorus, Total (mg/L)	0.023	0.009	0.035	0.025	0.021	0.102	0.029	0.015	
Zinc, Total (mg/L)	0.00280	0.00401	0.00853	0.02273	0.01337	0.00361	0.00656	0.00360	0.02^

* CEQG

^ PWQO

Table 17: Average 2018 Area Creek and Rainy River Water Quality for Selected Parameters

Location	SW28A	SW02	SW25	SW26	SW27	SW29	SW16	SW17	
Description	Clark Creek downstream of Clark Creek/Teeple Diversion	West Creek near Roen Pit	West Creek Diversion near Sediment Pond #1	West Creek Diversion near Sediment Pond #2	Loslo Creek downstream of West Creek Diversion confluence	Tait Creek upstream of EDL1 pipe crossing	Rainy River upstream of Pinewood confluence	Rainy River downstream of Pinewood confluence	Water Quality Target/Limit
Ammonia, Total (mg/L)	0.064	0.209	0.049	0.065	0.075	1.658	0.050	0.041	0.35-0.73*
Ammonia, Unionized (mg/L)	0.0010	0.0010	0.0010	0.0021	0.0015	0.0115	0.0010	0.0013	0.02**^
Cyanide, Free (mg/L)	0.0004	0.0006	0.0006	0.0005	0.0006	0.0007	0.0002	0.0004	
Cyanide, Total (mg/L)	0.0006	0.0008	0.0007	0.0010	0.0007	0.0006	0.0003	0.0003	0.005**^
Field pH (mg/L)	7.84	7.60	7.70	7.88	7.99	7.55	8.03	7.90	6.5-8.5^
Total Suspended Solids (mg/L)	6.7	6.5	5.3	8.9	7.1	24.0	6.6	9.8	
Aluminium, Total (mg/L)	0.158	0.106	0.161	0.464	0.349	0.477	0.183	0.310	0.075^
Arsenic, Total (mg/L)	0.0011	0.0008	0.0014	0.0017	0.0012	0.0017	0.0005	0.0008	0.05*
Cadmium, Total (mg/L)	0.000008	0.000013	0.000008	0.000014	0.000014	0.000020	0.000009	0.000010	0.0001-0.0005^
Chromium, Total (mg/L)	0.0004	0.0004	0.0005	0.0012	0.0008	0.0010	0.0006	0.0008	0.001**^
Cobalt, Total (mg/L)	0.0002	0.0005	0.0003	0.0006	0.0005	0.0024	0.0001	0.0002	0.0009^
Copper, Total (mg/L)	0.00107	0.00135	0.00157	0.00365	0.00206	0.00088	0.00129	0.00145	0.002-0.004*
Iron, Total (mg/L)	0.320	0.755	0.403	0.694	0.631	5.335	0.297	0.492	0.3**^
Lead, Total (mg/L)	0.000110	0.000607	0.000182	0.000472	0.000234	0.000530	0.000165	0.000262	0.001-0.005**^
Mercury, Total (mg/L)	0.000004	0.000004	0.000002	0.000004	0.000004	0.000007	0.000003	0.000005	0.0002^
Nickel, Total (mg/L)	0.00134	0.00093	0.00177	0.00221	0.00185	0.00225	0.00093	0.00126	0.025**^
Phosphorus, Total (mg/L)	0.019	0.021	0.039	0.040	0.043	0.394	0.013	0.027	
Zinc, Total (mg/L)	0.00217	0.06723	0.00618	0.06411	0.02486	0.00525	0.00228	0.00288	0.02^

* CEQG

^ PWQO

Table 18: Average 2017 Area Creek and Rainy River Water Quality for Selected Parameters

Location	SW28A	SW02	SW25	SW26	SW27	SW29	SW16	SW17	
Description	Clark Creek downstream of Clark Creek/Teepie Diversion	West Creek near Roen Pit	West Creek Diversion near Sediment Pond #1	West Creek Diversion near Sediment Pond #2	Loslo Creek downstream of West Creek Diversion confluence	Tait Creek upstream of EDL1 pipe crossing	Rainy River upstream of Pinewood confluence	Rainy River downstream of Pinewood confluence	Water Quality Target/Limit
Ammonia, Total (mg/L)	0.036	0.042	0.022	0.039	0.097		0.030	0.023	0.35-0.73*
Ammonia, Unionized (mg/L)	0.0011	0.0010	0.0014	0.0012	0.001		0.0010	0.0009	0.02*^
Cyanide, Free (mg/L)									
Cyanide, Total (mg/L)	0.0009	0.0009	0.0008	0.0007	0.0019		0.0008	0.0008	0.005*^
Field pH (mg/L)	7.72	7.30	7.62	7.46	7.55		7.74	7.71	6.5-8.5^
Total Suspended Solids (mg/L)	6.4	2.2	5.6	11.4	6.6		6.0	6.0	
Aluminium, Total (mg/L)	0.227	0.078	0.429	0.373	0.183		0.172	0.185	0.075^
Arsenic, Total (mg/L)	0.0012	0.0006	0.0012	0.0016	0.0010		0.0035	0.0013	0.05*
Cadmium, Total (mg/L)	0.000012	0.000005	0.000011	0.000017	0.000010		0.000012	0.000008	0.0001-0.0005^
Chromium, Total (mg/L)	0.0005	0.0003	0.0010	0.0010	0.0006		0.0009	0.0005	0.001*^
Cobalt, Total (mg/L)	0.0002	0.0001	0.0003	0.0005	0.0005		0.0001	0.0001	0.0009^
Copper, Total (mg/L)	0.00134	0.00045	0.00250	0.00324	0.00150		0.00320	0.00156	0.002-0.004*
Iron, Total (mg/L)	0.310	0.247	0.498	0.648	0.614		0.253	0.298	0.3*^
Lead, Total (mg/L)	0.000125	0.000058	0.000216	0.000194	0.000123		0.000178	0.000163	0.001-0.005*^
Mercury, Total (mg/L)	0.000005	0.000003	0.000002	0.000003	0.000003		0.000003	0.000003	0.0002^
Nickel, Total (mg/L)	0.00131	0.00056	0.00182	0.00244	0.00146		0.00090	0.00093	0.025*^
Phosphorus, Total (mg/L)	0.031	0.008			0.021		0.010	0.019	
Zinc, Total (mg/L)	0.00394	0.00292	0.01620	0.27740	0.00929		0.00467	0.00278	0.02^

* CEQG

^ PWQO

Table 19: Average 2016 Area Creek and Rainy River Water Quality for Selected Parameters

Location	SW28A	SW02	SW25	SW26	SW27	SW29	SW16	SW17	
Description	Clark Creek downstream of Clark Creek/Teepie Diversion	West Creek near Roen Pit	West Creek Diversion near Sediment Pond #1	West Creek Diversion near Sediment Pond #2	Loslo Creek downstream of West Creek Diversion confluence	Tait Creek upstream of EDL1 pipe crossing	Rainy River upstream of Pinewood confluence	Rainy River downstream of Pinewood confluence	Water Quality Target/Limit
Ammonia, Total (mg/L)	0.040	0.049			0.066		0.015	0.018	0.35-0.73*
Ammonia, Unionized (mg/L)	0.0010	0.0010			0.0010		0.0010	0.0010	0.02*^
Cyanide, Free (mg/L)									
Cyanide, Total (mg/L)									0.005*^
Field pH (mg/L)	7.58	6.89			7.21		7.50	7.52	6.5-8.5^
Total Suspended Solids (mg/L)	4.4	3.2			3.9		6.6	6.0	
Aluminium, Total (mg/L)	0.117	0.093			0.090		0.200	0.233	0.075^
Arsenic, Total (mg/L)	0.0013	0.0006			0.0011		0.0005	0.0006	0.05*
Cadmium, Total (mg/L)	0.000008	0.000006			0.000008		0.000008	0.000010	0.0001-0.0005^
Chromium, Total (mg/L)	0.0004	0.0003			0.0003		0.0006	0.0006	0.001*^
Cobalt, Total (mg/L)	0.0002	0.0002			0.0004		0.0001	0.0002	0.0009^
Copper, Total (mg/L)	0.00084	0.00048			0.00065		0.00120	0.00122	0.002-0.004*
Iron, Total (mg/L)	0.370	0.412			0.620		0.313	0.400	0.3*^
Lead, Total (mg/L)	0.000092	0.000095			0.000077		0.000160	0.000173	0.001-0.005*^
Mercury, Total (mg/L)	0.000003	0.000002			0.000003		0.000002	0.000003	0.0002^
Nickel, Total (mg/L)	0.00142	0.00059			0.00139		0.00094	0.00106	0.025*^
Phosphorus, Total (mg/L)									
Zinc, Total (mg/L)	0.00180	0.00245			0.00345		0.00346	0.00286	0.02^

* CEQG

^ PWQO

Table 20: Sediment Pond 1 Effluent Discharge Quality, July 2020

Parameter	Units	ECA Daily Limit	Sed Pond 1 Discharge	ECA Monthly Limit	July 2020 Average
			2020-07-16		
Total Suspended Solids	mg/L	30	0.5	15	0.5
Ammonia, Unionized	mg/L	0.080	0.00259	0.04	0.00259
Phosphorus, Total	mg/L		0.0245	0.1	0.0245
Cyanide, Total	mg/L	0.1	0.0094	0.05	0.0094
Cyanide, Free	mg/L	0.02	0.0026	0.01	0.0026
Arsenic, Total	mg/L	0.034	0.00269	0.017	0.00269
Copper, Total	mg/L	0.028	0.00408	0.014	0.00408
Lead, Total	mg/L	0.03	0.00004	0.015	0.00004
Nickel, Total	mg/L	0.094	0.00206	0.047	0.00206
Zinc, Total	mg/L	0.348	0.211	0.174	0.211
Field pH	pH units	6.0-9.5	7.82	6.0-9.5	7.82
Acute Toxicity, Rainbow Trout	Pass/Fail	Pass		Pass	
Acute Toxicity, <i>Daphnia magna</i>	Pass/Fail	Pass		Pass	
CBOD5	mg/L		<2	25	<2
Cadmium	mg/L		0.000079	0.001	0.000079
Cobalt	mg/L		0.000094	0.0044	0.000094
<i>E. coli</i>	MPN/100mL		15	100	15

Table 21: October 2020 Pinewood River Surface Water Monitoring and Effluent Discharge Quality Data

Location	Sample Date	Ammonia, Unionized (mg/L)	Cyanide, Free (mg/L)	Total Suspend Solids (mg/L)	Arsenic, Total (mg/L)	Copper, Total (mg/L)	Lead, Total (mg/L)	Nickel, Total (mg/L)	Phosphorous, Total (mg/L)	Zinc, Total (mg/L)
ECA Surface Water Trigger Value		0.020	0.005	30	0.01	0.008	0.008	0.025	0.1	0.09
SW20	2020-10-14	<i>0.001</i>	0.0005	2.5	0.00086	0.00034	0.00005	0.00124	0.015	<i>0.0005</i>
SW10	2020-10-14	<i>0.001</i>	0.0005	5.0	0.0010	0.00048	0.00007	0.00162	0.02	0.001
SW21A	2020-10-19	<i>0.001</i>	0.0004	4.0	0.0011	0.00078	0.00005	0.00118	0.025	<i>0.0005</i>
Sediment Pond 2	2020-10-13	<i>0.001</i>	0.0001	1.0	0.00227	0.0023	0.00001	0.00124	0.005	<i>0.0005</i>
EDL2	2020-10-15	0.002	0.0004	10	0.00489	0.00246	0.00115	0.00114	0.022	0.016
SW22A	2020-10-19	<i>0.001</i>	0.0003	2.5	0.00258	0.00096	0.00008	0.00114	0.005	0.002
SW03	2020-10-14	<i>0.001</i>	0.0008	4.5	0.00123	0.00132	0.00012	0.0018	0.035	0.002
SW23	2020-10-14	<i>0.001</i>	0.0008	5.0	0.00177	0.00114	0.00022	0.00198	0.055	0.002
EDL1	2020-10-14	0.001	0.0027	2.0	0.00264	0.0203	0.00004	0.00142	0.009	0.003
SW24	2020-10-14	<i>0.001</i>	<i>0.0001</i>	4.0	0.00205	0.00868	0.00024	0.00176	0.03	0.0015
SW15	2020-10-14	<i>0.001</i>	0.0005	30.0	0.00294	0.00388	0.00106	0.00436	0.12	0.006

Italicized results denote <DL

Table 22: Pinewood River Daily Average Flow, Site Discharge Rates and Dilution Ratios for October 2020

Date	Average 24-hr Flow in Pinewood River at H1 Hydrometric Station less discharge (m ³ /day)	Calculated Average 24-hr Flow in Pinewood River at EDL2 (m ³ /day)	EDL1 Daily Discharge (m ³ /day)	EDL2 Daily Discharge (m ³ /day)	EDL1/EDL2 Dilution Ratio* (1 : X)	Sediment Pond 2 Daily Discharge (m ³ /day)	Dilution Ratio* (1 : X)
1-Oct-20	1,467	956	0	0	0.00	106	10.0
2-Oct-20	1,505	263	0	0	0.00	110	7.5
3-Oct-20	2,121	475	0	0	0.00	150	10.0
4-Oct-20	847	542	0	0	0.00	212	10.0
5-Oct-20	954	699	0	0	0.00	84	9.9
6-Oct-20	2,311	690	0	0	0.00	95	10.0
7-Oct-20	3,133	1,053	0	0	0.00	231	10.0
8-Oct-20	2,650	985	0	0	0.00	313	10.0
9-Oct-20	3,402	1,023	0	0	0.00	265	10.0
10-Oct-20	2,898	1,155	0	0	0.00	340	10.0
11-Oct-20	1,606	1,698	0	0	0.00	290	10.0
12-Oct-20	21,662	4,572	0	0	0.00	160	10.0
13-Oct-20	15,645	5,229	16,606	0	0.77	2,166	10.0
14-Oct-20	41,954	8,520	14,878	0	0.95	1,517	9.7
15-Oct-20	69,585	15,084	16,373	1,623	0.43	4,166	9.9
16-Oct-20	67,081	12,865	0	0	0.00	6,240	9.0
17-Oct-20	57,092	12,032	22,955	0	0.34	6,702	10.0
18-Oct-20	58,048	10,463	22,188	11,535	0.59	5,729	10.0
19-Oct-20	61,984	10,093	23,549	10,374	0.58	5,805	10.0
20-Oct-20	58,525	10,587	24,167	9,683	0.55	6,201	10.0
21-Oct-20	54,323	10,513	24,107	10,313	0.59	5,953	10.2
22-Oct-20	51,517	9,688	24,068	10,044	0.63	5,431	10.0
23-Oct-20	48,120	8,468	24,004	9,395	0.65	5,150	10.0
24-Oct-20	45,492	7,581	23,925	8,280	0.67	4,811	10.0
25-Oct-20	41,970	8,661	23,870	7,682	0.69	4,549	10.0
26-Oct-20	39,379	8,139	23,868	8,606	0.77	4,199	10.0
27-Oct-20	37,427	9,007	23,848	8,118	0.81	3,937	10.0
28-Oct-20	39,330	8,659	22,436	8,887	0.84	3,743	10.0
29-Oct-20	46,923	8,727	23,642	8,473	0.82	3,931	10.0
30-Oct-20	43,420	9,906	24,938	8,476	0.71	4,692	10.0
31-Oct-20	35,450	10,907	24,511	9,820	0.79	4,342	10.0

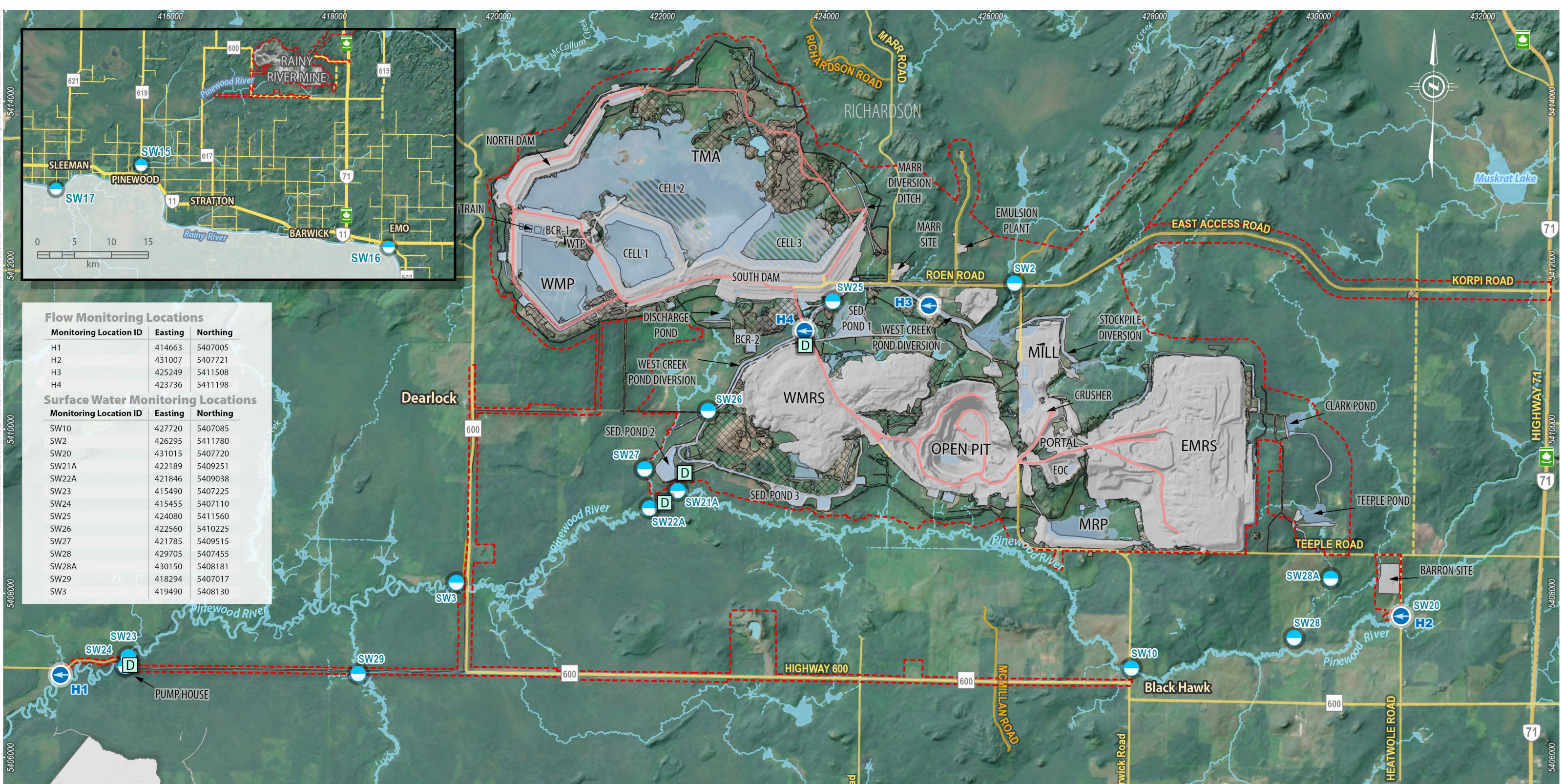
*Previous 24-hr flow used to determine daily discharge volume

Table 23: Expected SW24 Total Copper Results at 1:1 Dilution

Pinewood River Total Copper Concentration (mg/L)	EDL1 Total Copper Concentration (mg/L)										
	0.01	0.011	0.012	0.013	0.014	0.015	0.016	0.017	0.018	0.019	0.02
0.001	0.006	0.0065	0.007	0.0075	0.008	0.0085	0.009	0.0095	0.01	0.0105	0.011
0.0015	0.0065	0.007	0.0075	0.008	0.0085	0.009	0.0095	0.01	0.0105	0.011	0.0115
0.002	0.007	0.0075	0.008	0.0085	0.009	0.0095	0.01	0.0105	0.011	0.0115	0.012
0.0025	0.0075	0.008	0.0085	0.009	0.0095	0.01	0.0105	0.011	0.0115	0.012	0.0125
0.003	0.008	0.0085	0.009	0.0095	0.01	0.0105	0.011	0.0115	0.012	0.0125	0.013
0.0035	0.0085	0.009	0.0095	0.01	0.0105	0.011	0.0115	0.012	0.0125	0.013	0.0135
0.004	0.009	0.0095	0.01	0.0105	0.011	0.0115	0.012	0.0125	0.013	0.0135	0.014
0.0045	0.0095	0.01	0.0105	0.011	0.0115	0.012	0.0125	0.013	0.0135	0.014	0.0145
0.005	0.01	0.0105	0.011	0.0115	0.012	0.0125	0.013	0.0135	0.014	0.0145	0.015
0.0055	0.0105	0.011	0.0115	0.012	0.0125	0.013	0.0135	0.014	0.0145	0.015	0.0155
0.006	0.011	0.0115	0.012	0.0125	0.013	0.0135	0.014	0.0145	0.015	0.0155	0.016
0.0065	0.0115	0.012	0.0125	0.013	0.0135	0.014	0.0145	0.015	0.0155	0.016	0.0165

Table 24: Expected SW24 Total Copper Results at 1:0.5 Dilution

Pinewood River Total Copper Concentration (mg/L)	EDL1 Total Copper Concentration (mg/L)										
	0.01	0.011	0.012	0.013	0.014	0.015	0.016	0.017	0.018	0.019	0.02
0.001	0.0035	0.00375	0.004	0.00425	0.0045	0.00475	0.005	0.00525	0.0055	0.00575	0.006
0.0015	0.004	0.00425	0.0045	0.00475	0.005	0.00525	0.0055	0.00575	0.006	0.00625	0.0065
0.002	0.0045	0.00475	0.005	0.00525	0.0055	0.00575	0.006	0.00625	0.0065	0.00675	0.007
0.0025	0.005	0.00525	0.0055	0.00575	0.006	0.00625	0.0065	0.00675	0.007	0.00725	0.0075
0.003	0.0055	0.00575	0.006	0.00625	0.0065	0.00675	0.007	0.00725	0.0075	0.00775	0.008
0.0035	0.006	0.00625	0.0065	0.00675	0.007	0.00725	0.0075	0.00775	0.008	0.00825	0.0085
0.004	0.0065	0.00675	0.007	0.00725	0.0075	0.00775	0.008	0.00825	0.0085	0.00875	0.009
0.0045	0.007	0.00725	0.0075	0.00775	0.008	0.00825	0.0085	0.00875	0.009	0.00925	0.0095
0.005	0.0075	0.00775	0.008	0.00825	0.0085	0.00875	0.009	0.00925	0.0095	0.00975	0.01
0.0055	0.008	0.00825	0.0085	0.00875	0.009	0.00925	0.0095	0.00975	0.01	0.01025	0.0105
0.006	0.0085	0.00875	0.009	0.00925	0.0095	0.00975	0.01	0.01025	0.0105	0.01075	0.011
0.0065	0.009	0.00925	0.0095	0.00975	0.01	0.01025	0.0105	0.01075	0.011	0.01125	0.0115



Flow Monitoring Locations

Monitoring Location ID	Easting	Northing
H1	414663	5407005
H2	431007	5407721
H3	425249	5411508
H4	423736	5411198

Surface Water Monitoring Locations

Monitoring Location ID	Easting	Northing
SW10	427720	5407085
SW2	426295	5411780
SW20	431015	5407720
SW21A	422189	5409251
SW22A	421846	5409038
SW23	415490	5407225
SW24	415455	5407110
SW25	424080	5411560
SW26	422560	5410225
SW27	421785	5409515
SW28	429705	5407455
SW28A	430150	5408181
SW29	418294	5407017
SW3	419490	5408130



- D WATER DISCHARGE MONITORING LOCATIONS
- ← FLOW MONITORING LOCATIONS
- SURFACE WATER QUALITY MONITORING LOCATIONS
- ESA PROJECT SITE BOUNDARY
- MINE FEATURE FOOTPRINT
- OTHER MINE ACTIVITY
- HIGHWAY
- LOCAL ROAD
- ARTERIAL ROAD
- MINE ACCESS ROAD
- MINE SERVICE ROAD
- RECREATION (RESOURCE) ROAD
- RIVER
- STREAM
- VIRTUAL FLOW
- NAMED MUNICIPAL DRAIN
- MINE WATERCOURSE
- MINE SEEPAGE, DRAINAGE
- WATERBODY
- MINE WATERBODY
- TMA SEDIMENT AREA

MECP-IFI-0060, MECP-IFI-0063

NOTE: All Surface Water Monitoring Locations area labelled but some locations may be overlapped by Flow Monitoring or Discharge Monitoring locations.

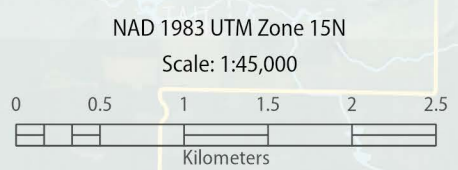


FIGURE 1
SITE LAYOUT, ECA DISCHARGE & SURFACE WATER MONITORING LOCATIONS

Figure 2a - Rainy River Mine, Field pH Levels in Pinewood River 2015-2020

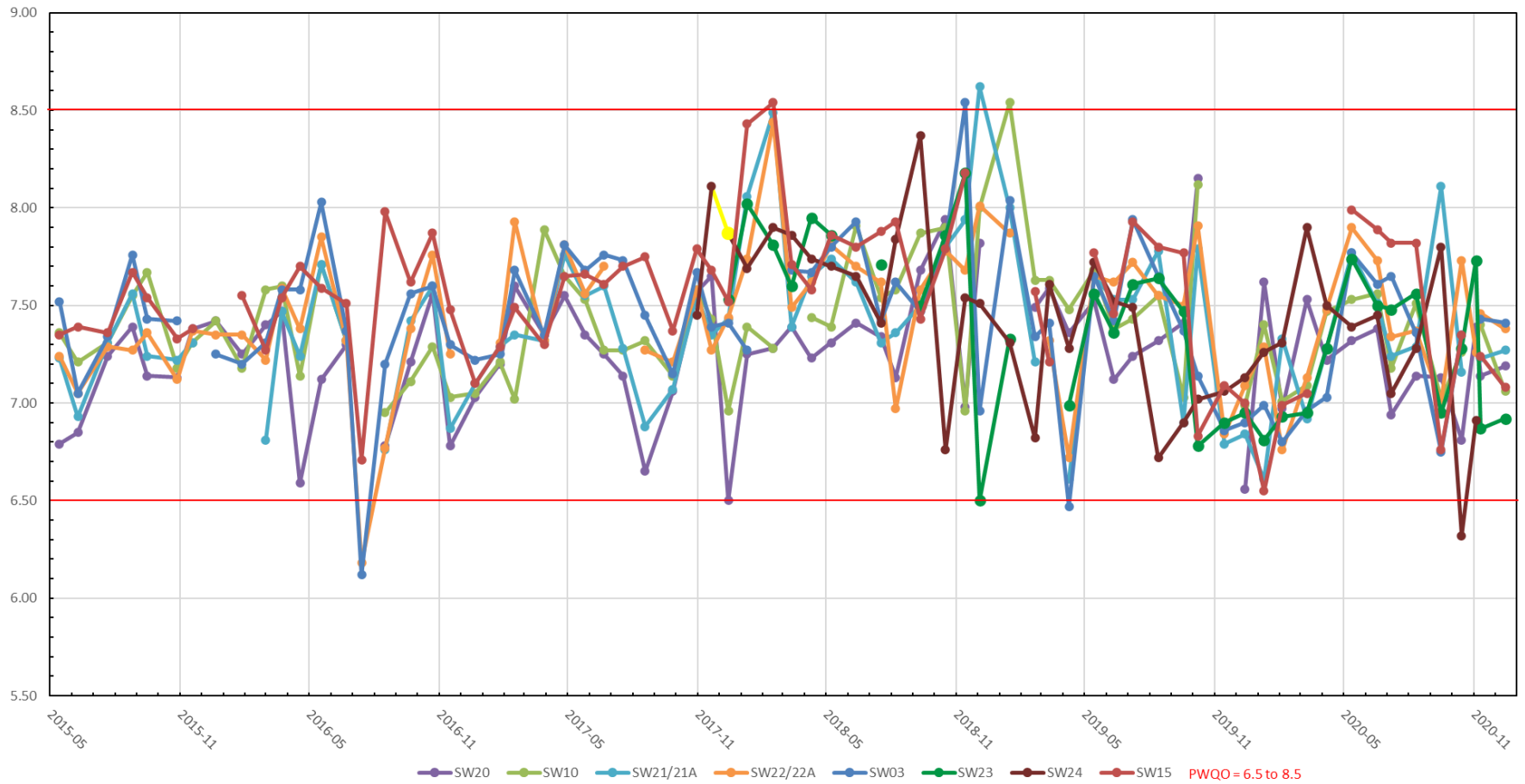


Figure 2b - Rainy River Mine, Field pH Levels in Pinewood River 2020

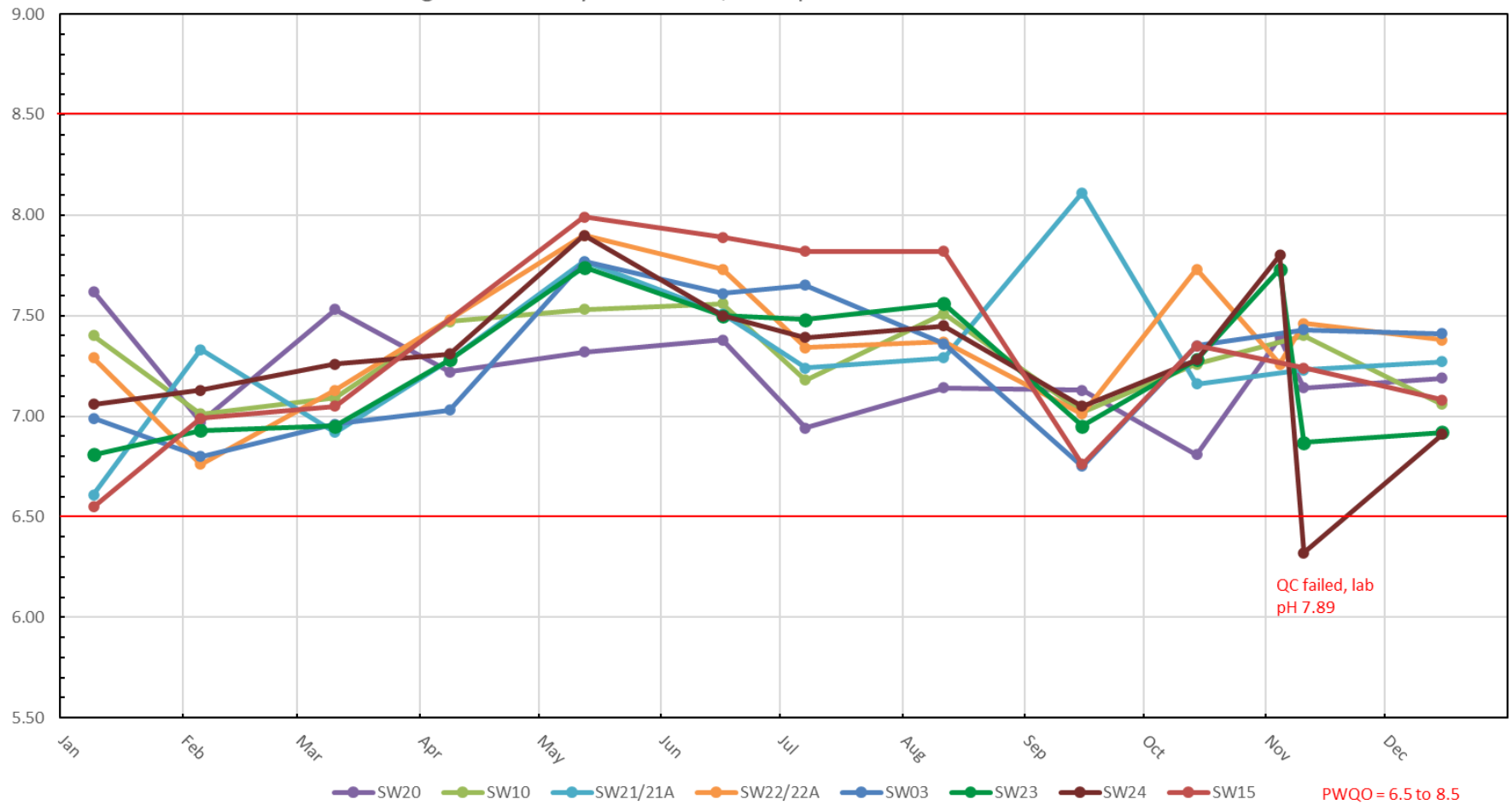


Figure 3a - Rainy River Mine, Total Suspended Solids Concentration in Pinewood River 2015-2020

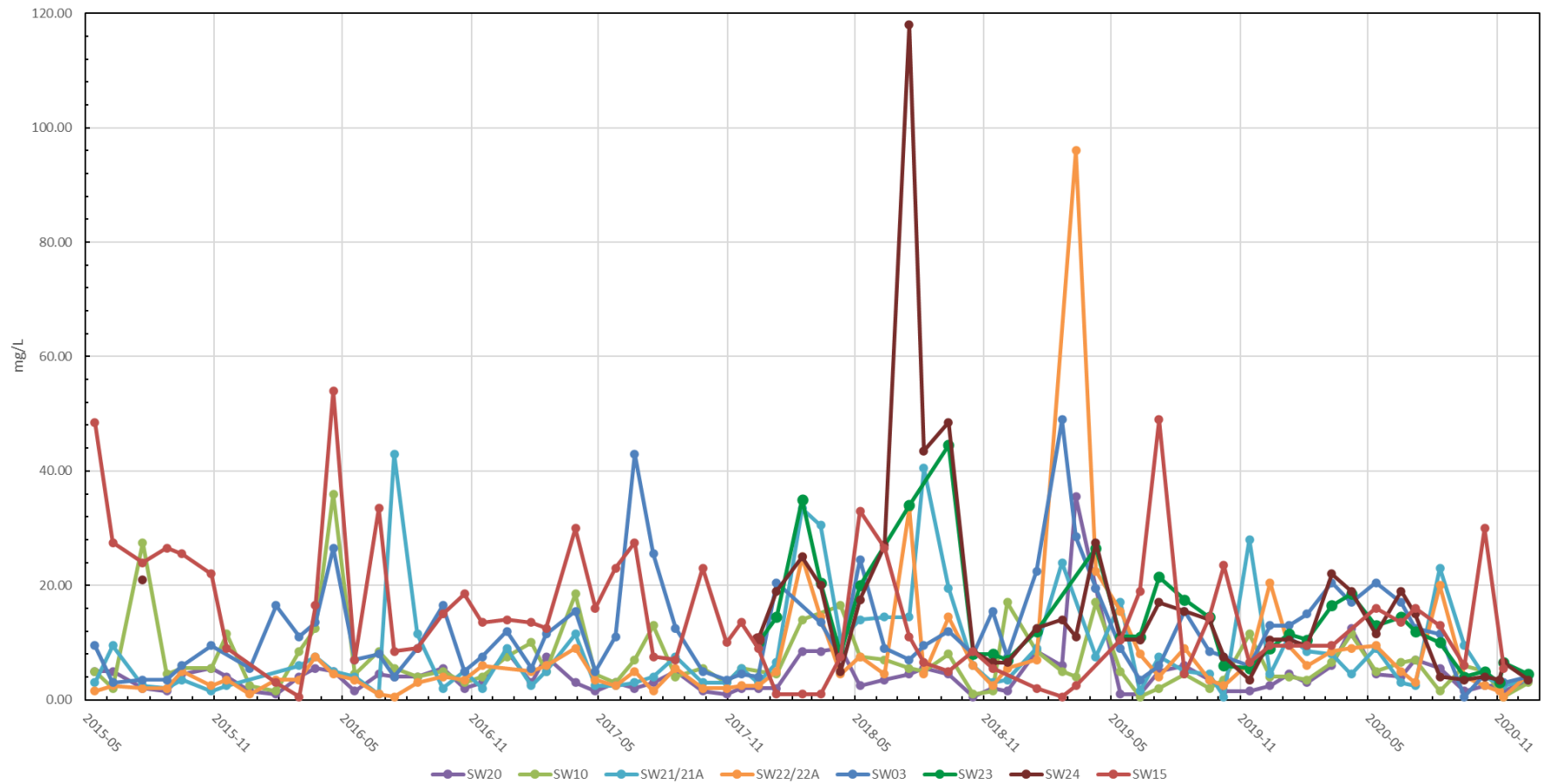


Figure 3b - Rainy River Mine, Total Suspended Solids Concentration in Pinewood River 2020

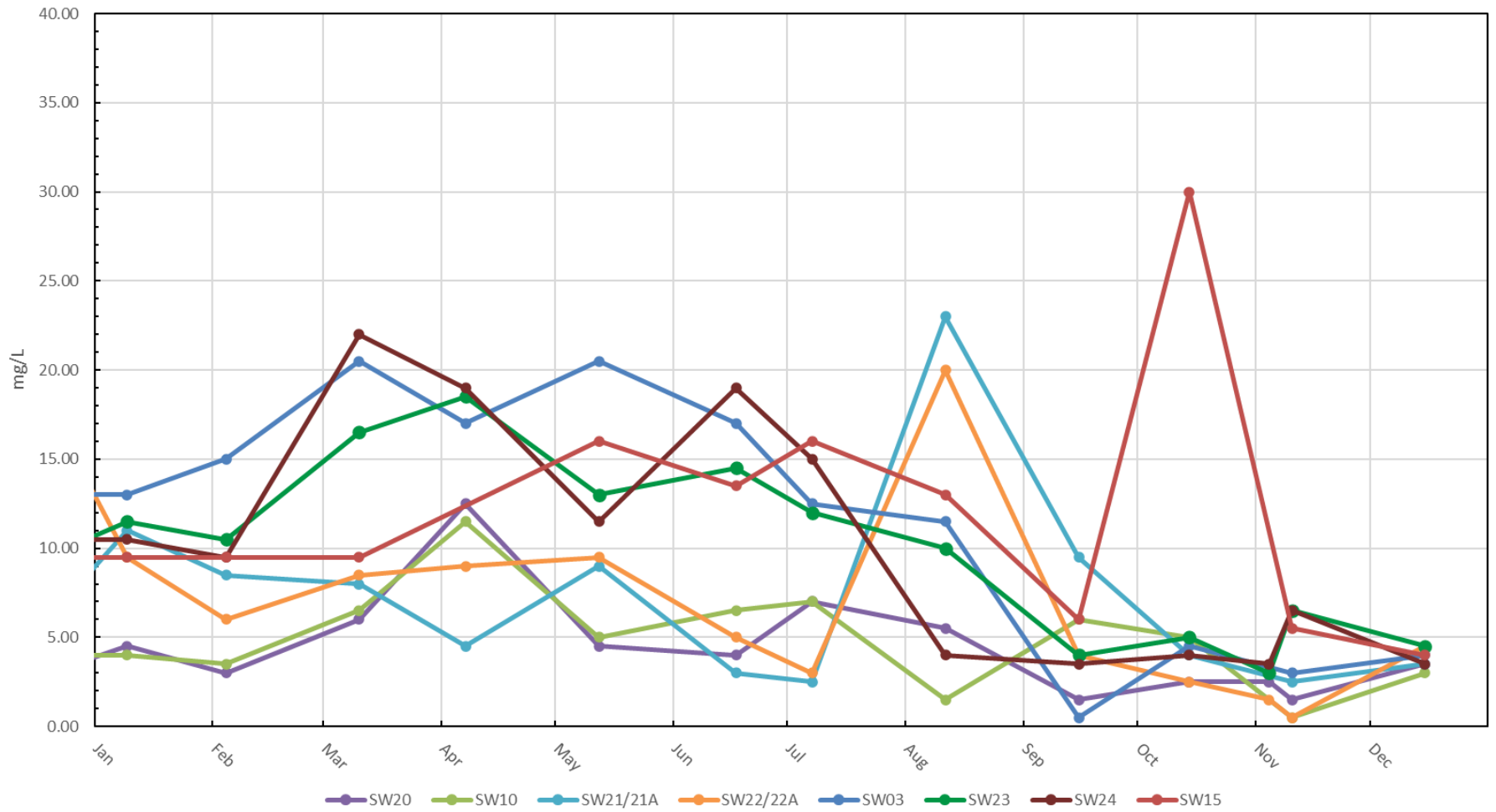


Figure 4a - Rainy River Mine, Total Arsenic in Pinewood River 2015-2020

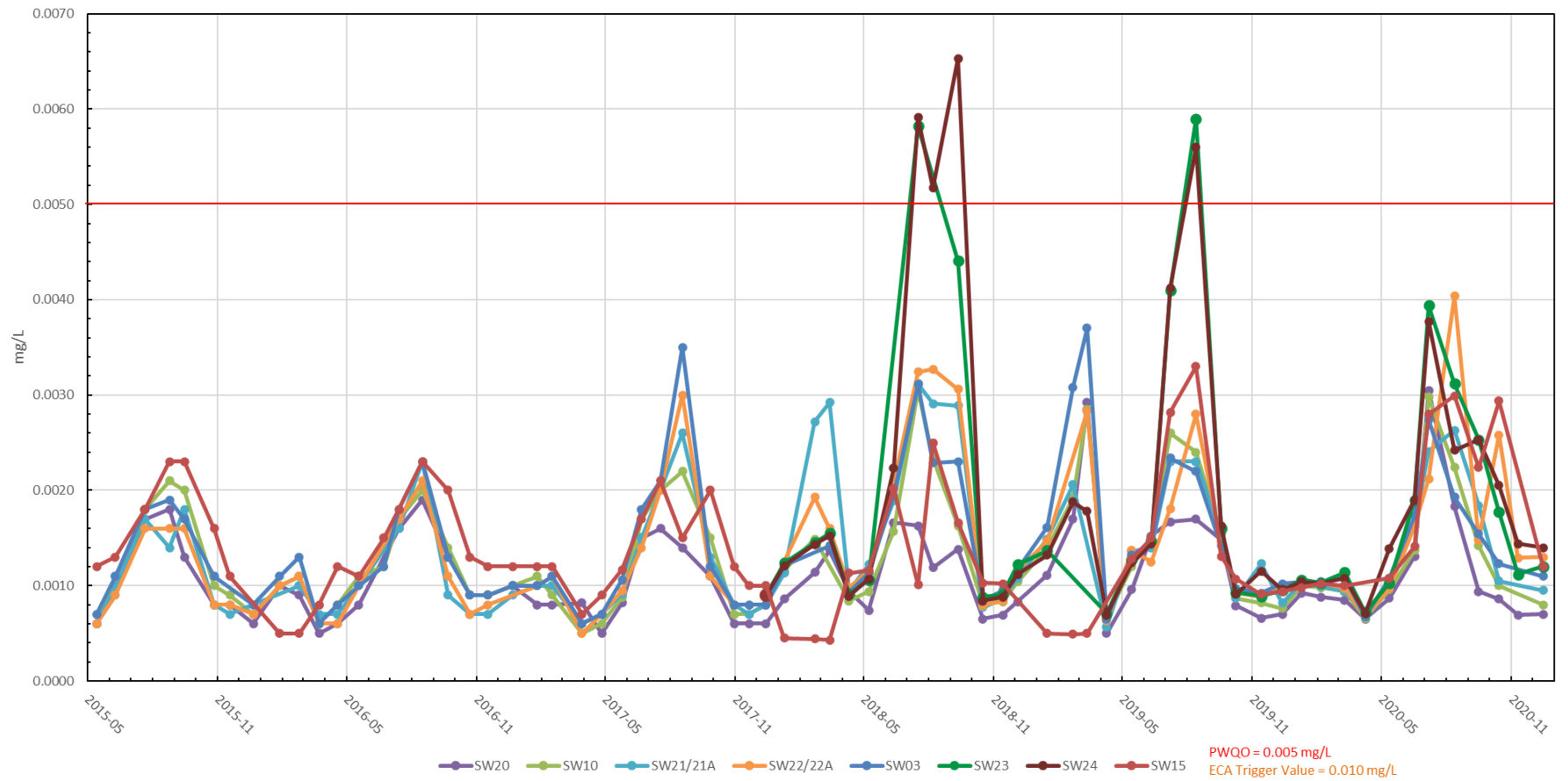


Figure 4b - Rainy River Mine, Total Arsenic in Pinewood River 2020

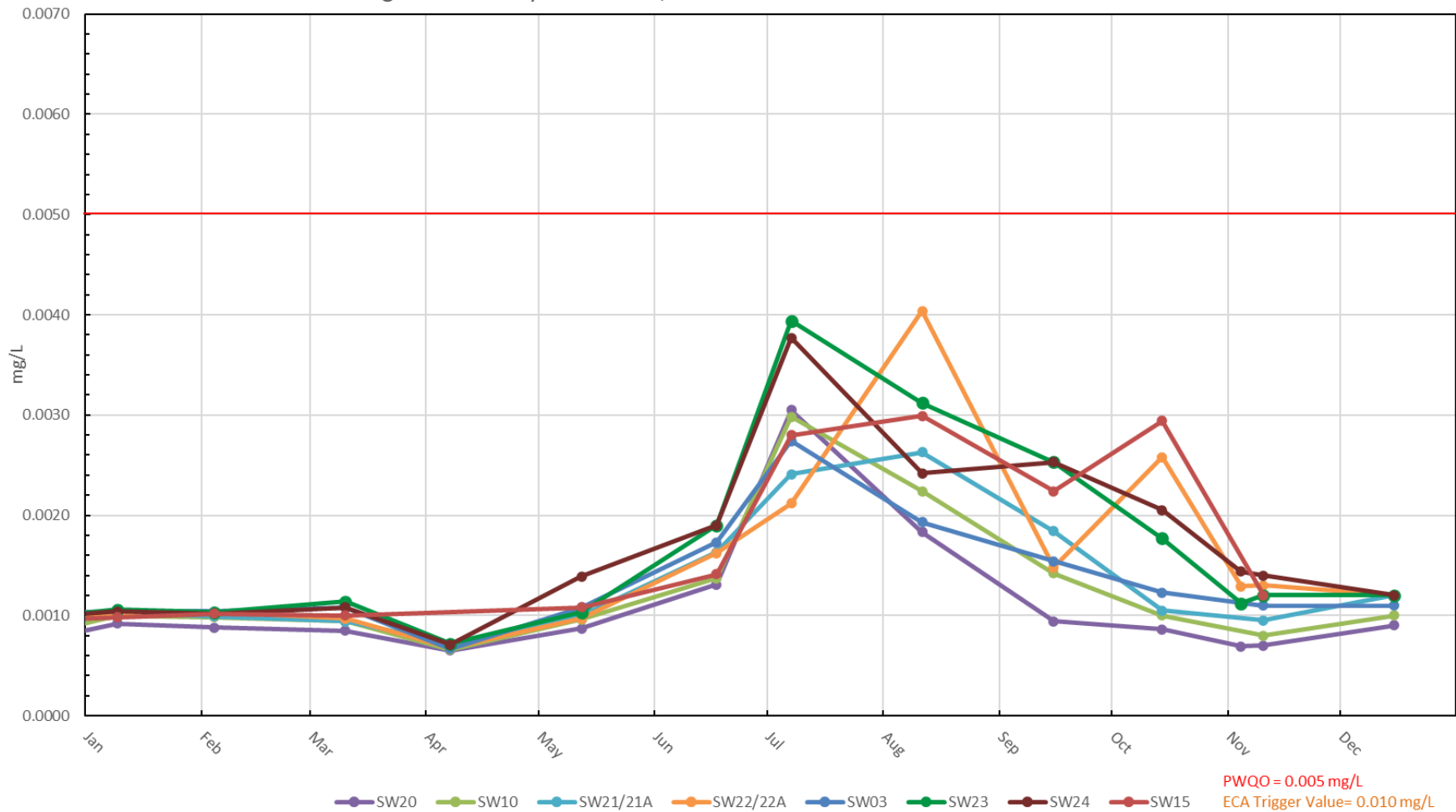


Figure 5a - Rainy River Mine, Total Copper in Pinewood River 2015-2020

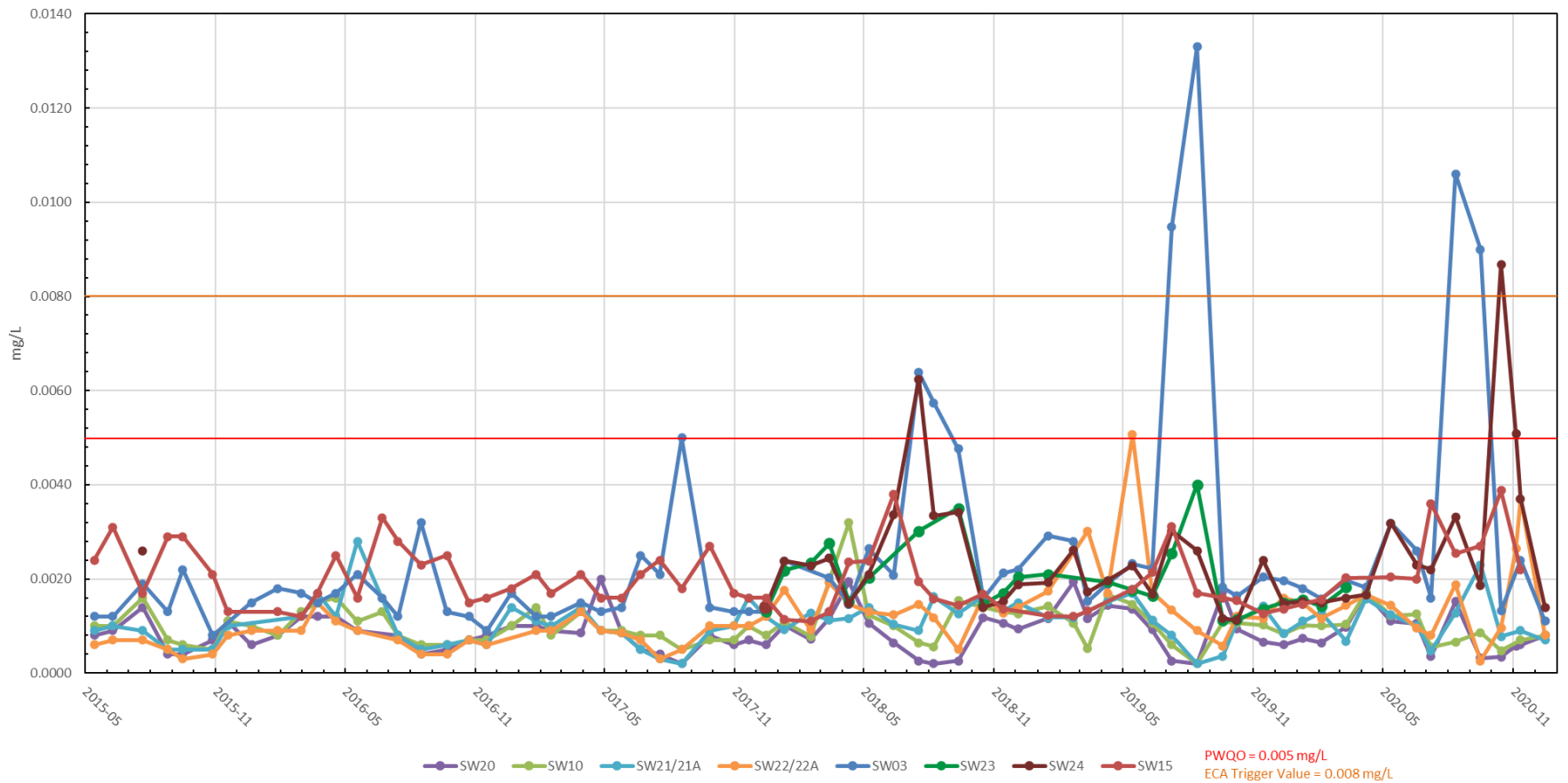


Figure 5b - Rainy River Mine, Total Copper in Pinewood River 2020

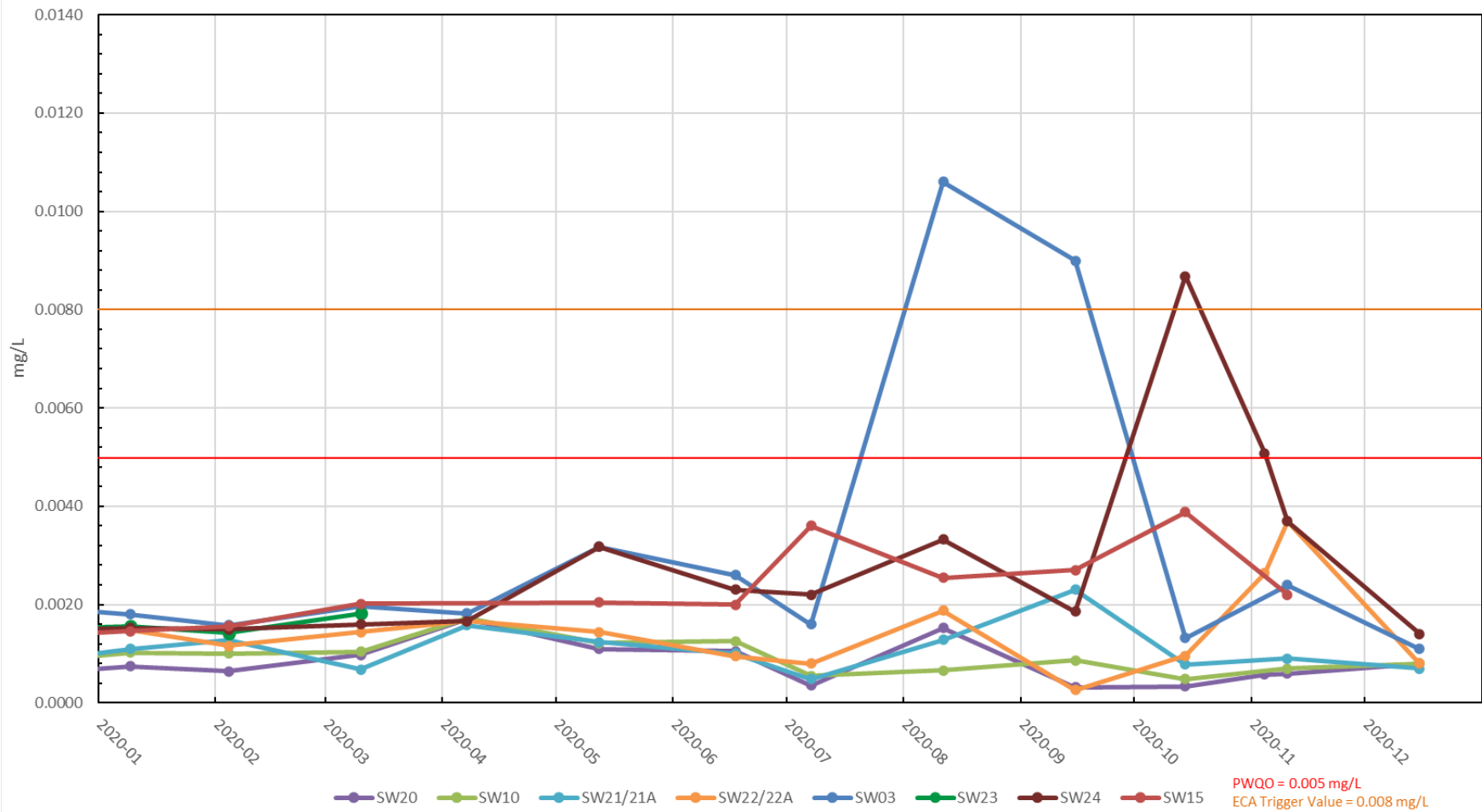


Figure 6a - Rainy River Mine, Total Lead in Pinewood River 2015-2020

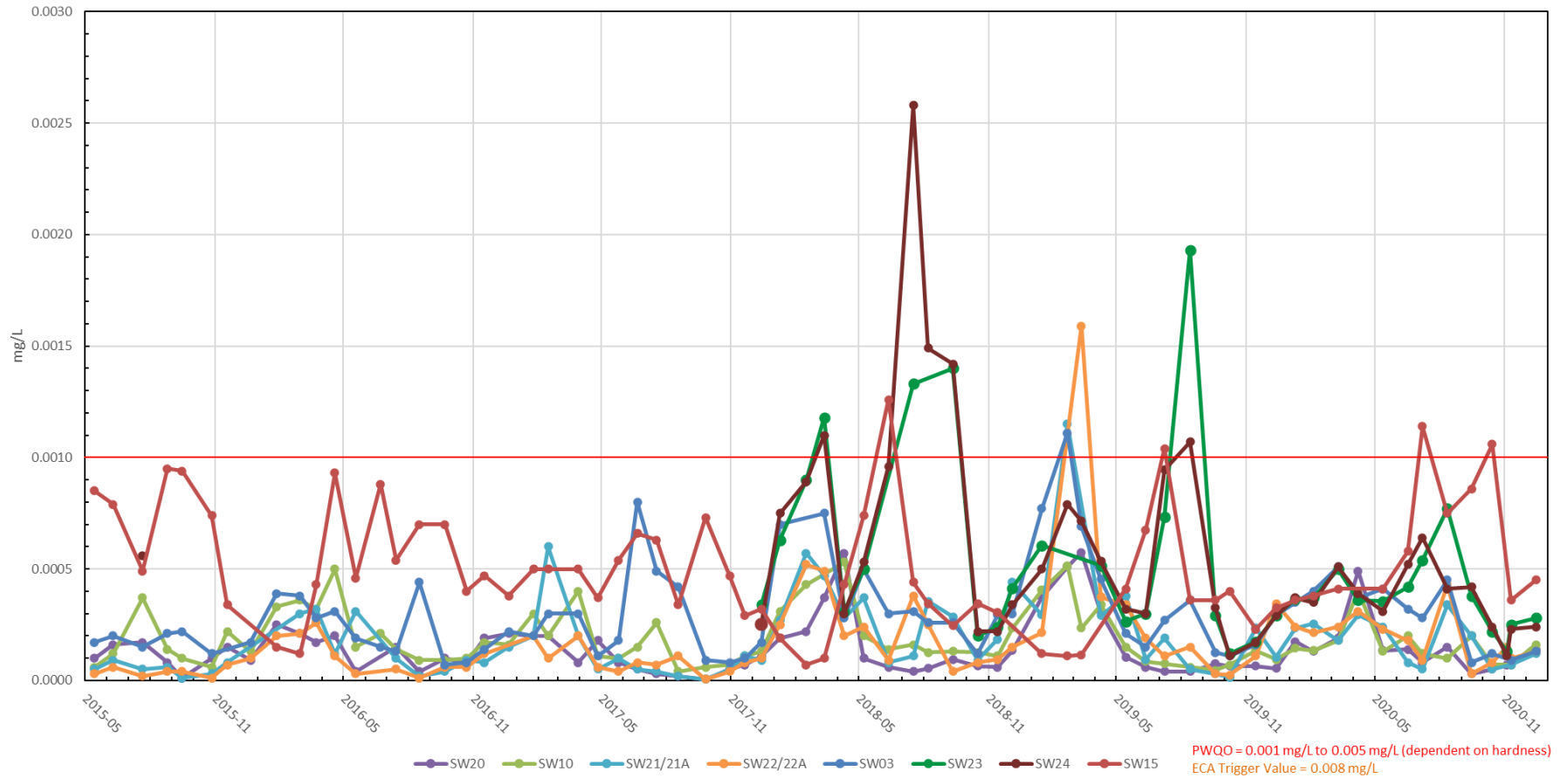


Figure 6b - Rainy River Mine, Total Lead in Pinewood River 2020

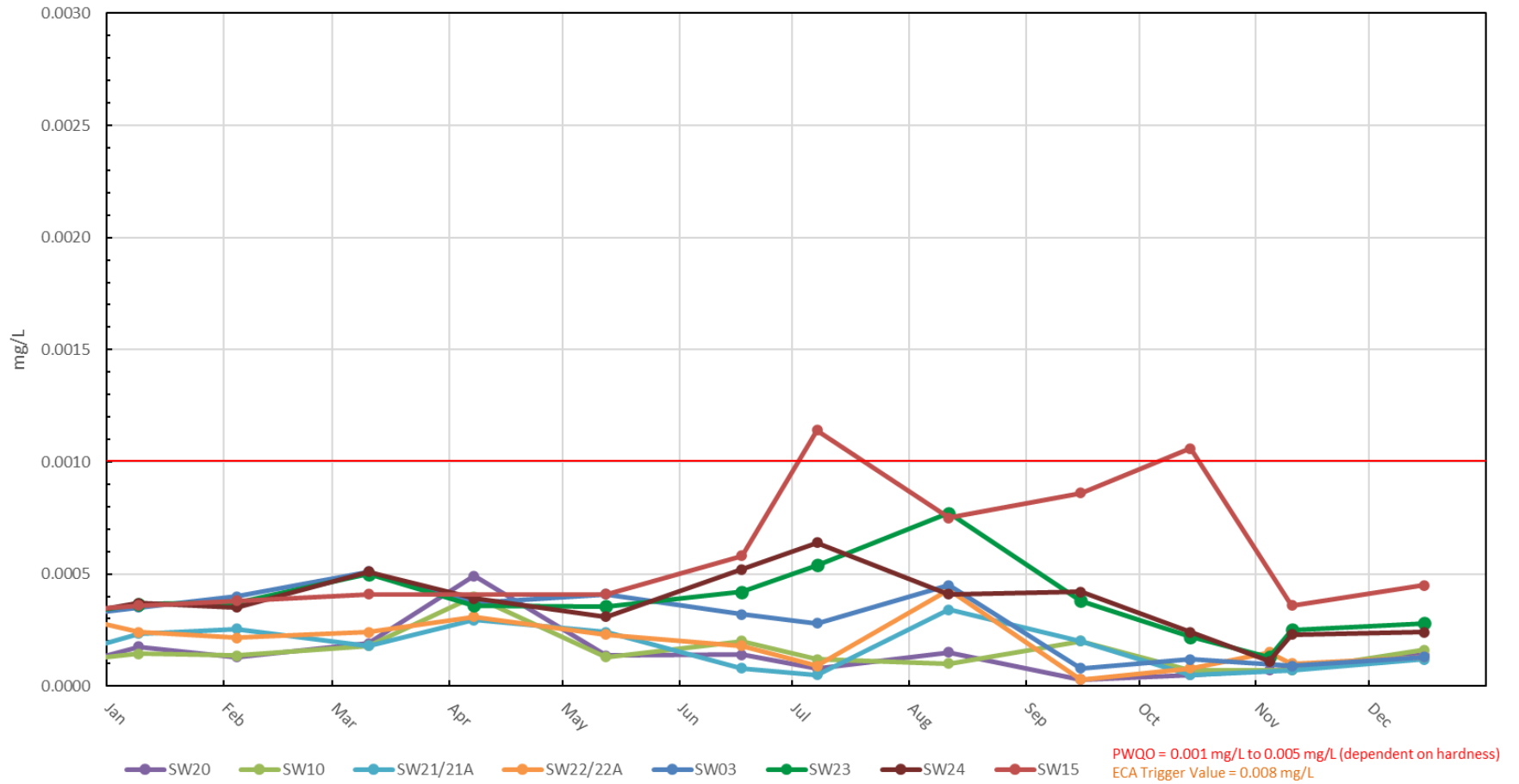


Figure 7a - Rainy River Mine, Total Nickel in Pinewood River 2015-2020

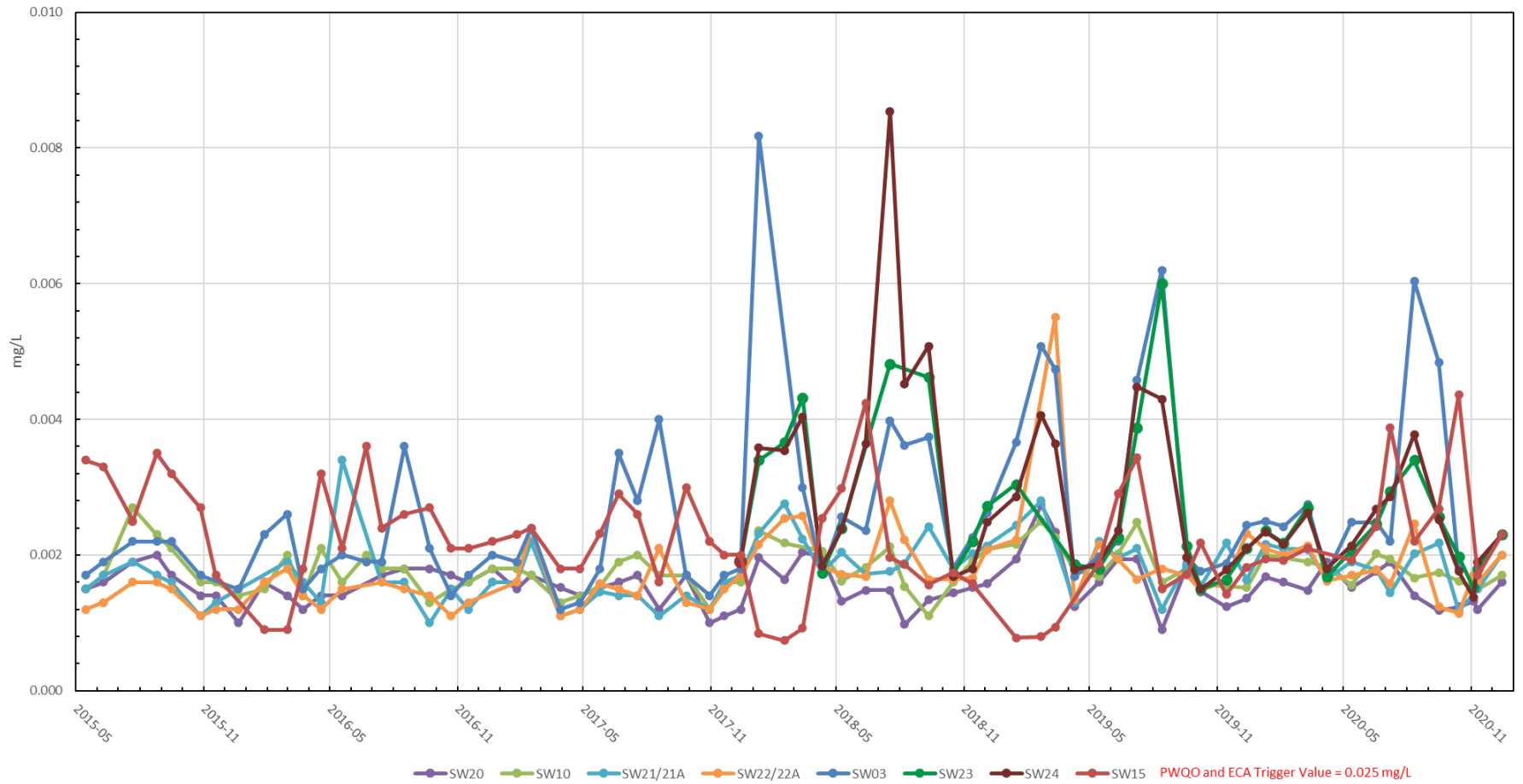


Figure 7b - Rainy River Mine, Total Nickel in Pinewood River 2020

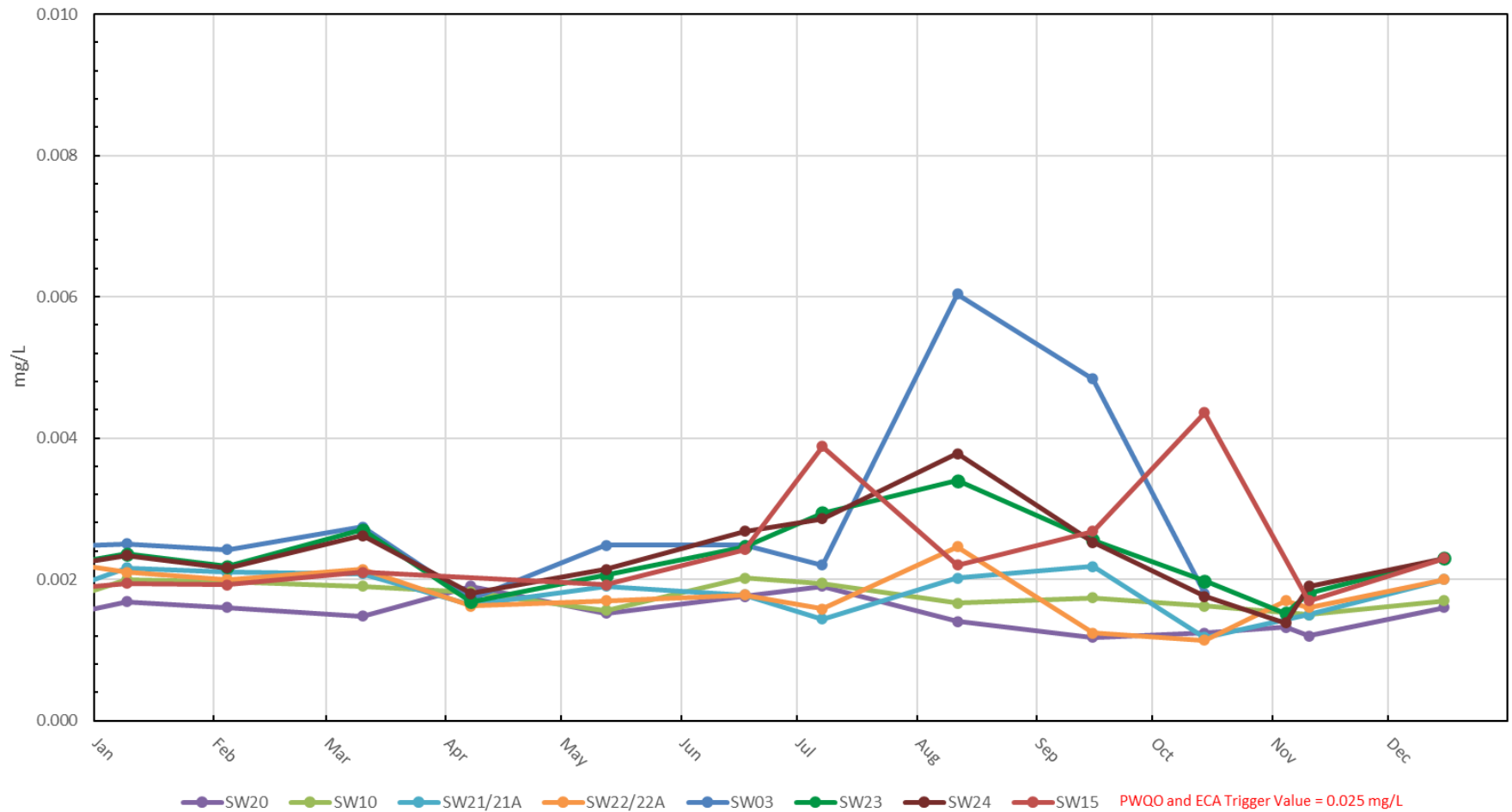


Figure 8a - Rainy River Mine, Total Phosphorus in Pinewood River 2017-2020

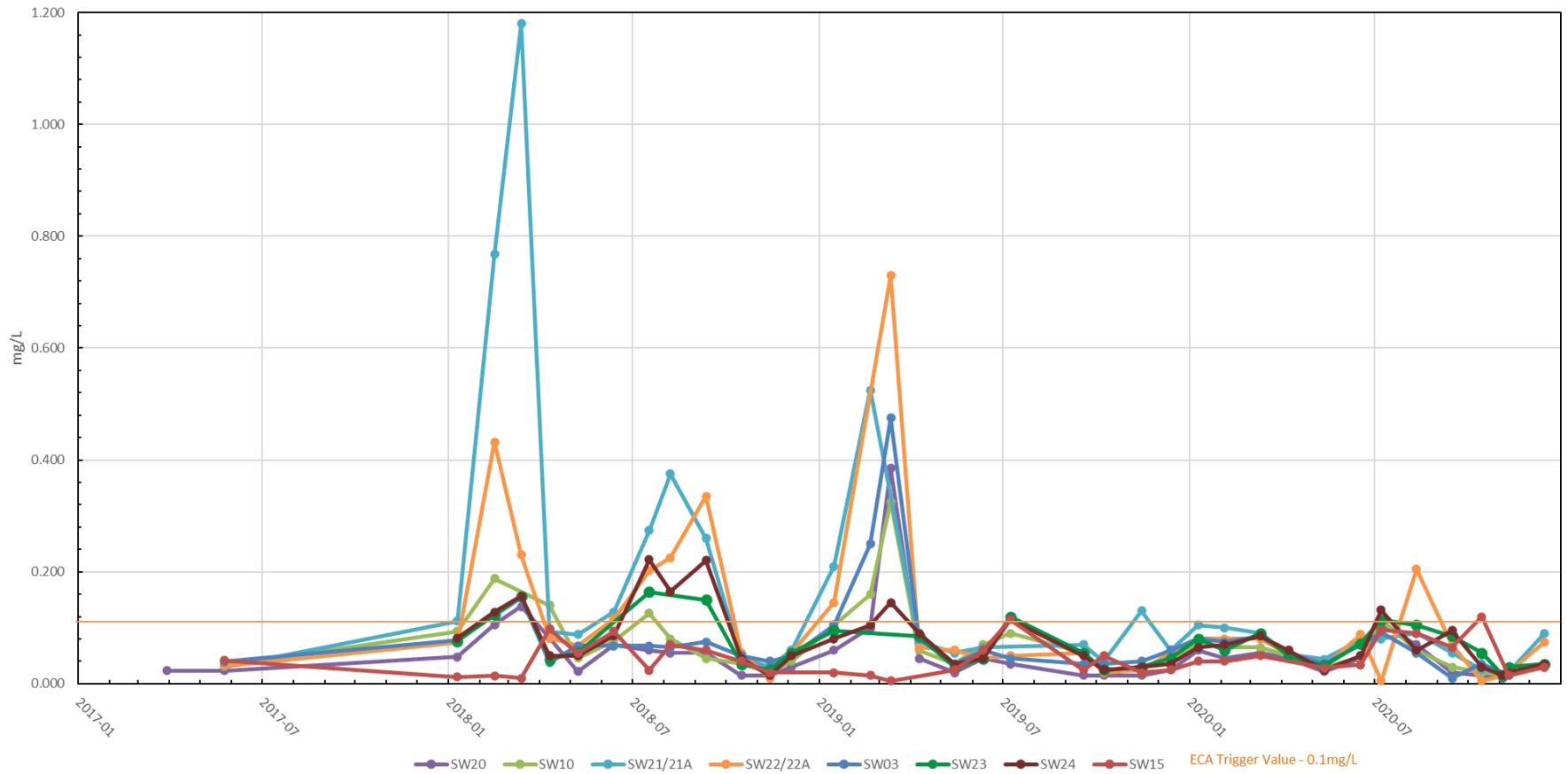


Figure 8b - Rainy River Mine, Total Phosphorus in Pinewood River 2020

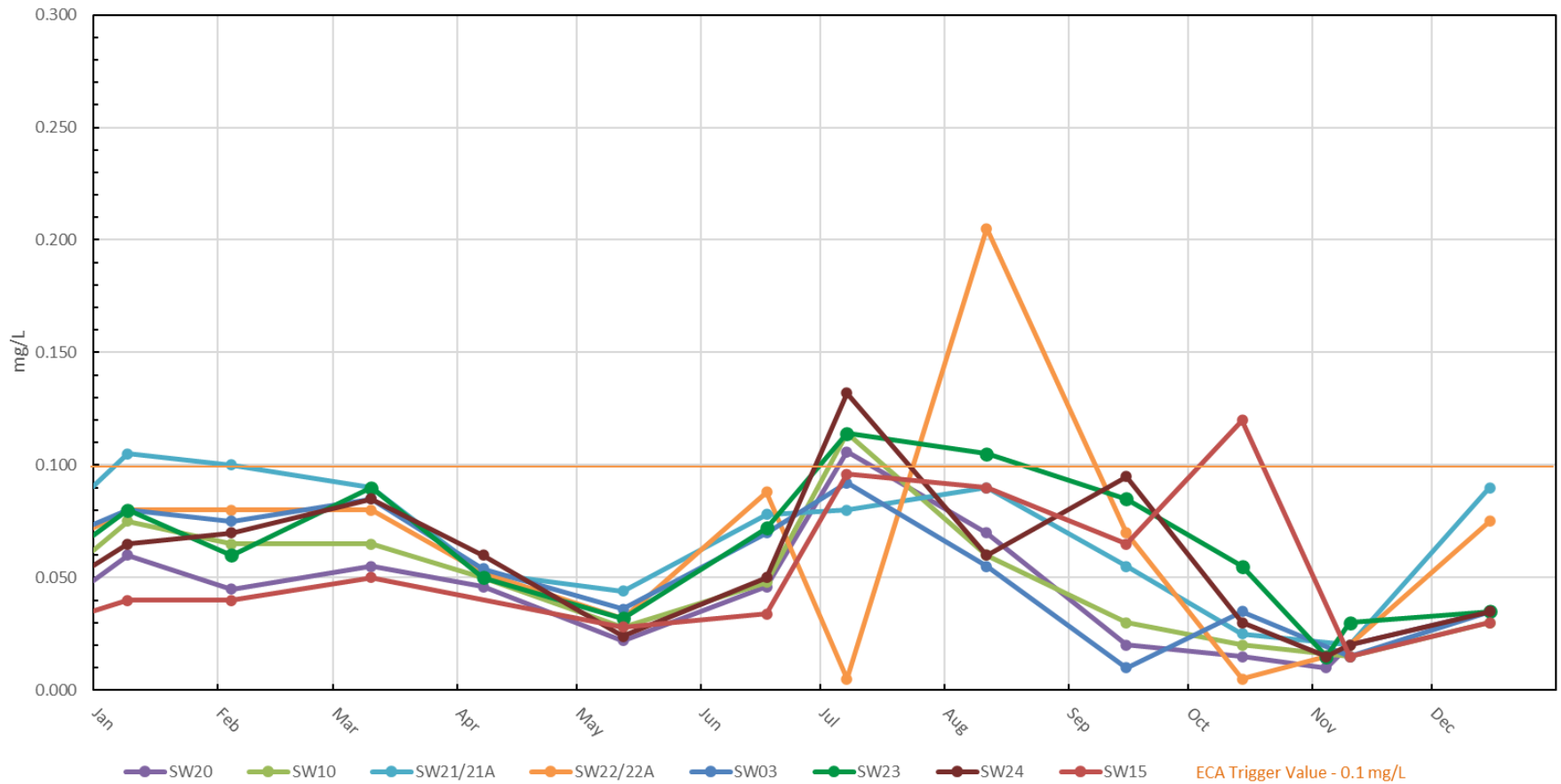


Figure 9a - Rainy River Mine, Total Zinc in Pinewood River 2015-2020

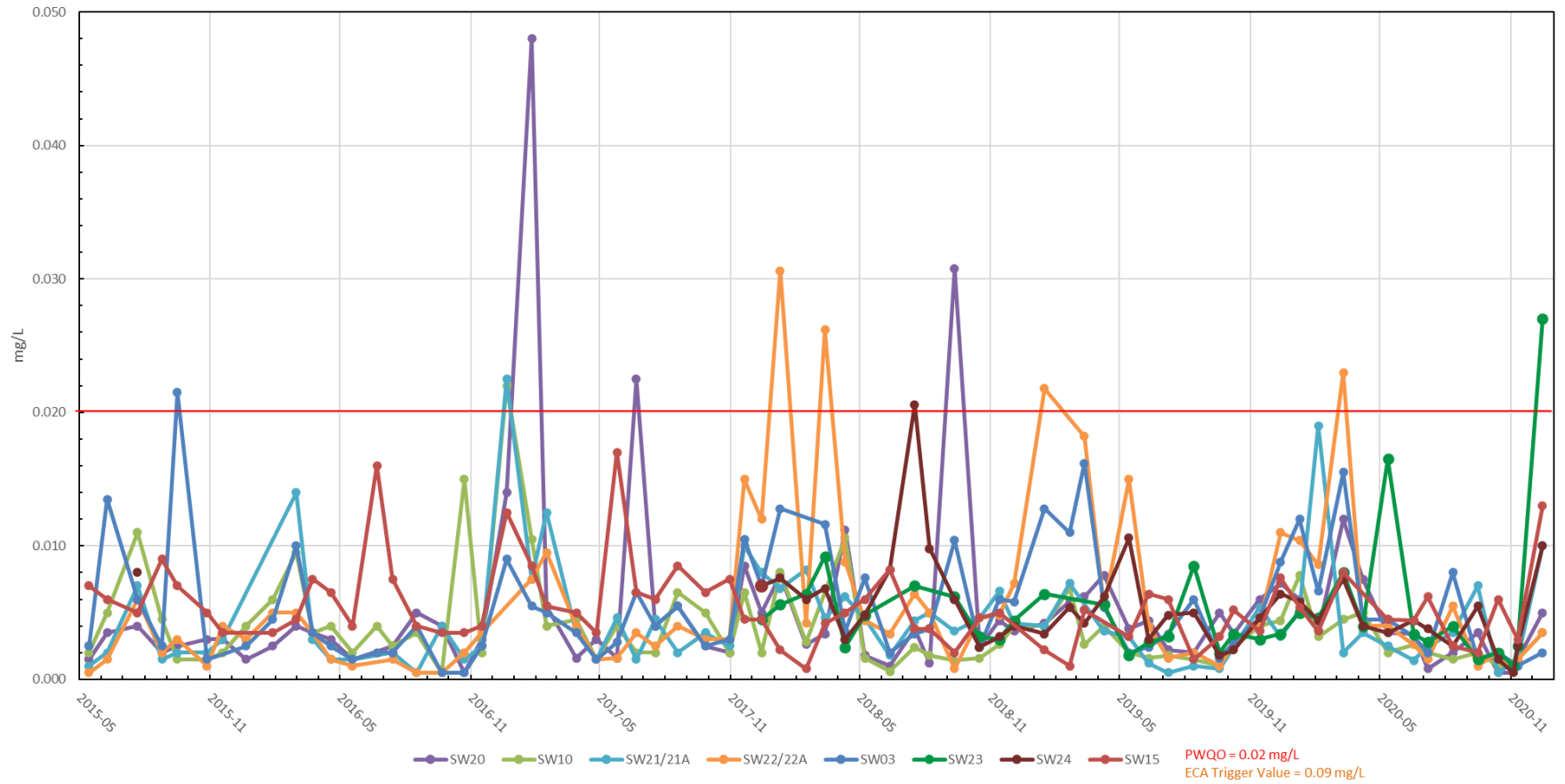


Figure 9b - Rainy River Mine, Total Zinc in Pinewood River 2020

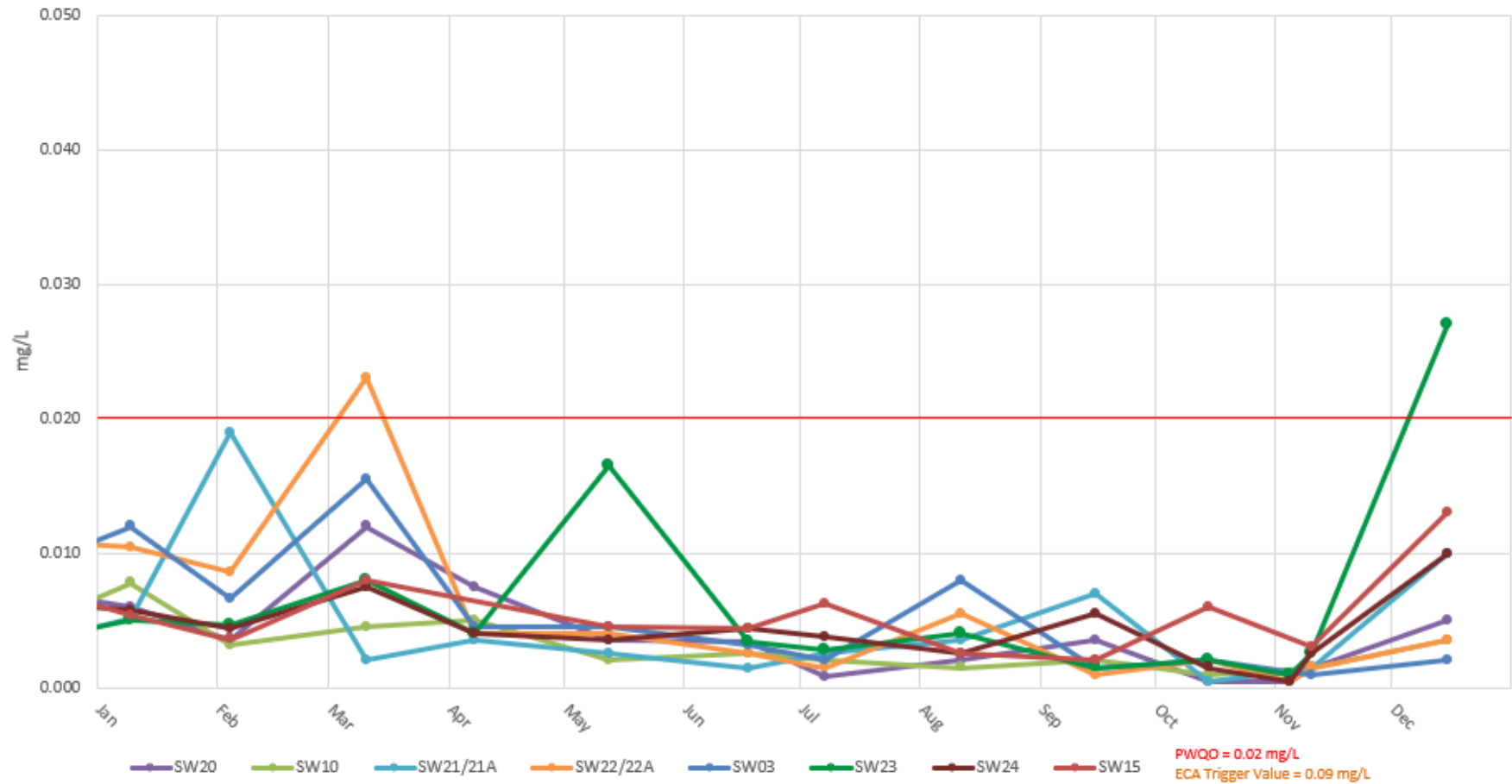


Figure 10a - Rainy River Mine, Total Mercury in Pinewood River 2015-2020

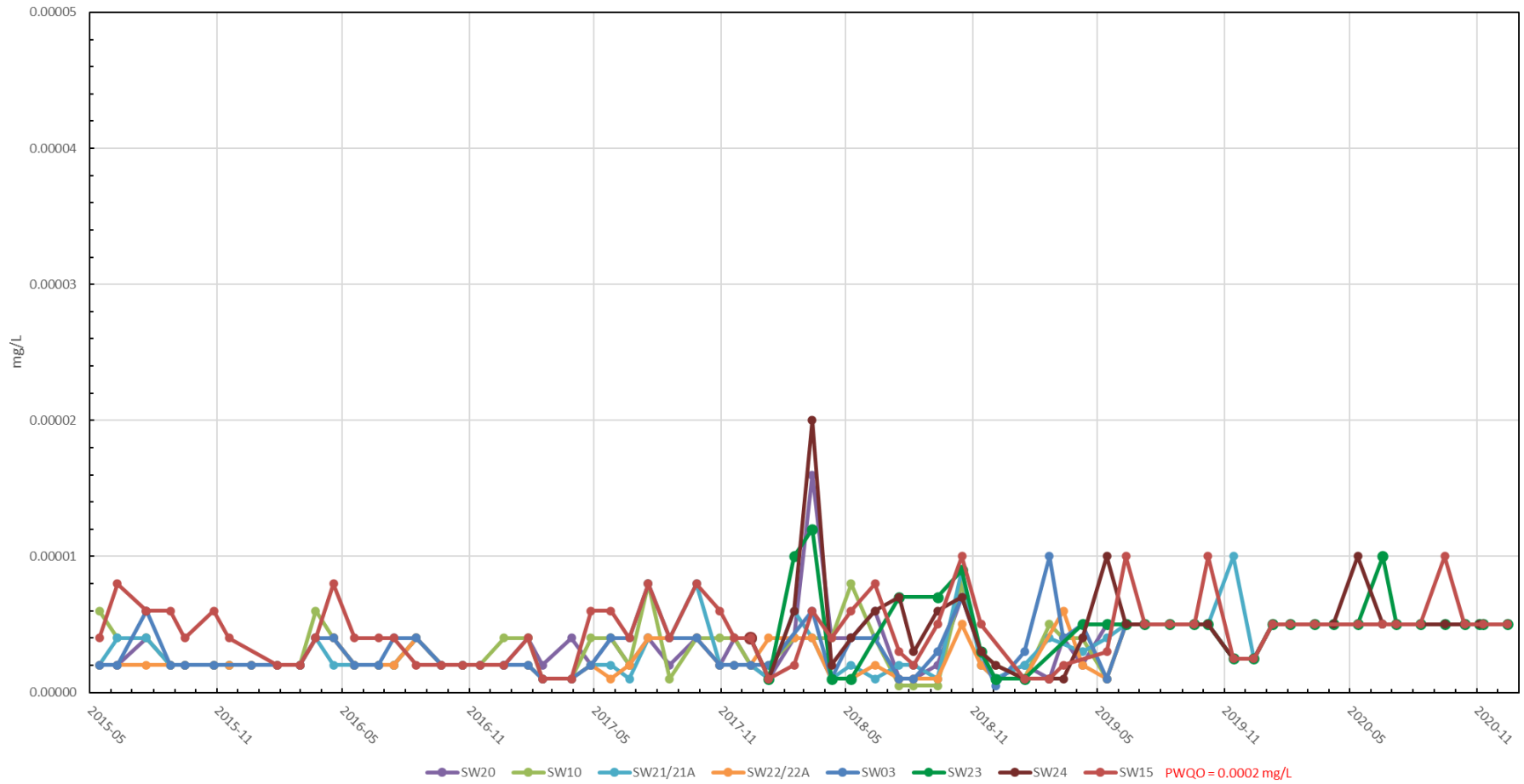


Figure 10b - Rainy River Mine, Total Mercury in Pinewood River 2020

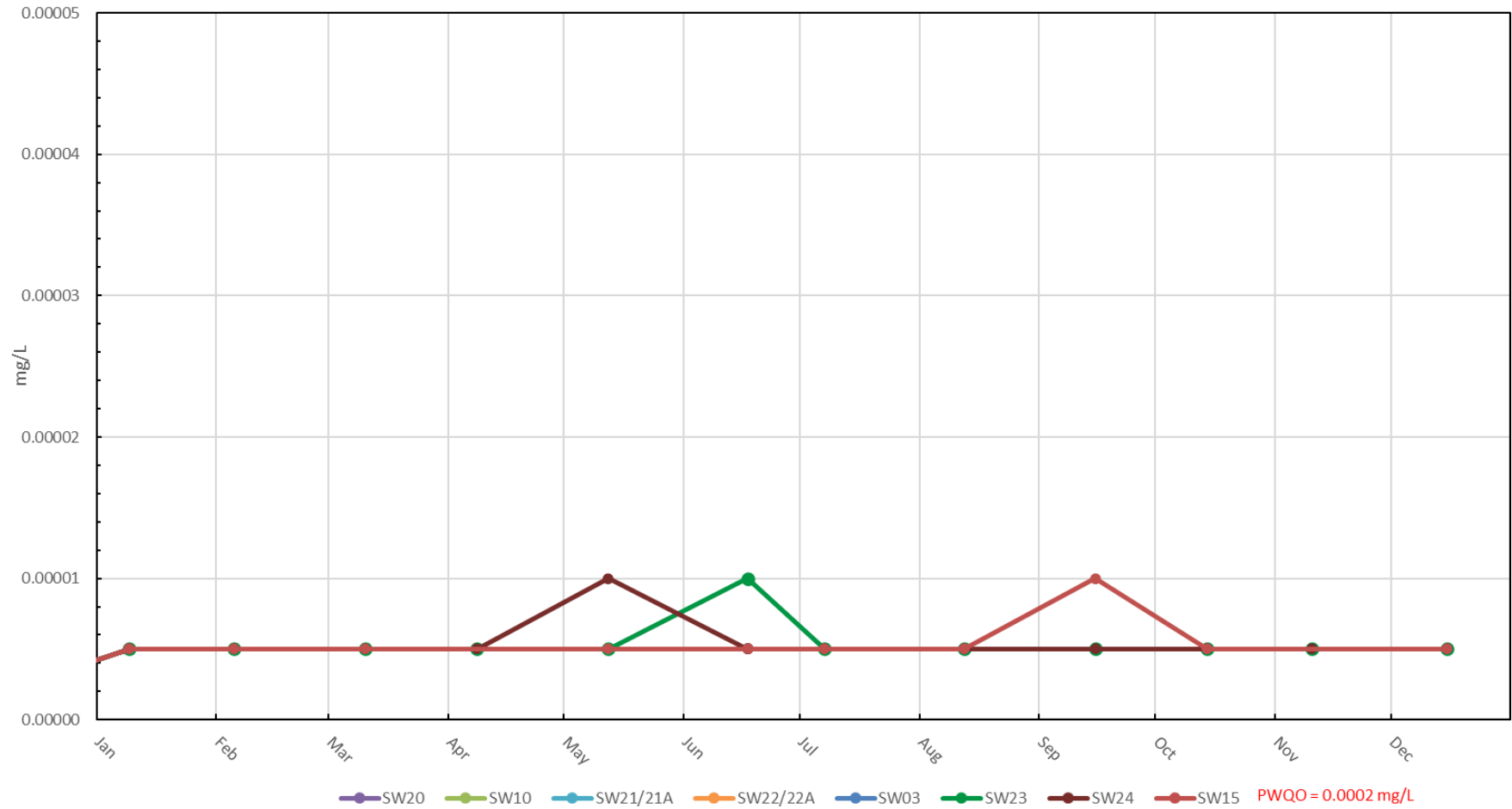


Figure 11a - Rainy River Mine, Un-ionized Ammonia in Pinewood River 2015-2020

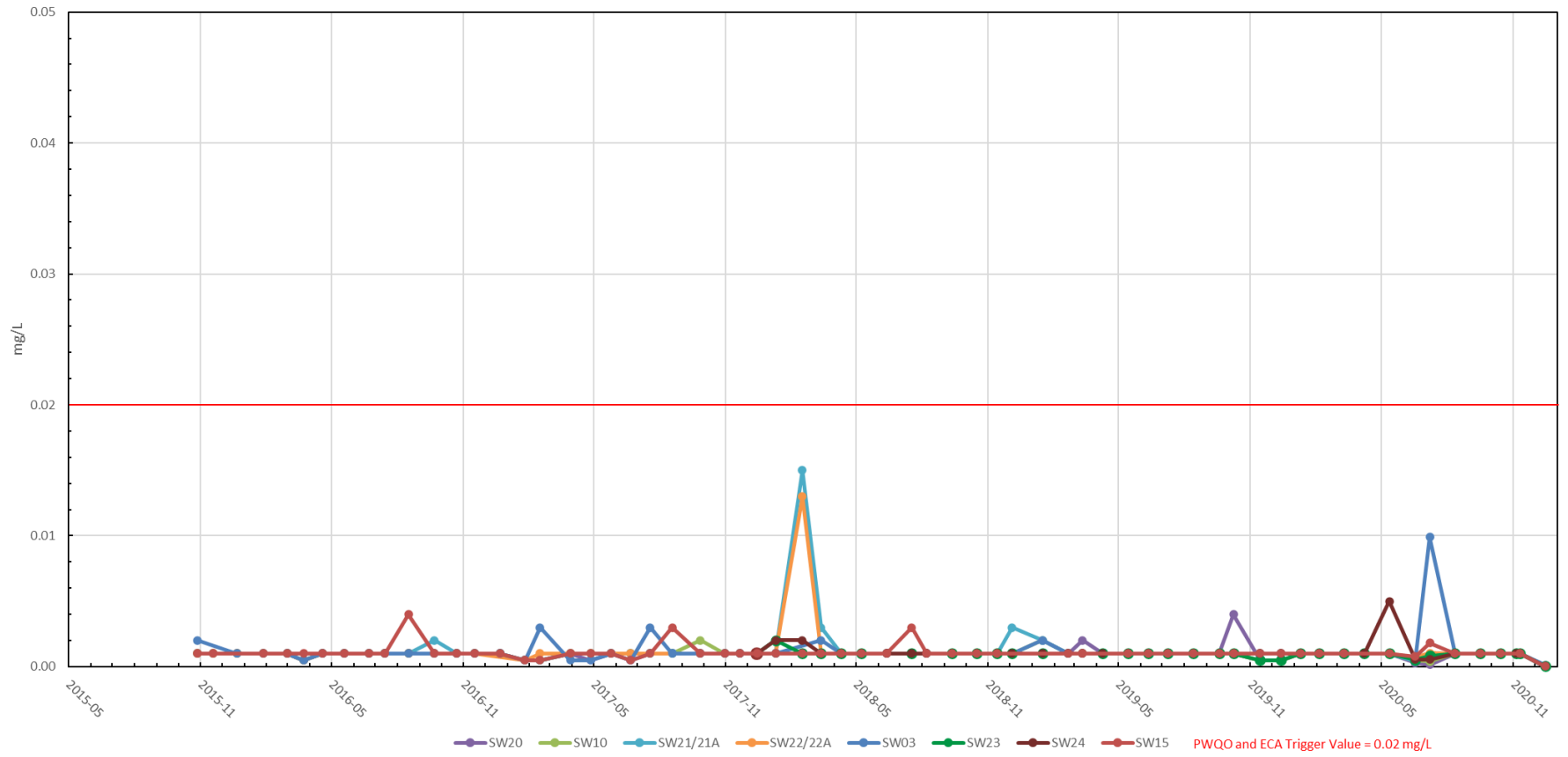


Figure 11b - Rainy River Mine, Un-ionized Ammonia in Pinewood River 2020

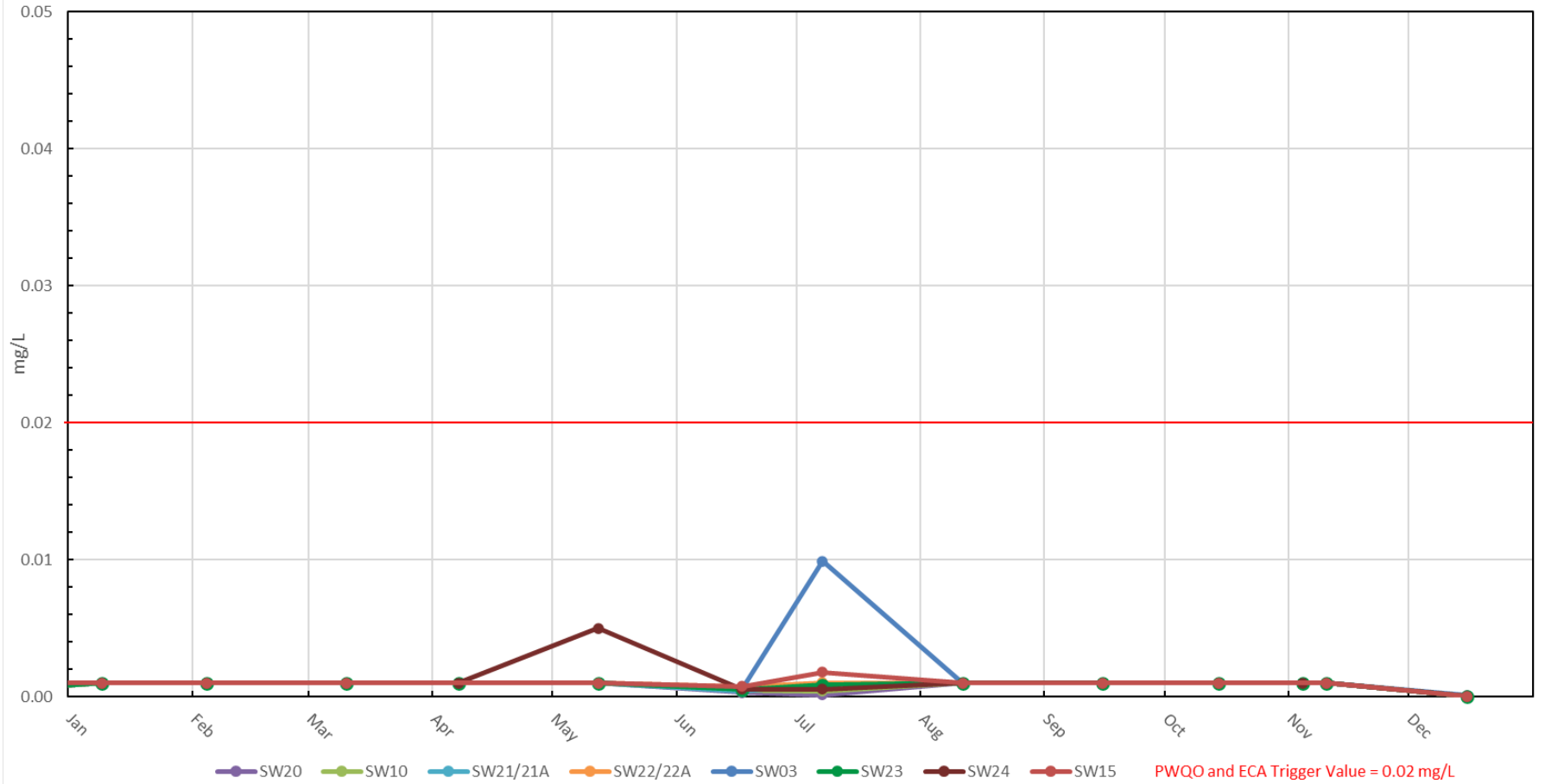


Figure 12a - Rainy River Mine, Free Cyanide in Pinewood River 2018-2020

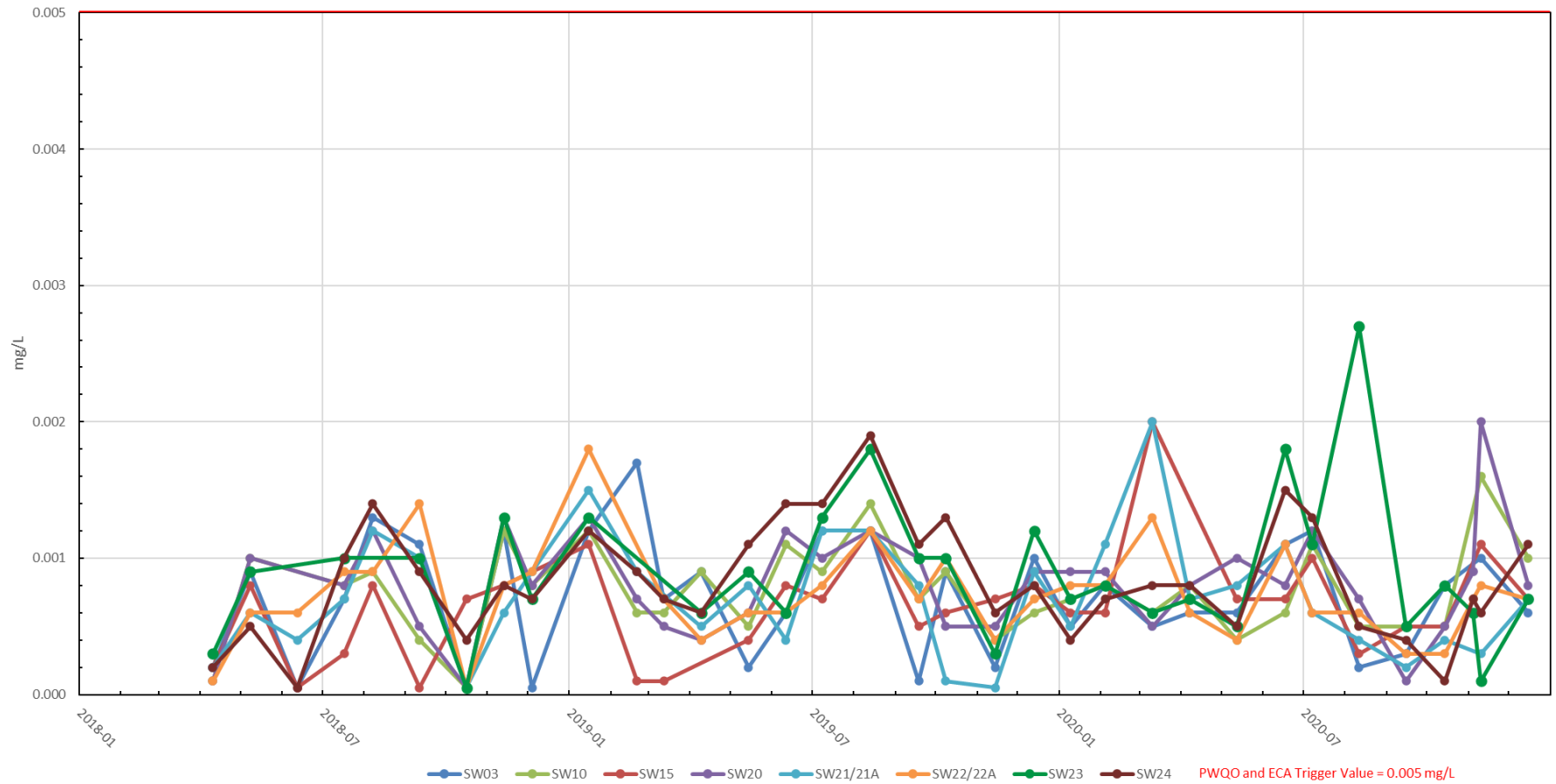


Figure 12b - Rainy River Mine, Free Cyanide in Pinewood River 2020

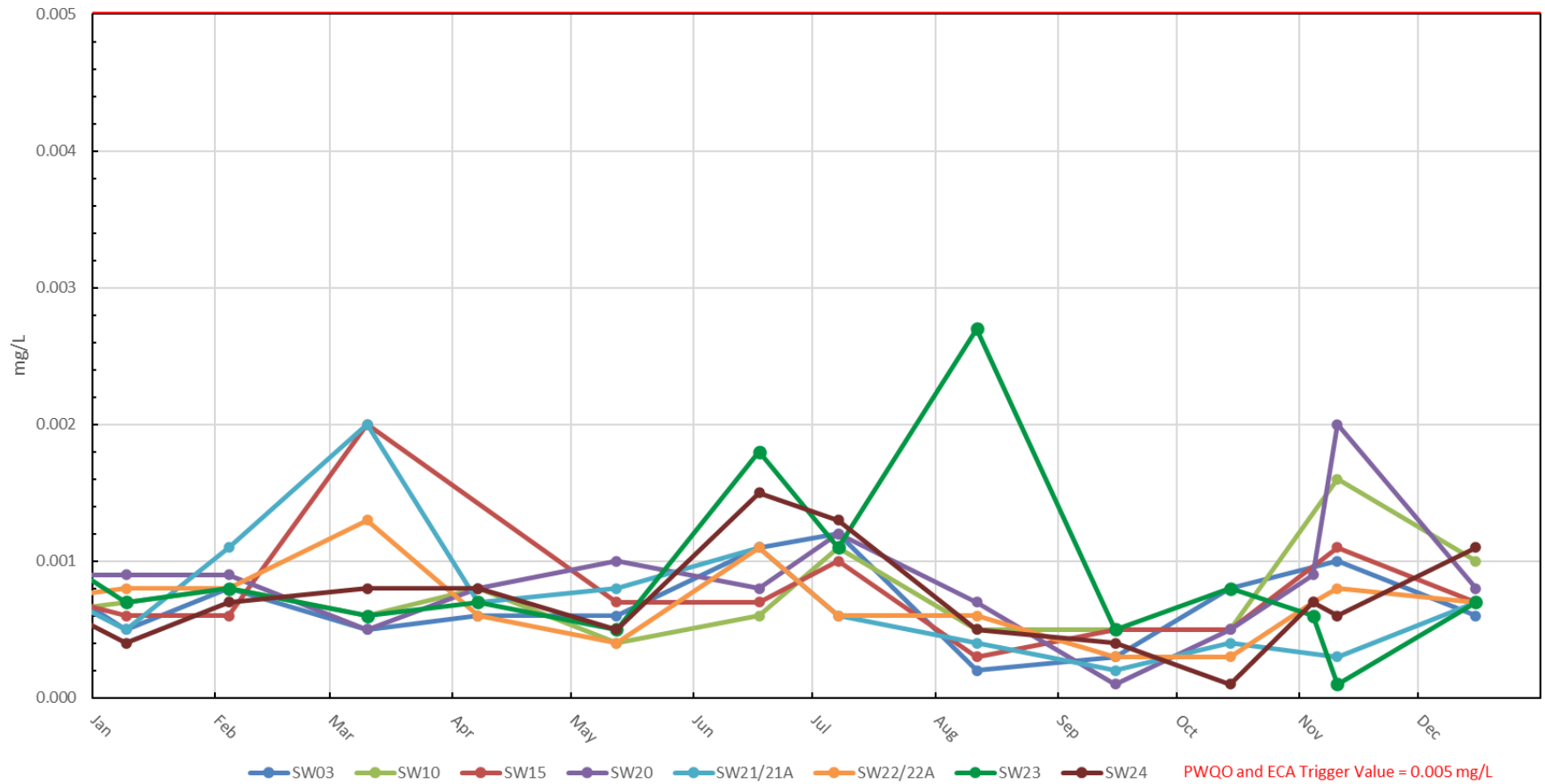


Figure 13a - Rainy River Mine, Field pH levels in Area Creeks 2015-2020

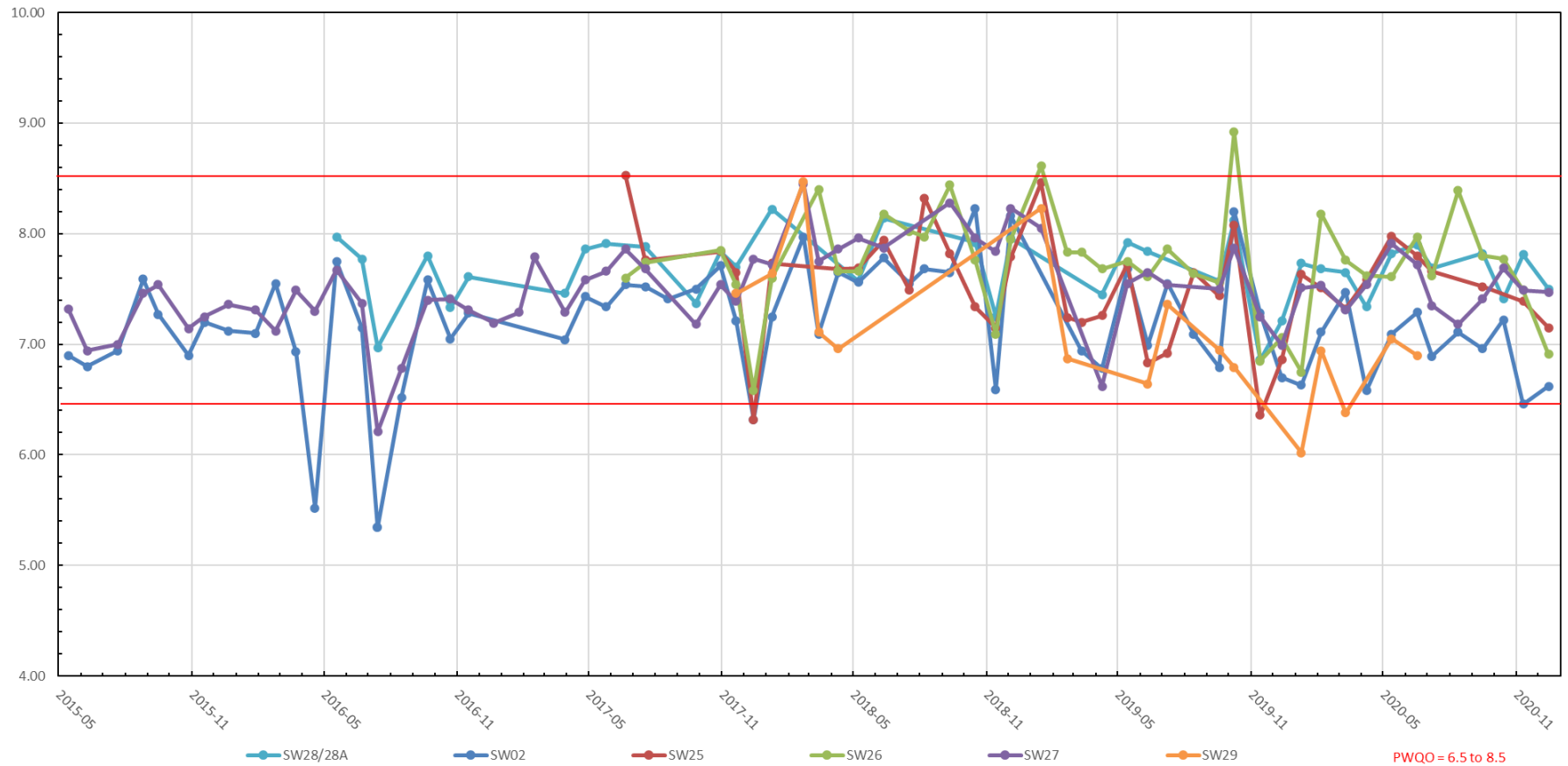


Figure 13b - Rainy River Mine, Field pH levels in Area Creeks 2020

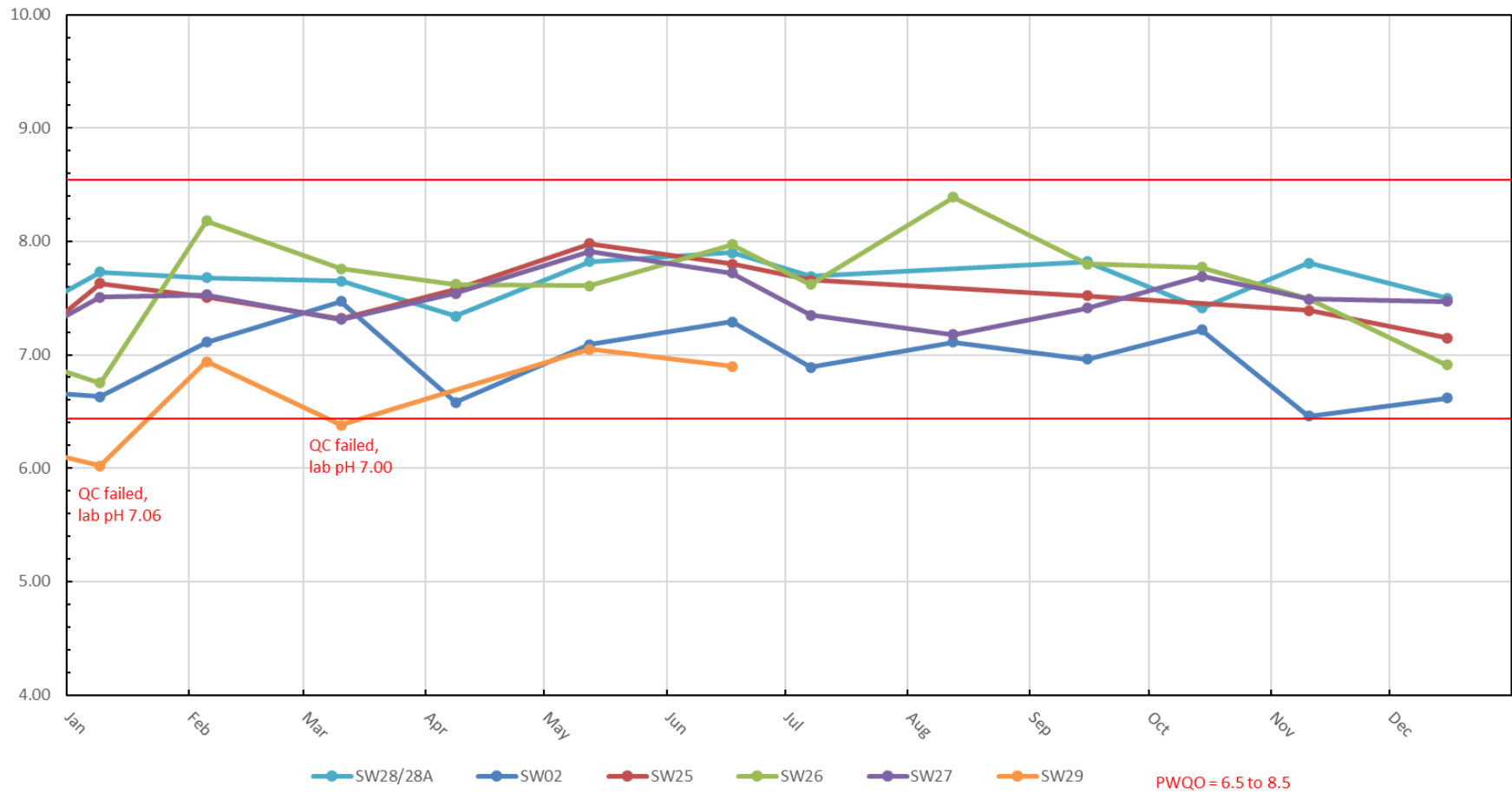


Figure 14a - Rainy River Mine, Total Suspended Solids Concentration in Area Creeks 2015-2020

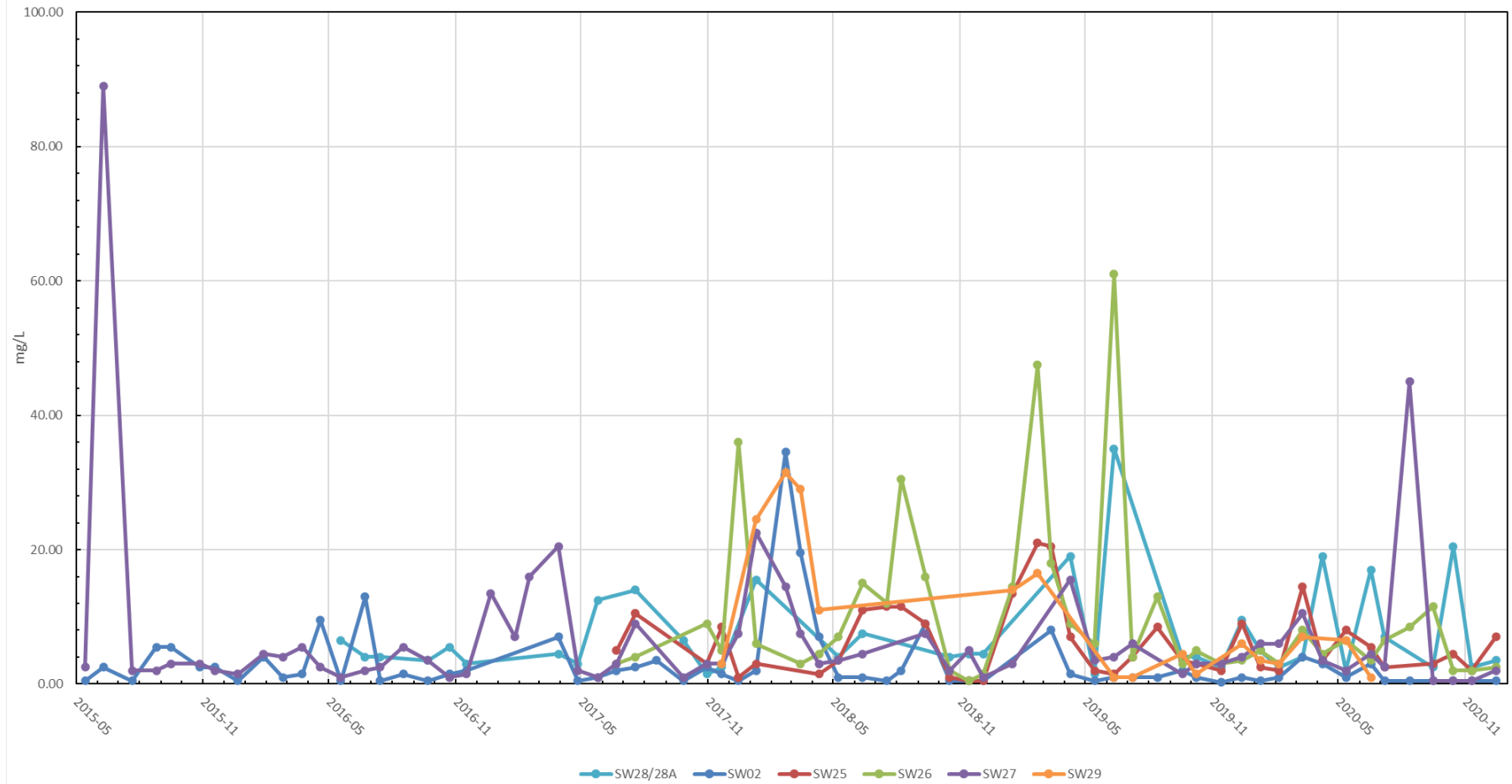


Figure 14b - Rainy River Mine, Total Suspended Solids Concentration in Area Creeks 2020

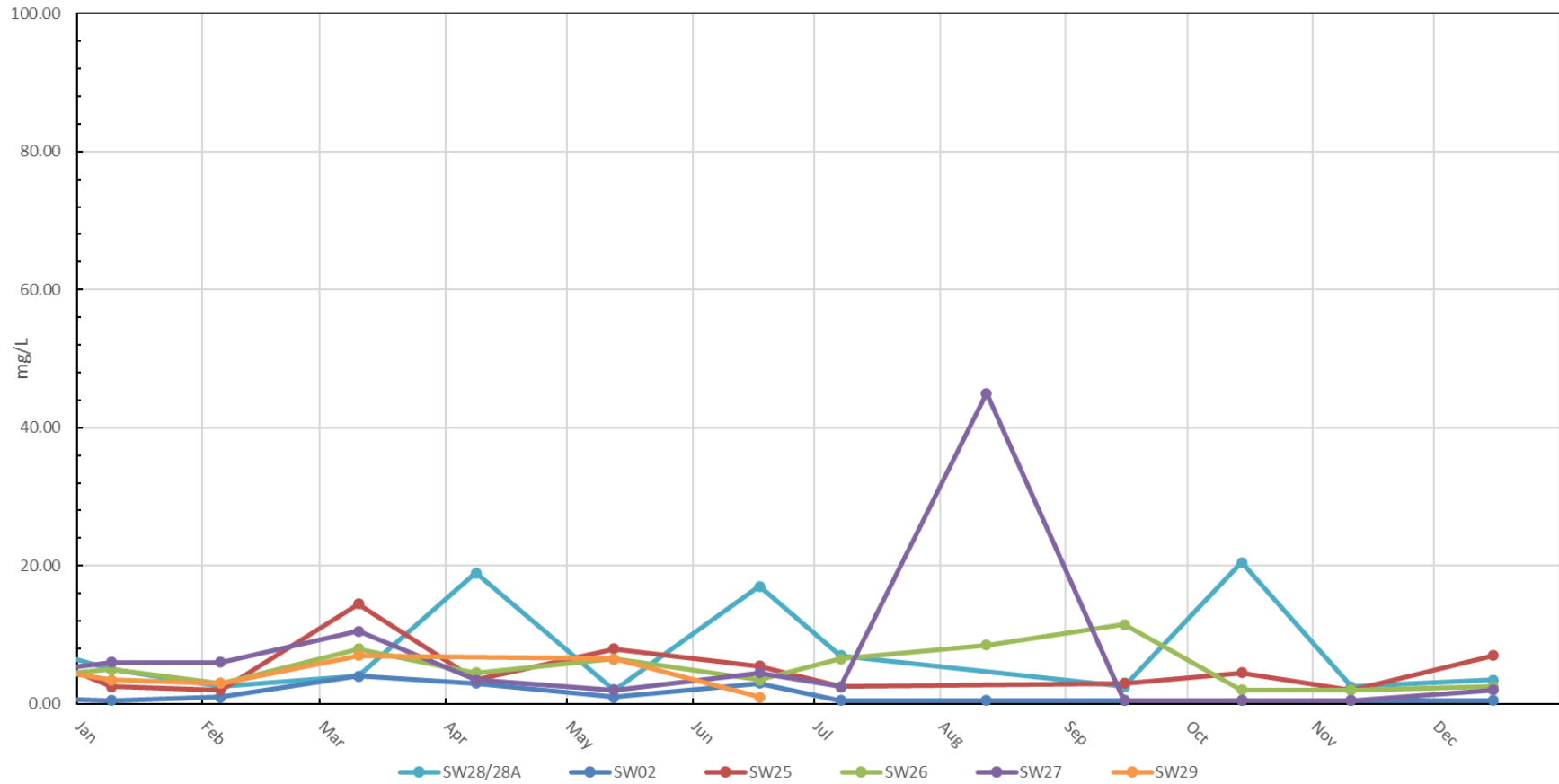


Figure 15a - Rainy River Mine, Total Arsenic in Area Creeks 2015-2020

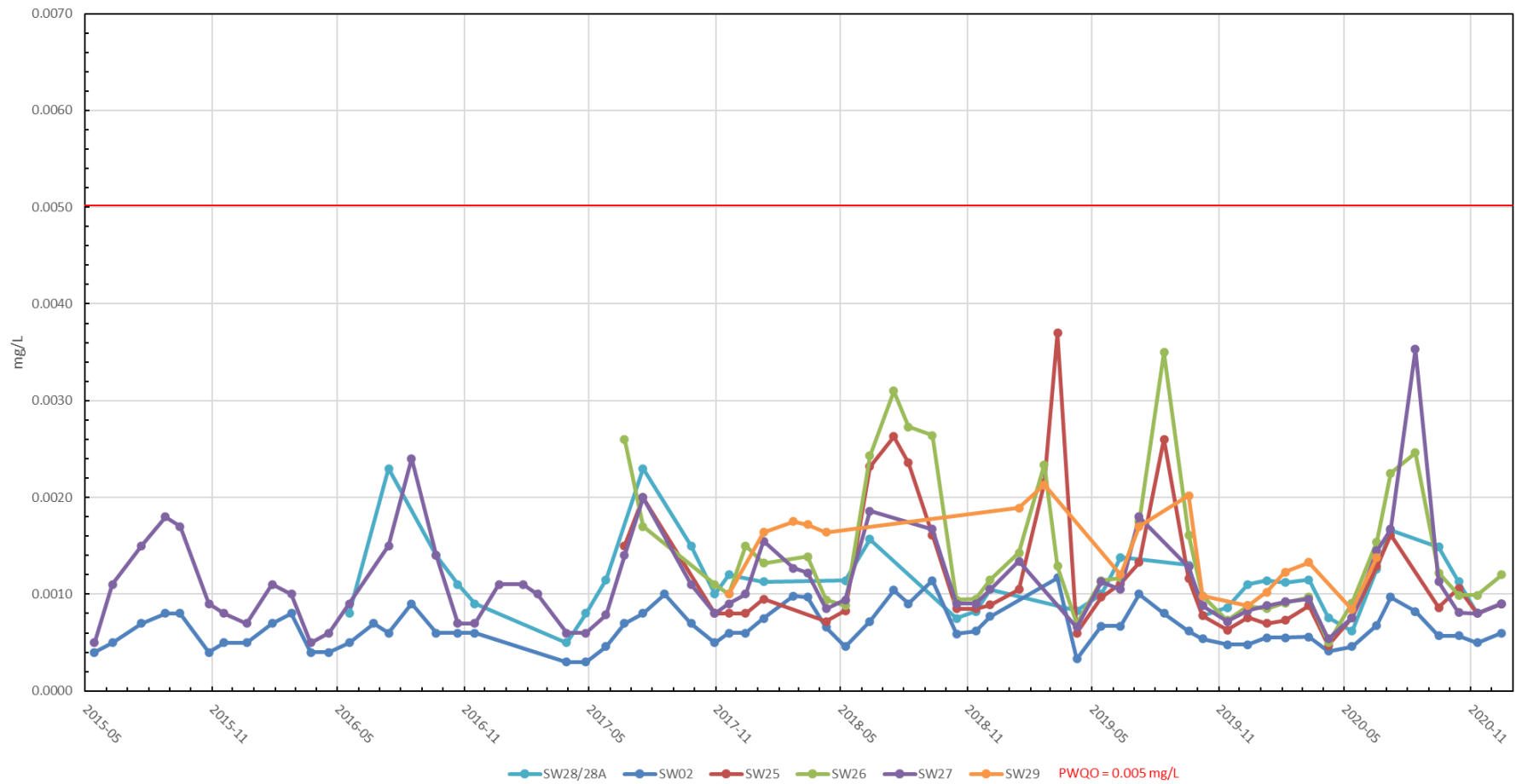


Figure 15b - Rainy River Mine, Total Arsenic in Area Creeks 2020

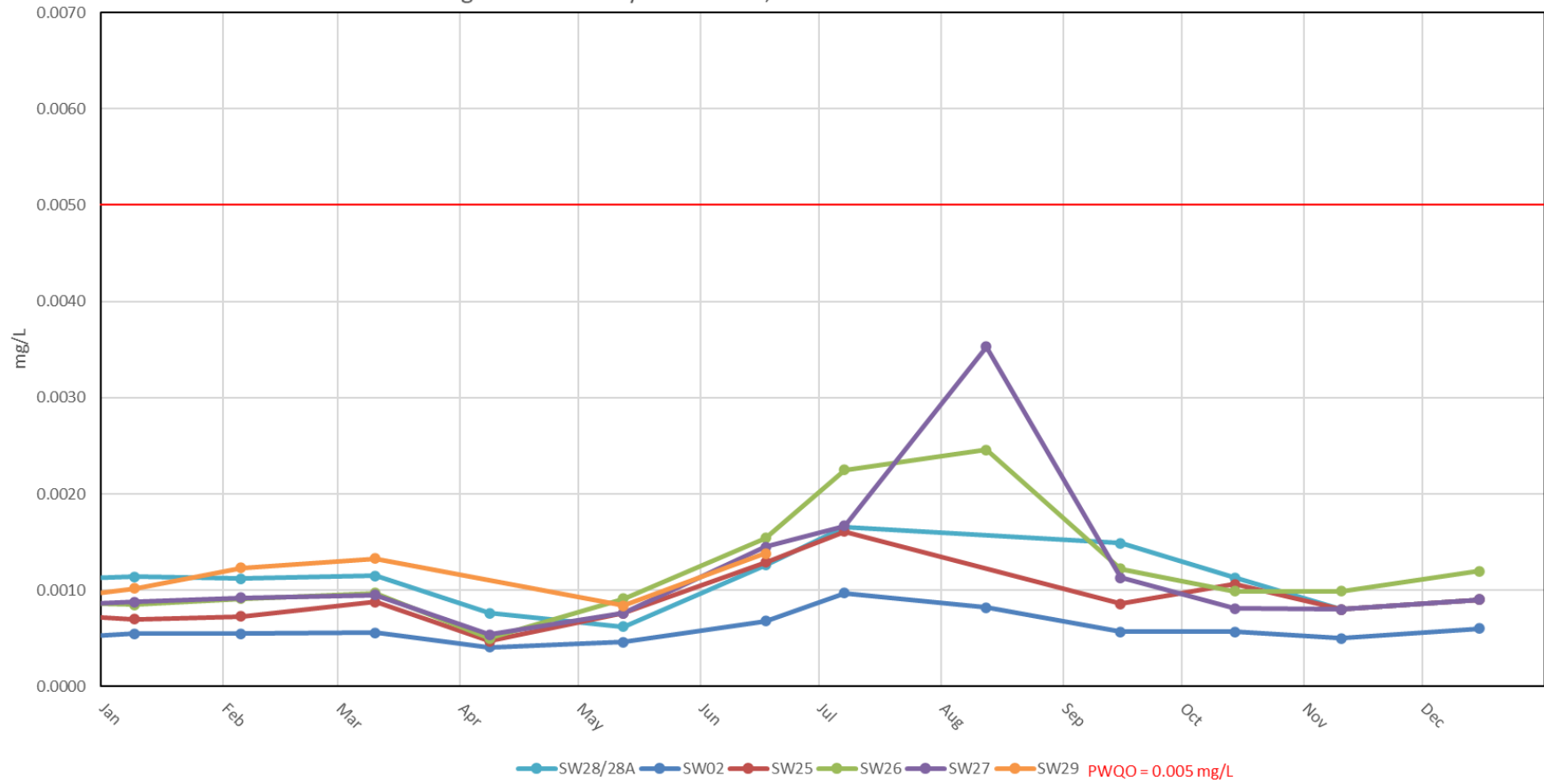


Figure 16a- Rainy River Mine, Total Copper in Area Creeks 2015-2020

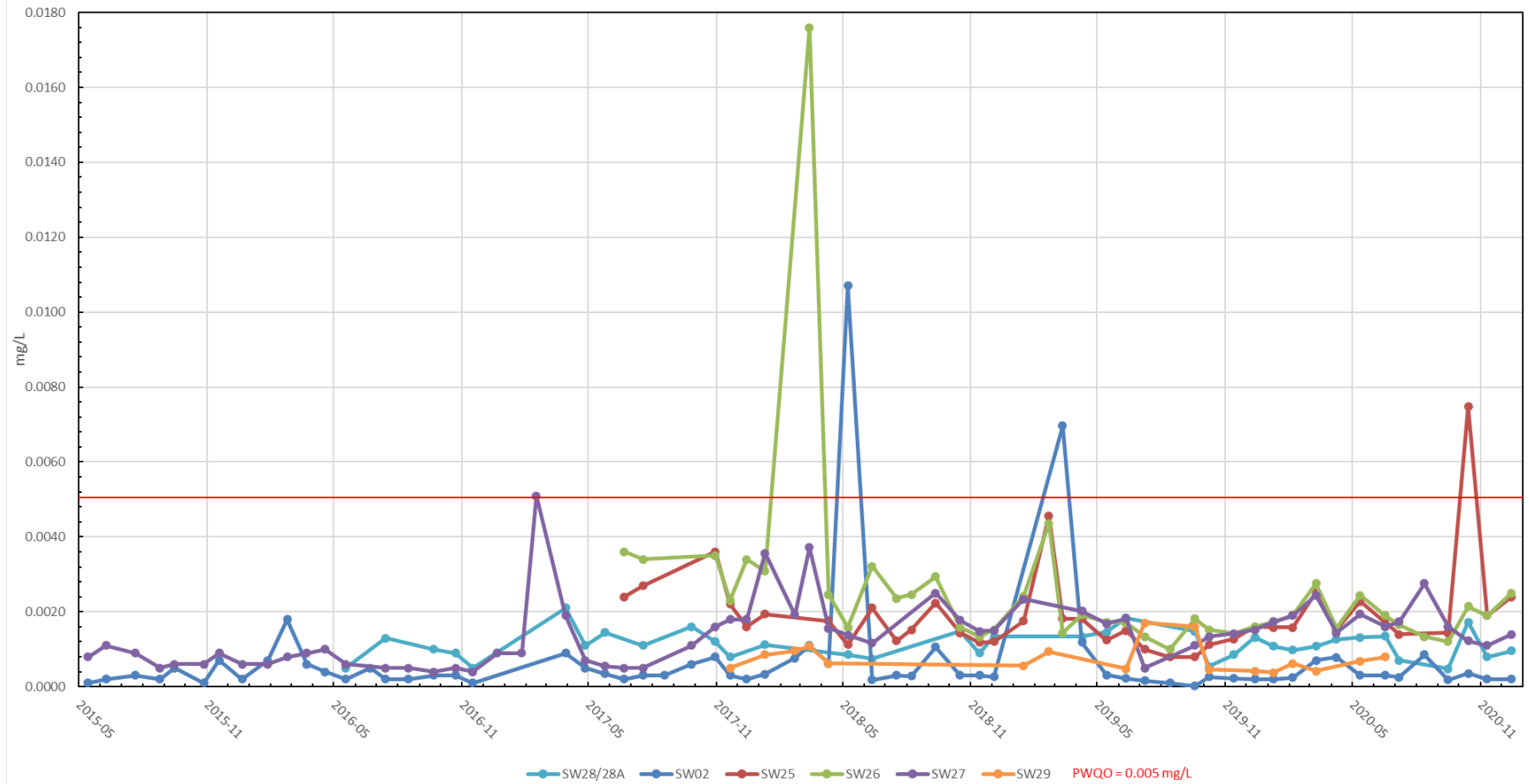


Figure 16b - Rainy River Mine, Total Copper in Area Creeks 2020

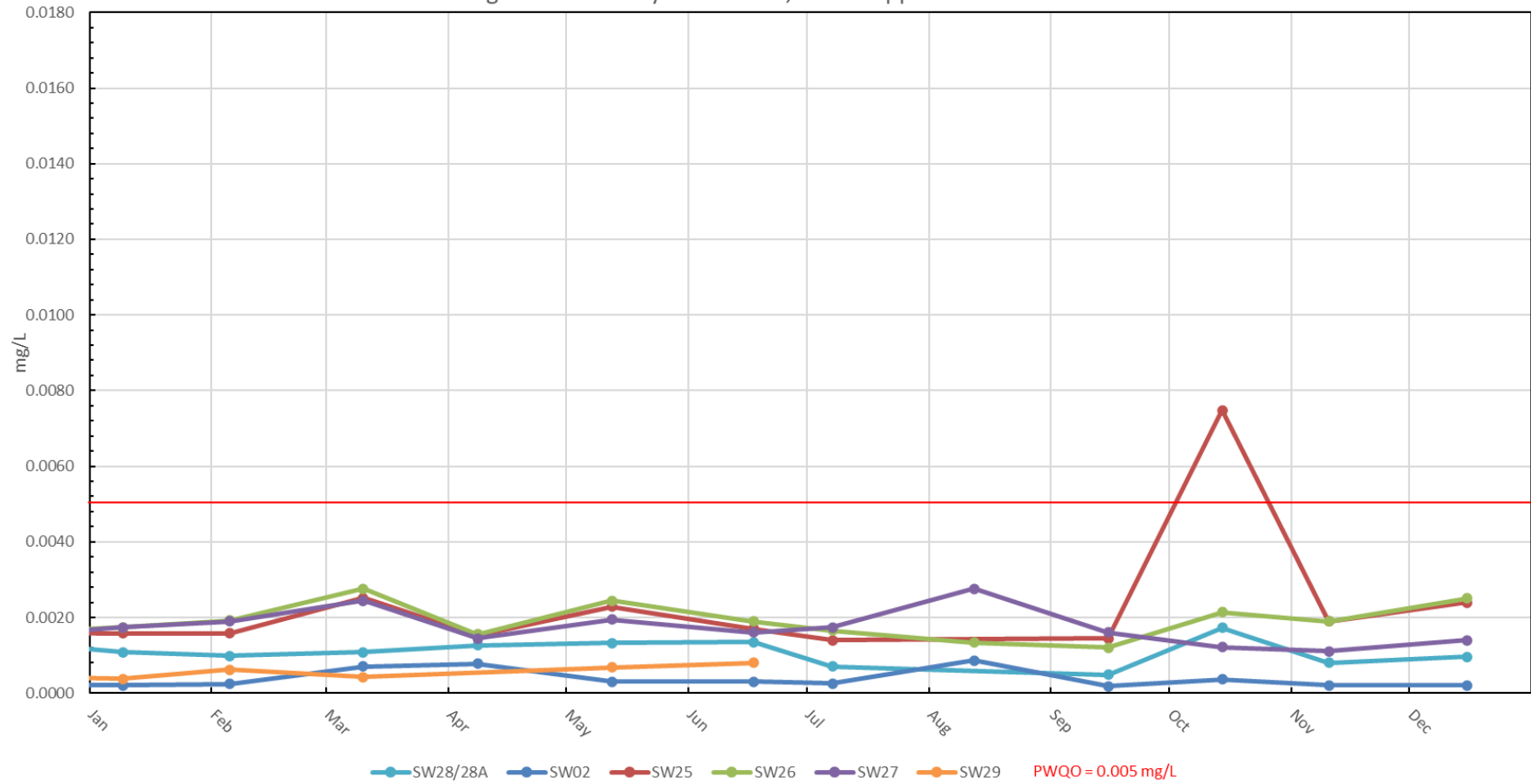


Figure 17a - Rainy River Mine, Total Lead in Area Creeks 2015-2020

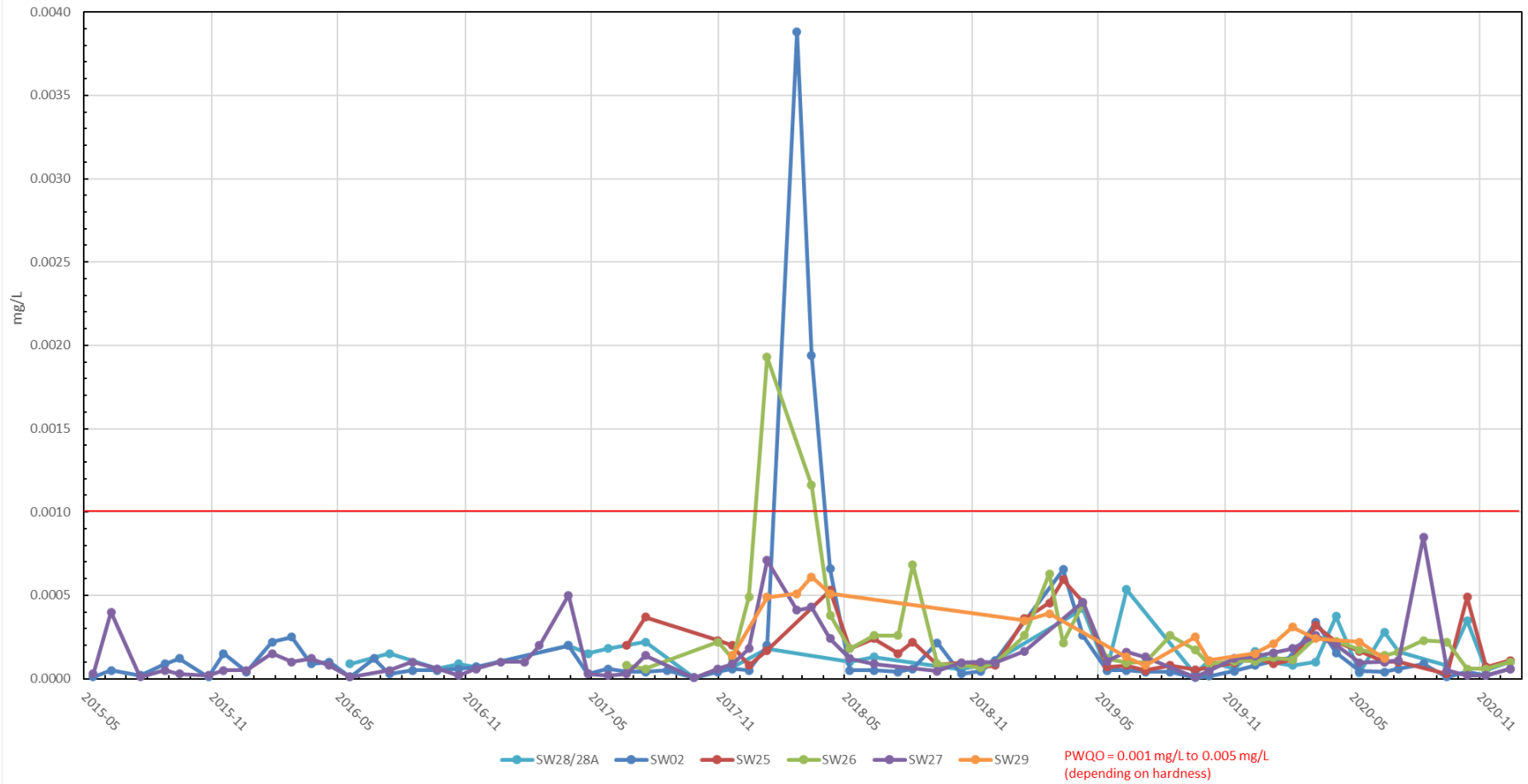


Figure 17b - Rainy River Mine, Total Lead in Area Creeks 2020

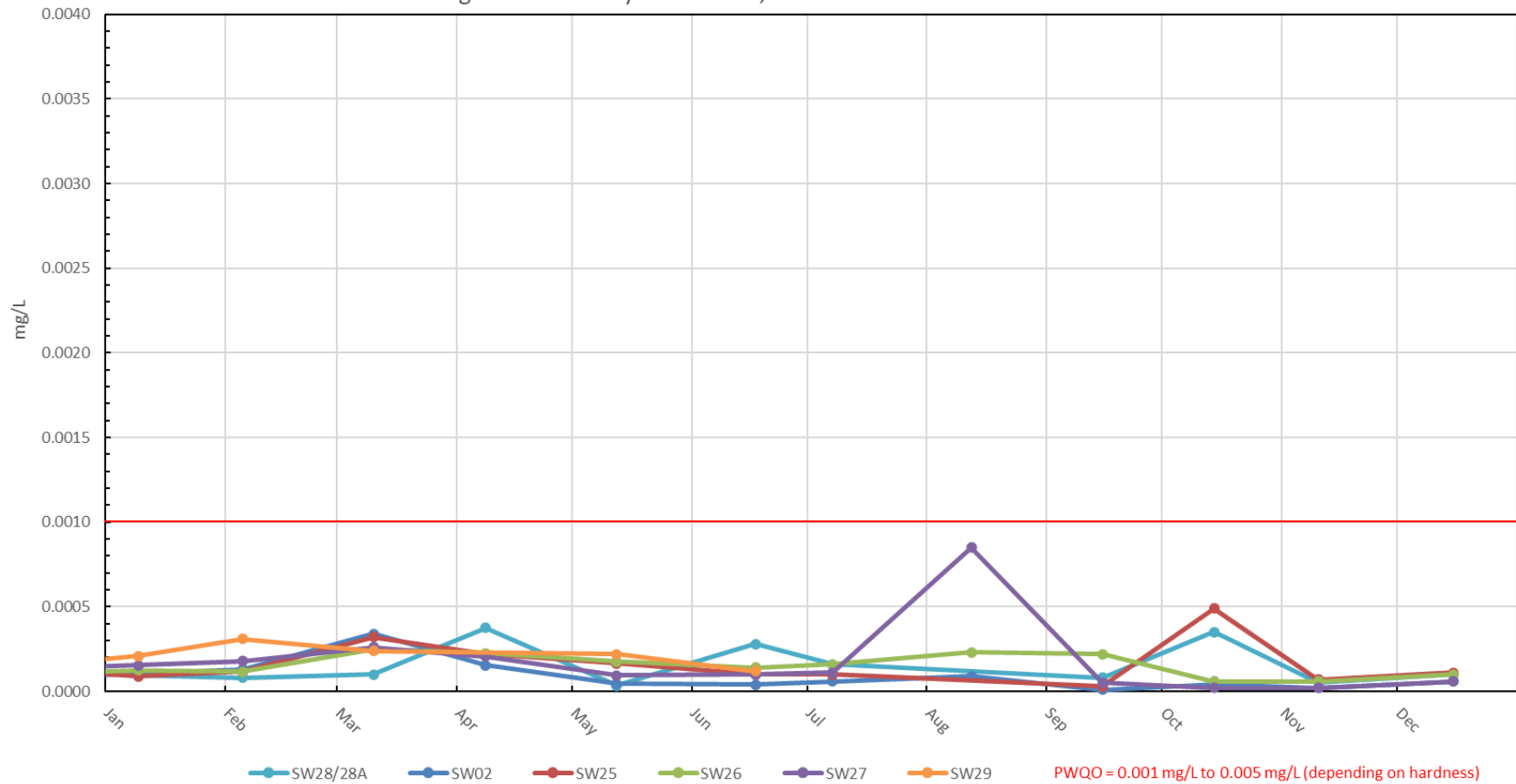


Figure 18a - Rainy River Mine, Total Nickel in Area Creeks 2015-2020

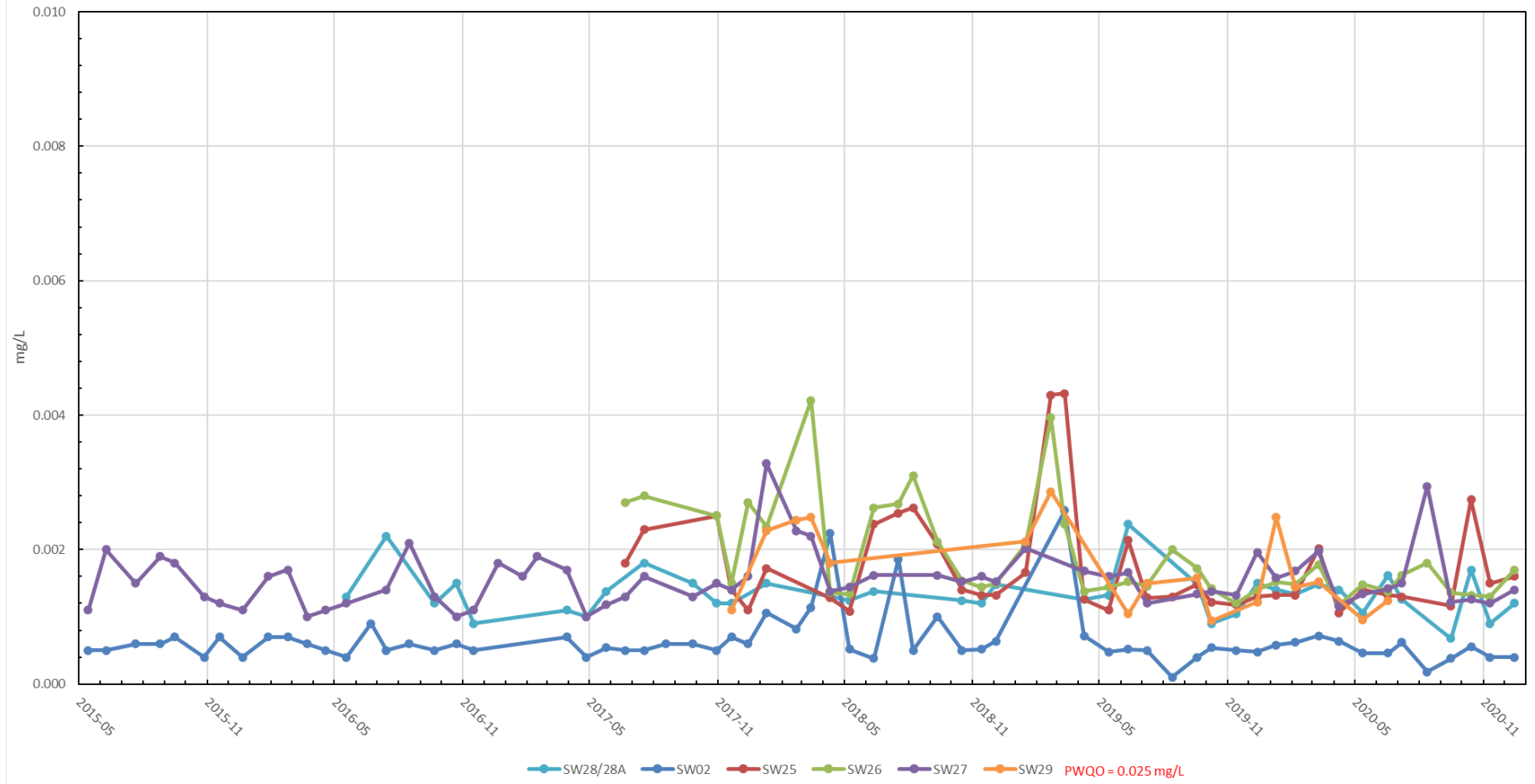


Figure 18b - Rainy River Mine, Total Nickel in Area Creeks 2020

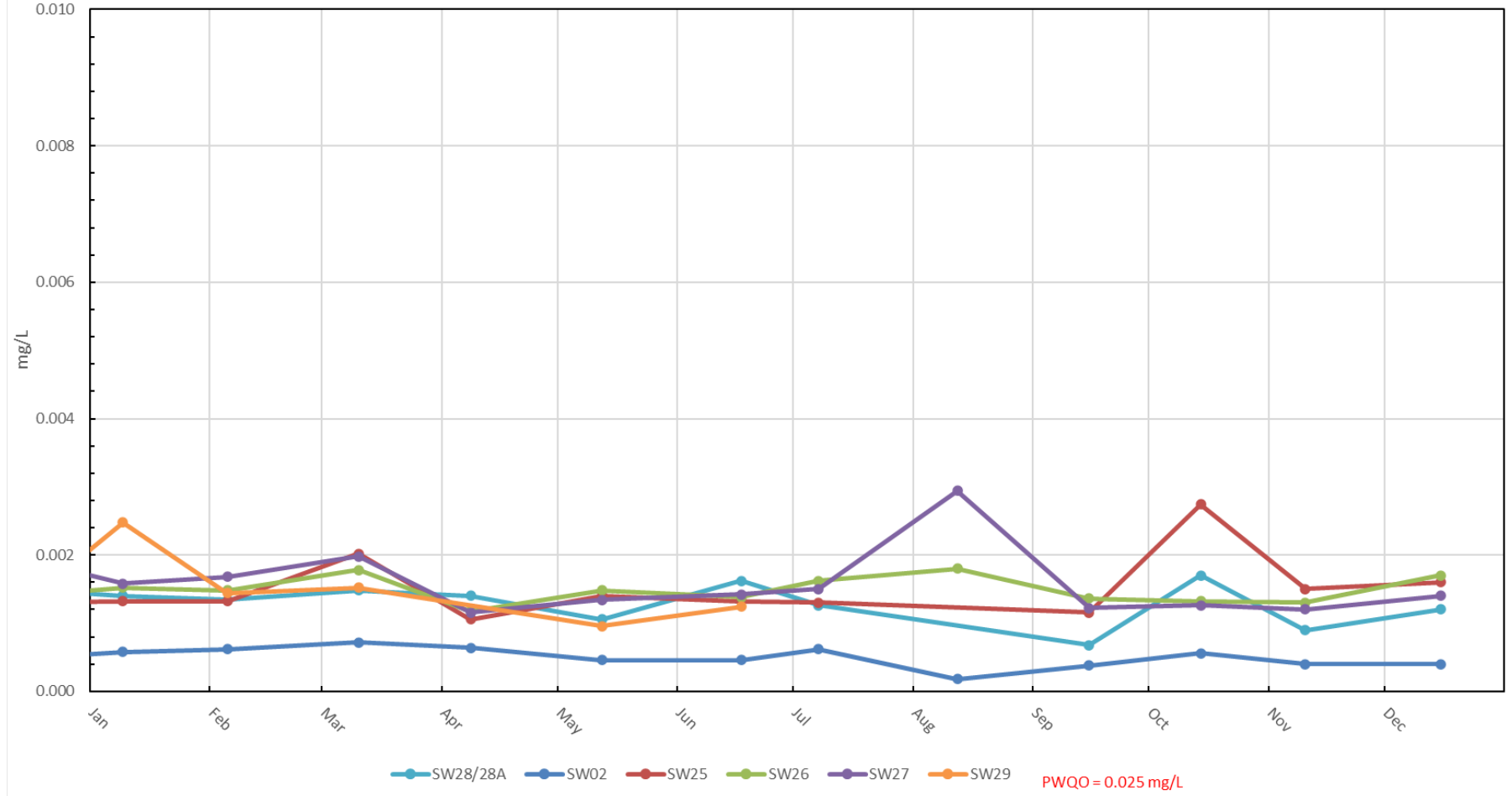


Figure 19a - Rainy River Mine, Total Phosphorus in Area Creeks 2017-2020

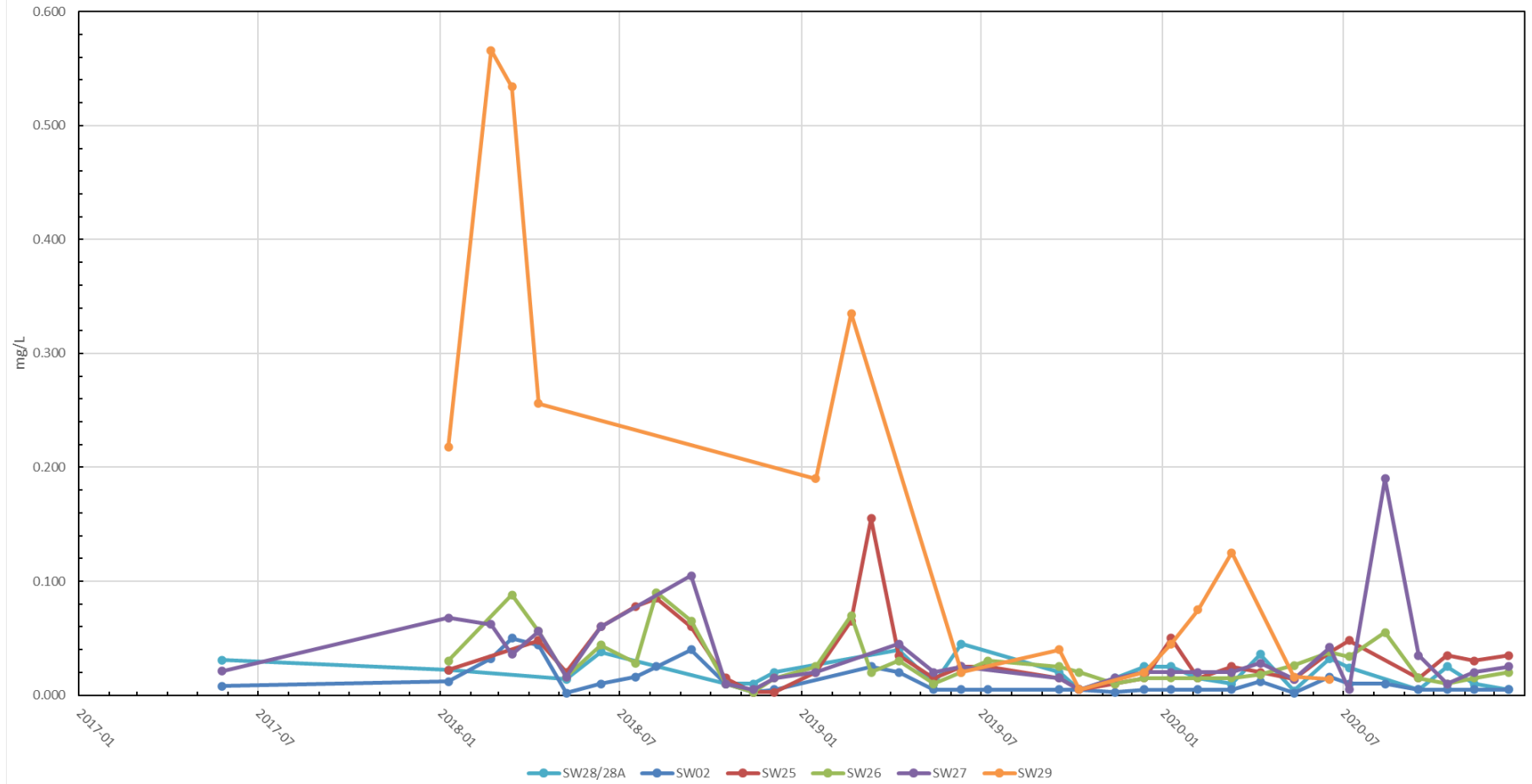


Figure 19b - Rainy River Mine, Total Phosphorus in Area Creeks 2020

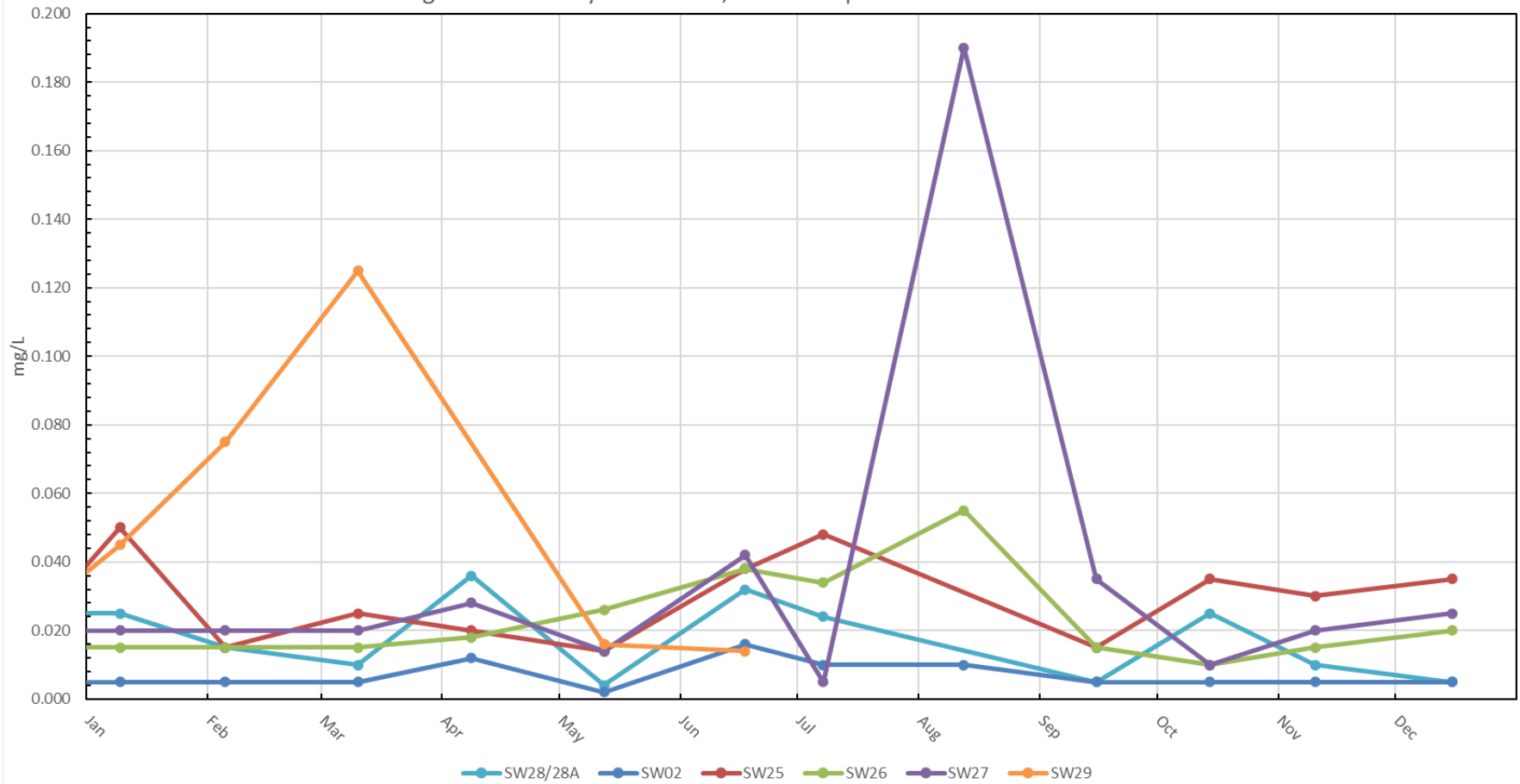


Figure 20a - Rainy River Mine, Total Zinc in Area Creeks 2015-2020

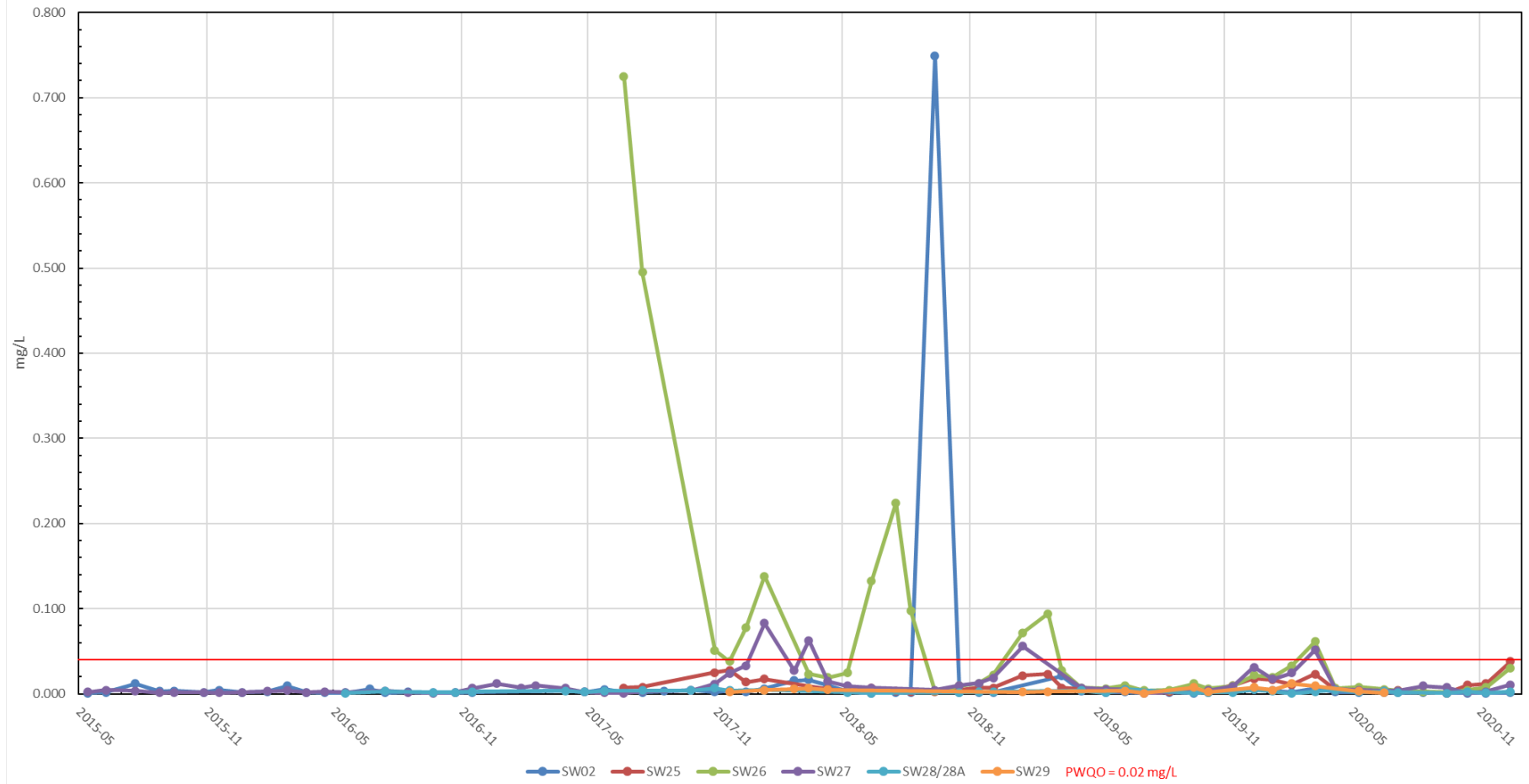


Figure 20b - Rainy River Mine, Total Zinc in Area Creeks 2020

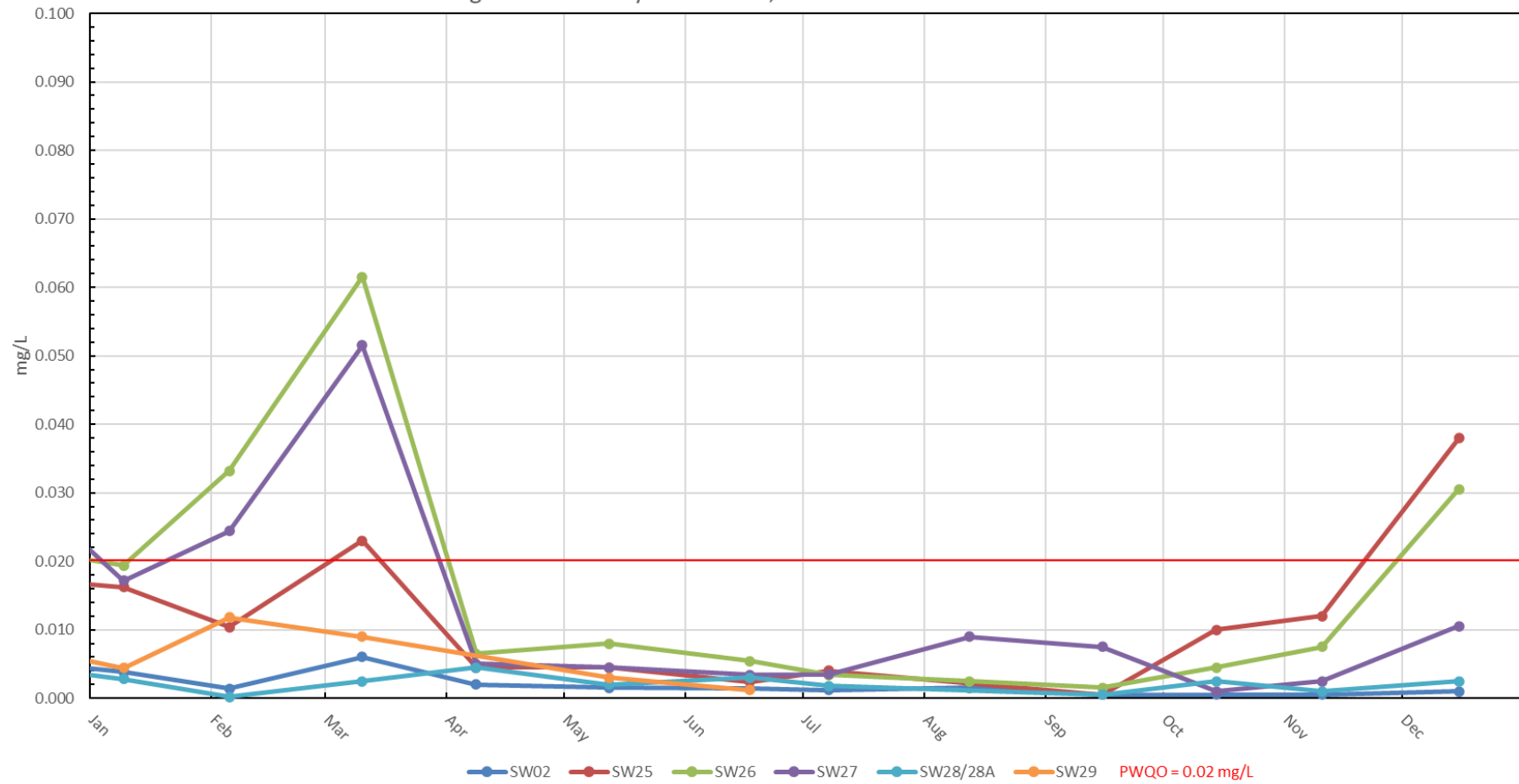


Figure 21a - Rainy River Mine, Total Mercury in Area Creeks 2015-2020

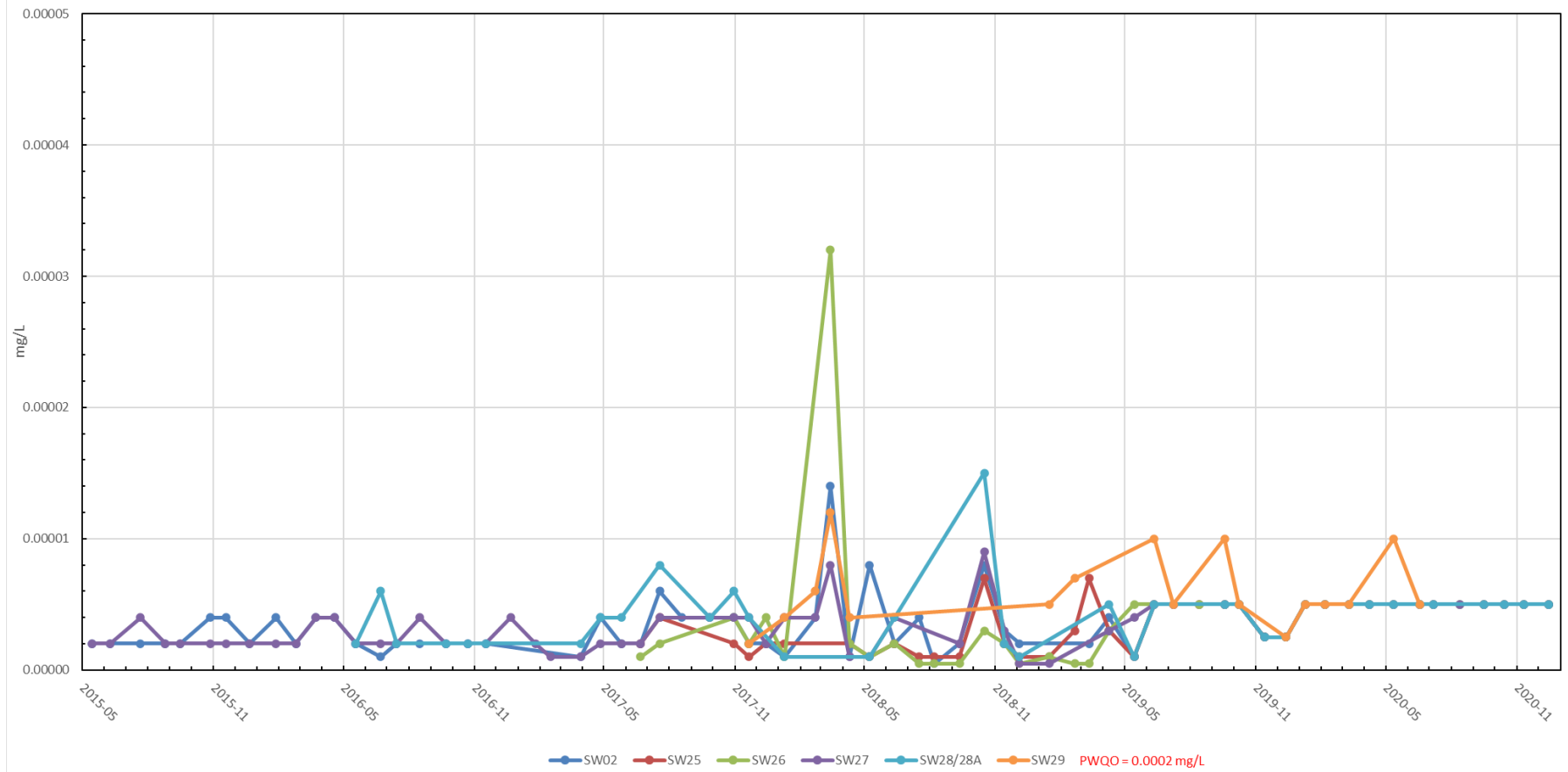


Figure 21b - Rainy River Mine, Total Mercury in Area Creeks 2020

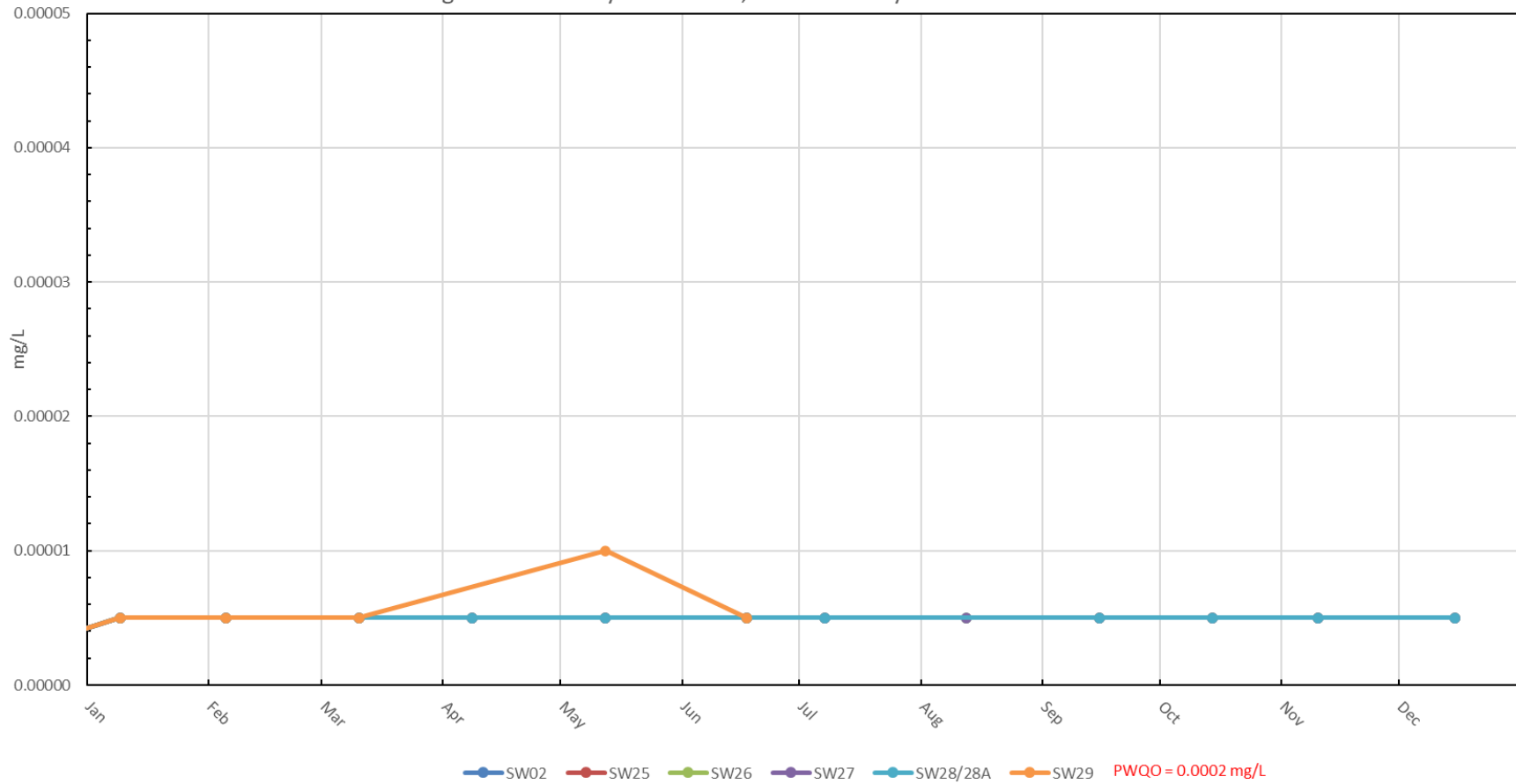


Figure 22a - Rainy River Mine, Un-ionized Ammonia in Area Creeks 2015-2020

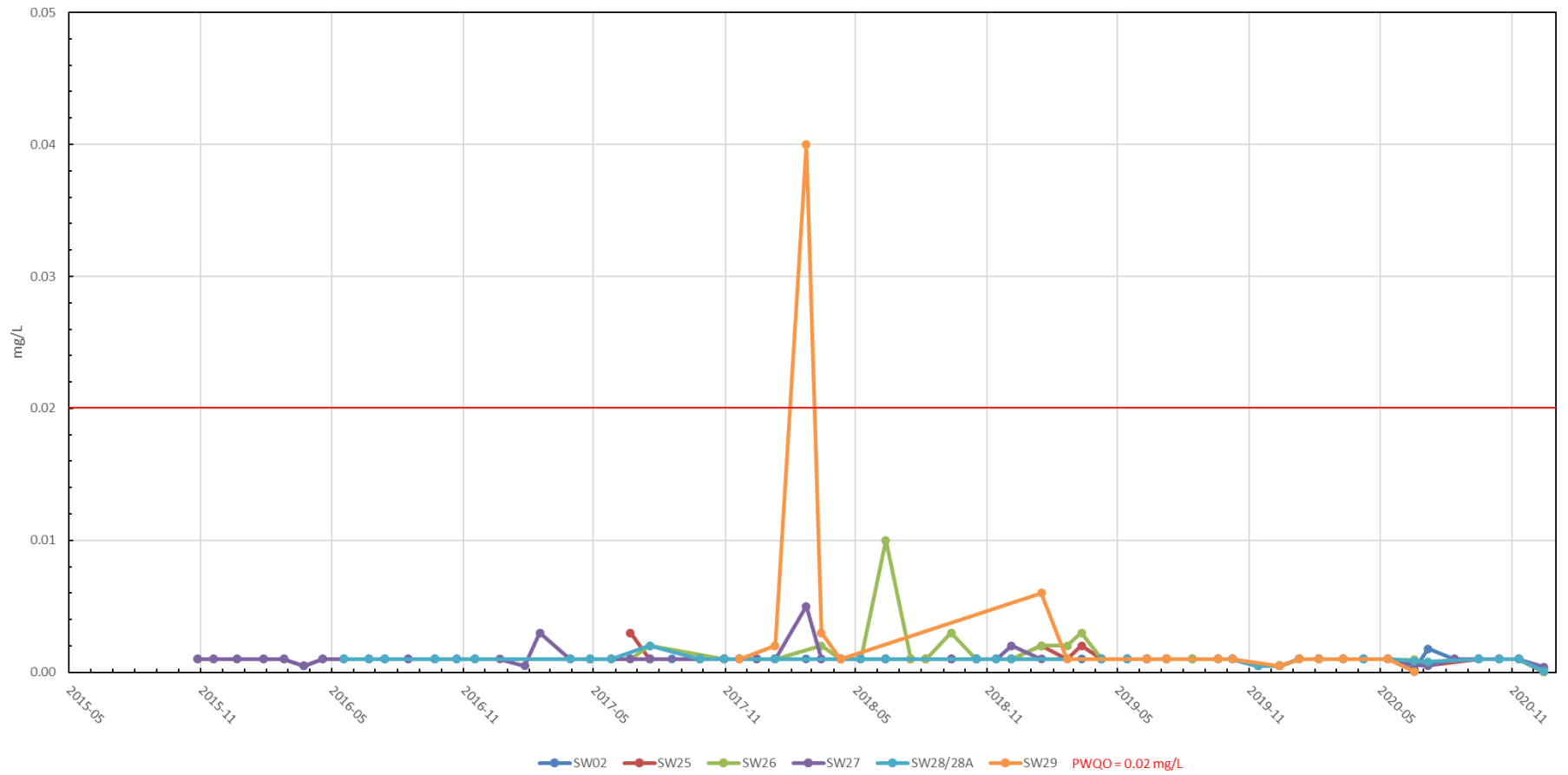


Figure 22b - Rainy River Mine, Un-ionized Ammonia in Area Creeks 2020

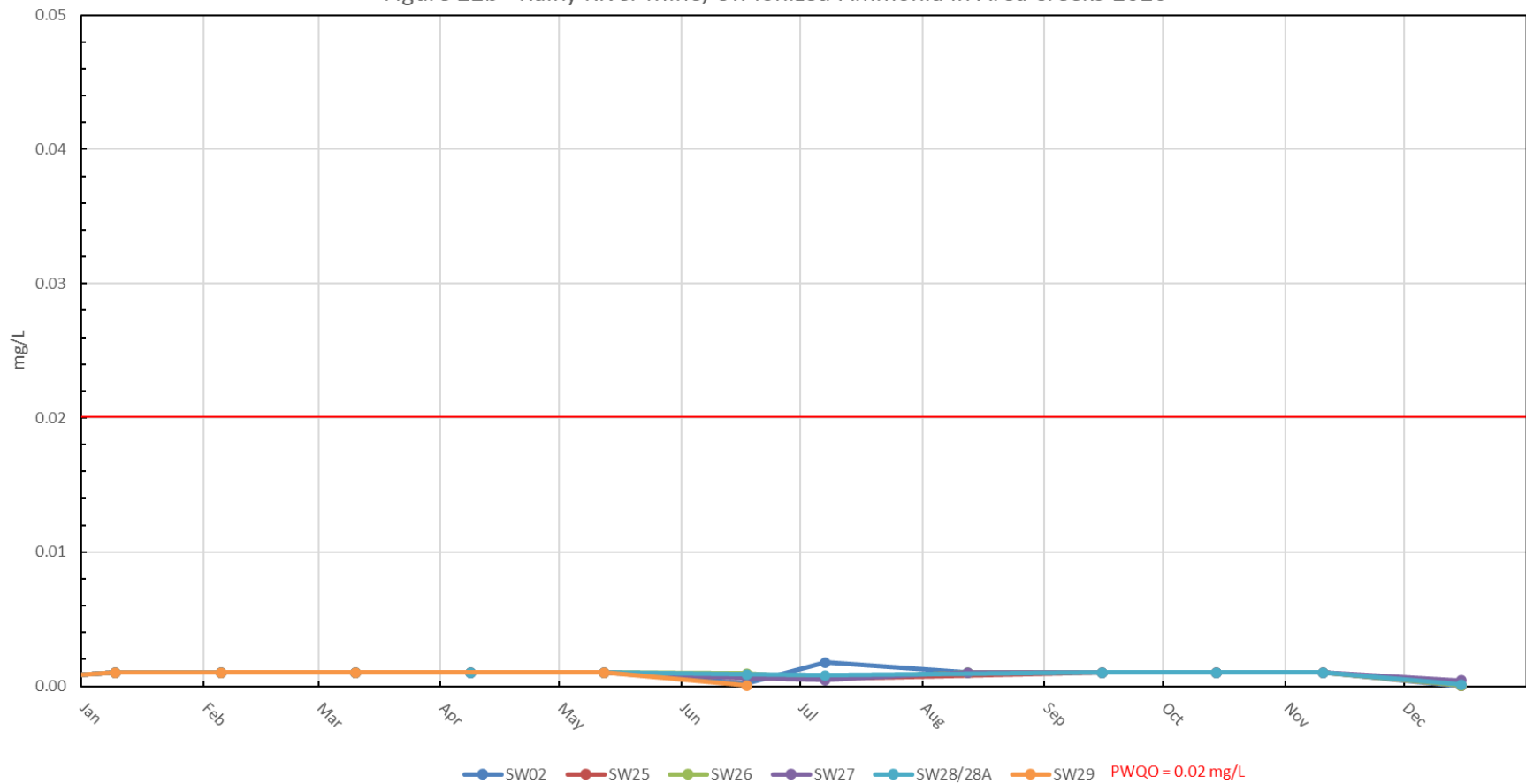


Figure 23a - Rainy River Mine, Free Cyanide in Area Creeks 2018-2020

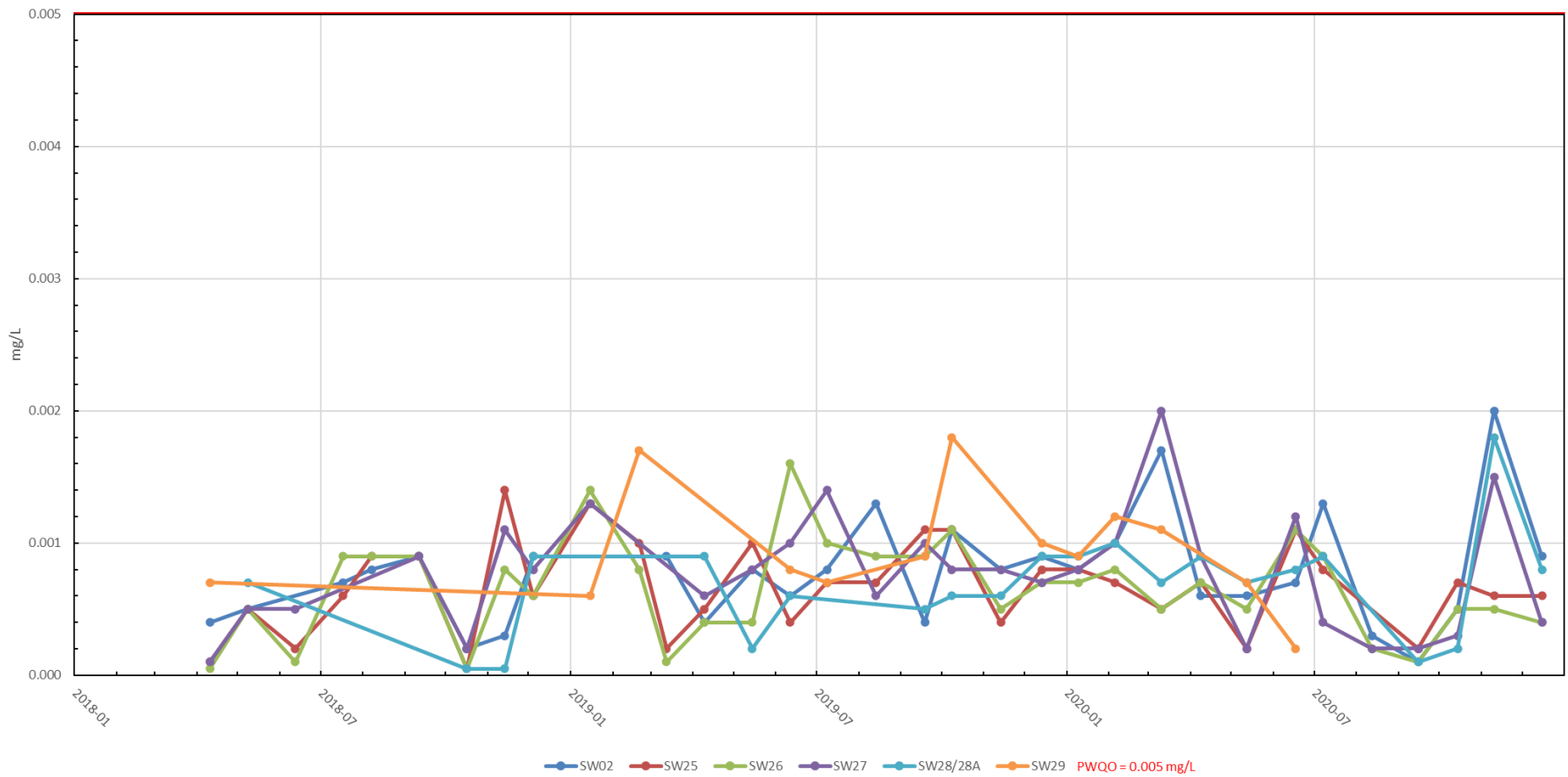


Figure 23b - Rainy River Mine, Free Cyanide in Area Creeks 2020

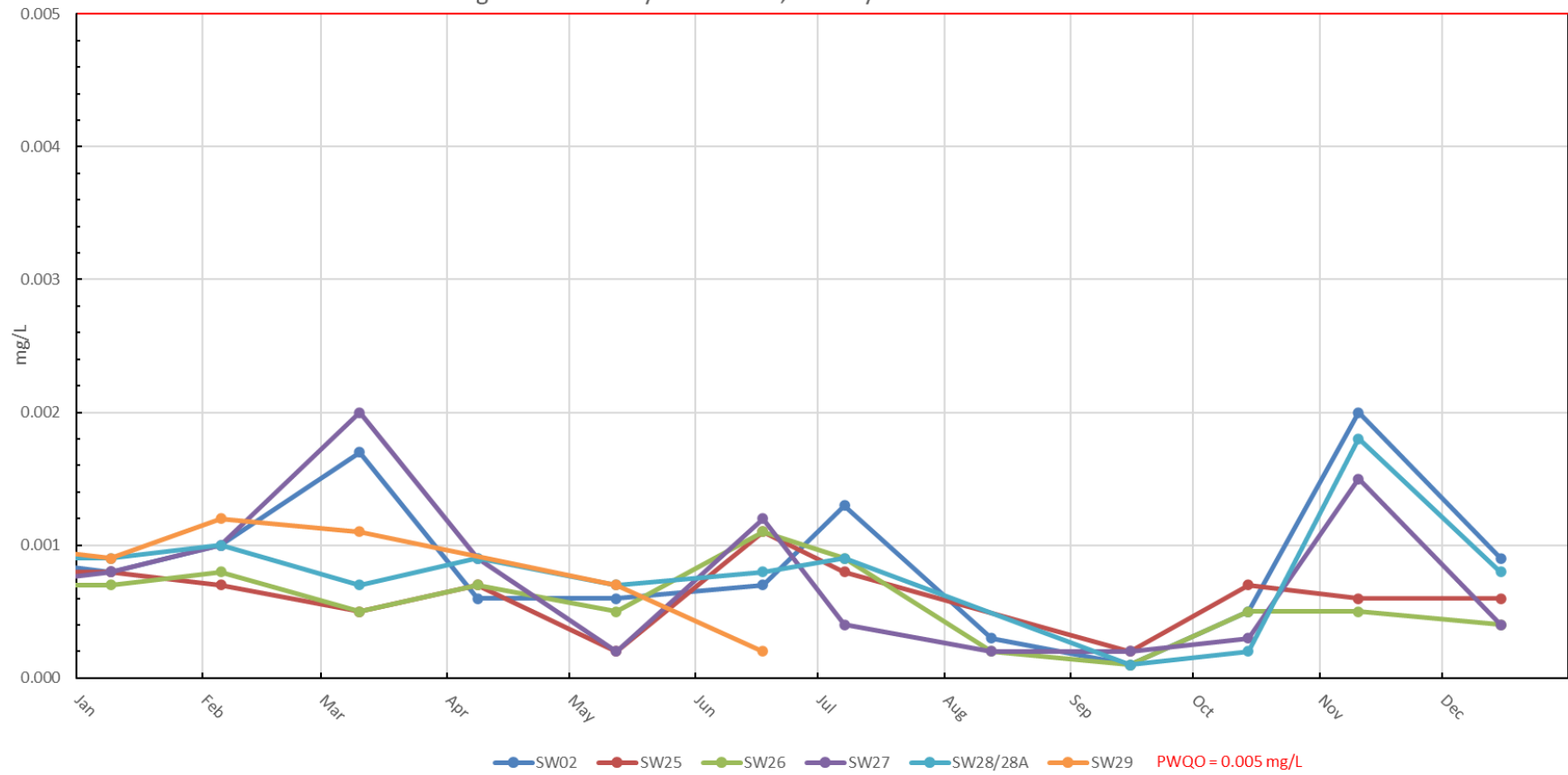


Figure 24a - Rainy River Mine, Field pH Levels in Rainy River 2015-2020

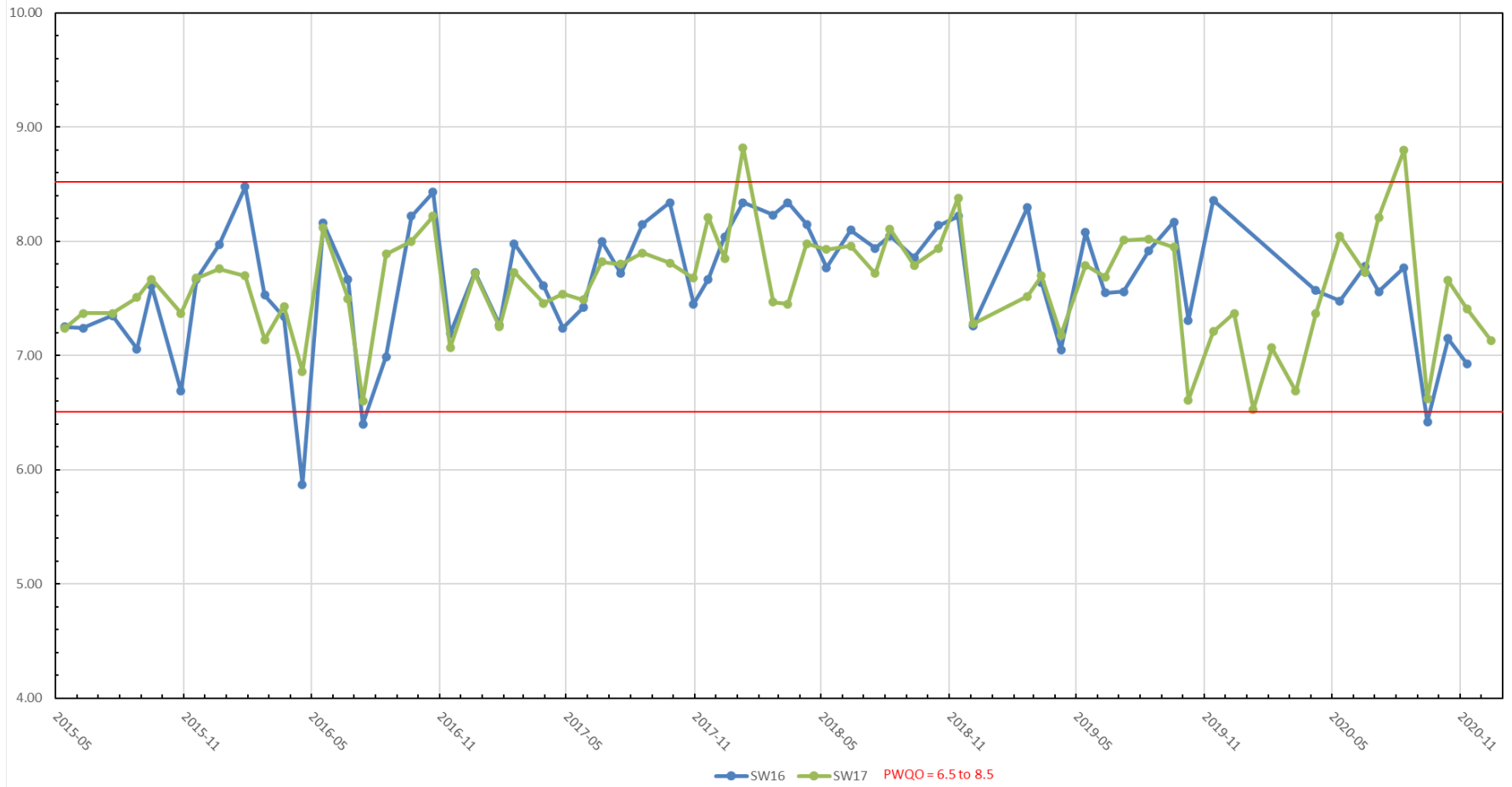


Figure 24b - Rainy River Mine, Field pH Levels in Rainy River 2020

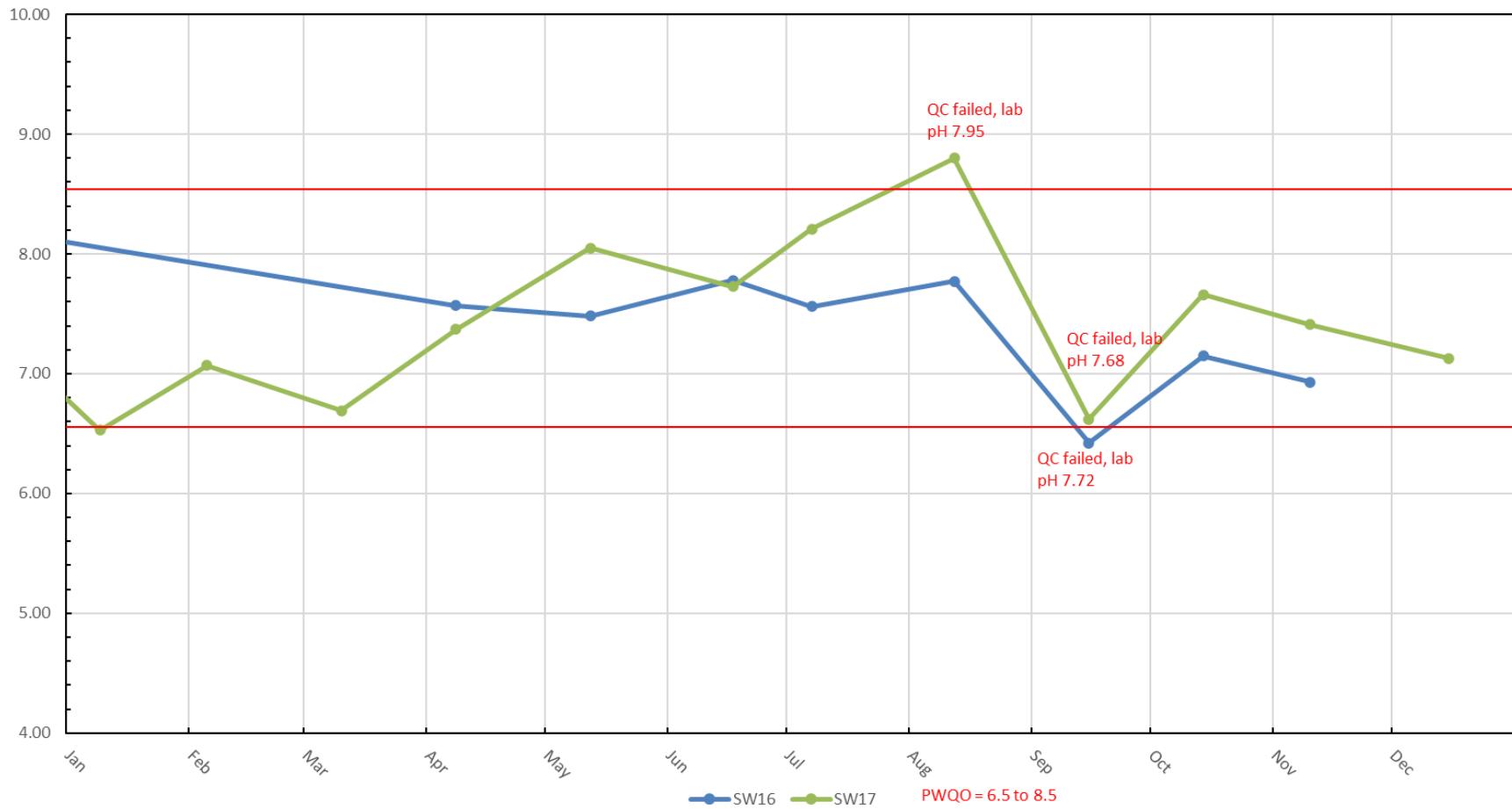


Figure 25a - Rainy River Mine, Total Suspended Solids Concentration in Rainy River 2015-2020

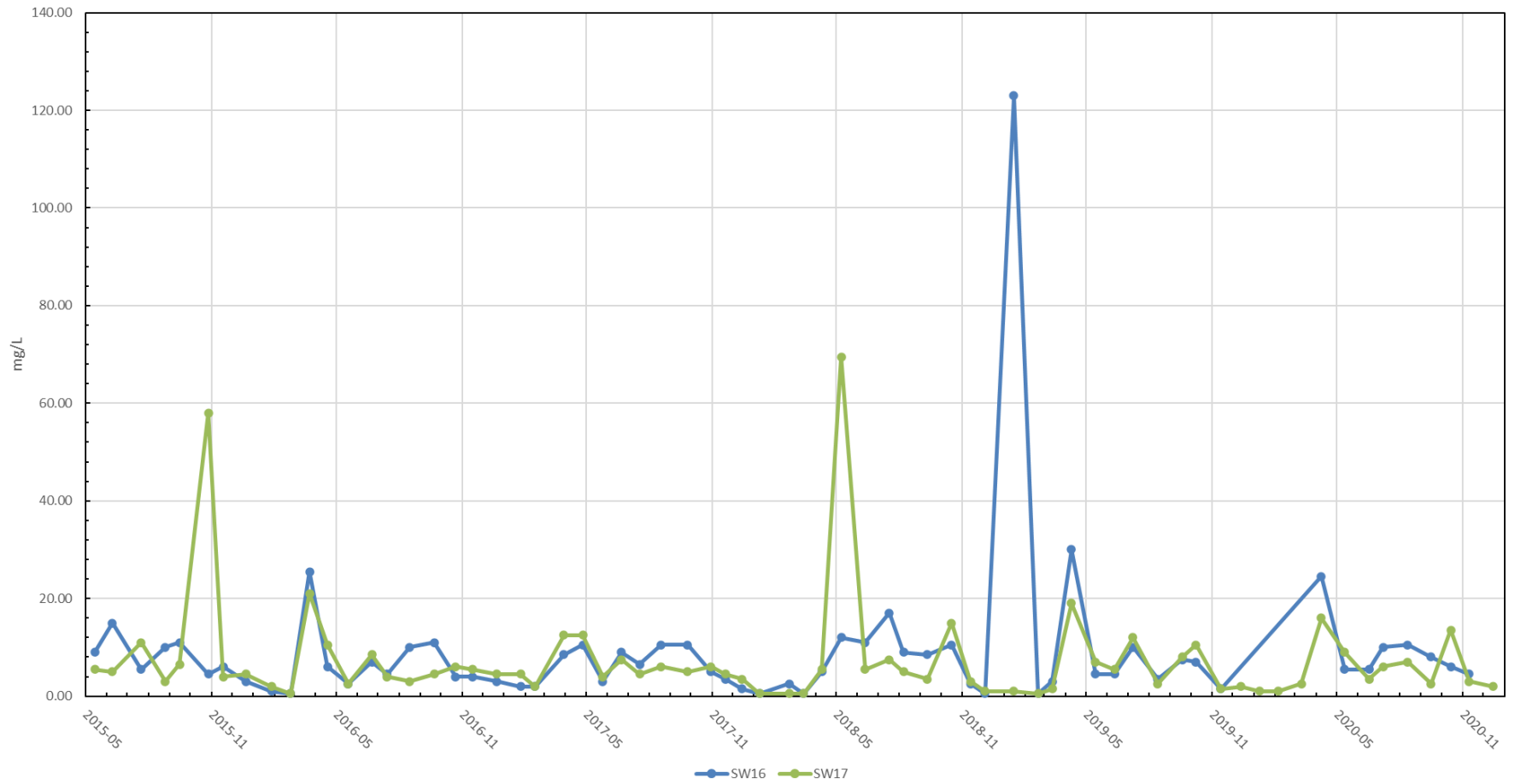


Figure 25b - Rainy River Mine, Total Suspended Solids Concentration in Rainy River 2020

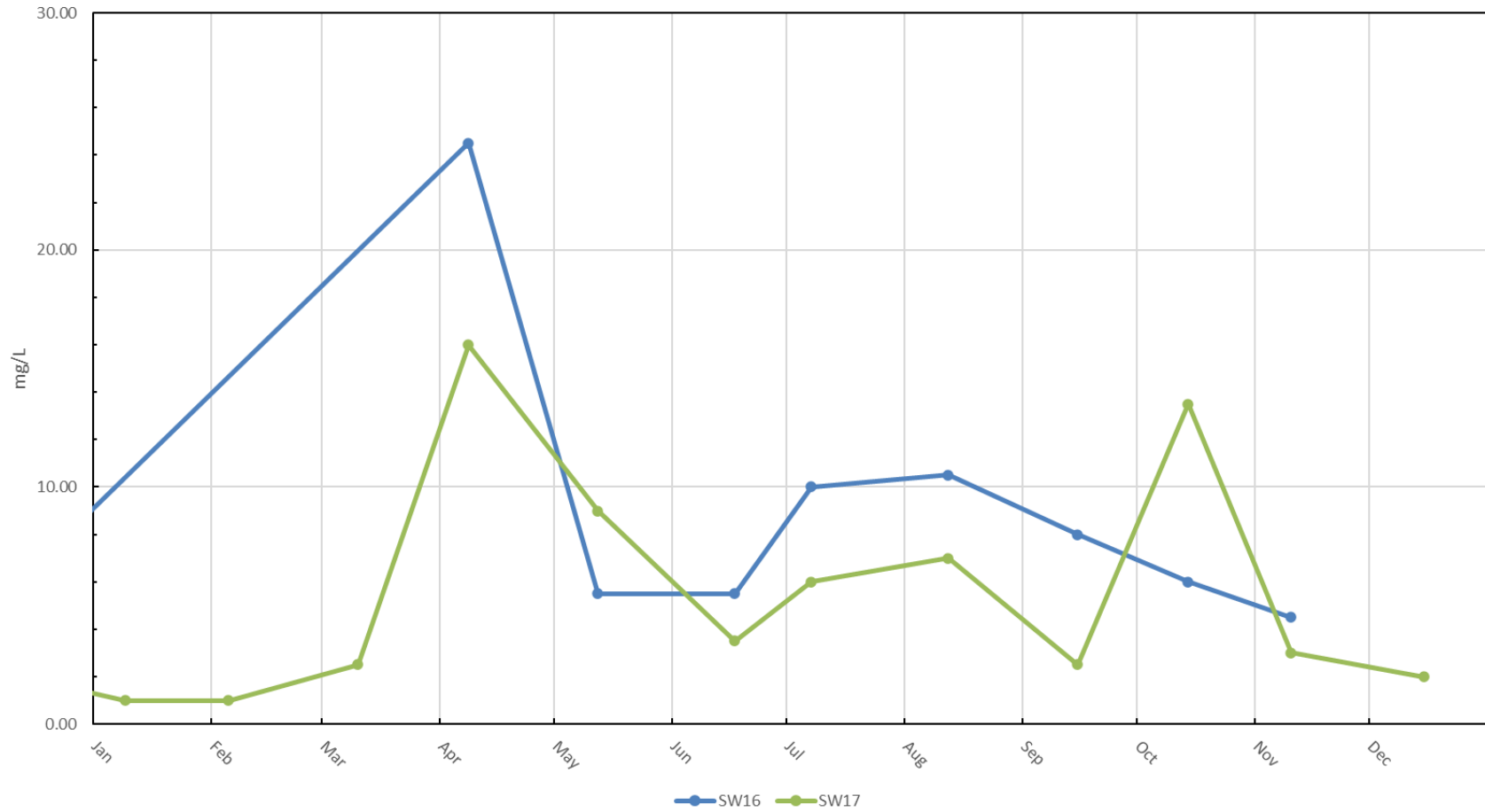


Figure 26a - Rainy River Mine, Total Arsenic in Rainy River 2015-2020

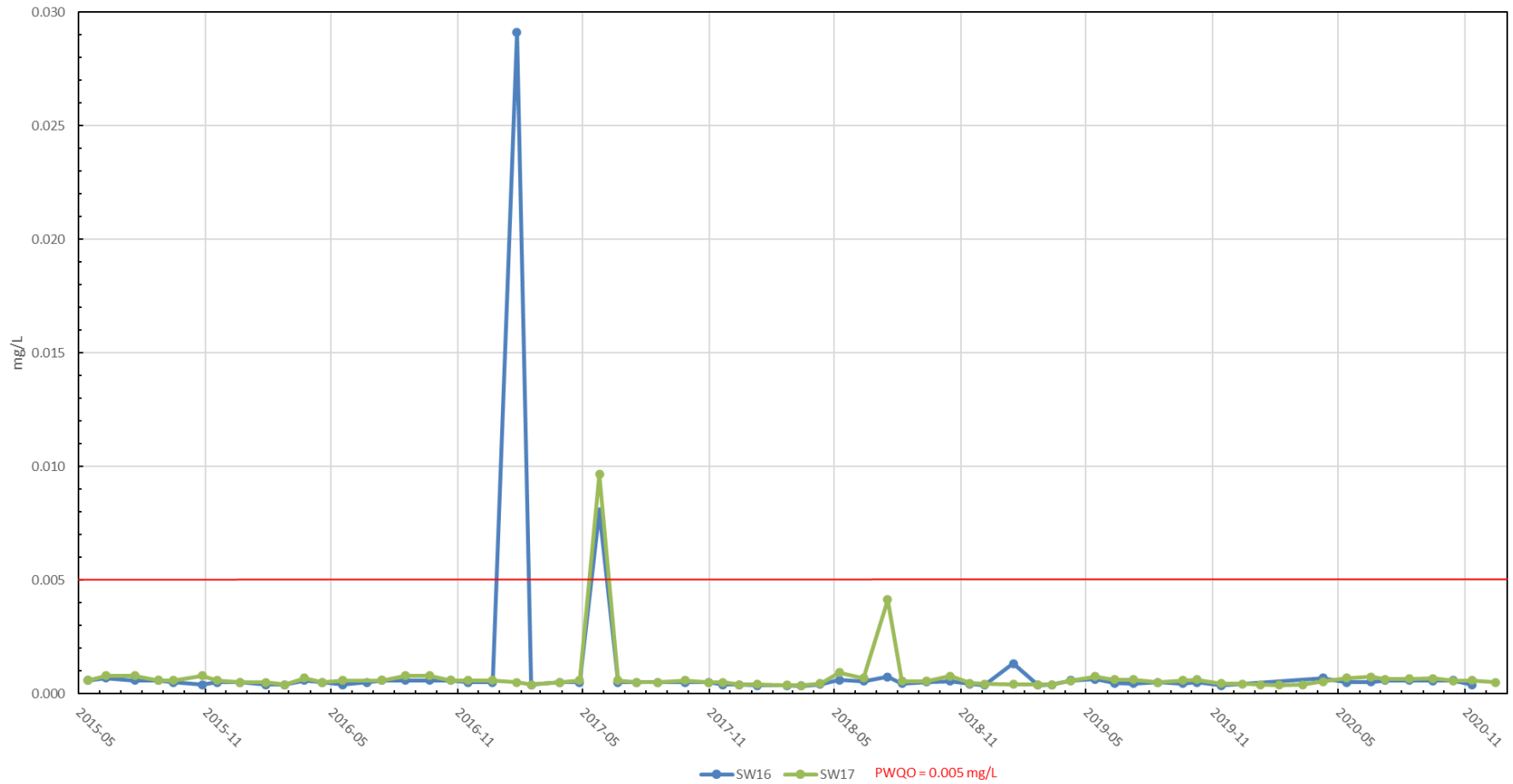


Figure 26b - Rainy River Mine, Total Arsenic in Rainy River 2020

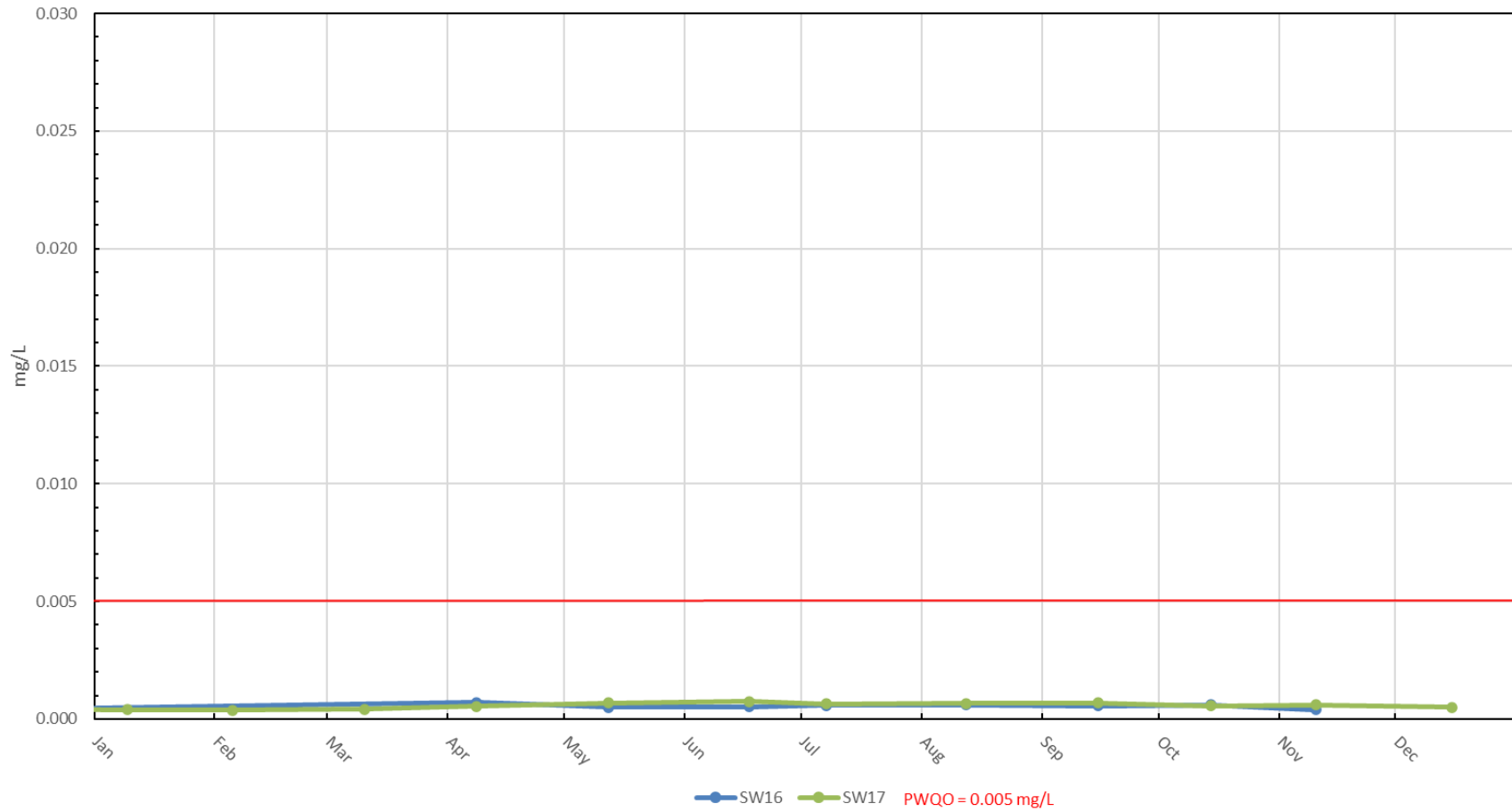


Figure 27a - Rainy River Mine, Total Copper in Rainy River 2015-2020

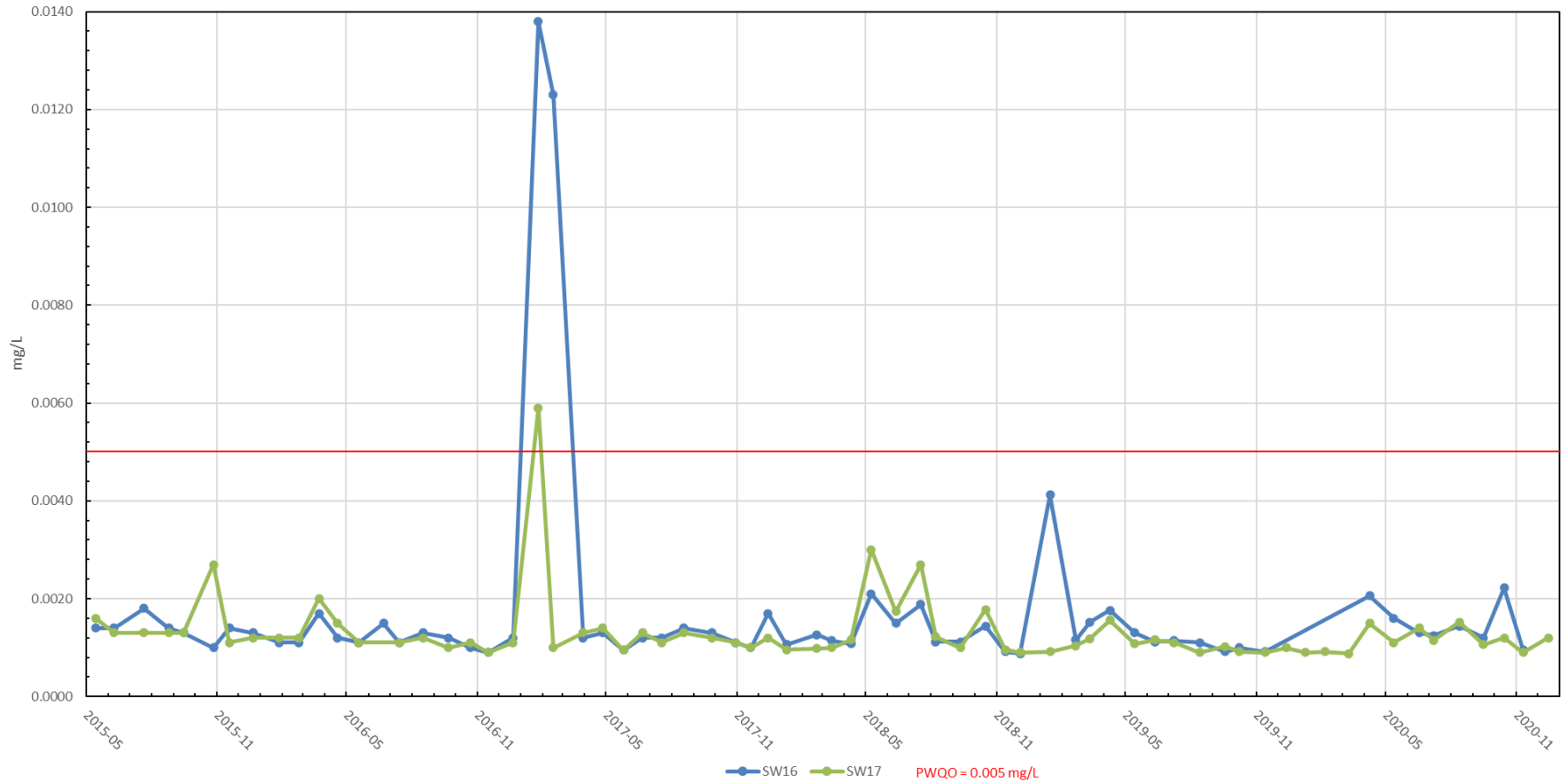


Figure 27b - Rainy River Mine, Total Copper in Rainy River 2020

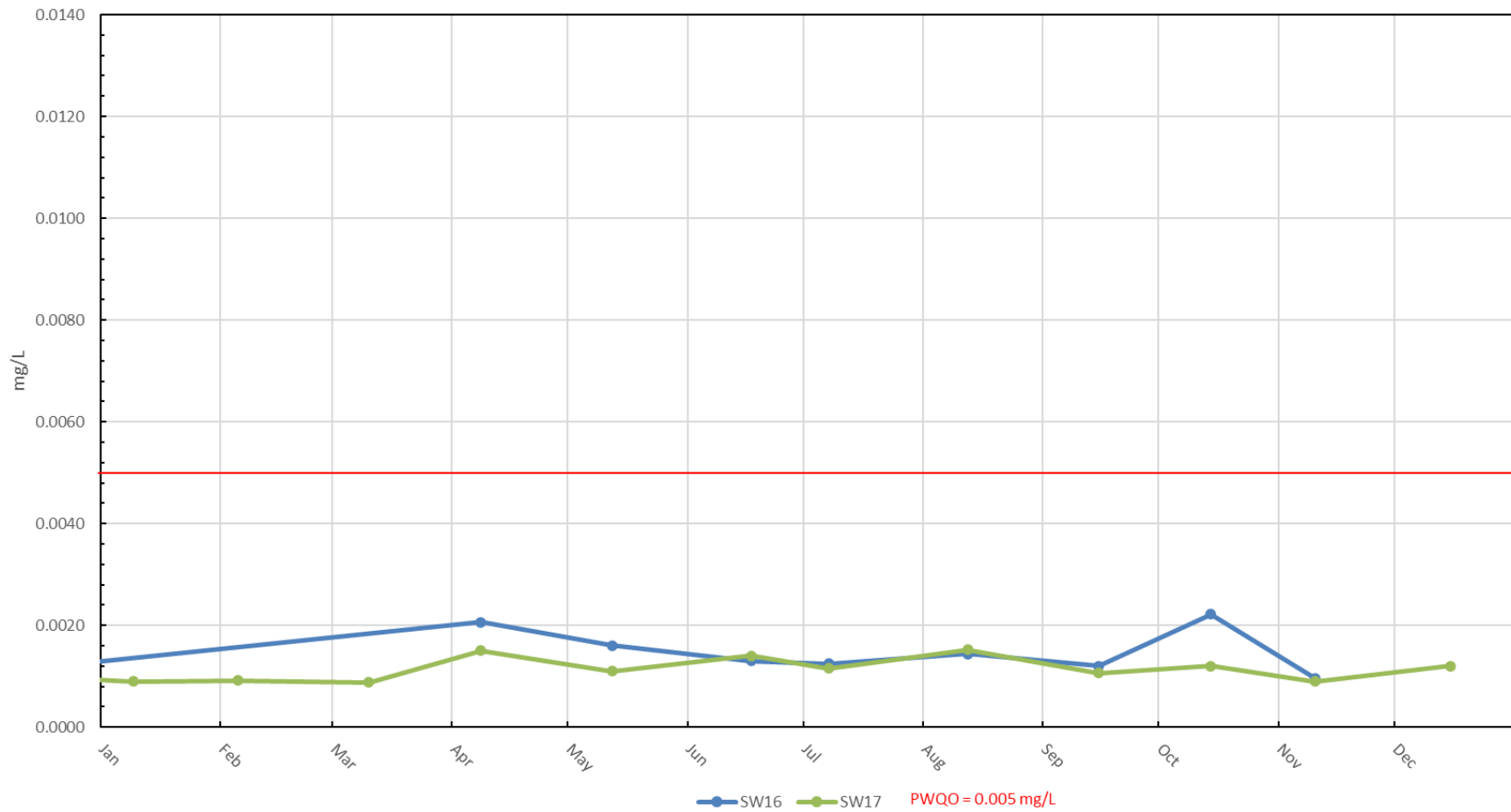


Figure 28a - Rainy River Mine, Total Lead in Rainy River 2015-2020

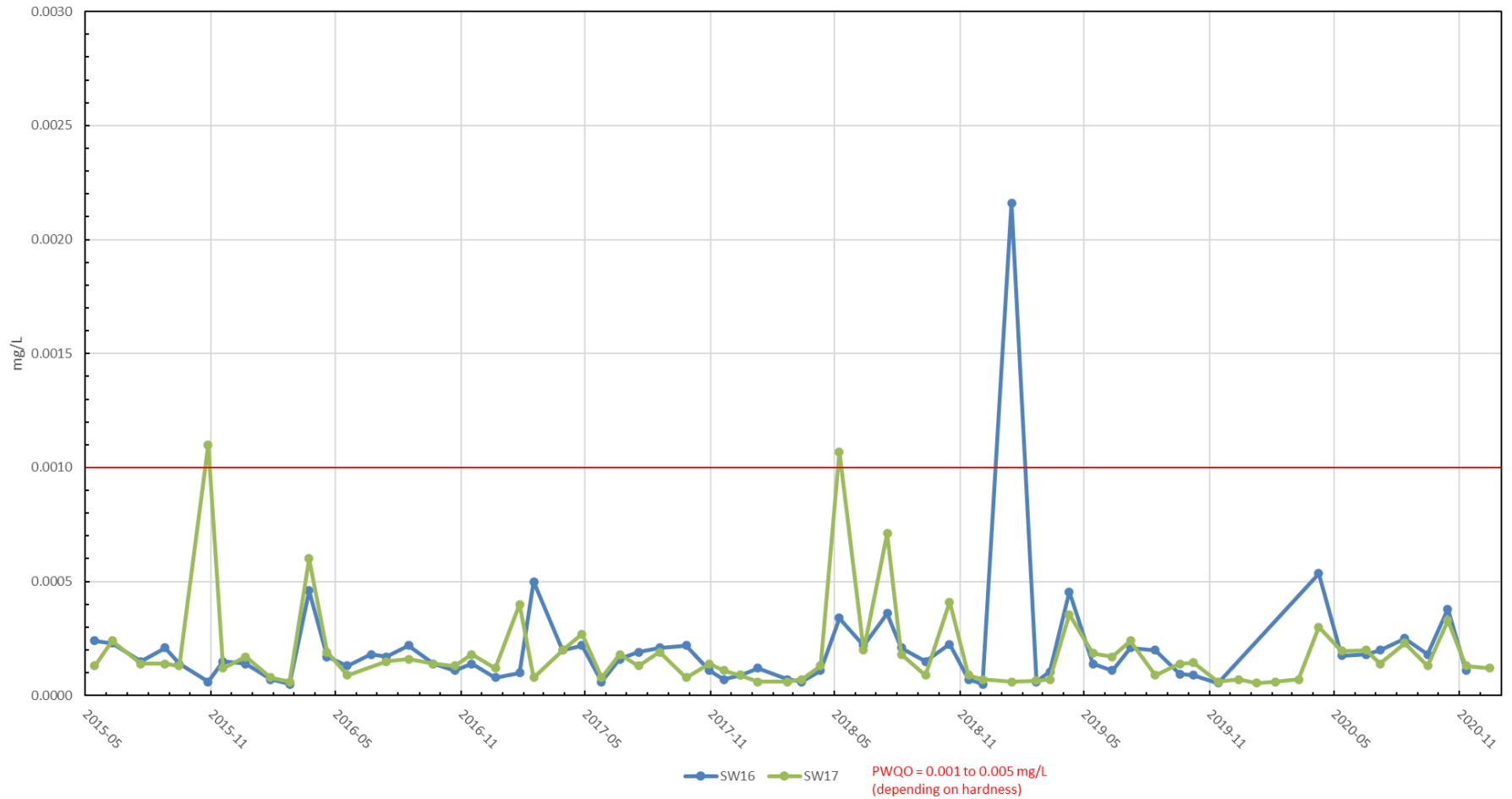


Figure 28b - Rainy River Mine, Total Lead in Rainy River 2020

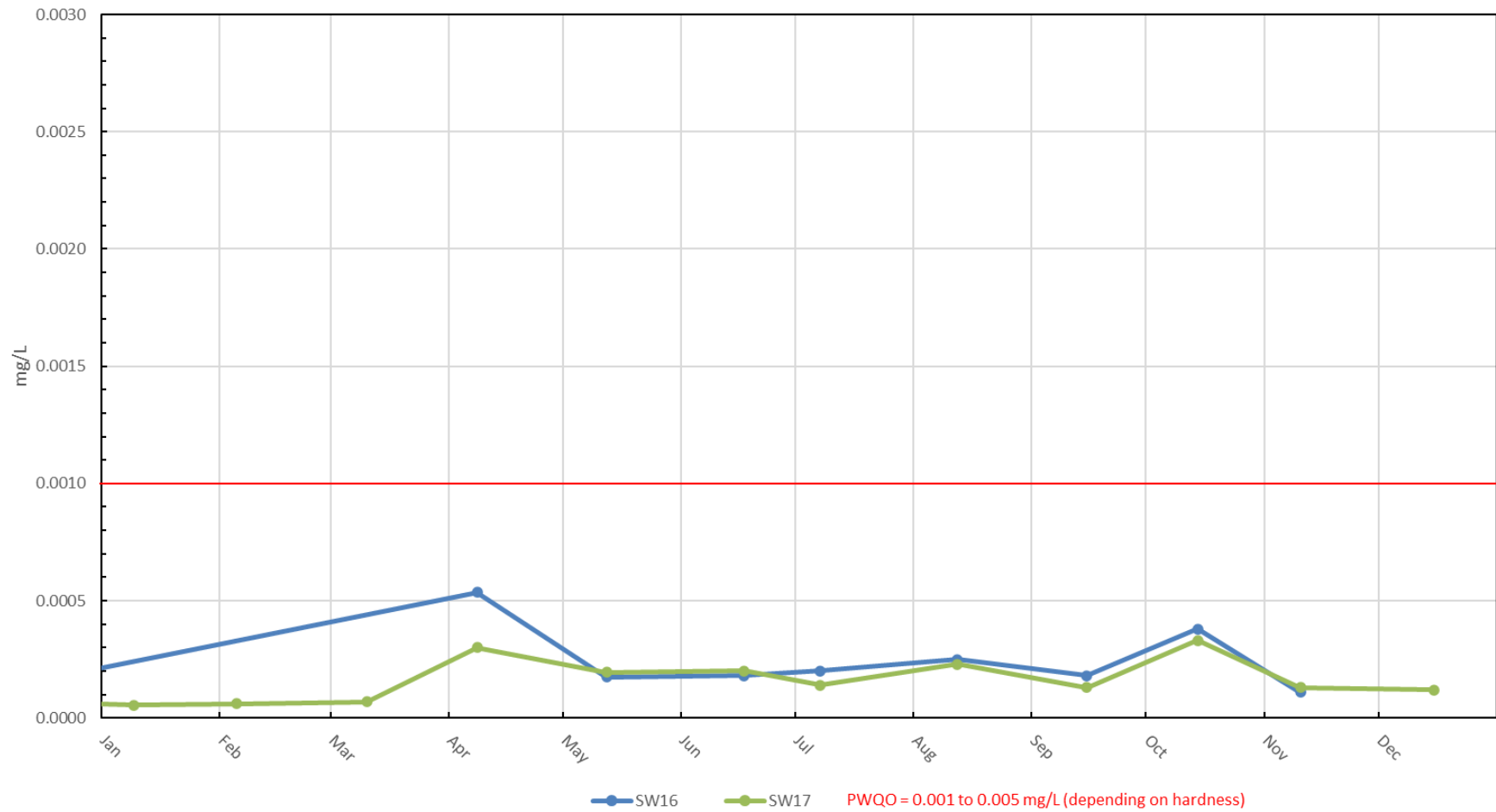


Figure 29a - Rainy River Mine, Total Nickel in Rainy River 2015-2020

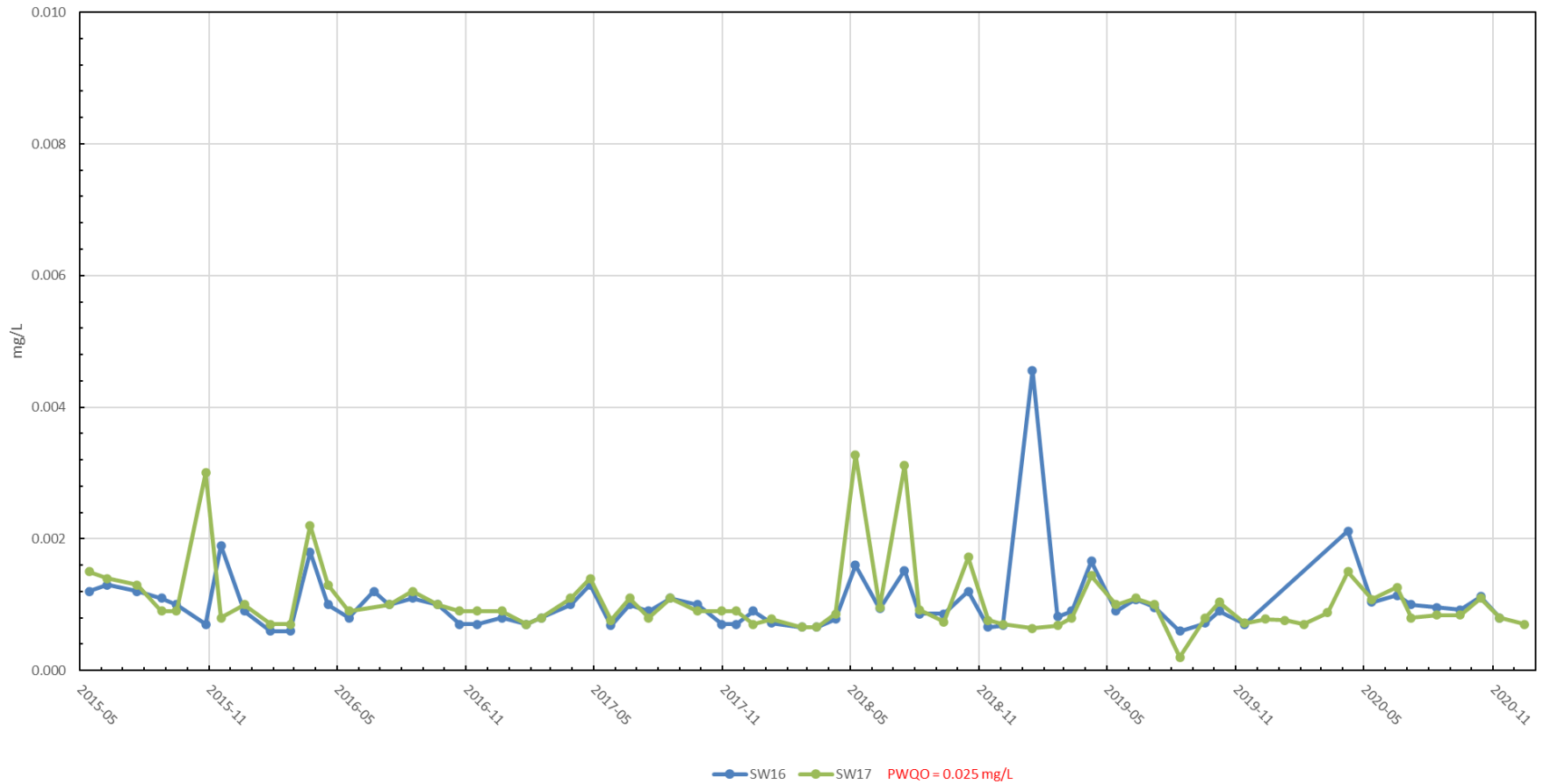


Figure 29b - Rainy River Mine, Total Nickel in Rainy River 2020

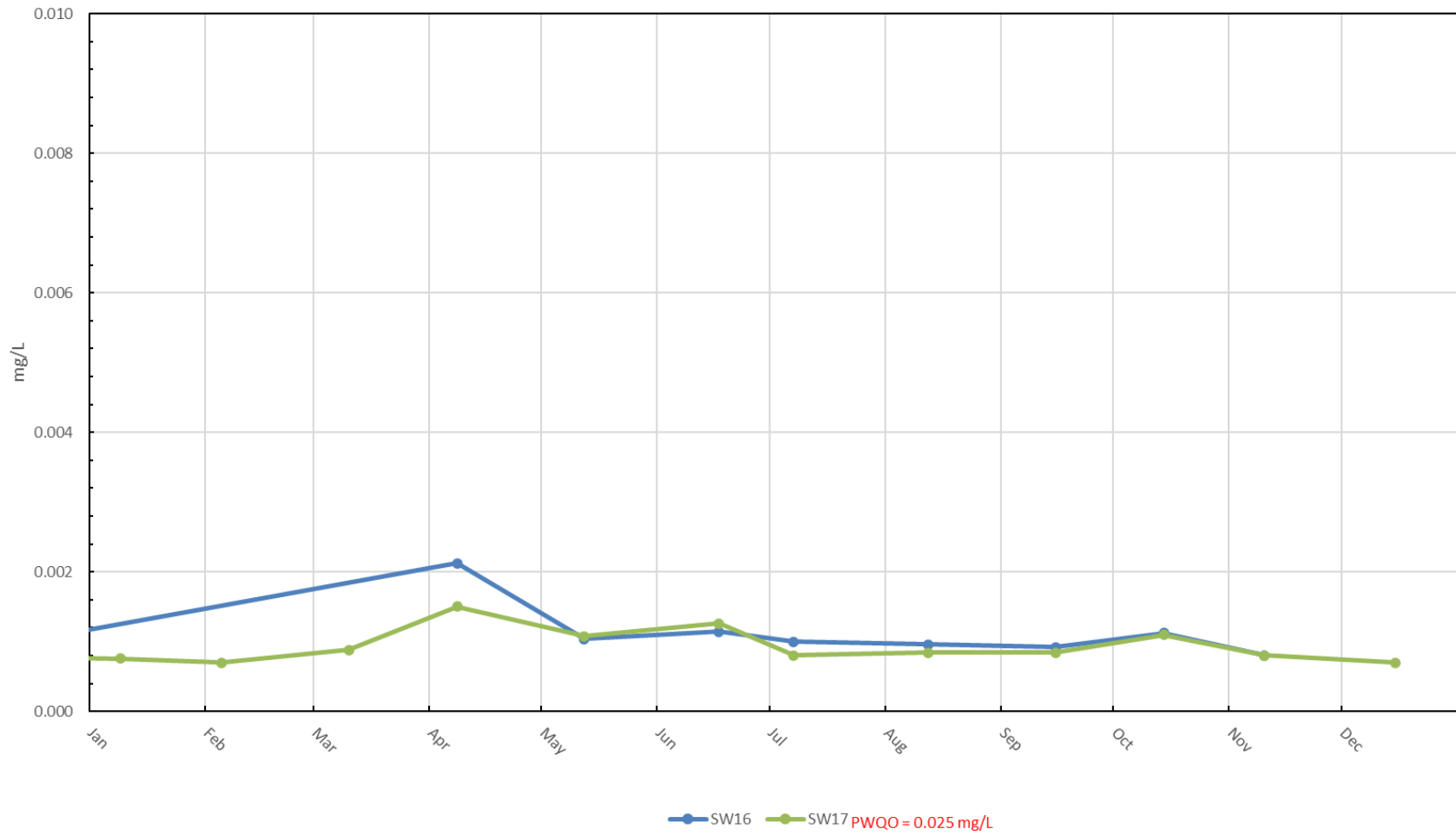


Figure 30a - Rainy River Mine, Total Phosphorus in Rainy River 2017-2020

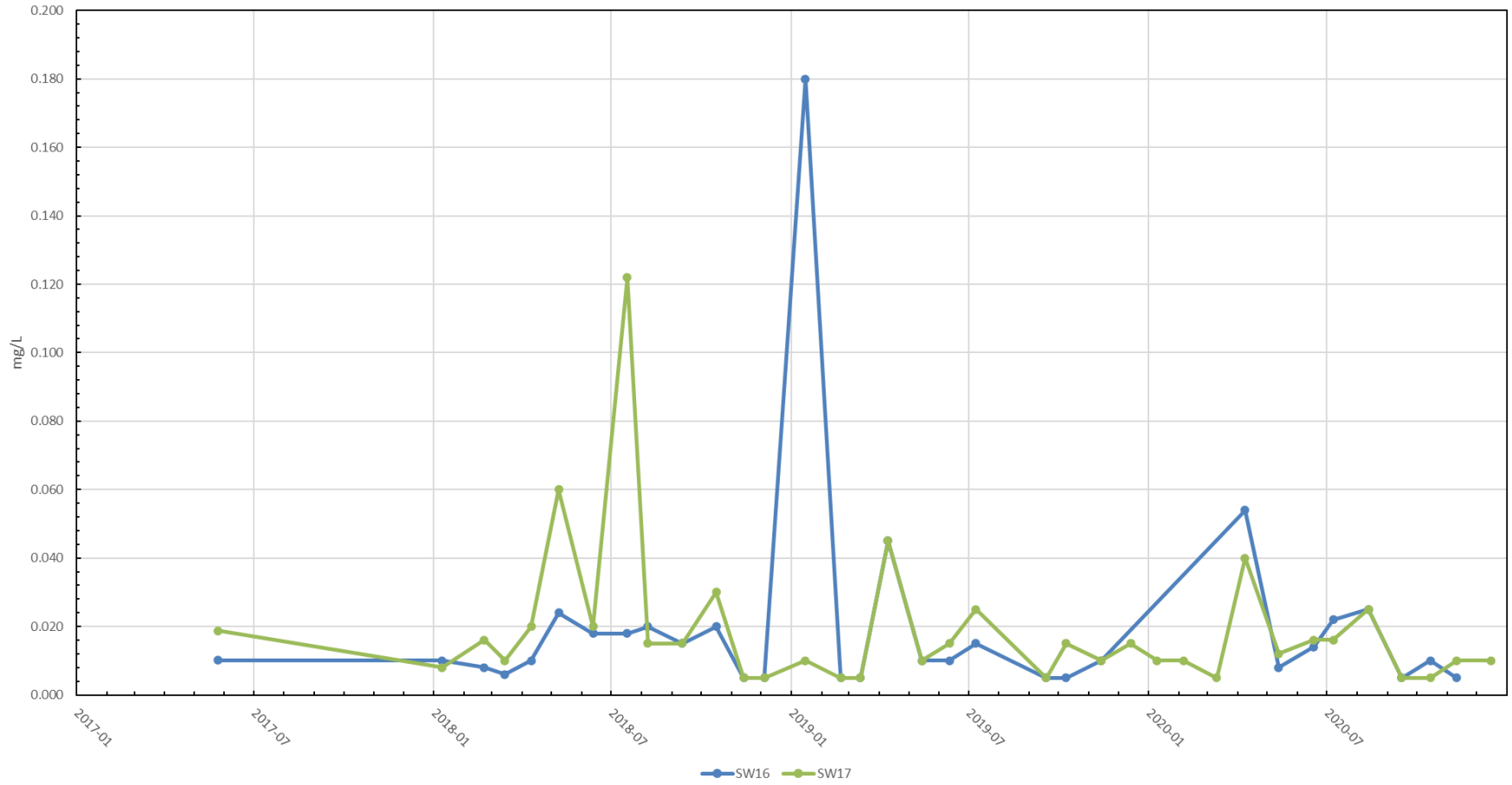


Figure 30b - Rainy River Mine, Total Phosphorus in Rainy River 2020

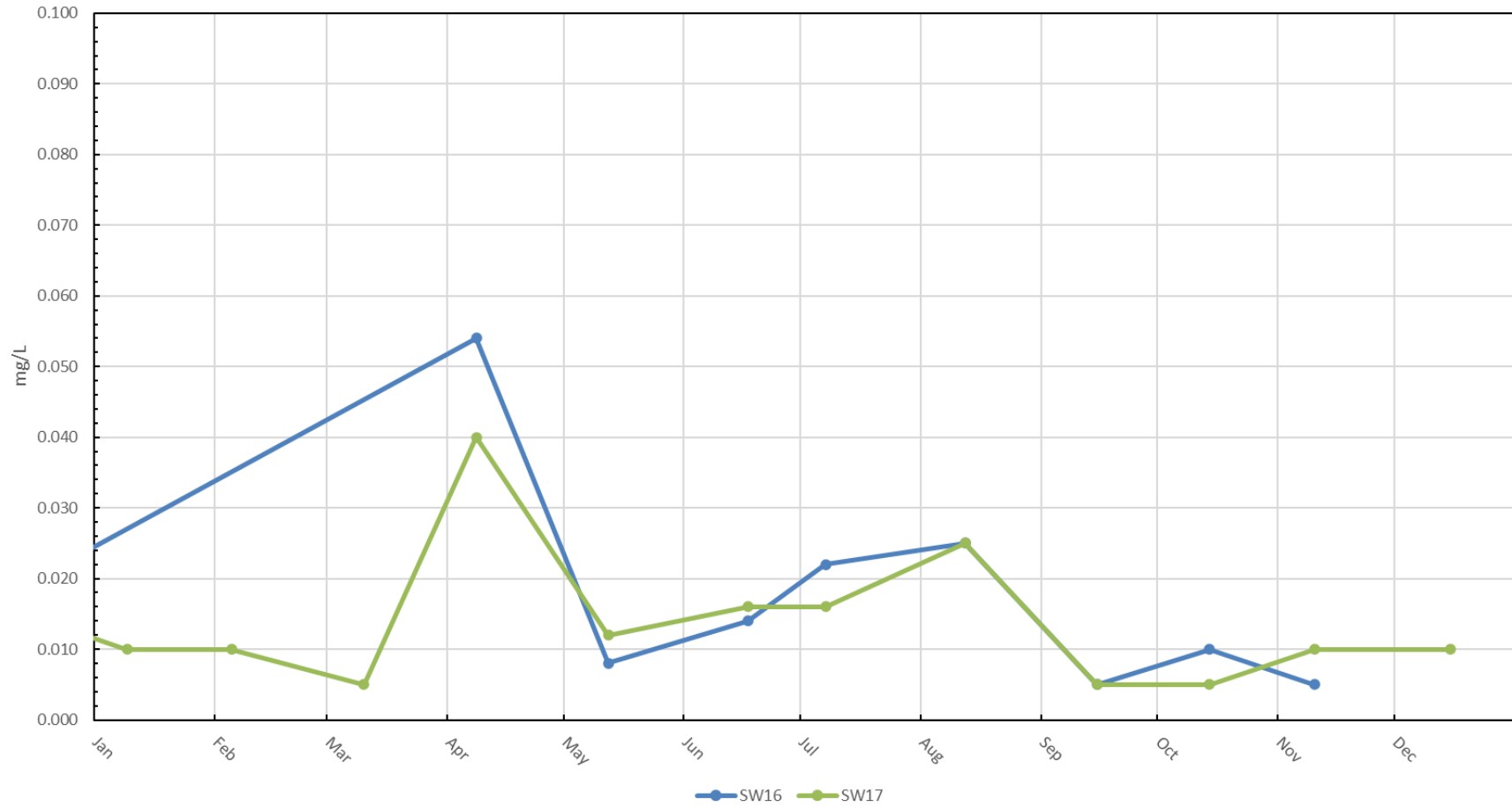


Figure 31a - Rainy River Mine, Total Zinc in Rainy River 2015-2020

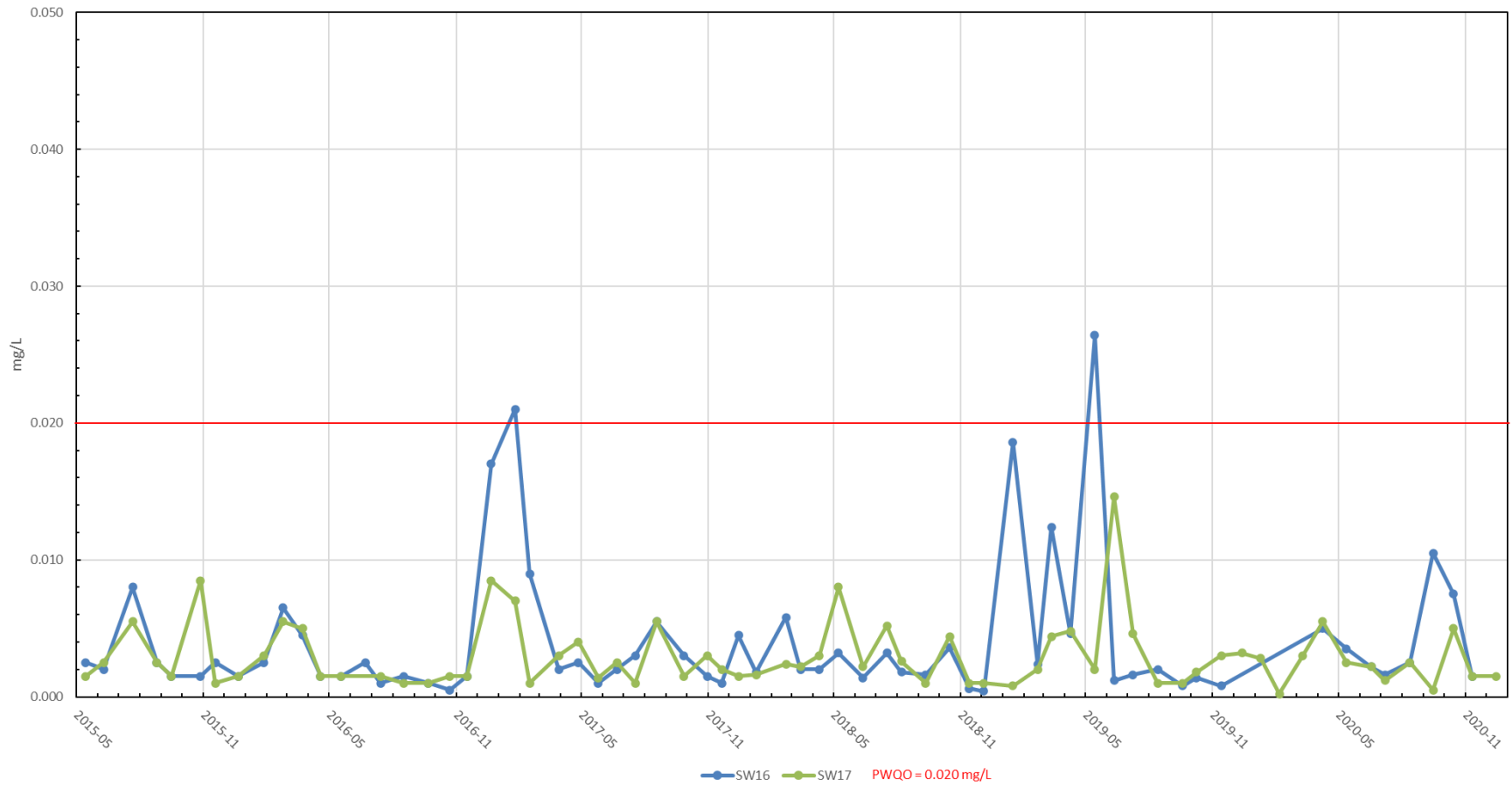


Figure 31b - Rainy River Mine, Total Zinc in Rainy River 2020

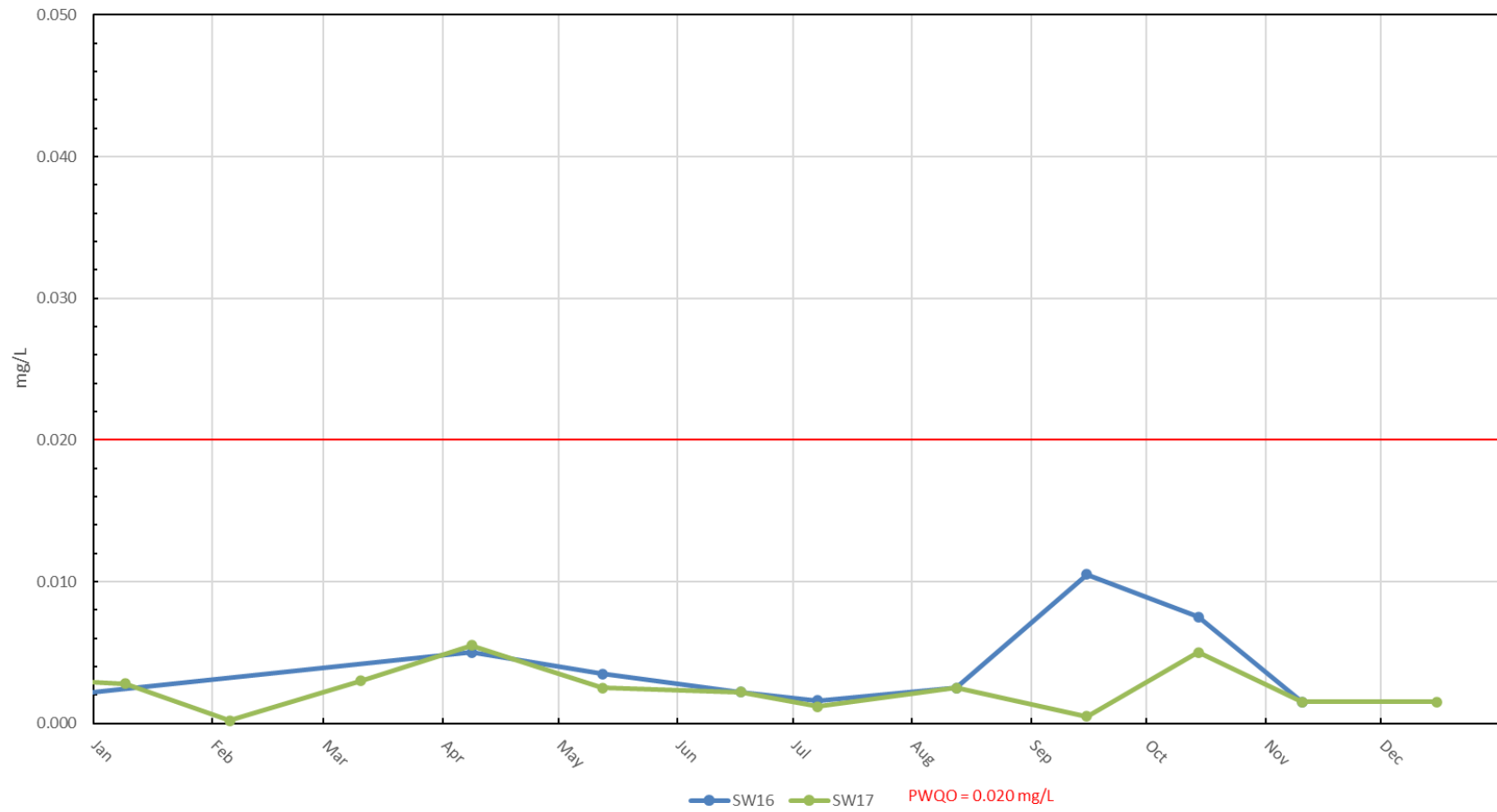


Figure 32a - Rainy River Mine, Total Mercury in Rainy River 2015-2020

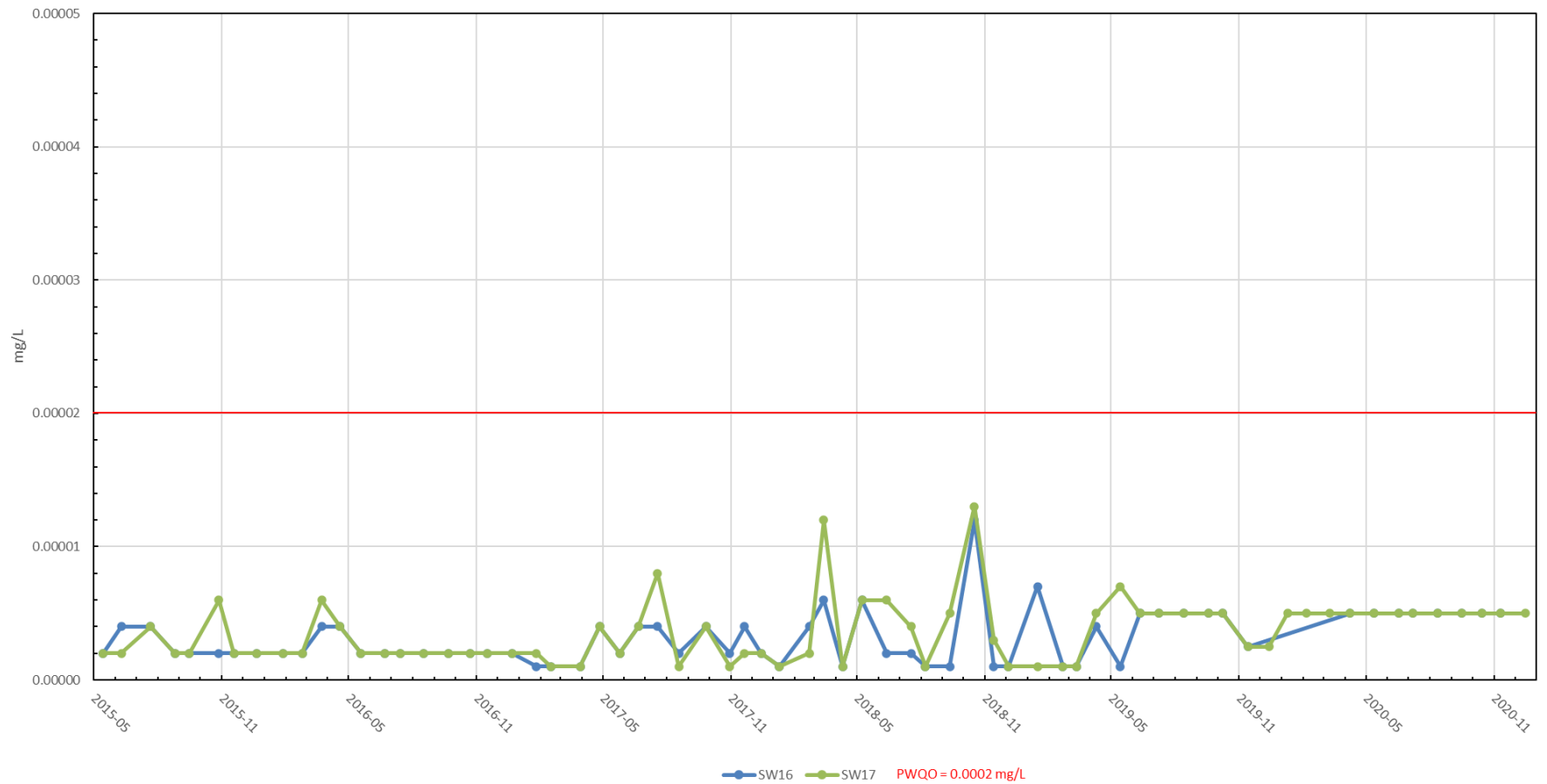


Figure 32b - Rainy River Mine, Total Mercury in Rainy River 2020

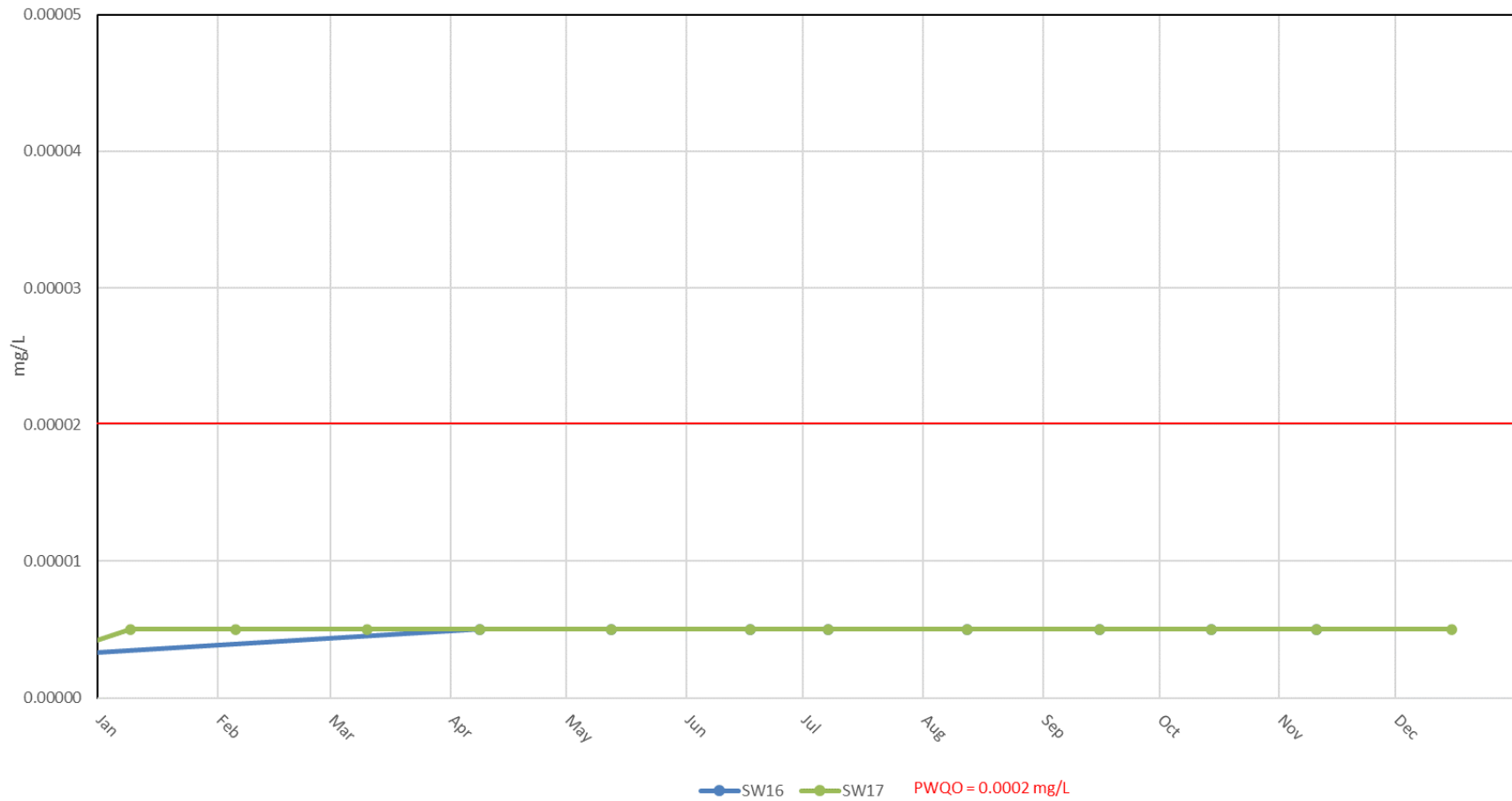


Figure 33a - Rainy River Mine, Un-ionized Ammonia in Rainy River 2015-2020

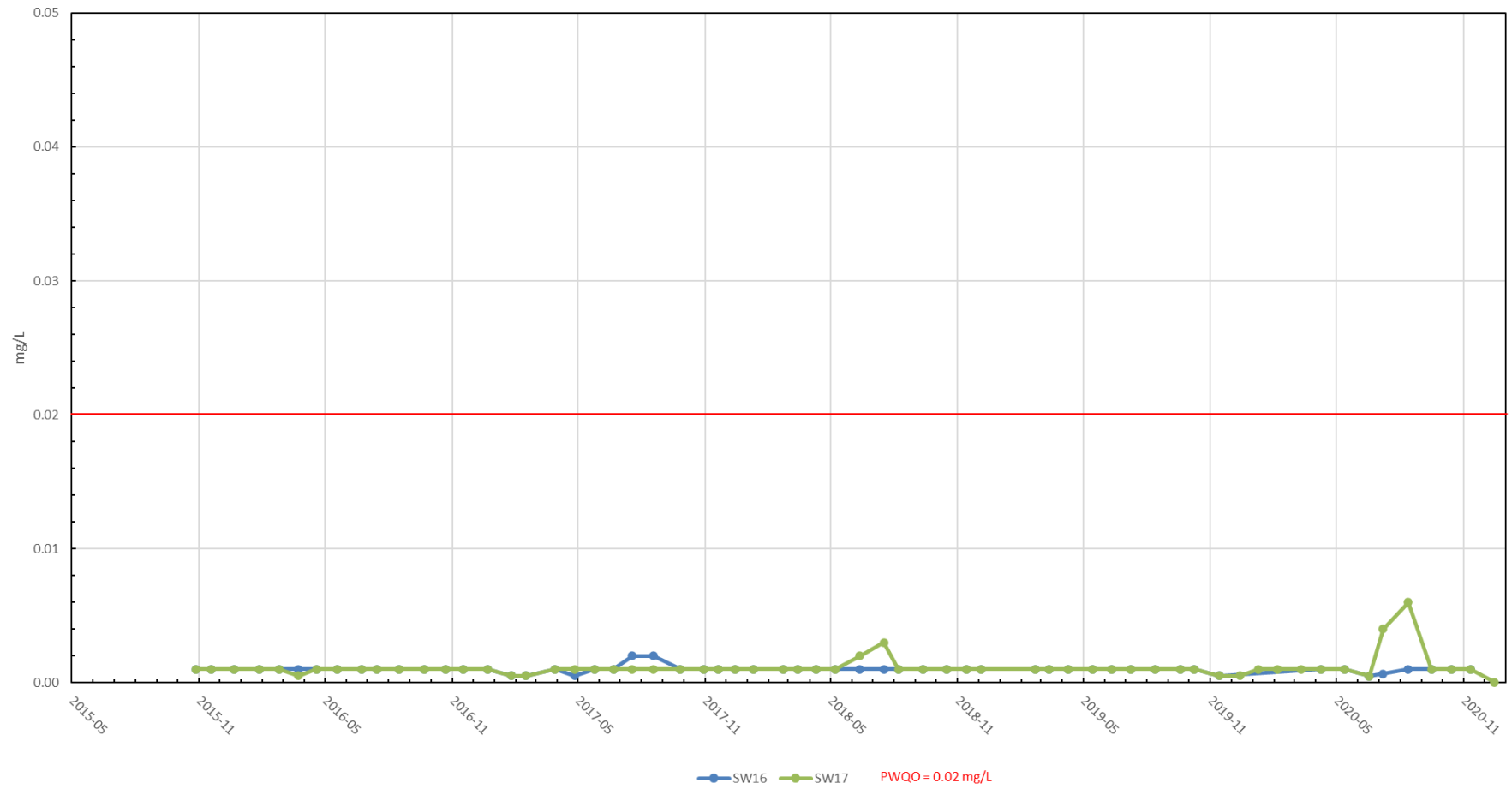


Figure 33b - Rainy River Mine, Un-ionized Ammonia in Rainy River 2020

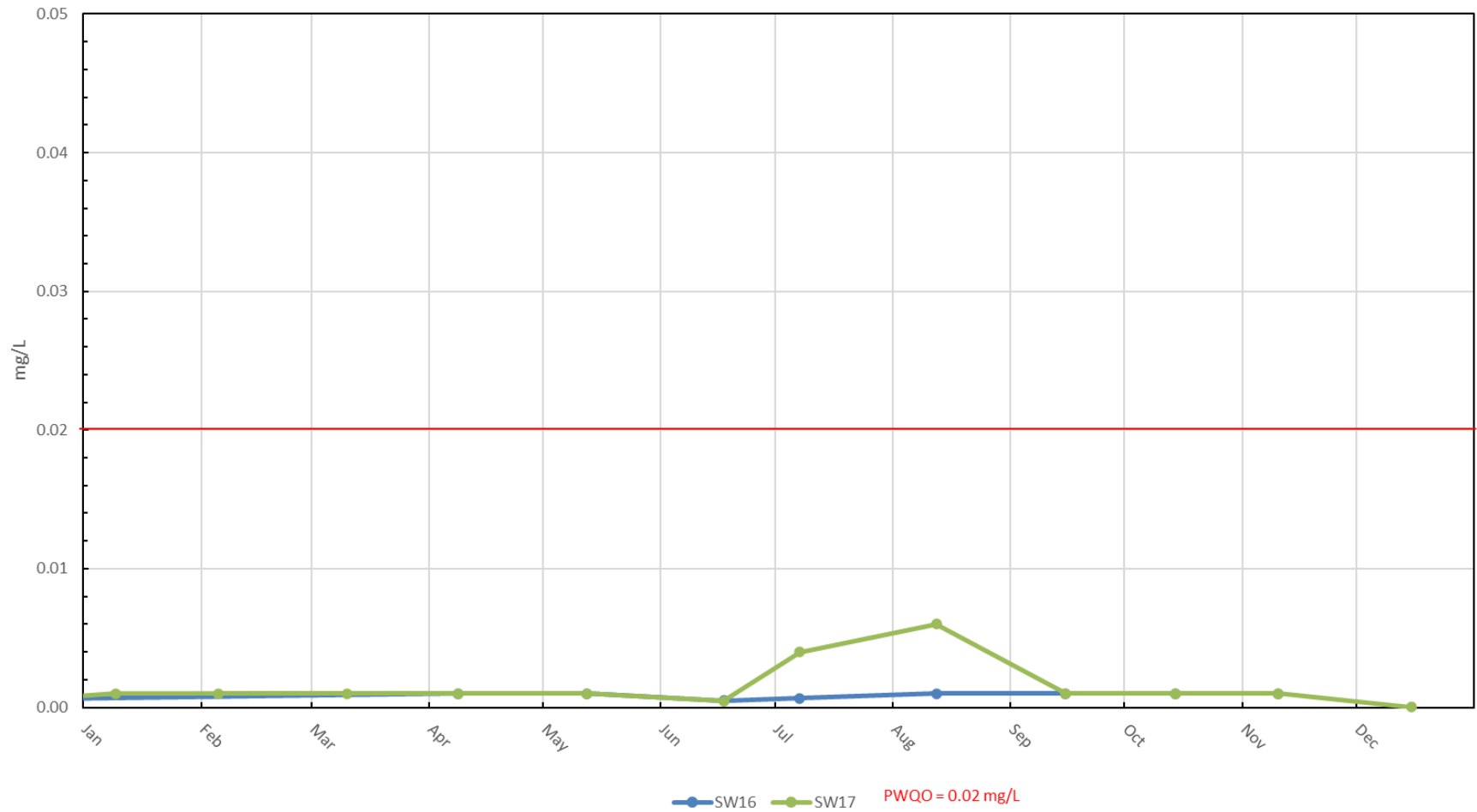


Figure 34a - Rainy River Mine, Free Cyanide in Rainy River 2018-2020

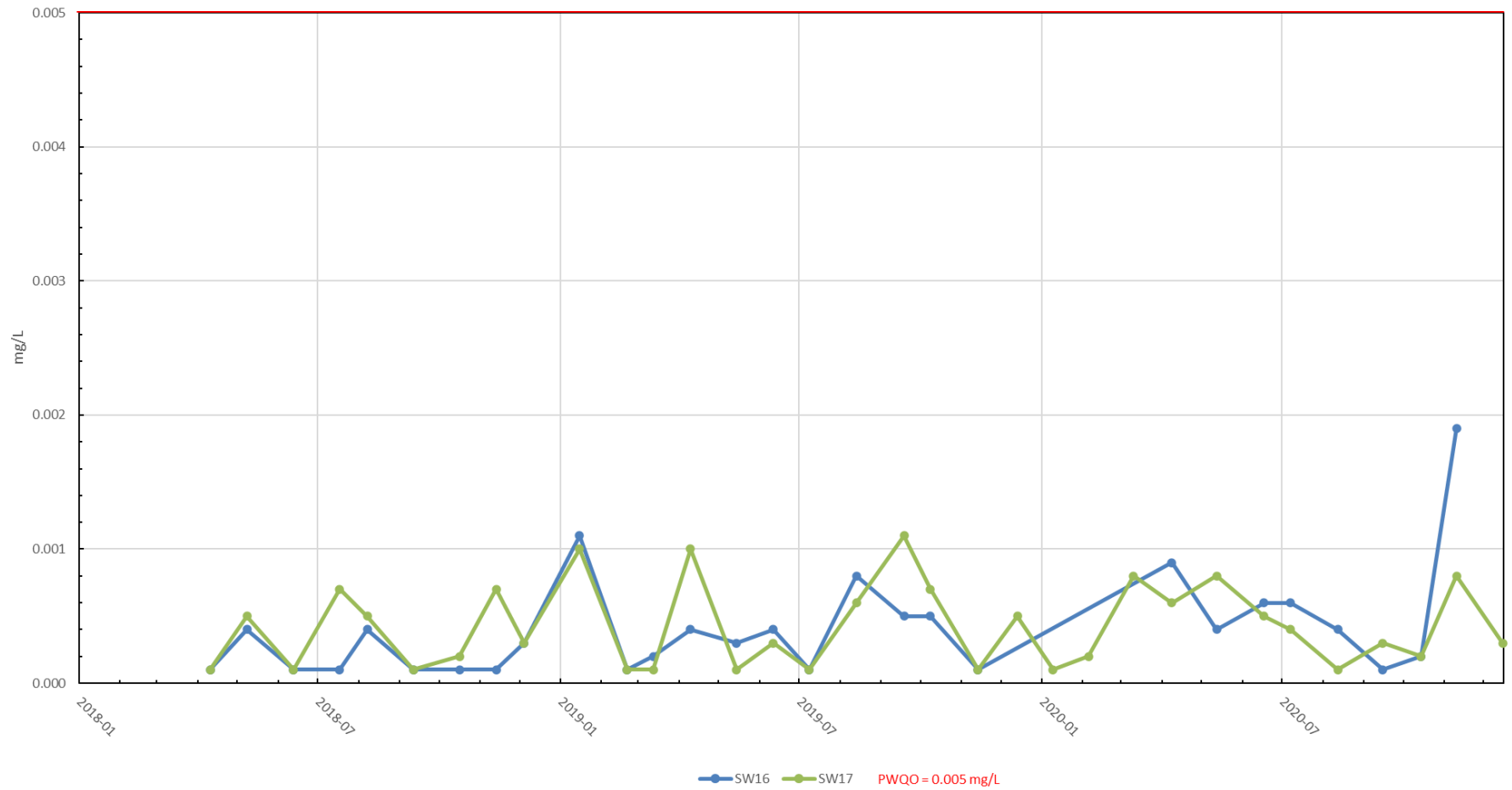
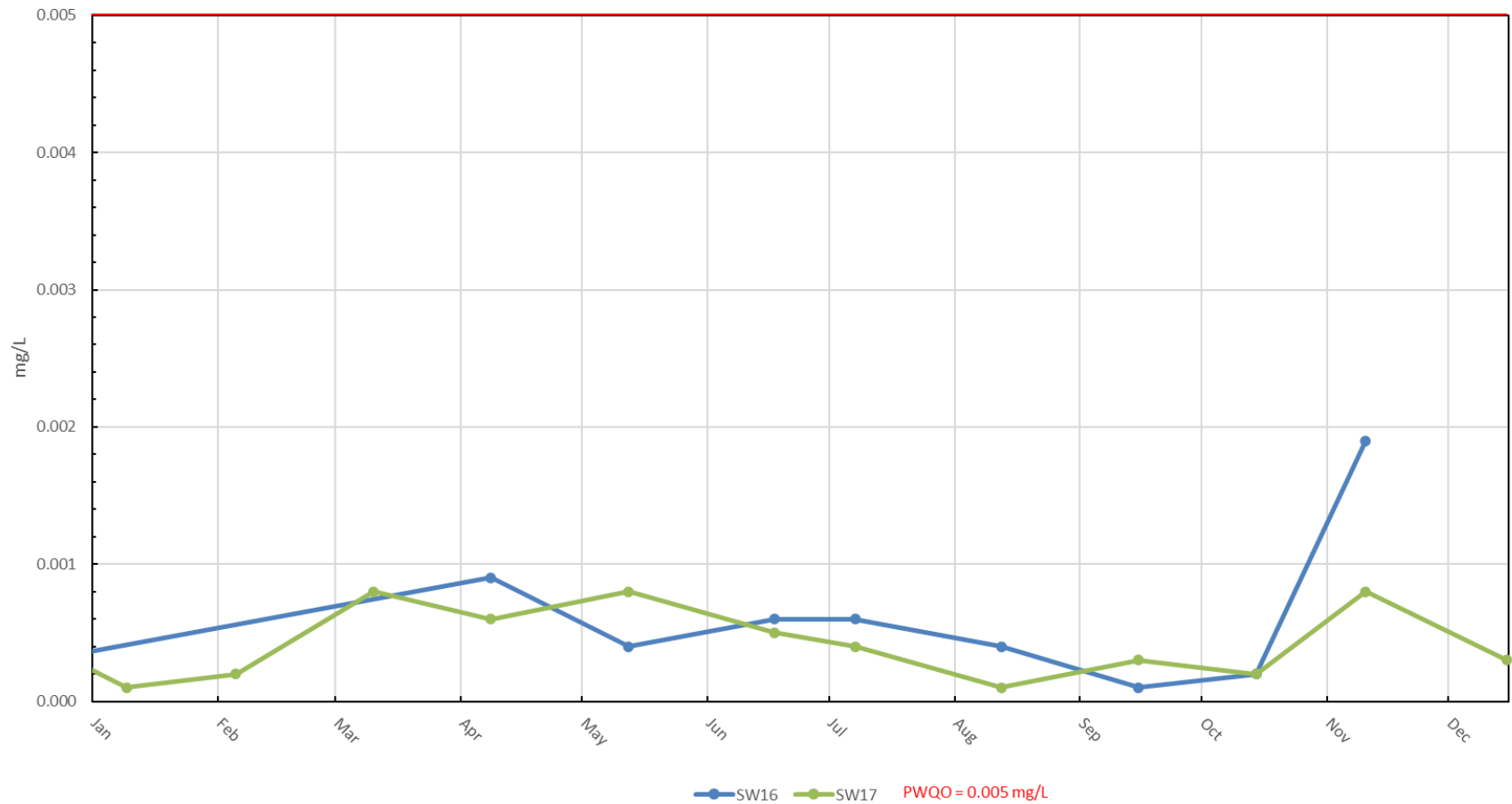


Figure 34b - Rainy River Mine, Free Cyanide in Rainy River 2020



2020 Annual Surface Water Report
Appendix A

Certification by Owner

March 23, 2021

Director
Ministry of the Environment, Conservation and Parks
Thunder Bay District Office
331-435 James St S
Thunder Bay, ON P7E 6S7

**Re: Certification regarding Rainy River Mine, 2020 Annual Surface Water Report,
Environmental Compliance Approvals #5178-9TUDP9 Conditions 8(6) and 11(5)b
#7004-BC7KQ5 Condition 12(9)**

Regarding the Rainy River Mine located in Unsurveyed Territory (Kenora Area Office), District of Rainy River, Ontario:

I certify that the information in this document and all attachments are correct, accurate and complete to the best of my knowledge.

Should you have any questions or require additional information for any part of this submission, please contact the undersigned at 807-482-0900, ext 8055.

Sincerely,

<original signed by>

Sylvie St-Jean
Environmental Manager
New Gold, Rainy River Mine

cc: MECP Northern Region Kenora Area Office

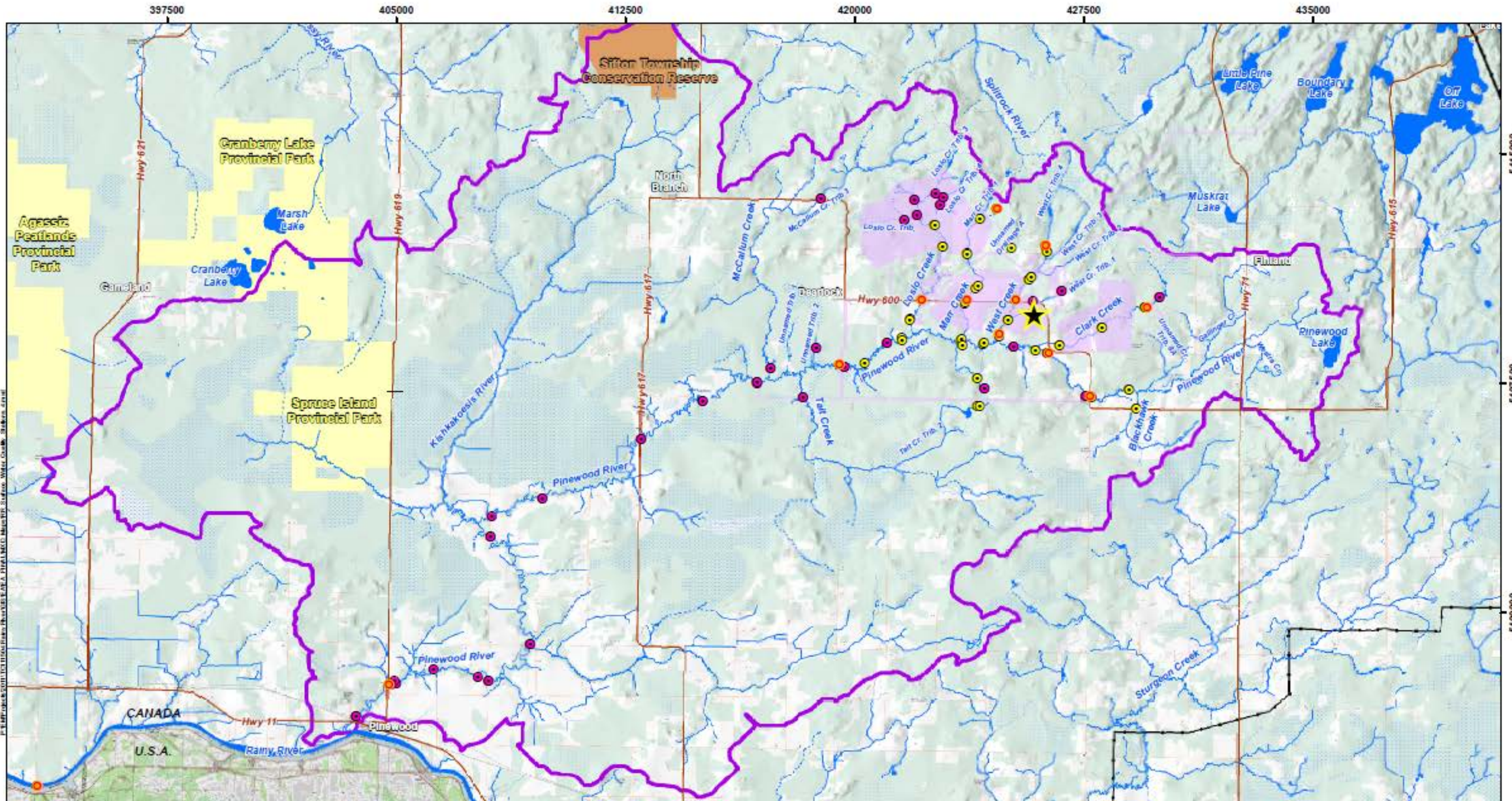


2020 Annual Surface Water Report
Appendix B

Baseline Receiver Water Quality Tables and Graphs

Table 5-4: RRP Monthly Surface Water Quality Monitoring Stations

Station	Description	Function (potential longer term function)
SW1	Pinewood River 0.3 km upstream of confluence with Clark Creek (Teeple Drain)	Background data for Pinewood River
SW2	West Creek above Highway 600	Background data for West Creek (this portion of West Creek to be diverted by RRP development)
SW3	Pinewood River at Pinewood River Road approximately 3 km downstream of confluence with Loslo Creek (Cowser Drain)	Pinewood River downstream station (permanent downstream station)
SW4	Unnamed Creek which drains Muskrat Lake, Rainy Lake catchment	Small creek control site outside of RRP influence (permanent reference station)
SW7A	West Creek above confluence with Pinewood River	Background data for West Creek (this portion of West Creek to be diverted by RRP development)
SW10	Pinewood River at Highway 600	Long term Pinewood River control station, positioned upstream of all proposed developments (permanent upstream station)
SW11	Clark Creek (Teeple Drain) 1.5 km north of Township landfill	Background data for Clark Creek (Clark Creek / Teeple Drain to be displaced by RRP development)
SW12A	Marr Creek 3.8 km above Highway 600	Background data for Marr Creek (Marr Creek to be displaced by RRP development)
SW13	Loslo Creek above Highway 600	Background data for Loslo Creek (Loslo Creek to be extensively displaced / modified by RRP development)
SW14	West Creek 2.5 km above Highway 600	Background data for West Creek (this portion of West Creek to be diverted by RRP development)
SW15	Pinewood River approximately 2 km above confluence with Rainy River	Pinewood River furthest downstream station (permanent downstream station)
SW16	Rainy River approximately 40 km upstream of confluence with Pinewood River	Rainy River upstream station (permanent upstream station)
SW17	Rainy River approximately 12 km downstream of confluence with Pinewood River	Rainy River downstream station (permanent downstream station)
SW18	Marr Creek at Highway 600	Background data for Marr Creek (Marr Creek to be displaced by RRP development)



LEGEND

- ★ RRP Site
- Approximate Principal RRP Facilities
- Regional Road / Highway
- Permanent Watercourse
- Intermittent Watercourse
- Transmission Line
- Waterbody
- Pinewood River Watershed
- First Nation Reserve
- Conservation Reserve (Regulated)
- Provincial Park

Water Quality Sampling Locations (within study area)

- Water Quality Sampling Location (AMEC 2012)
- Water Quality Sampling Location (AMEC 2011)
- RRR Monthly Surface Water Quality Stations

NOTES:
 - All base data on this map was extracted from Land Information Ontario (LIRIS), Queen's Printer for Ontario, 2011-2012 and NRCan Toporama 1:50,000 NTS DRG map sheets, 2011
 - USA land extracted from ESRI base map service, USGS Topo maps

Datum: NAD83
 Projection: UTM Zone 18N

newgold Rainy River Project **amec**

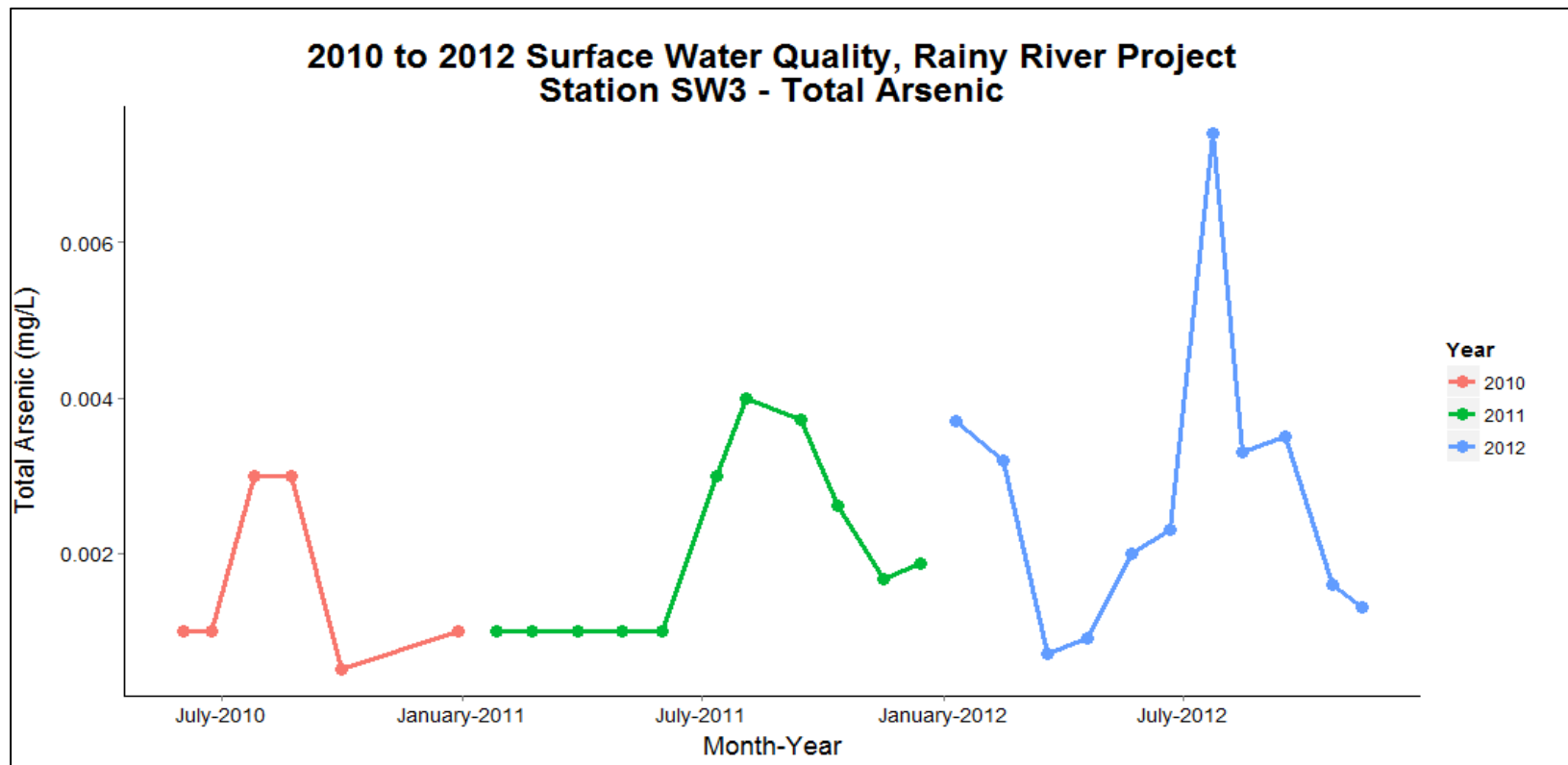
RAINY RIVER PROJECT

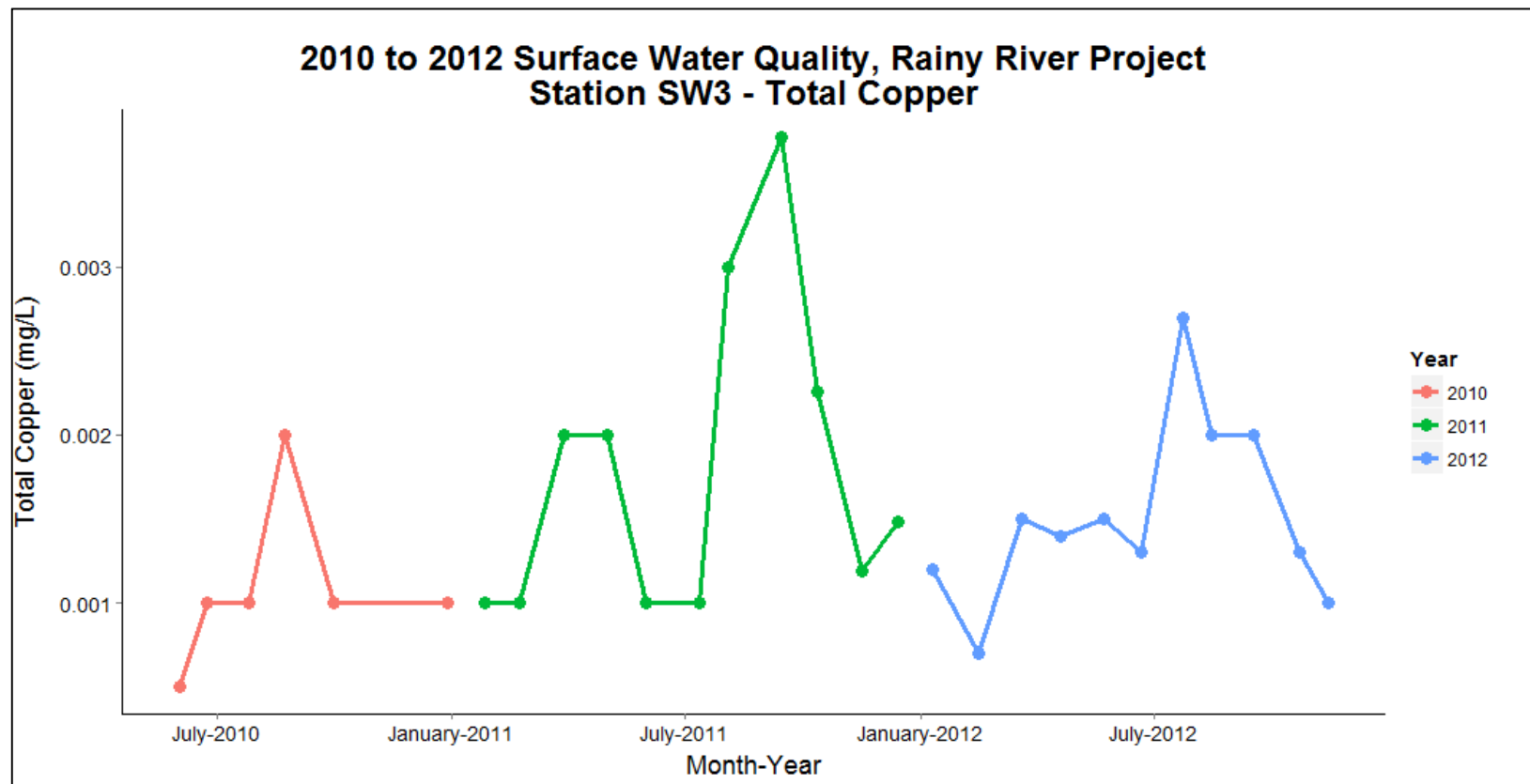
Surface Water Quality Stations

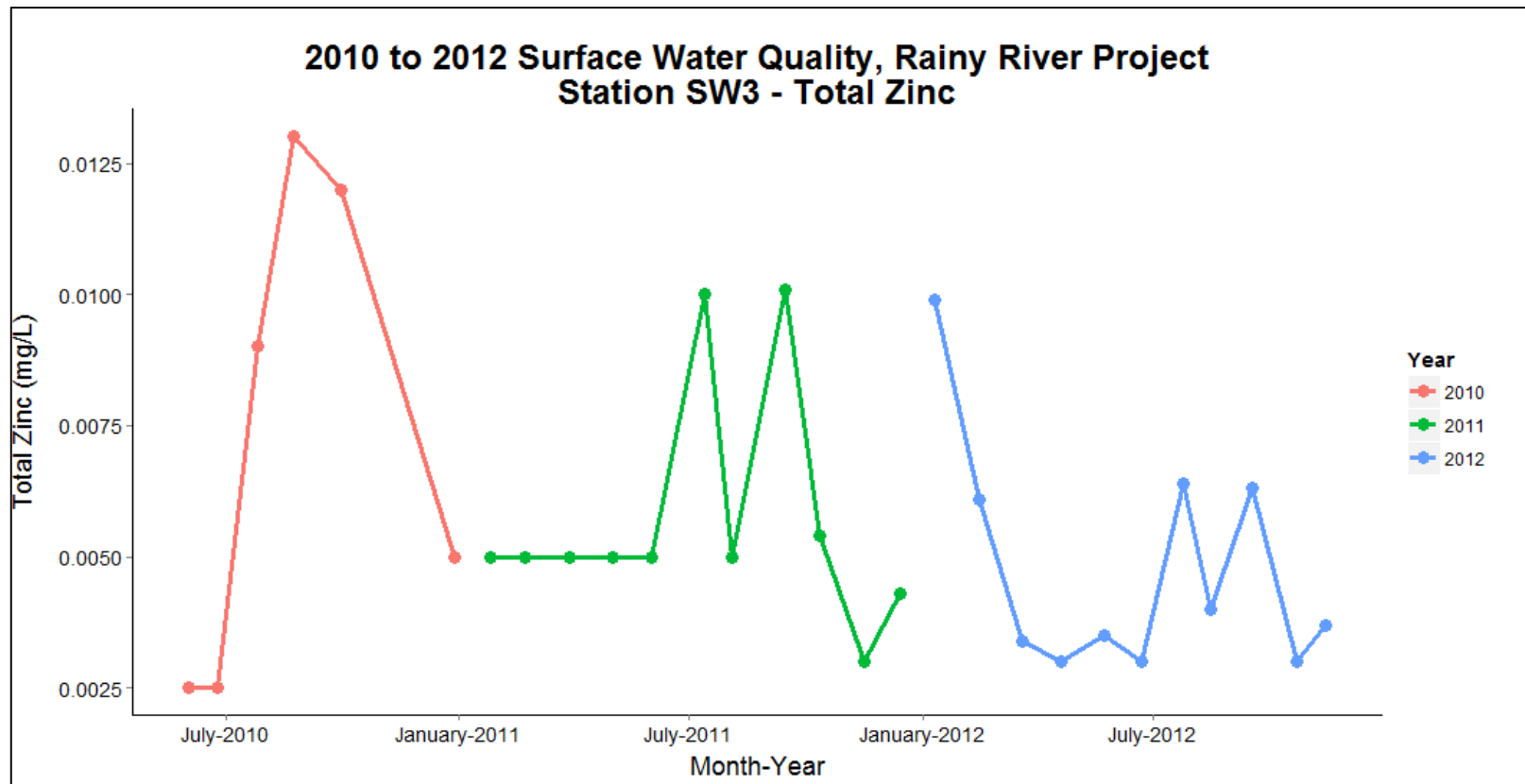
PROJECT N^o: TC111504 FIGURE: 5-9

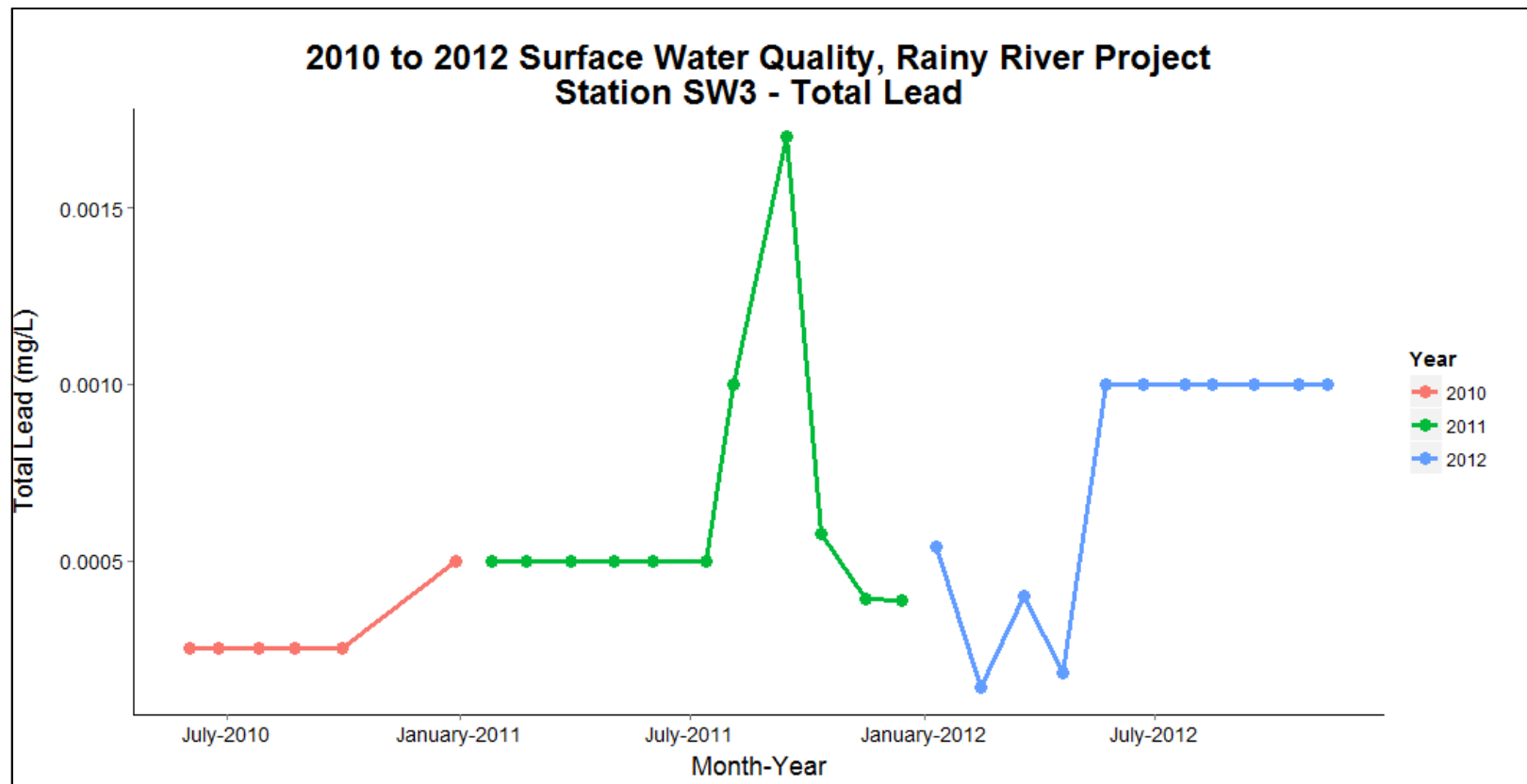
SCALE: 1:119,500 DATE: October 2013

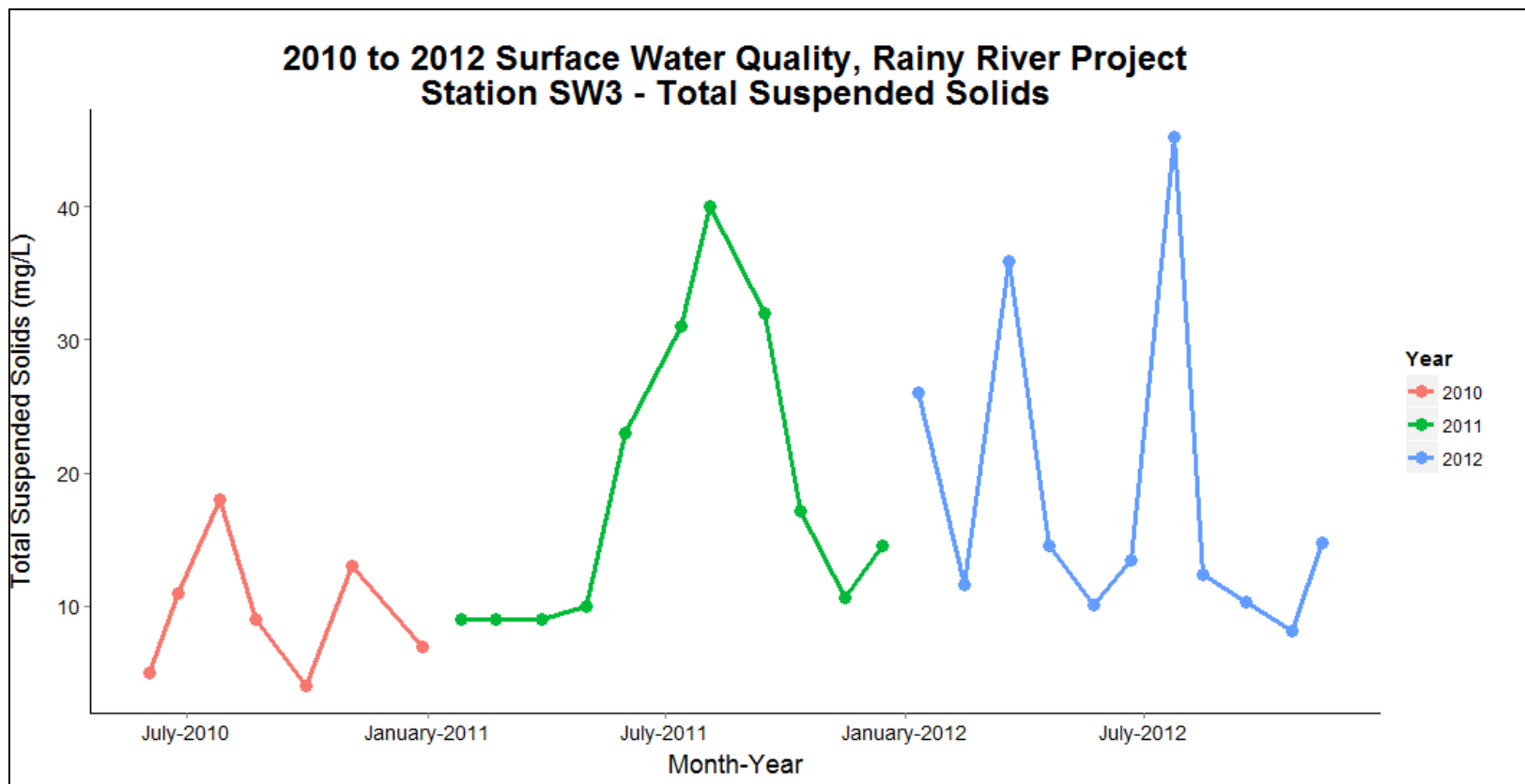


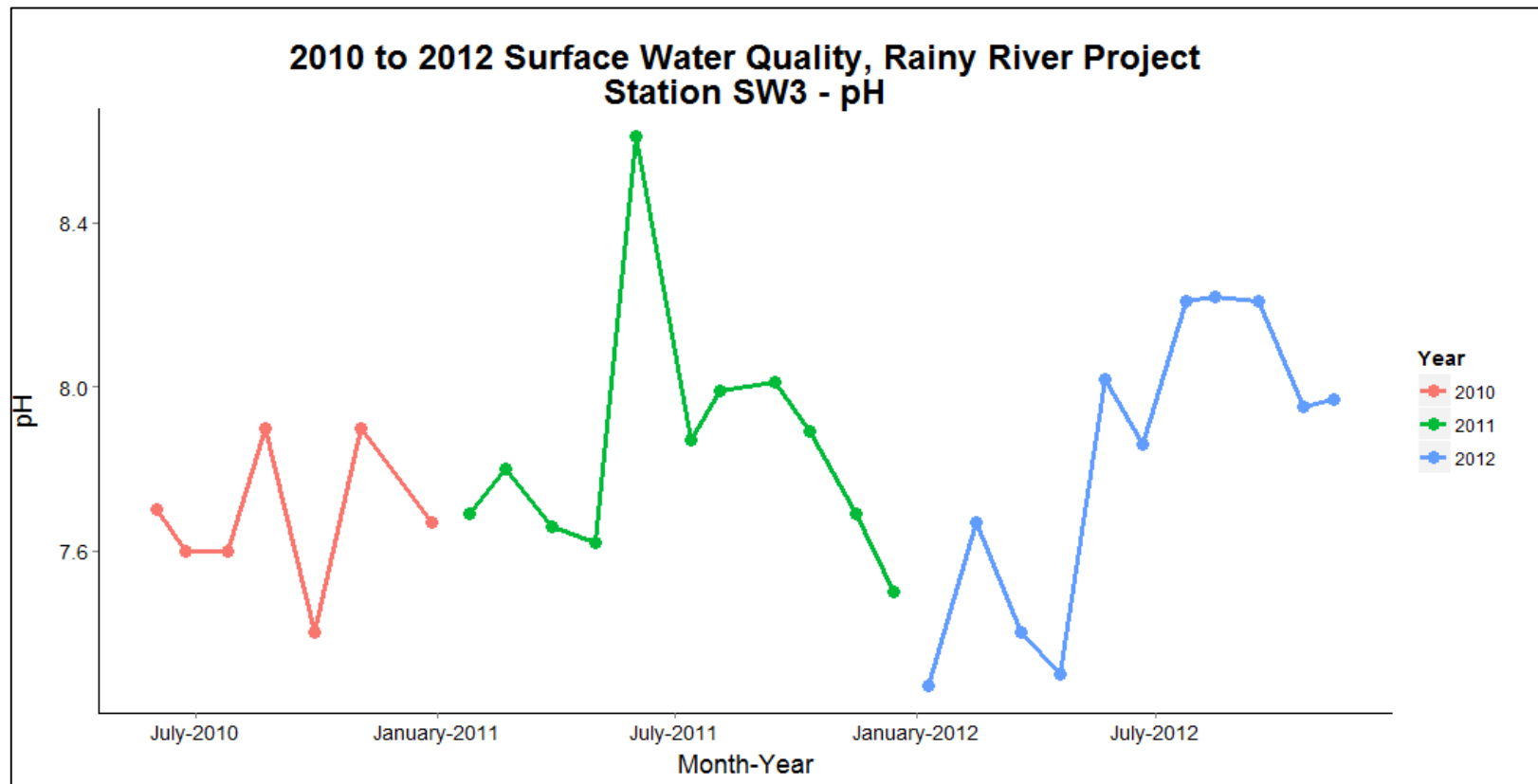


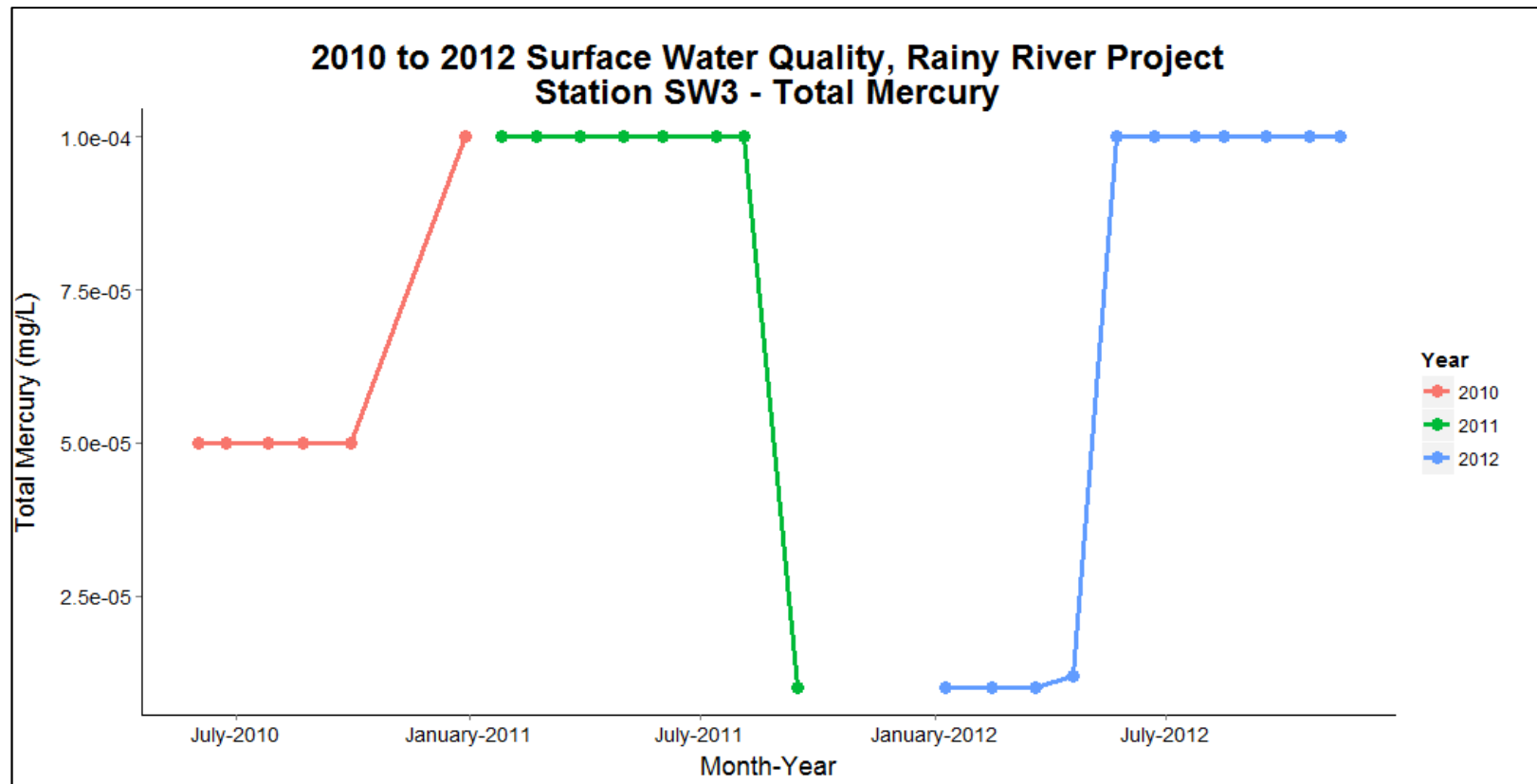


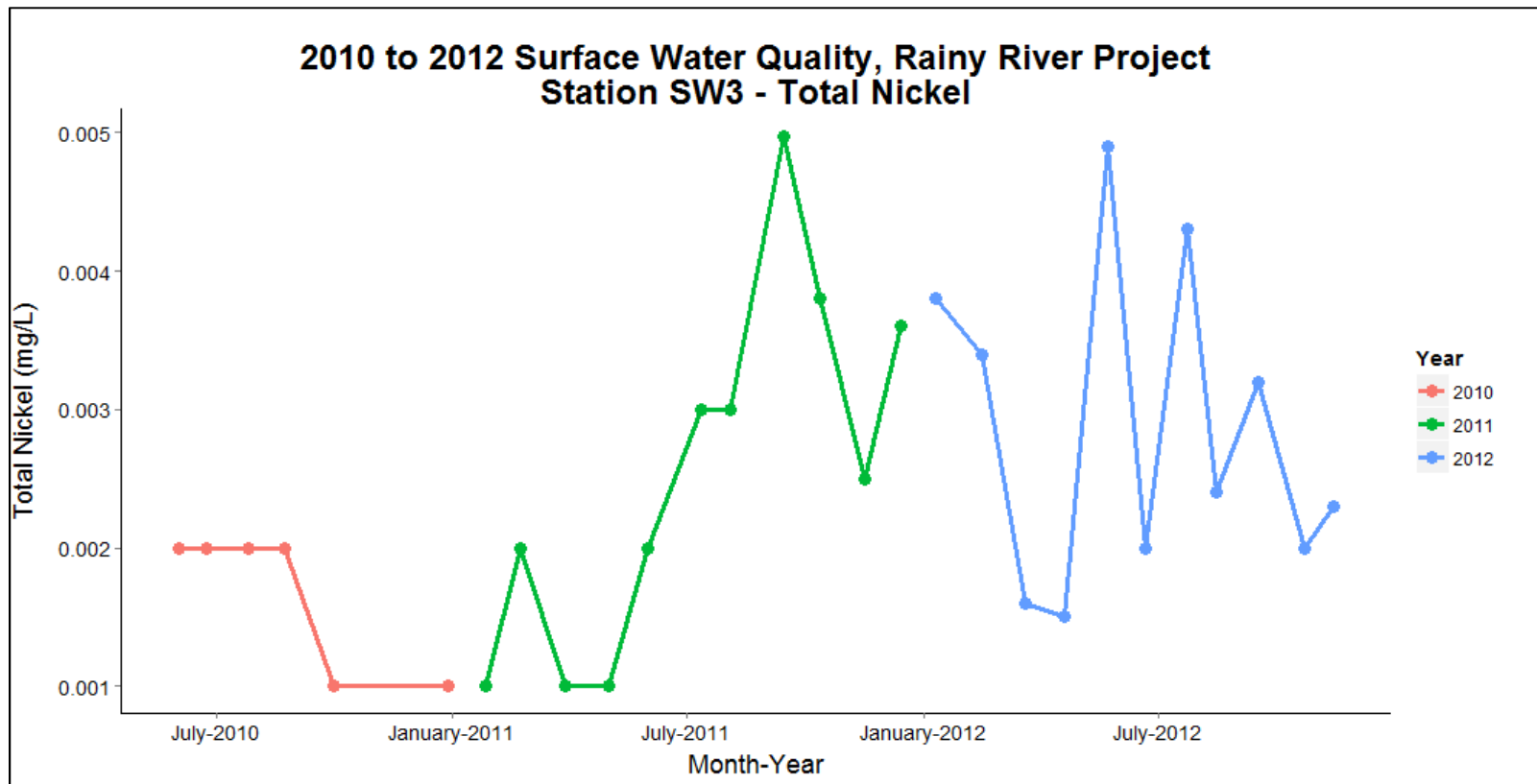












2020 Annual Surface Water Report
Appendix C

Monthly Surface Water Tables

Table C1: January 2020 Surface Water Quality for Selected Parameters

Receiver	Parameter Unit	Field pH pH units	Field Temperature °C	Conductivity µS/cm	Hardness mg/L	Ammonia, Unionized mg/L	Arsenic, Total mg/L	Copper, Total mg/L	Cyanide, Free mg/L	Lead, Total mg/L	Nickel, Total mg/L	Zinc, Total mg/L	Total Suspended Solids mg/L	Aluminum, Total mg/L	Cadmium, Total mg/L	Chromium, Total mg/L	Cobalt, Total mg/L	Iron, Total mg/L	Mercury, Total mg/L	Phosphorus, Total mg/L
ECA Trigger Values/PWQO						0.02	0.01	0.008	0.005	0.008	0.025	0.09		0.075	0.0001	0.001	0.0009	0.3	0.0002	0.1
Pinewood River	SW20	7.62	-0.29	312	158	0.001	0.00092	0.00074	0.0009	0.000175	0.0017	0.006	4.5	0.17	0.000019	0.00056	0.000649	1.4	0.000005	0.06
	SW10	7.4	-0.29	341	176	0.001	0.001	0.00102	0.0007	0.000145	0.0020	0.0078	4.0	0.13	0.000021	0.00054	0.000619	1.12	0.000005	0.075
	SW21A	6.61	0.15	385	200	0.001	0.00103	0.0011	0.0005	0.000235	0.0022	0.0052	11.0	0.27	0.00002	0.00082	0.000723	1.48	0.000005	0.105
	SW22A	7.29	0.00	371	204	0.001	0.00101	0.00148	0.0008	0.00024	0.0021	0.0104	9.5	0.31	0.000024	0.00082	0.000648	1.23	0.000005	0.08
	SW03	6.99	-0.28	367	190	0.001	0.00104	0.0018	0.0005	0.00035	0.0025	0.012	13.0	0.46	0.000021	0.00114	0.000735	1.43	0.000005	0.08
	SW23	6.81	0.00	323	174	0.001	0.00106	0.00156	0.0007	0.000365	0.0024	0.005	11.5	0.43	0.000018	0.00108	0.000723	1.51	0.000005	0.08
	SW24	7.06	0.00	322	170	0.001	0.00104	0.00152	0.0004	0.00037	0.0023	0.0058	10.5	0.45	0.000018	0.00106	0.000734	1.48	0.000005	0.065
	SW15	6.55	0.19	254	140	0.001	0.00098	0.00146	0.0006	0.00036	0.0019	0.0054	9.5	0.42	0.000019	0.00122	0.00047	1.14	0.000005	0.04
Clark Creek	SW28A	7.73	-0.20	265	151	0.001	0.00114	0.00108	0.0009	0.000095	0.0014	0.0028	5.0	0.13	0.000028	0.00044	0.000493	0.956	0.000005	0.025
West Creek	SW02	6.63	-0.26	154	88.1	0.001	0.00055	0.0002	0.0008	0.000105	0.0006	0.0038	0.5	0.06	0.000005	0.00026	0.000496	0.548	0.000005	0.0025
	SW25	7.63	-0.29	262	141	0.001	0.0007	0.00158	0.0008	0.00009	0.0013	0.0162	2.5	0.11	0.000009	0.00038	0.000365	0.614	0.000005	0.05
	SW26	6.75	-0.28	288	155	0.001	0.00085	0.00174	0.0007	0.000125	0.0015	0.0194	5.0	0.17	0.000007	0.00058	0.00031	0.628	0.000005	0.015
Loslo Creek	SW27	7.51	0.00	317	168	0.001	0.00088	0.00174	0.0008	0.000155	0.0016	0.0172	6.0	0.19	0.000009	0.00072	0.000351	0.683	0.000005	0.02
Tait Creek	SW29	6.02	1.38	216	122	0.001	0.00102	0.00038	0.0009	0.00021	0.0025	0.0044	3.5	0.13	0.00001	0.00046	0.00133	1.13	0.000005	0.045
Rainy River	SW16	No Sample - Unsafe Ice Conditions																		
	SW17	6.53	0.00	75.2	33.7	0.001	0.0004	0.0009	0.0001	0.000055	0.00076	0.0028	1.0	0.08	0.000004	0.00142	0.000061	0.202	0.0000025	0.01

Table C2: February 2020 Surface Water Quality for Selected Parameters

Receiver	Parameter Unit	Field pH pH units	Field Temperature °C	Conductivity µS/cm	Hardness mg/L	Ammonia, Unionized mg/L	Arsenic, Total mg/L	Copper, Total mg/L	Cyanide, Free mg/L	Lead, Total mg/L	Nickel, Total mg/L	Zinc, Total mg/L	Total Suspended Solids mg/L	Aluminum, Total mg/L	Cadmium, Total mg/L	Chromium, Total mg/L	Cobalt, Total mg/L	Iron, Total mg/L	Mercury, Total mg/L	Phosphorus, Total mg/L
ECA Trigger Values/PWQO						0.02	0.01	0.008	0.005	0.008	0.025	0.09		0.075	0.0001	0.001	0.0009	0.3	0.0002	0.1
Pinewood River	SW20	6.97	0.10	345	178	0.001	0.00088	0.00064	0.0009	0.00013	0.0016	0.0036	3	0.10	0.000018	0.00036	0.000747	1.37	0.000005	0.045
	SW10	7.01	0.00	361	190	0.001	0.00098	0.001	0.0008	0.000135	0.0020	0.0032	3.5	0.10	0.000015	0.00038	0.000647	1.1	0.000005	0.065
	SW21A	7.33	1.88	393	205	0.001	0.00099	0.00128	0.0011	0.000255	0.0021	0.0190	8.5	0.21	0.000016	0.0007	0.000655	1.45	0.000005	0.1
	SW22A	6.76	0.00	377	198	0.001	0.00103	0.00116	0.0008	0.000215	0.0020	0.0086	6	0.19	0.000014	0.00058	0.000599	1.25	0.000005	0.08
	SW03	6.8	0.51	378	201	0.001	0.00104	0.00158	0.0008	0.0004	0.0024	0.0066	15	0.35	0.000021	0.00102	0.000699	1.46	0.000005	0.075
	SW23	6.93	0.08	336	182	0.001	0.00103	0.00142	0.0008	0.00037	0.0022	0.0046	10.5	0.32	0.000017	0.00086	0.000668	1.48	0.000005	0.06
	SW24	7.13	0.00	336	180	0.001	0.00102	0.0015	0.0007	0.00035	0.0022	0.0044	9.5	0.31	0.000015	0.00076	0.000632	1.39	0.000005	0.07
	SW15	6.99	0.00	298	164	0.001	0.00102	0.00156	0.0006	0.00038	0.0019	0.0036	9.5	0.35	0.000018	0.00078	0.000434	1.12	0.000005	0.04
Clark Creek	SW28A	7.68	0.00	298	172	0.001	0.00112	0.00098	0.001	0.00008	0.0013	0.0002	2.5	0.14	0.000023	0.00038	0.000528	0.994	0.000005	0.015
West Creek	SW02	7.11	0.00	154	91.5	0.001	0.00055	0.00024	0.001	0.00013	0.0006	0.0014	1	0.07	0.000007	0.00032	0.000572	0.708	0.000005	0.0025
	SW25	7.51	0.00	283	154	0.001	0.00073	0.00158	0.0007	0.000115	0.0013	0.0104	2	0.08	0.000008	0.0003	0.000351	0.557	0.000005	0.015
	SW26	8.18	0.00	300	168	0.001	0.00091	0.00192	0.0008	0.000115	0.0015	0.0332	3	0.10	0.000009	0.00034	0.000266	0.614	0.000005	0.015
Loslo Creek	SW27	7.53	1.88	342	183	0.001	0.00092	0.0019	0.001	0.00018	0.0017	0.0244	6	0.22	0.000011	0.00056	0.000376	0.78	0.000005	0.02
Tait Creek	SW29	6.94	0.61	247	140	0.001	0.00123	0.00062	0.0012	0.00031	0.0014	0.0118	3	0.17	0.000014	0.00074	0.00153	1.63	0.000005	0.075
Rainy River	SW16	No Sample - Unsafe Ice Conditions																		
	SW17	7.07	0.00	76.6	34.7	0.001	0.00038	0.00092	0.0002	0.00006	0.0007	0.0001	1	0.08	0.000006	0.00038	0.000054	0.2	0.000005	0.01

Table C3: March 2020 Surface Water Quality for Selected Parameters

Receiver	Parameter Unit	Field pH pH units	Field Temperature °C	Conductivity µS/cm	Hardness mg/L	Ammonia, Unionized mg/L	Arsenic, Total mg/L	Copper, Total mg/L	Cyanide, Free mg/L	Lead, Total mg/L	Nickel, Total mg/L	Zinc, Total mg/L	Total Suspended Solids mg/L	Aluminum, Total mg/L	Cadmium, Total mg/L	Chromium, Total mg/L	Cobalt, Total mg/L	Iron, Total mg/L	Mercury, Total mg/L	Phosphorus, Total mg/L
ECA Trigger Values/PWQO						0.02	0.01	0.008	0.005	0.008	0.025	0.09		0.075	0.0001	0.001	0.0009	0.3	0.0002	0.1
Pinewood River	SW20	7.53	0.00	335	179	0.001	0.00085	0.00098	0.0005	0.00019	0.0015	0.012	6	0.15	0.000011	0.0005	0.00072	1.28	0.000005	0.055
	SW10	7.09	0.00	368	203	0.001	0.00094	0.00104	0.0006	0.00018	0.0019	0.0045	6.5	0.18	0.000014	0.0005	0.000675	1.25	0.000005	0.065
	SW21A	6.92	0.00	421	225	0.001	0.00094	0.00068	0.002	0.00018	0.0021	0.002	8	0.21	0.000008	0.00052	0.000665	1.35	0.000005	0.09
	SW22A	7.13	0.00	435	229	0.001	0.00097	0.00144	0.0013	0.00024	0.0021	0.023	8.5	0.28	0.000013	0.00066	0.00064	1.18	0.000005	0.08
	SW03	6.96	0.00	413	225	0.001	0.00108	0.00196	0.0005	0.00051	0.0027	0.0155	20.5	0.61	0.000023	0.00128	0.000875	1.7	0.000005	0.085
	SW23	6.95	0.00	392	219	0.001	0.00114	0.00182	0.0006	0.0005	0.0027	0.008	16.5	0.63	0.000014	0.0012	0.000875	1.97	0.000005	0.09
	SW24	7.26	0.00	389	216	0.001	0.00108	0.0016	0.0008	0.00051	0.0026	0.0075	22	0.62	0.00001	0.0012	0.000865	1.93	0.000005	0.085
Clark Creek	SW15	7.05	0.00	258	154	0.001	0.001	0.00202	0.002	0.00041	0.0021	0.008	9.5	0.55	0.000013	0.00112	0.000465	1.24	0.000005	0.05
Clark Creek	SW28A	7.65	0.00	332	194	0.001	0.00115	0.00108	0.0007	0.0001	0.0015	0.0025	4	0.12	0.000013	0.00034	0.000825	1.05	0.000005	0.01
West Creek	SW02	7.47	0.00	171	103	0.001	0.00056	0.0007	0.0017	0.00034	0.0007	0.006	4	0.15	0.000014	0.00036	0.000695	0.945	0.000005	0.005
	SW25	7.32	0.00	371	193	0.001	0.00088	0.00252	0.0005	0.00032	0.0020	0.023	14.5	0.33	0.000016	0.00066	0.000905	0.914	0.000005	0.025
	SW26	7.76	0.00	375	195	0.001	0.00097	0.00276	0.0005	0.00025	0.0018	0.0615	8	0.33	0.000013	0.00058	0.00058	0.727	0.000005	0.015
Loslo Creek	SW27	7.31	0.00	407	204	0.001	0.00095	0.00244	0.002	0.00026	0.0020	0.0515	10.5	0.49	0.000016	0.0008	0.0006	0.882	0.000005	0.02
Tait Creek	SW29	6.38	0.07	275	162	0.001	0.00133	0.00042	0.0011	0.00024	0.0015	0.009	7	0.20	0.000007	0.00042	0.00205	2.56	0.000005	0.125
Rainy River	SW16	No Sample - Unsafe Ice Conditions																		
	SW17	6.69	0.00	85.8	39.4	0.001	0.00041	0.00088	0.0008	0.00007	0.00088	0.003	2.5	0.10	0.000004	0.00034	0.00007	0.246	0.000005	0.005

Table C4: April 2020 Surface Water Quality for Selected Parameters

Receiver	Parameter Unit	Field pH pH units	Field Temperature °C	Conductivity µS/cm	Hardness mg/L	Ammonia, Unionized mg/L	Arsenic, Total mg/L	Copper, Total mg/L	Cyanide, Free mg/L	Lead, Total mg/L	Nickel, Total mg/L	Zinc, Total mg/L	Total Suspended Solids mg/L	Aluminum, Total mg/L	Cadmium, Total mg/L	Chromium, Total mg/L	Cobalt, Total mg/L	Iron, Total mg/L	Mercury, Total mg/L	Phosphorus, Total mg/L
ECA Trigger Values/PWQO						0.02	0.01	0.008	0.005	0.008	0.025	0.09		0.075	0.0001	0.001	0.0009	0.3	0.0002	0.1
Pinewood River	SW20	7.22	2.14	130	67.9	0.001	0.00065	0.00170	0.0008	0.00049	0.0009	0.008	12.5	1.060	0.000010	0.00164	0.00045	1.09	0.000005	0.016
	SW10	7.47	2.17	140	76.2	0.001	0.00066	0.00172	0.0008	0.00040	0.0010	0.005	11.5	0.818	0.000015	0.00134	0.00040	0.91	0.000005	0.014
	SW21A	7.28	5.74	167	91	0.001	0.00072	0.00158	0.0007	0.00030	0.0011	0.004	4.5	0.598	0.000006	0.00100	0.00029	0.68	0.000005	0.024
	SW22A	7.48	2.03	167	94.6	0.001	0.00068	0.00166	0.0006	0.00031	0.0011	0.004	9.0	0.603	0.000011	0.00102	0.00032	0.73	0.000005	0.018
	SW03	7.03	2.51	174	96.3	0.001	0.00067	0.00182	0.0006	0.00037	0.0010	0.005	17.0	0.646	0.000016	0.00112	0.00041	0.78	0.000005	0.024
	SW23	7.28	2.37	163	89.7	0.001	0.00072	0.00156	0.0007	0.00036	0.0009	0.004	18.5	0.546	0.000008	0.00104	0.00045	0.75	0.000005	0.026
	SW24	7.31	2.33	161	87.4	0.001	0.00071	0.00166	0.0008	0.00039	0.0009	0.004	19.0	0.707	0.000009	0.00126	0.00048	0.91	0.000005	0.024
Clark Creek	SW15	No Sample - Unsafe Ice Conditions																		
Clark Creek	SW28A	7.34	4.35	129	78.2	0.001	0.00076	0.00126	0.0009	0.00038	0.0014	0.005	19.0	0.614	0.000017	0.00104	0.00044	0.93	0.000005	0.010
West Creek	SW02	6.58	1.27	97.6	55.8	0.001	0.00041	0.00078	0.0006	0.00016	0.0006	0.002	3.0	0.282	0.000004	0.00052	0.00014	0.32	0.000005	0.004
	SW25	7.58	6.17	154	88.1	0.001	0.00047	0.00152	0.0007	0.00022	0.0011	0.005	3.5	0.362	0.000008	0.00060	0.00023	0.48	0.000005	0.004
	SW26	7.62	5.03	152	87.4	0.001	0.00050	0.00156	0.0007	0.00023	0.0012	0.007	4.5	0.427	0.000005	0.00072	0.00022	0.53	0.000005	0.004
Loslo Creek	SW27	7.54	7.18	171	97.6	0.001	0.00054	0.00144	0.0009	0.00021	0.0012	0.005	3.5	0.365	0.000006	0.00064	0.00020	0.44	0.000005	0.012
Tait Creek	SW29	No Sample - Unsafe Ice Conditions																		
Rainy River	SW16	7.57	2.29	90.6		0.001	0.00070	0.0021	0.0009	0.00054	0.0021	0.005	24.5	0.812	0.000016	0.00172	0.00060	1.11	0.000005	0.022
	SW17	7.37	2.81	199	115	0.001	0.00054	0.0015	0.0006	0.00030	0.0015	0.006	16.0	0.442	0.000014	0.00094	0.00034	0.57	0.000005	0.026

Table C5: May 2020 Surface Water Quality for Selected Parameters

Receiver	Parameter	Field pH	Field Temperature	Conductivity	Hardness	Ammonia, Unionized	Arsenic, Total	Copper, Total	Cyanide, Free	Lead, Total	Nickel, Total	Zinc, Total	Total Suspended Solids	Aluminum, Total	Cadmium, Total	Chromium, Total	Cobalt, Total	Iron, Total	Mercury, Total	Phosphorus, Total
	Unit	pH units	°C	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
ECA Trigger Values/PWQO						0.02	0.01	0.008	0.005	0.008	0.025	0.09		0.075	0.0001	0.001	0.0009	0.3	0.0002	0.1
Pinewood River	SW20	7.32	10.00	257	123	0.001	0.00087	0.00110	0.0010	0.00014	0.0015	0.004	4.5	0.164	0.000010	0.00044	0.00020	0.43	0.000005	0.022
	SW10	7.53	10.34	223	113	0.001	0.00096	0.00122	0.0004	0.00013	0.0016	0.002	5.0	0.186	0.000012	0.00050	0.00024	0.46	0.000005	0.028
	SW21A	7.77	10.42	256	135	0.001	0.00100	0.00124	0.0008	0.00024	0.0019	0.003	9.0	0.317	0.000013	0.00074	0.00037	0.69	0.000005	0.044
	SW22A	7.9	10.40	278	149	0.001	0.00097	0.00144	0.0004	0.00023	0.0017	0.004	9.5	0.241	0.000010	0.00058	0.00035	0.56	0.000005	0.032
	SW03	7.77	11.89	216	117	0.001	0.00108	0.00318	0.0006	0.00041	0.0025	0.005	20.5	0.565	0.000020	0.00116	0.00055	0.93	0.000005	0.036
	SW23	7.74	10.72	178	104	0.001	0.00103	0.00190	0.0005	0.00036	0.0021	0.017	13.0	0.542	0.000017	0.00108	0.00047	0.89	0.00001	0.032
	SW24	7.9	11.19	379	168	0.005	0.00139	0.00318	0.0005	0.00031	0.0021	0.004	11.5	0.422	0.000017	0.00088	0.00070	0.69	0.000005	0.024
	SW15	7.99	11.03	210	105	0.001	0.00108	0.00204	0.0007	0.00041	0.0019	0.005	16.0	0.602	0.000020	0.00116	0.00056	0.92	0.000005	0.028
Clark Creek	SW28A	7.82	8.09	356	203	0.001	0.00062	0.00132	0.0007	0.00004	0.0011	0.002	2.0	0.055	0.000009	0.00020	0.00015	0.15	0.000005	0.004
West Creek	SW02	7.09	11.50	97.8	58.7	0.001	0.00046	0.00030	0.0006	0.00005	0.0005	0.002	1.0	0.054	0.000004	0.00018	0.00007	0.13	0.000006	0.001
	SW25	7.98	8.70	268	139	0.001	0.00076	0.00228	0.0002	0.00017	0.0014	0.005	8.0	0.194	0.000011	0.00044	0.00031	0.36	0.000005	0.014
	SW26	7.61	8.40	297	151	0.001	0.00091	0.00244	0.0005	0.00018	0.0015	0.008	6.5	0.204	0.000011	0.00042	0.00031	0.39	0.00001	0.026
Loslo Creek	SW27	7.91	8.92	318	168	0.001	0.00076	0.00194	0.0002	0.00010	0.0013	0.005	2.0	0.125	0.000010	0.00028	0.00021	0.24	0.000005	0.014
Tait Creek	SW29	7.05	10.15	115	73	0.001	0.00084	0.00068	0.0007	0.00022	0.0010	0.003	6.5	0.228	0.000013	0.00050	0.00019	0.40	0.00001	0.016
Rainy River	SW16	7.84	8.91	92.6	41.1	0.001	0.00051	0.00160	0.0004	0.00018	0.0010	0.004	5.5	0.188	0.000012	0.00058	0.00013	0.36	0.000005	0.008
	SW17	8.05	11.67	114	56.9	0.001	0.00069	0.00110	0.0008	0.00020	0.0011	0.003	9.0	0.235	0.000012	0.00060	0.00019	0.45	0.000005	0.012

Table C6: June 2020 Surface Water Quality for Selected Parameters

Receiver	Parameter	Field pH	Field Temperature	Conductivity	Hardness	Ammonia, Unionized	Arsenic, Total	Copper, Total	Cyanide, Free	Lead, Total	Nickel, Total	Zinc, Total	Total Suspended Solids	Aluminum, Total	Cadmium, Total	Chromium, Total	Cobalt, Total	Iron, Total	Mercury, Total	Phosphorus, Total
	Unit	pH units	°C	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
ECA Trigger Values/PWQO						0.02	0.01	0.008	0.005	0.008	0.025	0.09		0.075	0.0001	0.001	0.0009	0.3	0.0002	0.1
Pinewood River	SW20	7.38	19.0	259	125	0.0003	0.0013	0.0011	0.0008	0.00014	0.0018	0.003	4.0	0.028	0.000010	0.00044	0.00027	0.55	0.000005	0.042
	SW10	7.56	20.0	237	128	0.0005	0.0014	0.0013	0.0006	0.00020	0.0020	0.003	6.5	0.028	0.000012	0.00064	0.00031	0.64	0.000005	0.056
	SW21A	7.51	24.0	312	159	<0.00040	0.0016	0.0010	0.0011	0.00008	0.0018	0.001	3.0	0.016	0.000008	0.00032	0.00025	0.41	0.000005	0.082
	SW22A	7.73	25.0	320	166	<0.00071	0.0016	0.0010	0.0011	0.00018	0.0018	0.003	5.0	0.018	0.000007	0.00032	0.00023	0.37	0.000005	0.073
	SW03	7.61	23.0	271	146	0.0006	0.0017	0.0026	0.0011	0.00032	0.0025	0.003	17.0	0.024	0.000019	0.00098	0.00049	0.81	0.000005	0.067
	SW23	7.50	22.0	199	125	0.0005	0.0019	0.0020	0.0018	0.00042	0.0025	0.003	14.5	0.030	0.000023	0.00112	0.00052	1.03	0.000010	0.063
	SW24	7.50	22.0	195	116	0.0006	0.0019	0.0023	0.0015	0.00052	0.0027	0.004	19.0	0.032	0.000028	0.00124	0.00060	1.14	0.000005	0.067
	SW15	7.89	20.0	184	104	0.0008	0.0014	0.0020	0.0007	0.00058	0.0024	0.004	13.5	0.022	0.000029	0.00108	0.00052	0.91	0.000005	0.055
Clark Creek	SW28A	7.90	21.0	212	124	0.0009	0.0013	0.0014	0.0008	0.00028	0.0016	0.003	17.0	0.022	0.000021	0.00080	0.00037	0.67	<0.000005	0.038
West Creek	SW02	7.29	20.0	119	72.7	<0.00019	0.0007	0.0003	0.0007	0.00004	0.0005	0.001	3.0	0.014	0.000004	0.00016	0.00007	0.20	<0.000005	0.008
	SW25	7.80	21.0	282	145	<0.00064	0.0013	0.0017	0.0011	0.00010	0.0013	0.002	5.5	0.016	0.000007	0.00028	0.00030	0.35	<0.000005	0.045
	SW26	7.97	21.0	304	157	<0.00096	0.0015	0.0019	0.0011	0.00014	0.0014	0.005	3.5	0.012	0.000007	0.00038	0.00028	0.38	<0.000005	0.040
Loslo Creek	SW27	7.72	23.0	338	179	<0.00061	0.0015	0.0016	0.0012	0.00010	0.0014	0.003	4.5	0.012	0.000009	0.00026	0.00023	0.28	<0.000005	0.040
Tait Creek	SW29	6.90	18.0	127	78	<0.00064	0.0014	0.0008	0.0002	0.00012	0.0012	0.001	1.0	0.016	0.000006	0.00028	0.00016	0.51	0.000005	0.014
Rainy River	SW16	7.78	18.0	73	32.7	<0.00049	0.0005	0.0013	0.0006	0.00018	0.0011	0.002	5.5	0.012	0.000011	0.00064	0.00015	0.38	<0.000005	0.021
	SW17	7.73	19.0	102	52.5	<0.00047	0.0008	0.0014	0.0005	0.00020	0.0013	0.002	3.5	0.010	0.000013	0.00056	0.00015	0.38	<0.000005	0.021

Table C7: July 2020 Surface Water Quality for Selected Parameters

Receiver	Parameter	Field pH	Field Temperature	Conductivity	Hardness	Ammonia, Unionized	Arsenic, Total	Copper, Total	Cyanide, Free	Lead, Total	Nickel, Total	Zinc, Total	Total Suspended Solids	Aluminum, Total	Cadmium, Total	Chromium, Total	Cobalt, Total	Iron, Total	Mercury, Total	Phosphorus, Total	
	Unit	pH units	°C	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
ECA Trigger Values/PWQO						0.02	0.01	0.008	0.005	0.008	0.025	0.09		0.075	0.0001	0.001	0.0009	0.3	0.0002	0.1	
Pinewood River	SW20	6.94	22.0	322	166	0.0001	0.0031	0.0004	0.0012	0.00008	0.0019	0.0008	7.0	0.039	0.000004	0.00036	0.00073	0.62	<0.000005	0.106	
	SW10	7.18	22.0	266	148	0.0004	0.0033	0.0006	0.0011	0.00012	0.0019	0.0020	7.0	0.087	0.000009	0.00038	0.00032	0.35	<0.000005	0.114	
	SW21A	7.24	21.0	403	206	0.0009	0.0023	0.0005	0.0006	0.00005	0.0014	0.0025	2.5	0.050	0.000005	0.00030	0.00035	0.24	<0.000005	0.080	
	SW22A	7.34	20.0	404	210	0.0010	0.0022	0.0008	0.0006	0.00009	0.0016	0.0015	3.0	0.133	0.000010	0.00040	0.00024	0.18	<0.000005	<0.005	
	SW03	7.65	24.0	377	203	0.0099	0.0030	0.0016	0.0012	0.00028	0.0022	0.0020	12.5	0.277	0.000018	0.00056	0.00043	0.13	<0.000005	0.092	
	SW23	7.48	24.0	281	165	0.0009	0.0038	0.0019	0.0011	0.00054	0.0029	0.0028	12.0	0.490	0.000026	0.00106	0.00080	0.80	<0.000005	0.114	
	SW24	7.39	23.0	263	155	0.0006	0.0038	0.0022	0.0013	0.00064	0.0029	0.0038	15.0	0.448	0.000029	0.00098	0.00078	0.84	<0.000005	0.132	
	SW15	7.82	28.0	208	119	0.0018	0.0024	0.0036	0.001	0.00114	0.0039	0.0062	16.0	1.180	0.000030	0.00216	0.00095	0.24	<0.000005	0.096	
Clark Creek	SW28A	7.69	20.0	212	124	0.0008	0.0017	0.0007	0.0009	0.00016	0.0013	0.0018	7.0	0.145	0.000009	0.00038	0.00024	0.21	<0.000005	0.024	
West Creek	SW02	6.89	21.0	148	90.9	0.0018	0.0011	0.0003	0.0013	0.00006	0.0006	0.0012	0.5	0.030	0.000005	0.00018	0.00018	0.37	<0.000005	0.010	
	SW25	7.66	22.0	302	149	0.0006	0.0017	0.0014	0.0008	0.00010	0.0013	0.0040	2.5	0.134	0.000004	0.00030	0.00023	0.13	<0.000005	0.048	
	SW26	7.62	22.0	411	211	0.0006	0.0022	0.0017	0.0009	0.00016	0.0016	0.0034	6.5	0.199	0.000005	0.00040	0.00030	0.11	<0.000005	0.034	
Loslo Creek	SW27	7.35	21.0	411	202	0.0005	0.0015	0.0017	0.0004	0.00011	0.0015	0.0035	2.5	0.110	0.000007	0.00030	0.00021	0.11	<0.000005	<0.005	
Tait Creek	SW29	No Sample																			
Rainy River	SW16	7.56	26.0	84.6	35.9	0.0007	0.0006	0.0013	0.0006	0.00020	0.0010	0.0016	10.0	0.197	0.000011	0.00064	0.00017	0.38	<0.000005	0.022	
	SW17	8.21	28.0	85.6	38.2	0.0040	0.0007	0.0012	0.0004	0.00014	0.0008	0.0012	6.0	0.121	0.000010	0.00056	0.00011	0.38	<0.000005	0.016	

Table C8: August 2020 Surface Water Quality for Selected Parameters

Receiver	Parameter	Field pH	Field Temperature	Conductivity	Hardness	Ammonia, Unionized	Arsenic, Total	Copper, Total	Cyanide, Free	Lead, Total	Nickel, Total	Zinc, Total	Total Suspended Solids	Aluminum, Total	Cadmium, Total	Chromium, Total	Cobalt, Total	Iron, Total	Mercury, Total	Phosphorus, Total	
	Unit	pH units	°C	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
ECA Trigger Values/PWQO						0.02	0.01	0.008	0.005	0.008	0.025	0.09		0.075	0.0001	0.001	0.0009	0.3	0.0002	0.1	
Pinewood River	SW20	7.14	17.3	330	149	<0.001	0.0018	0.0015	0.0007	0.00002	0.0014	0.0020	5.5	0.145	0.000020	0.00046	0.00036	0.29	<0.000005	0.070	
	SW10	7.51	17.2	351	169	<0.001	0.0022	0.0007	0.0005	0.00002	0.0017	0.0015	1.5	0.088	0.000011	0.00032	0.00029	0.16	<0.000005	0.060	
	SW21A	7.29	17.4	409	198	<0.001	0.0026	0.0013	0.0004	0.00003	0.0020	0.0035	23.0	0.462	0.000020	0.00104	0.00066	0.13	0.000005	0.090	
	SW22A	7.37	16.9	380	180	<0.001	0.0040	0.0019	0.0006	0.00002	0.0025	0.0055	20.0	0.459	0.000019	0.00096	0.00057	0.04	0.000005	0.205	
	SW03	7.36	16.3	330	164	<0.001	0.0019	0.0106	0.0002	0.00005	0.0060	0.0080	11.5	0.866	0.000026	0.00176	0.00074	0.18	<0.000005	0.055	
	SW23	7.56	16.9	363	184	<0.001	0.0031	0.0028	0.0027	0.00008	0.0034	0.0040	10.0	0.784	0.000034	0.00148	0.00083	0.17	0.000005	0.105	
	SW24	7.45	17.6	546	230	<0.001	0.0024	0.0033	0.0005	0.00003	0.0038	0.0025	4.0	0.367	0.000034	0.00384	0.00083	0.14	<0.000005	0.060	
	SW15	7.82	20.9	182	93.4	0.0010	0.0030	0.0025	0.0003	0.00017	0.0022	0.0025	13.0	0.510	0.000019	0.00100	0.00052	0.28	<0.000005	0.090	
Clark Creek	SW28A	No Sample																			
West Creek	SW02	7.11	15.6	150	81.5	<0.001	0.0008	0.0009	0.0003	0.00003	0.0002	0.0015	<0.5	0.024	0.000027	0.00022	0.00011	0.26	<0.000005	0.010	
	SW25	No Sample																			
	SW26	8.39	18.9	635	297	0.0010	0.0025	0.0013	0.0002	0.00005	0.0018	0.0025	8.5	0.225	0.000008	0.00044	0.00048	0.03	<0.000005	0.055	
Loslo Creek	SW27	7.18	14.1	431	186	<0.001	0.0035	0.0028	0.0002	0.00001	0.0029	0.0090	45.0	1.290	0.000042	0.00252	0.00113	0.05	<0.000005	0.190	
Tait Creek	SW29	No Sample																			
Rainy River	SW16	7.77	21.3	82.8	34	<0.001	0.0006	0.0014	0.0004	0.00008	0.0010	0.0025	10.5	0.288	0.000014	0.00076	0.00024	0.07	<0.000005	0.025	
	SW17	8.80*	22.7	86.8	39.5	0.0060	0.0007	0.0015	<0.0001	0.00008	0.0008	0.0025	7.0	0.249	0.000035	0.00060	0.00020	0.08	<0.000005	0.025	

Table C9: September 2020 Surface Water Quality for Selected Parameters

Receiver	Parameter	Field pH	Field Temperature	Conductivity	Hardness	Ammonia, Unionized	Arsenic, Total	Copper, Total	Cyanide, Free	Lead, Total	Nickel, Total	Zinc, Total	Total Suspended Solids	Aluminum, Total	Cadmium, Total	Chromium, Total	Cobalt, Total	Iron, Total	Mercury, Total	Phosphorus, Total	
	Unit	pH units	°C	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
ECA Trigger Values/PWQO						0.02	0.01	0.008	0.005	0.008	0.025	0.09		0.075	0.0001	0.001	0.0009	0.3	0.0002	0.1	
Pinewood River	SW20	6.94	22.0	322	166	0.0001	0.0031	0.0004	0.0012	0.00008	0.0019	0.0008	7.0	0.039	0.000004	0.00036	0.00073	0.62	<0.000005	0.106	
	SW10	7.18	22.0	266	148	0.0004	0.0033	0.0006	0.0011	0.00012	0.0019	0.0020	7.0	0.087	0.000009	0.00038	0.00032	0.35	<0.000005	0.114	
	SW21A	7.24	21.0	403	206	0.0009	0.0023	0.0005	0.0006	0.00005	0.0014	0.0025	2.5	0.050	0.000005	0.00030	0.00035	0.24	<0.000005	0.080	
	SW22A	7.34	20.0	404	210	0.0010	0.0022	0.0008	0.0006	0.00009	0.0016	0.0015	3.0	0.133	0.000010	0.00040	0.00024	0.18	<0.000005	<0.005	
	SW03	7.65	24.0	377	203	0.0099	0.0030	0.0016	0.0012	0.00028	0.0022	0.0020	12.5	0.277	0.000018	0.00056	0.00043	0.13	<0.000005	0.092	
	SW23	7.48	24.0	281	165	0.0009	0.0038	0.0019	0.0011	0.00054	0.0029	0.0028	12.0	0.490	0.000026	0.00106	0.00080	0.80	<0.000005	0.114	
	SW24	7.39	23.0	263	155	0.0006	0.0038	0.0022	0.0013	0.00064	0.0029	0.0038	15.0	0.448	0.000029	0.00098	0.00078	0.84	<0.000005	0.132	
	SW15	7.82	28.0	208	119	0.0018	0.0024	0.0036	0.001	0.00114	0.0039	0.0062	16.0	1.180	0.000030	0.00216	0.00095	0.24	<0.000005	0.096	
Clark Creek	SW28A	7.69	20.0	212	124	0.0008	0.0017	0.0007	0.0009	0.00016	0.0013	0.0018	7.0	0.145	0.000009	0.00038	0.00024	0.21	<0.000005	0.024	
West Creek	SW02	6.89	21.0	148	90.9	0.0018	0.0011	0.0003	0.0013	0.00006	0.0006	0.0012	0.5	0.030	0.000005	0.00018	0.00018	0.37	<0.000005	0.010	
	SW25	7.66	22.0	302	149	0.0006	0.0017	0.0014	0.0008	0.00010	0.0013	0.0040	2.5	0.134	0.000004	0.00030	0.00023	0.13	<0.000005	0.048	
	SW26	7.62	22.0	411	211	0.0006	0.0022	0.0017	0.0009	0.00016	0.0016	0.0034	6.5	0.199	0.000005	0.00040	0.00030	0.11	<0.000005	0.034	
Loslo Creek	SW27	7.35	21.0	411	202	0.0005	0.0015	0.0017	0.0004	0.00011	0.0015	0.0035	2.5	0.110	0.000007	0.00030	0.00021	0.11	<0.000005	<0.005	
Tait Creek	SW29	No Sample																			
Rainy River	SW16	7.56	26.0	84.6	35.9	0.0007	0.0006	0.0013	0.0006	0.00020	0.0010	0.0016	10.0	0.197	0.000011	0.00064	0.00017	0.38	<0.000005	0.022	
	SW17	8.21	28.0	85.6	38.2	0.0040	0.0007	0.0012	0.0004	0.00014	0.0008	0.0012	6.0	0.121	0.000010	0.00056	0.00011	0.38	<0.000005	0.016	

Table C10: October 2020 Surface Water Quality for Selected Parameters

Receiver	Parameter	Field pH	Field Temperature	Conductivity	Hardness	Ammonia, Unionized	Arsenic, Total	Copper, Total	Cyanide, Free	Lead, Total	Nickel, Total	Zinc, Total	Total Suspended Solids	Aluminum, Total	Cadmium, Total	Chromium, Total	Cobalt, Total	Iron, Total	Mercury, Total	Phosphorus, Total	
	Unit	pH units	°C	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
ECA Trigger Values/PWQO						0.02	0.01	0.008	0.005	0.008	0.025	0.09		0.075	0.0001	0.001	0.0009	0.3	0.0002	0.1	
Pinewood River	SW20	6.81	6.7	433	186	<0.001	0.0009	0.0003	0.0005	0.00005	0.0012	<0.0005	2.5	0.100	0.000001	0.00038	0.00019	0.28	<0.000005	0.015	
	SW10	7.26	8.5	375	174	<0.001	0.0010	0.0005	0.0005	0.00007	0.0016	0.0010	5.0	0.076	0.000007	0.00038	0.00021	0.23	<0.000005	0.020	
	SW21A	7.16	6.8	483	232	<0.001	0.0011	0.0008	0.0004	0.00005	0.0012	<0.0005	4.0	0.102	0.000004	0.00036	0.00018	0.27	<0.000005	0.025	
	SW22A	7.73	2.5	908	330	<0.001	0.0026	0.0010	0.0003	0.00008	0.0011	0.0020	2.5	0.075	0.000003	0.00024	0.00062	0.22	<0.000005	<0.005	
	SW03	7.35	7.1	341	170	<0.001	0.0012	0.0013	0.0008	0.00012	0.0018	0.0020	4.5	0.229	0.000009	0.00058	0.00026	0.35	<0.000005	0.035	
	SW23	7.28	7.7	248	128	<0.001	0.0018	0.0011	0.0008	0.00022	0.0020	0.0020	5.0	0.332	0.000010	0.00086	0.00028	0.68	<0.000005	0.055	
	SW24	7.28	7.7	801	261	<0.001	0.0021	0.0087	<0.0001	0.00024	0.0018	0.0015	4.0	0.227	0.000017	0.00056	0.00087	0.44	<0.000005	0.030	
	SW15	7.35	7.3	262	137	<0.001	0.0029	0.0039	0.0005	0.00106	0.0044	0.0060	30.0	1.120	0.000027	0.00230	0.00101	1.95	<0.000005	0.120	
Clark Creek	SW28A	7.41	6.0	455	229	<0.001	0.0011	0.0017	0.0002	0.00035	0.0017	0.0025	20.5	0.558	0.000011	0.00110	0.00042	0.70	<0.000005	0.025	
West Creek	SW02	7.22	5.5	122	66.4	<0.001	0.0006	0.0004	0.0005	0.00004	0.0006	0.0005	0.5	0.050	0.000004	0.00024	0.00011	0.19	<0.000005	<0.005	
	SW25	7.06	5.6	516	224	<0.001	0.0011	0.0075	0.0007	0.00049	0.0027	0.0100	4.5	0.925	0.000016	0.00178	0.00065	1.03	<0.000005	0.035	
	SW26	7.77	1.3	559	269	<0.001	0.0010	0.0021	0.0005	0.00006	0.0013	0.0045	2.0	0.103	0.000002	0.00032	0.00016	0.25	<0.000005	0.010	
Loslo Creek	SW27	7.69	0.8	670	293	<0.001	0.0008	0.0012	0.0003	0.00002	0.0013	0.0010	<0.5	0.066	<0.000001	0.00030	0.00015	0.16	<0.000005	0.010	
Tait Creek	SW29	No Sample																			
Rainy River	SW16	7.15	9.5	83	36.2	<0.001	0.0006	0.0022	0.0002	0.00038	0.0011	0.0075	6.0	0.273	0.000025	0.00094	0.00025	0.38	<0.000005	0.010	
	SW17	7.66	9.3	89.2	40.2	<0.001	0.0006	0.0012	0.0002	0.00033	0.0011	0.0050	13.5	0.202	0.000035	0.00066	0.00022	0.36	<0.000005	0.005	

Table C11: November 2020 Surface Water Quality for Selected Parameters

Receiver	Parameter	Field pH	Field Temperature	Conductivity	Hardness	Ammonia, Unionized	Arsenic, Total	Copper, Total	Cyanide, Free	Lead, Total	Nickel, Total	Zinc, Total	Total Suspended Solids	Aluminum, Total	Cadmium, Total	Chromium, Total	Cobalt, Total	Iron, Total	Mercury, Total	Phosphorus, Total
	Unit	pH units	°C	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
ECA Trigger Values/PWQO						0.02	0.01	0.008	0.005	0.008	0.025	0.09		0.075	0.0001	0.001	0.0009	0.3	0.0002	0.1
Pinewood River - 4-Nov	SW20	7.39	1.0	391	162	<0.001	0.0007	0.0005	0.0009	0.0007	0.0013	0.0005	2.5	0.099	0.000005	0.00040	0.00020	0.38	<0.000005	0.010
	SW22A	7.82	7.0	993	342	<0.001	0.0013	0.0025	0.0007	0.00015	0.0017	0.0005	1.5	0.053	0.000006	0.00020	0.00090	0.15	<0.000005	0.015
	SW23	7.73	0.7	658	245	<0.001	0.0011	0.0012	0.0006	0.00013	0.0015	0.0010	3.0	0.130	0.000008	0.00040	0.00050	0.34	<0.000005	0.015
	SW24	7.80	2.0	949	313	<0.001	0.0014	0.0046	0.0007	0.00011	0.0014	0.0005	3.5	0.112	0.000011	0.00030	0.00083	0.26	<0.000005	0.015
Pinewood River	SW20	7.83	2.0	397	162	<0.001	0.0007	0.0006	0.0020	0.00008	0.0012	0.0015	1.5	0.099	0.000004	0.00030	0.00017	0.34	<0.000005	0.020
	SW10	7.40	2.0	346	162	<0.001	0.0008	0.0007	0.0016	0.00007	0.0015	0.0015	0.5	0.079	0.000003	0.00040	0.00018	0.33	<0.000005	0.015
	SW21A	7.96	2.0	442	204	<0.001	0.0010	0.0009	0.0003	0.00007	0.0015	0.0015	2.5	0.091	0.000005	0.00030	0.00017	0.29	<0.000005	0.020
	SW22A	7.46	1.0	936	330	<0.001	0.0013	0.0037	0.0008	0.0001	0.0016	0.0015	0.5	0.050	0.000011	0.00020	0.00084	0.14	<0.000005	0.020
	SW03	7.43	3.0	818	303	<0.001	0.0011	0.0024	0.001	0.00009	0.0015	0.0010	3.0	0.106	0.000007	0.00030	0.00058	0.21	<0.000005	0.015
	SW23	7.91	3.0	590	225	<0.001	0.0012	0.0019	<0.0001	0.00025	0.0018	0.0025	6.5	0.328	0.000012	0.00070	0.00061	0.66	<0.000005	0.030
	SW24	7.89	4.0	869	296	<0.001	0.0014	0.0037	0.0006	0.00023	0.0019	0.0025	6.5	0.218	0.000014	0.00140	0.00093	0.45	<0.000005	0.020
	SW15	7.92	0.7	518	195	<0.001	0.0012	0.0022	0.0011	0.00036	0.0017	0.0030	5.5	0.319	0.000010	0.00070	0.00059	0.67	<0.000005	0.015
Clark Creek	SW28A	7.81	0.9	274	155	<0.001	0.0008	0.0008	0.0018	0.00005	0.0009	0.001	2.5	0.051	0.000004	0.00020	0.00011	0.13	<0.000005	0.010
West Creek	SW02	7.52	0.9	104	62.7	<0.001	0.0005	0.0002	0.002	0.00002	0.0004	0.0005	<0.5	0.026	0.000001	0.00040	0.00008	0.18	<0.000005	<0.005
	SW25	8.13	0.5	420	199	<0.001	0.0008	0.0019	0.0006	0.00007	0.0015	0.0120	2.0	0.110	0.000005	0.00030	0.00014	0.18	<0.000005	0.030
	SW26	8.19	0.9	489	239	<0.001	0.0010	0.0019	0.0005	0.00006	0.0013	0.0075	2.0	0.103	0.000003	0.00030	0.00014	0.22	<0.000005	0.015
Loslo Creek	SW27	8.09	0.9	606	285	<0.001	0.0008	0.0011	0.0015	0.00002	0.0012	0.0025	<0.5	0.044	0.000002	0.00020	0.00012	0.12	<0.000005	0.020
Tait Creek	SW29	No Sample																		
Rainy River	SW16	6.93	3.0	72.6	29.7	<0.001	0.0004	0.0010	0.0019	0.00011	0.0008	0.0015	4.5	0.166	0.000001	0.00050	0.00008	0.22	<0.000005	0.005
	SW17	7.41	4.0	102	45.3	<0.001	0.0006	0.0009	0.0008	0.00013	0.0008	0.0015	3.0	0.083	0.000007	0.00040	0.00011	0.30	<0.000005	0.010


Table C12: December 2020 Surface Water Quality for Selected Parameters

Receiver	Parameter	Field pH	Field Temperature	Conductivity	Hardness	Ammonia, Unionized	Arsenic, Total	Copper, Total	Cyanide, Free	Lead, Total	Nickel, Total	Zinc, Total	Total Suspended Solids	Aluminum, Total	Cadmium, Total	Chromium, Total	Cobalt, Total	Iron, Total	Mercury, Total	Phosphorus, Total
	Unit	pH units	°C	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
ECA Trigger Values/PWQO						0.02	0.01	0.008	0.005	0.008	0.025	0.09		0.075	0.0001	0.001	0.0009	0.3	0.0002	0.1
Pinewood River	SW20	7.19	0.0	346	164	0.00005	0.0009	0.0008	0.0008	0.00014	0.0016	0.0050	3.5	0.142	0.000010	0.00050	0.00030	0.87	<0.000005	0.035
	SW10	7.06	1.0	412	195	0.0001	0.0010	0.0008	0.001	0.00016	0.0017	0.0035	3.0	0.086	0.000010	0.00040	0.00043	0.79	<0.000005	0.030
	SW21A	7.27	0.2	549	254	<0.000038	0.0012	0.0007	0.0007	0.00012	0.0020	0.0100	3.5	0.098	0.000016	0.00050	0.00073	1.22	<0.000005	0.090
	SW22A	7.38	-0.4	614	278	0.0001	0.0012	0.0008	0.0007	0.00013	0.0020	0.0035	4.5	0.119	0.000016	0.00040	0.00078	0.99	<0.000005	0.075
	SW03	7.41	-0.2	648	291	0.0001	0.0011	0.0011	0.0006	0.00013	0.0021	0.0020	4.0	0.111	0.000017	0.00040	0.00058	0.60	<0.000005	0.035
	SW23	6.92	0.7	479	228	0.00004	0.0012	0.0015	0.0007	0.00028	0.0023	0.0270	4.5	0.324	0.000014	0.00090	0.00059	1.03	<0.000005	0.035
	SW24	6.91	-0.4	477	224	0.00004	0.0012	0.0014	0.0011	0.00024	0.0023	0.0100	3.5	0.292	0.000015	0.00080	0.00057	0.99	<0.000005	0.035
	SW15	7.08	1.0	333	169	0.00004	0.0012	0.0023	0.0007	0.00045	0.0023	0.0130	4.0	0.409	0.000022	0.00100	0.00045	1.06	<0.000005	0.030
Clark Creek	SW28A	7.5	-0.4	339	186	0.000114	0.0009	0.0010	0.0008	0.0001	0.0012	0.0025	3.5	0.122	0.000005	0.00040	0.00019	0.26	<0.000005	0.005
West Creek	SW02	6.62	-0.2	124	72.3	0.00003	0.0006	0.0002	0.0009	0.00006	0.0004	0.0010	0.5	0.069	0.000004	0.00030	0.00022	0.45	<0.000005	<0.005
	SW25	7.15	2.0	399	190	0.000048	0.0009	0.0024	0.0006	0.00011	0.0016	0.0380	7.0	0.137	0.000010	0.00050	0.00022	0.28	<0.000005	0.035
	SW26	6.91	0.6	502	241	0.0001	0.0012	0.0025	0.0004	0.00010	0.0017	0.0305	2.5	0.128	0.000006	0.00070	0.00022	0.31	<0.000005	0.020
Loslo Creek	SW27	7.47	0.8	1070	439	0.0004	0.0009	0.0014	0.0004	0.00006	0.0014	0.0105	2.0	0.082	0.000008	0.00050	0.00053	0.21	<0.000005	0.025
Tait Creek	SW29	No sample																		
Rainy River	SW16	No sample																		
	SW17	7.13	-0.6	108	47.7	<0.000026	0.0005	0.0012	0.0003	0.00012	0.0007	0.0015	2.0	0.098	0.000008	0.00050	0.00009	0.25	<0.000005	0.010



2020 Annual Surface Water Report
Appendix D

Surface Water Certificates of Analysis



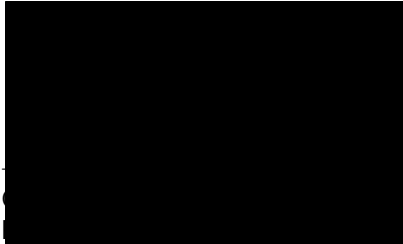
New Gold Inc. Rainy River Project
ATTN: Amanda Jacobs
24 Marr Rd
Barwick ON POW 1A0

Date Received: 14-JAN-20
Report Date: 05-FEB-20 21:25 (MT)
Version: FINAL

Client Phone: 807-482-0931

Certificate of Analysis

Lab Work Order #: L2405423
Project P.O. #: 4500038941
Job Reference: SURFACE WATER
C of C Numbers:
Legal Site Desc:



[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3, Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598



ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-1 SW17							
Sampled By: Client on 09-JAN-20 @ 15:00							
Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	13.74		0	mg/L		15-JAN-20	R4969028
pH, Client Supplied	6.53		0.10	pH		15-JAN-20	R4969028
Temperature, Client Supplied	0		0	Degree C		15-JAN-20	R4969028
Physical Tests							
Color, True	48.0		2.0	CU		15-JAN-20	R4970285
Conductivity (EC)	75.2		1.0	uS/cm		15-JAN-20	R4971531
Hardness (as CaCO3)	33.7		0.51	mg/L		19-JAN-20	
pH	7.03		0.10	pH		15-JAN-20	R4971531
Total Suspended Solids	1.0	<DL	2.0	mg/L		15-JAN-20	R4971826
Total Dissolved Solids	58		13	mg/L		15-JAN-20	R4971910
Turbidity	1.97		0.10	NTU		15-JAN-20	R4970053
Anions and Nutrients							
Acidity (as CaCO3)	1.8	<DL	2.0	mg/L		17-JAN-20	R4972787
Alkalinity, Total (as CaCO3)	37.2		2.0	mg/L		15-JAN-20	R4971531
Ammonia, Total (as N)	0.012	<DL	0.020	mg/L		15-JAN-20	R4970888
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-JAN-20	
Chloride (Cl)	2.01		0.10	mg/L		15-JAN-20	R4971358
Fluoride (F)	0.046		0.020	mg/L		15-JAN-20	R4971358
Nitrate (as N)	0.086	<T	0.020	mg/L		15-JAN-20	R4971358
Nitrite (as N)	<0.0005	<W	0.010	mg/L		15-JAN-20	R4971358
Orthophosphate-Dissolved (as P)	0.0045		0.0030	mg/L		15-JAN-20	R4970052
Sulfate (SO4)	3.36	<T	0.30	mg/L		15-JAN-20	R4971358
Cyanides							
Cyanide, Weak Acid Diss	0.0002	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Total	0.0004	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Free	<0.0001	<W	0.0020	mg/L		16-JAN-20	R4972272
Organic / Inorganic Carbon							
Dissolved Organic Carbon	11.8	HTA	0.50	mg/L		17-JAN-20	R4972937
Total Organic Carbon	12.0		0.50	mg/L		17-JAN-20	R4972936
Total Metals							
Aluminum (Al)-Total	0.0782		0.0050	mg/L		17-JAN-20	R4972785
Antimony (Sb)-Total	0.00004	<DL	0.00060	mg/L		17-JAN-20	R4972785
Arsenic (As)-Total	0.00040	<DL	0.0010	mg/L		17-JAN-20	R4972785
Barium (Ba)-Total	0.00989	<DL	0.010	mg/L		17-JAN-20	R4972785
Beryllium (Be)-Total	0.000008	<DL	0.0010	mg/L		17-JAN-20	R4972785
Bismuth (Bi)-Total	0.000008	<DL	0.0010	mg/L		17-JAN-20	R4972785
Boron (B)-Total	0.0060	<DL	0.050	mg/L		17-JAN-20	R4972785
Cadmium (Cd)-Total	0.000004	<DL	0.000017	mg/L		17-JAN-20	R4972785
Calcium (Ca)-Total	9.14		0.20	mg/L		17-JAN-20	R4972785
Cesium (Cs)-Total	0.0000085	<DL	0.000010	mg/L		17-JAN-20	R4972785
Chromium (Cr)-Total	0.00142		0.0010	mg/L		17-JAN-20	R4972785
Cobalt (Co)-Total	0.000061	<DL	0.00050	mg/L		17-JAN-20	R4972785

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-1 SW17							
Sampled By: Client on 09-JAN-20 @ 15:00							
Matrix: Water							
Total Metals							
Copper (Cu)-Total	0.00090	<DL	0.0010	mg/L		17-JAN-20	R4972785
Iron (Fe)-Total	0.202		0.020	mg/L		17-JAN-20	R4972785
Lead (Pb)-Total	0.000055	<T	0.000050	mg/L		17-JAN-20	R4972785
Lithium (Li)-Total	0.0012	<DL	0.050	mg/L		17-JAN-20	R4972785
Magnesium (Mg)-Total	3.24		0.020	mg/L		17-JAN-20	R4972785
Manganese (Mn)-Total	0.0107		0.0010	mg/L		17-JAN-20	R4972785
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972279
Molybdenum (Mo)-Total	0.000155	<DL	0.0010	mg/L		17-JAN-20	R4972785
Nickel (Ni)-Total	0.00076	<DL	0.0020	mg/L		17-JAN-20	R4972785
Phosphorus (P)-Total	0.010	<DL	0.050	mg/L		17-JAN-20	R4972785
Potassium (K)-Total	0.815		0.50	mg/L		17-JAN-20	R4972785
Rubidium (Rb)-Total	0.00163		0.00020	mg/L		17-JAN-20	R4972785
Selenium (Se)-Total	0.000085	<T	0.000050	mg/L		17-JAN-20	R4972785
Silicon (Si)-Total	2.65		0.10	mg/L		17-JAN-20	R4972785
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		17-JAN-20	R4972785
Sodium (Na)-Total	3.11		0.10	mg/L		17-JAN-20	R4972785
Strontium (Sr)-Total	0.0259		0.0010	mg/L		17-JAN-20	R4972785
Sulfur (S)-Total	1.3		0.50	mg/L		17-JAN-20	R4972785
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		17-JAN-20	R4972785
Thallium (Tl)-Total	0.0000014	<DL	0.00030	mg/L		17-JAN-20	R4972785
Thorium (Th)-Total	0.000021	<DL	0.00010	mg/L		17-JAN-20	R4972785
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		17-JAN-20	R4972785
Titanium (Ti)-Total	0.00176	<DL	0.0020	mg/L		17-JAN-20	R4972785
Tungsten (W)-Total	0.000006	<DL	0.010	mg/L		17-JAN-20	R4972785
Uranium (U)-Total	0.000095	<DL	0.0050	mg/L		17-JAN-20	R4972785
Vanadium (V)-Total	0.00030	<DL	0.0010	mg/L		17-JAN-20	R4972785
Zinc (Zn)-Total	0.0028	<DL	0.0030	mg/L		17-JAN-20	R4972785
Zirconium (Zr)-Total	0.000134	<DL	0.0010	mg/L		17-JAN-20	R4972785
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					15-JAN-20	R4969510
Aluminum (Al)-Dissolved	0.0366		0.0050	mg/L		15-JAN-20	R4971346
Antimony (Sb)-Dissolved	0.000045	<DL	0.00060	mg/L		15-JAN-20	R4971346
Arsenic (As)-Dissolved	0.000370	<DL	0.0010	mg/L		15-JAN-20	R4971346
Barium (Ba)-Dissolved	0.00927	<DL	0.010	mg/L		15-JAN-20	R4971346
Beryllium (Be)-Dissolved	0.000004	<DL	0.0010	mg/L		15-JAN-20	R4971346
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Boron (B)-Dissolved	0.0050	<DL	0.050	mg/L		15-JAN-20	R4971346
Cadmium (Cd)-Dissolved	0.0000025	<DL	0.000017	mg/L		15-JAN-20	R4971346
Calcium (Ca)-Dissolved	8.57		0.20	mg/L		15-JAN-20	R4971346
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		15-JAN-20	R4971346
Chromium (Cr)-Dissolved	0.00114		0.0010	mg/L		15-JAN-20	R4971346

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-1 SW17 Sampled By: Client on 09-JAN-20 @ 15:00 Matrix: Water							
Dissolved Metals							
Cobalt (Co)-Dissolved	0.000032	<DL	0.00050	mg/L		15-JAN-20	R4971346
Copper (Cu)-Dissolved	0.00070	<DL	0.0010	mg/L		15-JAN-20	R4971346
Iron (Fe)-Dissolved	0.120		0.020	mg/L		15-JAN-20	R4971346
Lead (Pb)-Dissolved	0.000015	<DL	0.000050	mg/L		15-JAN-20	R4971346
Lithium (Li)-Dissolved	0.0010	<DL	0.050	mg/L		15-JAN-20	R4971346
Magnesium (Mg)-Dissolved	2.99		0.020	mg/L		15-JAN-20	R4971346
Manganese (Mn)-Dissolved	0.00566		0.0010	mg/L		15-JAN-20	R4971346
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972252
Molybdenum (Mo)-Dissolved	0.000188	<DL	0.0010	mg/L		15-JAN-20	R4971346
Nickel (Ni)-Dissolved	0.00062	<DL	0.0020	mg/L		15-JAN-20	R4971346
Phosphorus (P)-Dissolved	<0.002	<W	0.050	mg/L		15-JAN-20	R4971346
Potassium (K)-Dissolved	0.775		0.50	mg/L		15-JAN-20	R4971346
Rubidium (Rb)-Dissolved	0.00155		0.00020	mg/L		15-JAN-20	R4971346
Selenium (Se)-Dissolved	0.000135	<T	0.000050	mg/L		15-JAN-20	R4971346
Silicon (Si)-Dissolved	2.52		0.050	mg/L		15-JAN-20	R4971346
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		15-JAN-20	R4971346
Sodium (Na)-Dissolved	2.64		0.10	mg/L		15-JAN-20	R4971346
Strontium (Sr)-Dissolved	0.0251		0.0010	mg/L		15-JAN-20	R4971346
Sulfur (S)-Dissolved	1.0		0.50	mg/L		15-JAN-20	R4971346
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Thallium (Tl)-Dissolved	<0.0000001	<W	0.00030	mg/L		15-JAN-20	R4971346
Thorium (Th)-Dissolved	0.000028	<DL	0.00010	mg/L		15-JAN-20	R4971346
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Titanium (Ti)-Dissolved	0.00082	<DL	0.0020	mg/L		15-JAN-20	R4971346
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		15-JAN-20	R4971346
Uranium (U)-Dissolved	0.0000862	<DL	0.0050	mg/L		15-JAN-20	R4971346
Vanadium (V)-Dissolved	0.00022	<DL	0.0010	mg/L		15-JAN-20	R4971346
Zinc (Zn)-Dissolved	0.0018	<DL	0.0030	mg/L		15-JAN-20	R4971346
Zirconium (Zr)-Dissolved	0.000156	<DL	0.0010	mg/L		15-JAN-20	R4971346
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		15-JAN-20	R4973221
Chemical Oxygen Demand	35		20	mg/L		15-JAN-20	R4970113
Oil and Grease, Total	<0.2	<W	1.0	mg/L	17-JAN-20	17-JAN-20	R4972403
L2405423-2 SW15 Sampled By: Client on 09-JAN-20 @ 14:30 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	4.06		0	mg/L		15-JAN-20	R4969028
pH, Client Supplied	6.55		0.10	pH		15-JAN-20	R4969028
Temperature, Client Supplied	.19		0	Degree C		15-JAN-20	R4969028
Physical Tests							
Color, True	163		2.0	CU		15-JAN-20	R4970285

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-2 SW15							
Sampled By: Client on 09-JAN-20 @ 14:30							
Matrix: Water							
Physical Tests							
Conductivity (EC)	254		1.0	uS/cm		15-JAN-20	R4971531
Hardness (as CaCO3)	140		0.51	mg/L		19-JAN-20	
pH	7.19		0.10	pH		15-JAN-20	R4971531
Total Suspended Solids	9.5		2.0	mg/L		15-JAN-20	R4971826
Total Dissolved Solids	202		13	mg/L		15-JAN-20	R4971910
Turbidity	14.2		0.10	NTU		15-JAN-20	R4970053
Anions and Nutrients							
Acidity (as CaCO3)	7.8		2.0	mg/L		17-JAN-20	R4972787
Alkalinity, Total (as CaCO3)	144		2.0	mg/L		15-JAN-20	R4971531
Ammonia, Total (as N)	0.052	<T	0.020	mg/L		15-JAN-20	R4970888
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-JAN-20	
Chloride (Cl)	3.22		0.10	mg/L		15-JAN-20	R4971358
Fluoride (F)	0.047		0.020	mg/L		15-JAN-20	R4971358
Nitrate (as N)	0.074	<T	0.020	mg/L		15-JAN-20	R4971358
Nitrite (as N)	<0.0005	<W	0.010	mg/L		15-JAN-20	R4971358
Orthophosphate-Dissolved (as P)	0.0158		0.0030	mg/L		15-JAN-20	R4970052
Sulfate (SO4)	5.24		0.30	mg/L		15-JAN-20	R4971358
Cyanides							
Cyanide, Weak Acid Diss	0.0006	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Total	0.0006	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Free	0.0006	<DL	0.0020	mg/L		16-JAN-20	R4972272
Organic / Inorganic Carbon							
Dissolved Organic Carbon	32.5	HTA	0.50	mg/L		17-JAN-20	R4972937
Total Organic Carbon	34.2		0.50	mg/L		17-JAN-20	R4972936
Total Metals							
Aluminum (Al)-Total	0.416		0.0050	mg/L		17-JAN-20	R4972785
Antimony (Sb)-Total	0.00006	<DL	0.00060	mg/L		17-JAN-20	R4972785
Arsenic (As)-Total	0.00098	<DL	0.0010	mg/L		17-JAN-20	R4972785
Barium (Ba)-Total	0.0187		0.010	mg/L		17-JAN-20	R4972785
Beryllium (Be)-Total	0.000033	<DL	0.0010	mg/L		17-JAN-20	R4972785
Bismuth (Bi)-Total	0.000004	<DL	0.0010	mg/L		17-JAN-20	R4972785
Boron (B)-Total	0.0085	<DL	0.050	mg/L		17-JAN-20	R4972785
Cadmium (Cd)-Total	0.000019	<T	0.000017	mg/L		17-JAN-20	R4972785
Calcium (Ca)-Total	32.4		0.20	mg/L		17-JAN-20	R4972785
Cesium (Cs)-Total	0.0000575		0.000010	mg/L		17-JAN-20	R4972785
Chromium (Cr)-Total	0.00122		0.0010	mg/L		17-JAN-20	R4972785
Cobalt (Co)-Total	0.000470	<DL	0.00050	mg/L		17-JAN-20	R4972785
Copper (Cu)-Total	0.00146	<T	0.0010	mg/L		17-JAN-20	R4972785
Iron (Fe)-Total	1.14		0.020	mg/L		17-JAN-20	R4972785
Lead (Pb)-Total	0.000360	<T	0.000050	mg/L		17-JAN-20	R4972785
Lithium (Li)-Total	0.0064	<DL	0.050	mg/L		17-JAN-20	R4972785
Magnesium (Mg)-Total	15.3		0.020	mg/L		17-JAN-20	R4972785

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-2 SW15							
Sampled By: Client on 09-JAN-20 @ 14:30							
Matrix: Water							
Total Metals							
Manganese (Mn)-Total	0.101		0.0010	mg/L		17-JAN-20	R4972785
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972279
Molybdenum (Mo)-Total	0.000240	<DL	0.0010	mg/L		17-JAN-20	R4972785
Nickel (Ni)-Total	0.00194	<DL	0.0020	mg/L		17-JAN-20	R4972785
Phosphorus (P)-Total	0.040	<DL	0.050	mg/L		17-JAN-20	R4972785
Potassium (K)-Total	1.24		0.50	mg/L		17-JAN-20	R4972785
Rubidium (Rb)-Total	0.00221		0.00020	mg/L		17-JAN-20	R4972785
Selenium (Se)-Total	0.000160	<T	0.000050	mg/L		17-JAN-20	R4972785
Silicon (Si)-Total	7.25		0.10	mg/L		17-JAN-20	R4972785
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		17-JAN-20	R4972785
Sodium (Na)-Total	3.91		0.10	mg/L		17-JAN-20	R4972785
Strontium (Sr)-Total	0.0714		0.0010	mg/L		17-JAN-20	R4972785
Sulfur (S)-Total	2.3		0.50	mg/L		17-JAN-20	R4972785
Tellurium (Te)-Total	0.00001	<DL	0.0010	mg/L		17-JAN-20	R4972785
Thallium (Tl)-Total	0.0000082	<DL	0.00030	mg/L		17-JAN-20	R4972785
Thorium (Th)-Total	0.000114		0.00010	mg/L		17-JAN-20	R4972785
Tin (Sn)-Total	0.00036	<DL	0.0010	mg/L		17-JAN-20	R4972785
Titanium (Ti)-Total	0.0134		0.0020	mg/L		17-JAN-20	R4972785
Tungsten (W)-Total	0.000002	<DL	0.010	mg/L		17-JAN-20	R4972785
Uranium (U)-Total	0.000750	<DL	0.0050	mg/L		17-JAN-20	R4972785
Vanadium (V)-Total	0.00145	<T	0.0010	mg/L		17-JAN-20	R4972785
Zinc (Zn)-Total	0.0054	<T	0.0030	mg/L		17-JAN-20	R4972785
Zirconium (Zr)-Total	0.000636	<DL	0.0010	mg/L		17-JAN-20	R4972785
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					15-JAN-20	R4969510
Aluminum (Al)-Dissolved	0.0668		0.0050	mg/L		15-JAN-20	R4971346
Antimony (Sb)-Dissolved	0.000045	<DL	0.00060	mg/L		15-JAN-20	R4971346
Arsenic (As)-Dissolved	0.000880	<DL	0.0010	mg/L		15-JAN-20	R4971346
Barium (Ba)-Dissolved	0.0156		0.010	mg/L		15-JAN-20	R4971346
Beryllium (Be)-Dissolved	0.000010	<DL	0.0010	mg/L		15-JAN-20	R4971346
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Boron (B)-Dissolved	0.0090	<DL	0.050	mg/L		15-JAN-20	R4971346
Cadmium (Cd)-Dissolved	0.0000150	<DL	0.000017	mg/L		15-JAN-20	R4971346
Calcium (Ca)-Dissolved	31.9		0.20	mg/L		15-JAN-20	R4971346
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		15-JAN-20	R4971346
Chromium (Cr)-Dissolved	0.00048	<DL	0.0010	mg/L		15-JAN-20	R4971346
Cobalt (Co)-Dissolved	0.000282	<DL	0.00050	mg/L		15-JAN-20	R4971346
Copper (Cu)-Dissolved	0.00102	<T	0.0010	mg/L		15-JAN-20	R4971346
Iron (Fe)-Dissolved	0.616		0.020	mg/L		15-JAN-20	R4971346
Lead (Pb)-Dissolved	0.000140	<T	0.000050	mg/L		15-JAN-20	R4971346
Lithium (Li)-Dissolved	0.0052	<DL	0.050	mg/L		15-JAN-20	R4971346

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-2 SW15 Sampled By: Client on 09-JAN-20 @ 14:30 Matrix: Water							
Dissolved Metals							
Magnesium (Mg)-Dissolved	14.7		0.020	mg/L		15-JAN-20	R4971346
Manganese (Mn)-Dissolved	0.0886		0.0010	mg/L		15-JAN-20	R4971346
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972252
Molybdenum (Mo)-Dissolved	0.000206	<DL	0.0010	mg/L		15-JAN-20	R4971346
Nickel (Ni)-Dissolved	0.00134	<DL	0.0020	mg/L		15-JAN-20	R4971346
Phosphorus (P)-Dissolved	0.018	<DL	0.050	mg/L		15-JAN-20	R4971346
Potassium (K)-Dissolved	1.12		0.50	mg/L		15-JAN-20	R4971346
Rubidium (Rb)-Dissolved	0.00143		0.00020	mg/L		15-JAN-20	R4971346
Selenium (Se)-Dissolved	0.000175	<T	0.000050	mg/L		15-JAN-20	R4971346
Silicon (Si)-Dissolved	6.63		0.050	mg/L		15-JAN-20	R4971346
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		15-JAN-20	R4971346
Sodium (Na)-Dissolved	3.48		0.10	mg/L		15-JAN-20	R4971346
Strontium (Sr)-Dissolved	0.0681		0.0010	mg/L		15-JAN-20	R4971346
Sulfur (S)-Dissolved	2.0		0.50	mg/L		15-JAN-20	R4971346
Tellurium (Te)-Dissolved	0.000005	<DL	0.0010	mg/L		15-JAN-20	R4971346
Thallium (Tl)-Dissolved	<0.0000001	<W	0.00030	mg/L		15-JAN-20	R4971346
Thorium (Th)-Dissolved	0.000060	<DL	0.00010	mg/L		15-JAN-20	R4971346
Tin (Sn)-Dissolved	0.000070	<DL	0.0010	mg/L		15-JAN-20	R4971346
Titanium (Ti)-Dissolved	0.00390		0.0020	mg/L		15-JAN-20	R4971346
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		15-JAN-20	R4971346
Uranium (U)-Dissolved	0.000723	<DL	0.0050	mg/L		15-JAN-20	R4971346
Vanadium (V)-Dissolved	0.00058	<DL	0.0010	mg/L		15-JAN-20	R4971346
Zinc (Zn)-Dissolved	0.0030	<T	0.0030	mg/L		15-JAN-20	R4971346
Zirconium (Zr)-Dissolved	0.000484	<DL	0.0010	mg/L		15-JAN-20	R4971346
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		15-JAN-20	R4973221
Chemical Oxygen Demand	93		20	mg/L		15-JAN-20	R4970113
Oil and Grease, Total	0.4	<DL	1.0	mg/L	17-JAN-20	17-JAN-20	R4972403
L2405423-3 SW24 Sampled By: Client on 09-JAN-20 @ 13:40 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	12.61		0	mg/L		15-JAN-20	R4969028
pH, Client Supplied	7.06		0.10	pH		15-JAN-20	R4969028
Temperature, Client Supplied	0		0	Degree C		15-JAN-20	R4969028
Physical Tests							
Color, True	130		2.0	CU		15-JAN-20	R4970285
Conductivity (EC)	322		1.0	uS/cm		15-JAN-20	R4971531
Hardness (as CaCO3)	170		0.51	mg/L		19-JAN-20	
pH	7.31		0.10	pH		15-JAN-20	R4971531
Total Suspended Solids	10.5		2.0	mg/L		15-JAN-20	R4971826
Total Dissolved Solids	236		20	mg/L		15-JAN-20	R4971910

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-3 SW24							
Sampled By: Client on 09-JAN-20 @ 13:40							
Matrix: Water							
Physical Tests							
Turbidity	14.9		0.10	NTU		15-JAN-20	R4970053
Anions and Nutrients							
Acidity (as CaCO3)	7.4		2.0	mg/L		17-JAN-20	R4972787
Alkalinity, Total (as CaCO3)	174		2.0	mg/L		15-JAN-20	R4971531
Ammonia, Total (as N)	0.050	<T	0.020	mg/L		15-JAN-20	R4970888
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-JAN-20	
Chloride (Cl)	5.48		0.10	mg/L		15-JAN-20	R4971358
Fluoride (F)	0.047		0.020	mg/L		15-JAN-20	R4971358
Nitrate (as N)	0.048	<T	0.020	mg/L		15-JAN-20	R4971358
Nitrite (as N)	<0.0005	<W	0.010	mg/L		15-JAN-20	R4971358
Orthophosphate-Dissolved (as P)	0.0293		0.0030	mg/L		15-JAN-20	R4970052
Sulfate (SO4)	3.92	<T	0.30	mg/L		15-JAN-20	R4971358
Cyanides							
Cyanide, Weak Acid Diss	0.0007	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Total	0.0008	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Free	0.0004	<DL	0.0020	mg/L		16-JAN-20	R4972272
Organic / Inorganic Carbon							
Dissolved Organic Carbon	30.1	HTA	0.50	mg/L		17-JAN-20	R4972937
Total Organic Carbon	30.8		0.50	mg/L		17-JAN-20	R4972936
Total Metals							
Aluminum (Al)-Total	0.453		0.0050	mg/L		17-JAN-20	R4972785
Antimony (Sb)-Total	0.00006	<DL	0.00060	mg/L		17-JAN-20	R4972785
Arsenic (As)-Total	0.00104	<T	0.0010	mg/L		17-JAN-20	R4972785
Barium (Ba)-Total	0.0195		0.010	mg/L		17-JAN-20	R4972785
Beryllium (Be)-Total	0.000033	<DL	0.0010	mg/L		17-JAN-20	R4972785
Bismuth (Bi)-Total	0.000004	<DL	0.0010	mg/L		17-JAN-20	R4972785
Boron (B)-Total	0.0090	<DL	0.050	mg/L		17-JAN-20	R4972785
Cadmium (Cd)-Total	0.000018	<T	0.000017	mg/L		17-JAN-20	R4972785
Calcium (Ca)-Total	40.3		0.20	mg/L		17-JAN-20	R4972785
Cesium (Cs)-Total	0.0000575		0.000010	mg/L		17-JAN-20	R4972785
Chromium (Cr)-Total	0.00106		0.0010	mg/L		17-JAN-20	R4972785
Cobalt (Co)-Total	0.000734	<T	0.00050	mg/L		17-JAN-20	R4972785
Copper (Cu)-Total	0.00152	<T	0.0010	mg/L		17-JAN-20	R4972785
Iron (Fe)-Total	1.48		0.020	mg/L		17-JAN-20	R4972785
Lead (Pb)-Total	0.000370	<T	0.000050	mg/L		17-JAN-20	R4972785
Lithium (Li)-Total	0.0058	<DL	0.050	mg/L		17-JAN-20	R4972785
Magnesium (Mg)-Total	18.1		0.020	mg/L		17-JAN-20	R4972785
Manganese (Mn)-Total	0.243		0.0010	mg/L		17-JAN-20	R4972785
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972279
Molybdenum (Mo)-Total	0.000265	<DL	0.0010	mg/L		17-JAN-20	R4972785
Nickel (Ni)-Total	0.00234	<T	0.0020	mg/L		17-JAN-20	R4972785
Phosphorus (P)-Total	0.065		0.050	mg/L		17-JAN-20	R4972785

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-3 SW24							
Sampled By: Client on 09-JAN-20 @ 13:40							
Matrix: Water							
Total Metals							
Potassium (K)-Total	1.51		0.50	mg/L		17-JAN-20	R4972785
Rubidium (Rb)-Total	0.00238		0.00020	mg/L		17-JAN-20	R4972785
Selenium (Se)-Total	0.000195	<T	0.000050	mg/L		17-JAN-20	R4972785
Silicon (Si)-Total	7.81		0.10	mg/L		17-JAN-20	R4972785
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		17-JAN-20	R4972785
Sodium (Na)-Total	4.32		0.10	mg/L		17-JAN-20	R4972785
Strontium (Sr)-Total	0.0879		0.0010	mg/L		17-JAN-20	R4972785
Sulfur (S)-Total	1.9		0.50	mg/L		17-JAN-20	R4972785
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		17-JAN-20	R4972785
Thallium (Tl)-Total	0.0000068	<DL	0.00030	mg/L		17-JAN-20	R4972785
Thorium (Th)-Total	0.000119		0.00010	mg/L		17-JAN-20	R4972785
Tin (Sn)-Total	0.00003	<DL	0.0010	mg/L		17-JAN-20	R4972785
Titanium (Ti)-Total	0.0150		0.0020	mg/L		17-JAN-20	R4972785
Tungsten (W)-Total	<0.000002	<W	0.010	mg/L		17-JAN-20	R4972785
Uranium (U)-Total	0.000890	<DL	0.0050	mg/L		17-JAN-20	R4972785
Vanadium (V)-Total	0.00170	<T	0.0010	mg/L		17-JAN-20	R4972785
Zinc (Zn)-Total	0.0058	<T	0.0030	mg/L		17-JAN-20	R4972785
Zirconium (Zr)-Total	0.000720	<DL	0.0010	mg/L		17-JAN-20	R4972785
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					15-JAN-20	R4969510
Aluminum (Al)-Dissolved	0.0416		0.0050	mg/L		15-JAN-20	R4971346
Antimony (Sb)-Dissolved	0.000050	<DL	0.00060	mg/L		15-JAN-20	R4971346
Arsenic (As)-Dissolved	0.000975	<DL	0.0010	mg/L		15-JAN-20	R4971346
Barium (Ba)-Dissolved	0.0160		0.010	mg/L		15-JAN-20	R4971346
Beryllium (Be)-Dissolved	0.000018	<DL	0.0010	mg/L		15-JAN-20	R4971346
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Boron (B)-Dissolved	0.0090	<DL	0.050	mg/L		15-JAN-20	R4971346
Cadmium (Cd)-Dissolved	0.0000090	<DL	0.000017	mg/L		15-JAN-20	R4971346
Calcium (Ca)-Dissolved	40.1		0.20	mg/L		15-JAN-20	R4971346
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		15-JAN-20	R4971346
Chromium (Cr)-Dissolved	0.00026	<DL	0.0010	mg/L		15-JAN-20	R4971346
Cobalt (Co)-Dissolved	0.000475	<DL	0.00050	mg/L		15-JAN-20	R4971346
Copper (Cu)-Dissolved	0.00110	<T	0.0010	mg/L		15-JAN-20	R4971346
Iron (Fe)-Dissolved	0.816		0.020	mg/L		15-JAN-20	R4971346
Lead (Pb)-Dissolved	0.000155	<T	0.000050	mg/L		15-JAN-20	R4971346
Lithium (Li)-Dissolved	0.0046	<DL	0.050	mg/L		15-JAN-20	R4971346
Magnesium (Mg)-Dissolved	17.0		0.020	mg/L		15-JAN-20	R4971346
Manganese (Mn)-Dissolved	0.204		0.0010	mg/L		15-JAN-20	R4971346
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972252
Molybdenum (Mo)-Dissolved	0.000248	<DL	0.0010	mg/L		15-JAN-20	R4971346
Nickel (Ni)-Dissolved	0.00168	<DL	0.0020	mg/L		15-JAN-20	R4971346

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-3 SW24 Sampled By: Client on 09-JAN-20 @ 13:40 Matrix: Water							
Dissolved Metals							
Phosphorus (P)-Dissolved	0.036	<DL	0.050	mg/L		15-JAN-20	R4971346
Potassium (K)-Dissolved	1.33		0.50	mg/L		15-JAN-20	R4971346
Rubidium (Rb)-Dissolved	0.00138		0.00020	mg/L		15-JAN-20	R4971346
Selenium (Se)-Dissolved	0.000200	<T	0.000050	mg/L		15-JAN-20	R4971346
Silicon (Si)-Dissolved	7.00		0.050	mg/L		15-JAN-20	R4971346
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		15-JAN-20	R4971346
Sodium (Na)-Dissolved	3.94		0.10	mg/L		15-JAN-20	R4971346
Strontium (Sr)-Dissolved	0.0830		0.0010	mg/L		15-JAN-20	R4971346
Sulfur (S)-Dissolved	1.6		0.50	mg/L		15-JAN-20	R4971346
Tellurium (Te)-Dissolved	0.000005	<DL	0.0010	mg/L		15-JAN-20	R4971346
Thallium (Tl)-Dissolved	<0.0000001	<W	0.00030	mg/L		15-JAN-20	R4971346
Thorium (Th)-Dissolved	0.000048	<DL	0.00010	mg/L		15-JAN-20	R4971346
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Titanium (Ti)-Dissolved	0.00300		0.0020	mg/L		15-JAN-20	R4971346
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		15-JAN-20	R4971346
Uranium (U)-Dissolved	0.000848	<DL	0.0050	mg/L		15-JAN-20	R4971346
Vanadium (V)-Dissolved	0.00062	<DL	0.0010	mg/L		15-JAN-20	R4971346
Zinc (Zn)-Dissolved	0.0034	<T	0.0030	mg/L		15-JAN-20	R4971346
Zirconium (Zr)-Dissolved	0.000526	<DL	0.0010	mg/L		15-JAN-20	R4971346
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		15-JAN-20	R4973221
Chemical Oxygen Demand	87		20	mg/L		15-JAN-20	R4970113
Oil and Grease, Total	0.8	<DL	1.0	mg/L	17-JAN-20	17-JAN-20	R4972403
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		29-JAN-20	R4990265
L2405423-4 SW23 Sampled By: Client on 09-JAN-20 @ 13:20 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	5.53		0	mg/L		15-JAN-20	R4969028
pH, Client Supplied	6.81		0.10	pH		15-JAN-20	R4969028
Temperature, Client Supplied	0		0	Degree C		15-JAN-20	R4969028
Physical Tests							
Color, True	126		2.0	CU		15-JAN-20	R4970285
Conductivity (EC)	323		1.0	uS/cm		15-JAN-20	R4971531
Hardness (as CaCO3)	174		0.51	mg/L		19-JAN-20	
pH	7.34		0.10	pH		15-JAN-20	R4971531
Total Suspended Solids	11.5		2.0	mg/L		15-JAN-20	R4971826
Total Dissolved Solids	234		20	mg/L		15-JAN-20	R4971910
Turbidity	14.5		0.10	NTU		15-JAN-20	R4970053
Anions and Nutrients							
Acidity (as CaCO3)	7.2		2.0	mg/L		17-JAN-20	R4972787

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-4 SW23							
Sampled By: Client on 09-JAN-20 @ 13:20							
Matrix: Water							
Anions and Nutrients							
Alkalinity, Total (as CaCO ₃)	174		2.0	mg/L		15-JAN-20	R4971531
Ammonia, Total (as N)	0.052	<T	0.020	mg/L		15-JAN-20	R4970888
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-JAN-20	
Chloride (Cl)	5.55		0.10	mg/L		15-JAN-20	R4971358
Fluoride (F)	0.062		0.020	mg/L		15-JAN-20	R4971358
Nitrate (as N)	0.053	<T	0.020	mg/L		15-JAN-20	R4971358
Nitrite (as N)	0.0020	<DL	0.010	mg/L		15-JAN-20	R4971358
Orthophosphate-Dissolved (as P)	0.0287		0.0030	mg/L		15-JAN-20	R4970052
Sulfate (SO ₄)	3.94	<T	0.30	mg/L		15-JAN-20	R4971358
Cyanides							
Cyanide, Weak Acid Diss	0.0008	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Total	0.0008	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Free	0.0007	<DL	0.0020	mg/L		16-JAN-20	R4972272
Organic / Inorganic Carbon							
Dissolved Organic Carbon	29.4	HTA	0.50	mg/L		17-JAN-20	R4972937
Total Organic Carbon	31.2		0.50	mg/L		17-JAN-20	R4972936
Total Metals							
Aluminum (Al)-Total	0.431		0.0050	mg/L		17-JAN-20	R4972785
Antimony (Sb)-Total	0.00006	<DL	0.00060	mg/L		17-JAN-20	R4972785
Arsenic (As)-Total	0.00106	<T	0.0010	mg/L		17-JAN-20	R4972785
Barium (Ba)-Total	0.0191		0.010	mg/L		17-JAN-20	R4972785
Beryllium (Be)-Total	0.000033	<DL	0.0010	mg/L		17-JAN-20	R4972785
Bismuth (Bi)-Total	0.000004	<DL	0.0010	mg/L		17-JAN-20	R4972785
Boron (B)-Total	0.0090	<DL	0.050	mg/L		17-JAN-20	R4972785
Cadmium (Cd)-Total	0.000018	<T	0.000017	mg/L		17-JAN-20	R4972785
Calcium (Ca)-Total	40.6		0.20	mg/L		17-JAN-20	R4972785
Cesium (Cs)-Total	0.0000565		0.000010	mg/L		17-JAN-20	R4972785
Chromium (Cr)-Total	0.00108		0.0010	mg/L		17-JAN-20	R4972785
Cobalt (Co)-Total	0.000723	<T	0.00050	mg/L		17-JAN-20	R4972785
Copper (Cu)-Total	0.00156	<T	0.0010	mg/L		17-JAN-20	R4972785
Iron (Fe)-Total	1.51		0.020	mg/L		17-JAN-20	R4972785
Lead (Pb)-Total	0.000365	<T	0.000050	mg/L		17-JAN-20	R4972785
Lithium (Li)-Total	0.0056	<DL	0.050	mg/L		17-JAN-20	R4972785
Magnesium (Mg)-Total	17.9		0.020	mg/L		17-JAN-20	R4972785
Manganese (Mn)-Total	0.243		0.0010	mg/L		17-JAN-20	R4972785
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972279
Molybdenum (Mo)-Total	0.000370	<DL	0.0010	mg/L		17-JAN-20	R4972785
Nickel (Ni)-Total	0.00236	<T	0.0020	mg/L		17-JAN-20	R4972785
Phosphorus (P)-Total	0.080		0.050	mg/L		17-JAN-20	R4972785
Potassium (K)-Total	1.48		0.50	mg/L		17-JAN-20	R4972785
Rubidium (Rb)-Total	0.00230		0.00020	mg/L		17-JAN-20	R4972785
Selenium (Se)-Total	0.000220	<T	0.000050	mg/L		17-JAN-20	R4972785

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-4 SW23							
Sampled By: Client on 09-JAN-20 @ 13:20							
Matrix: Water							
Total Metals							
Silicon (Si)-Total	7.88		0.10	mg/L		17-JAN-20	R4972785
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		17-JAN-20	R4972785
Sodium (Na)-Total	4.42		0.10	mg/L		17-JAN-20	R4972785
Strontium (Sr)-Total	0.0891		0.0010	mg/L		17-JAN-20	R4972785
Sulfur (S)-Total	2.0		0.50	mg/L		17-JAN-20	R4972785
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		17-JAN-20	R4972785
Thallium (Tl)-Total	0.0000070	<DL	0.00030	mg/L		17-JAN-20	R4972785
Thorium (Th)-Total	0.000117		0.00010	mg/L		17-JAN-20	R4972785
Tin (Sn)-Total	0.00007	<DL	0.0010	mg/L		17-JAN-20	R4972785
Titanium (Ti)-Total	0.0140		0.0020	mg/L		17-JAN-20	R4972785
Tungsten (W)-Total	0.000004	<DL	0.010	mg/L		17-JAN-20	R4972785
Uranium (U)-Total	0.000885	<DL	0.0050	mg/L		17-JAN-20	R4972785
Vanadium (V)-Total	0.00170	<T	0.0010	mg/L		17-JAN-20	R4972785
Zinc (Zn)-Total	0.0050	<T	0.0030	mg/L		17-JAN-20	R4972785
Zirconium (Zr)-Total	0.000750	<DL	0.0010	mg/L		17-JAN-20	R4972785
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					15-JAN-20	R4969510
Aluminum (Al)-Dissolved	0.0384		0.0050	mg/L		15-JAN-20	R4971346
Antimony (Sb)-Dissolved	0.000050	<DL	0.00060	mg/L		15-JAN-20	R4971346
Arsenic (As)-Dissolved	0.000960	<DL	0.0010	mg/L		15-JAN-20	R4971346
Barium (Ba)-Dissolved	0.0159		0.010	mg/L		15-JAN-20	R4971346
Beryllium (Be)-Dissolved	0.000012	<DL	0.0010	mg/L		15-JAN-20	R4971346
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Boron (B)-Dissolved	0.0090	<DL	0.050	mg/L		15-JAN-20	R4971346
Cadmium (Cd)-Dissolved	0.0000110	<DL	0.000017	mg/L		15-JAN-20	R4971346
Calcium (Ca)-Dissolved	41.1		0.20	mg/L		15-JAN-20	R4971346
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		15-JAN-20	R4971346
Chromium (Cr)-Dissolved	0.00024	<DL	0.0010	mg/L		15-JAN-20	R4971346
Cobalt (Co)-Dissolved	0.000483	<DL	0.00050	mg/L		15-JAN-20	R4971346
Copper (Cu)-Dissolved	0.00114	<T	0.0010	mg/L		15-JAN-20	R4971346
Iron (Fe)-Dissolved	0.825		0.020	mg/L		15-JAN-20	R4971346
Lead (Pb)-Dissolved	0.000135	<T	0.000050	mg/L		15-JAN-20	R4971346
Lithium (Li)-Dissolved	0.0048	<DL	0.050	mg/L		15-JAN-20	R4971346
Magnesium (Mg)-Dissolved	17.4		0.020	mg/L		15-JAN-20	R4971346
Manganese (Mn)-Dissolved	0.208		0.0010	mg/L		15-JAN-20	R4971346
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972252
Molybdenum (Mo)-Dissolved	0.000332	<DL	0.0010	mg/L		15-JAN-20	R4971346
Nickel (Ni)-Dissolved	0.00166	<DL	0.0020	mg/L		15-JAN-20	R4971346
Phosphorus (P)-Dissolved	0.032	<DL	0.050	mg/L		15-JAN-20	R4971346
Potassium (K)-Dissolved	1.36		0.50	mg/L		15-JAN-20	R4971346
Rubidium (Rb)-Dissolved	0.00140		0.00020	mg/L		15-JAN-20	R4971346

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-4 SW23 Sampled By: Client on 09-JAN-20 @ 13:20 Matrix: Water							
Dissolved Metals							
Selenium (Se)-Dissolved	0.000205	<T	0.000050	mg/L		15-JAN-20	R4971346
Silicon (Si)-Dissolved	6.88		0.050	mg/L		15-JAN-20	R4971346
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		15-JAN-20	R4971346
Sodium (Na)-Dissolved	3.99		0.10	mg/L		15-JAN-20	R4971346
Strontium (Sr)-Dissolved	0.0849		0.0010	mg/L		15-JAN-20	R4971346
Sulfur (S)-Dissolved	1.6		0.50	mg/L		15-JAN-20	R4971346
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Thallium (Tl)-Dissolved	<0.0000001	<W	0.00030	mg/L		15-JAN-20	R4971346
Thorium (Th)-Dissolved	0.000050	<DL	0.00010	mg/L		15-JAN-20	R4971346
Tin (Sn)-Dissolved	0.000030	<DL	0.0010	mg/L		15-JAN-20	R4971346
Titanium (Ti)-Dissolved	0.00278		0.0020	mg/L		15-JAN-20	R4971346
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		15-JAN-20	R4971346
Uranium (U)-Dissolved	0.000846	<DL	0.0050	mg/L		15-JAN-20	R4971346
Vanadium (V)-Dissolved	0.00062	<DL	0.0010	mg/L		15-JAN-20	R4971346
Zinc (Zn)-Dissolved	0.0028	<DL	0.0030	mg/L		15-JAN-20	R4971346
Zirconium (Zr)-Dissolved	0.000510	<DL	0.0010	mg/L		15-JAN-20	R4971346
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		15-JAN-20	R4973221
Chemical Oxygen Demand	88		20	mg/L		15-JAN-20	R4970113
Oil and Grease, Total	0.8	<DL	1.0	mg/L	17-JAN-20	17-JAN-20	R4972403
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		29-JAN-20	R4990265
L2405423-5 SW22A Sampled By: Client on 09-JAN-20 @ 12:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	4.02		0	mg/L		15-JAN-20	R4969028
pH, Client Supplied	7.29		0.10	pH		15-JAN-20	R4969028
Temperature, Client Supplied	0		0	Degree C		15-JAN-20	R4969028
Physical Tests							
Color, True	117		2.0	CU		15-JAN-20	R4970285
Conductivity (EC)	371		1.0	uS/cm		15-JAN-20	R4971531
Hardness (as CaCO3)	204		0.51	mg/L		19-JAN-20	
pH	7.54		0.10	pH		15-JAN-20	R4971531
Total Suspended Solids	9.5		2.0	mg/L		15-JAN-20	R4971471
Total Dissolved Solids	270		20	mg/L		15-JAN-20	R4971910
Turbidity	11.4		0.10	NTU		15-JAN-20	R4970053
Anions and Nutrients							
Acidity (as CaCO3)	2.8		2.0	mg/L		17-JAN-20	R4972787
Alkalinity, Total (as CaCO3)	188		2.0	mg/L		15-JAN-20	R4971531
Ammonia, Total (as N)	0.062	<T	0.020	mg/L		15-JAN-20	R4970888
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-JAN-20	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-5 SW22A							
Sampled By: Client on 09-JAN-20 @ 12:00							
Matrix: Water							
Anions and Nutrients							
Chloride (Cl)	10.8		0.10	mg/L		15-JAN-20	R4971358
Fluoride (F)	0.050		0.020	mg/L		15-JAN-20	R4971358
Nitrate (as N)	0.060	<T	0.020	mg/L		15-JAN-20	R4971358
Nitrite (as N)	0.0205	<T	0.010	mg/L		15-JAN-20	R4971358
Orthophosphate-Dissolved (as P)	0.0402		0.0030	mg/L		15-JAN-20	R4970052
Sulfate (SO4)	7.60		0.30	mg/L		15-JAN-20	R4971358
Cyanides							
Cyanide, Weak Acid Diss	0.0008	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Total	0.0008	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Free	0.0008	<DL	0.0020	mg/L		16-JAN-20	R4972272
Organic / Inorganic Carbon							
Dissolved Organic Carbon	29.5	HTA	0.50	mg/L		17-JAN-20	R4972937
Total Organic Carbon	30.1		0.50	mg/L		17-JAN-20	R4972936
Total Metals							
Aluminum (Al)-Total	0.306		0.0050	mg/L		17-JAN-20	R4972785
Antimony (Sb)-Total	0.00006	<DL	0.00060	mg/L		17-JAN-20	R4972785
Arsenic (As)-Total	0.00101	<T	0.0010	mg/L		17-JAN-20	R4972785
Barium (Ba)-Total	0.0200		0.010	mg/L		17-JAN-20	R4972785
Beryllium (Be)-Total	0.000026	<DL	0.0010	mg/L		17-JAN-20	R4972785
Bismuth (Bi)-Total	<0.000002	<W	0.0010	mg/L		17-JAN-20	R4972785
Boron (B)-Total	0.0120	<DL	0.050	mg/L		17-JAN-20	R4972785
Cadmium (Cd)-Total	0.000024	<T	0.000017	mg/L		17-JAN-20	R4972785
Calcium (Ca)-Total	45.9		0.20	mg/L		17-JAN-20	R4972785
Cesium (Cs)-Total	0.0000375		0.000010	mg/L		17-JAN-20	R4972785
Chromium (Cr)-Total	0.00082	<DL	0.0010	mg/L		17-JAN-20	R4972785
Cobalt (Co)-Total	0.000648	<T	0.00050	mg/L		17-JAN-20	R4972785
Copper (Cu)-Total	0.00148	<T	0.0010	mg/L		17-JAN-20	R4972785
Iron (Fe)-Total	1.23		0.020	mg/L		17-JAN-20	R4972785
Lead (Pb)-Total	0.000240	<T	0.000050	mg/L		17-JAN-20	R4972785
Lithium (Li)-Total	0.0070	<DL	0.050	mg/L		17-JAN-20	R4972785
Magnesium (Mg)-Total	19.8		0.020	mg/L		17-JAN-20	R4972785
Manganese (Mn)-Total	0.315		0.0010	mg/L		17-JAN-20	R4972785
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972279
Molybdenum (Mo)-Total	0.000495	<DL	0.0010	mg/L		17-JAN-20	R4972785
Nickel (Ni)-Total	0.00210	<T	0.0020	mg/L		17-JAN-20	R4972785
Phosphorus (P)-Total	0.080		0.050	mg/L		17-JAN-20	R4972785
Potassium (K)-Total	1.78		0.50	mg/L		17-JAN-20	R4972785
Rubidium (Rb)-Total	0.00185		0.00020	mg/L		17-JAN-20	R4972785
Selenium (Se)-Total	0.000205	<T	0.000050	mg/L		17-JAN-20	R4972785
Silicon (Si)-Total	7.37		0.10	mg/L		17-JAN-20	R4972785
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		17-JAN-20	R4972785
Sodium (Na)-Total	6.53		0.10	mg/L		17-JAN-20	R4972785

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-5 SW22A							
Sampled By: Client on 09-JAN-20 @ 12:00							
Matrix: Water							
Total Metals							
Strontium (Sr)-Total	0.109		0.0010	mg/L		17-JAN-20	R4972785
Sulfur (S)-Total	3.3		0.50	mg/L		17-JAN-20	R4972785
Tellurium (Te)-Total	0.00001	<DL	0.0010	mg/L		17-JAN-20	R4972785
Thallium (Tl)-Total	0.0000046	<DL	0.00030	mg/L		17-JAN-20	R4972785
Thorium (Th)-Total	0.000080	<DL	0.00010	mg/L		17-JAN-20	R4972785
Tin (Sn)-Total	0.00034	<DL	0.0010	mg/L		17-JAN-20	R4972785
Titanium (Ti)-Total	0.00944		0.0020	mg/L		17-JAN-20	R4972785
Tungsten (W)-Total	0.000004	<DL	0.010	mg/L		17-JAN-20	R4972785
Uranium (U)-Total	0.00111	<DL	0.0050	mg/L		17-JAN-20	R4972785
Vanadium (V)-Total	0.00130	<T	0.0010	mg/L		17-JAN-20	R4972785
Zinc (Zn)-Total	0.0104		0.0030	mg/L		17-JAN-20	R4972785
Zirconium (Zr)-Total	0.000600	<DL	0.0010	mg/L		17-JAN-20	R4972785
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					15-JAN-20	R4969510
Aluminum (Al)-Dissolved	0.0246	<T	0.0050	mg/L		15-JAN-20	R4971346
Antimony (Sb)-Dissolved	0.000060	<DL	0.00060	mg/L		15-JAN-20	R4971346
Arsenic (As)-Dissolved	0.00102	<T	0.0010	mg/L		15-JAN-20	R4971346
Barium (Ba)-Dissolved	0.0186		0.010	mg/L		15-JAN-20	R4971346
Beryllium (Be)-Dissolved	0.000010	<DL	0.0010	mg/L		15-JAN-20	R4971346
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Boron (B)-Dissolved	0.0120	<DL	0.050	mg/L		15-JAN-20	R4971346
Cadmium (Cd)-Dissolved	0.0000085	<DL	0.000017	mg/L		15-JAN-20	R4971346
Calcium (Ca)-Dissolved	48.2		0.20	mg/L		15-JAN-20	R4971346
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		15-JAN-20	R4971346
Chromium (Cr)-Dissolved	0.00024	<DL	0.0010	mg/L		15-JAN-20	R4971346
Cobalt (Co)-Dissolved	0.000512	<T	0.00050	mg/L		15-JAN-20	R4971346
Copper (Cu)-Dissolved	0.00110	<T	0.0010	mg/L		15-JAN-20	R4971346
Iron (Fe)-Dissolved	0.771		0.020	mg/L		15-JAN-20	R4971346
Lead (Pb)-Dissolved	0.000100	<T	0.000050	mg/L		15-JAN-20	R4971346
Lithium (Li)-Dissolved	0.0060	<DL	0.050	mg/L		15-JAN-20	R4971346
Magnesium (Mg)-Dissolved	20.3		0.020	mg/L		15-JAN-20	R4971346
Manganese (Mn)-Dissolved	0.297		0.0010	mg/L		15-JAN-20	R4971346
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972252
Molybdenum (Mo)-Dissolved	0.000444	<DL	0.0010	mg/L		15-JAN-20	R4971346
Nickel (Ni)-Dissolved	0.00176	<DL	0.0020	mg/L		15-JAN-20	R4971346
Phosphorus (P)-Dissolved	0.048	<DL	0.050	mg/L		15-JAN-20	R4971346
Potassium (K)-Dissolved	1.77		0.50	mg/L		15-JAN-20	R4971346
Rubidium (Rb)-Dissolved	0.00136		0.00020	mg/L		15-JAN-20	R4971346
Selenium (Se)-Dissolved	0.000210	<T	0.000050	mg/L		15-JAN-20	R4971346
Silicon (Si)-Dissolved	7.06		0.050	mg/L		15-JAN-20	R4971346
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		15-JAN-20	R4971346

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-5 SW22A Sampled By: Client on 09-JAN-20 @ 12:00 Matrix: Water							
Dissolved Metals							
Sodium (Na)-Dissolved	6.39		0.10	mg/L		15-JAN-20	R4971346
Strontium (Sr)-Dissolved	0.109		0.0010	mg/L		15-JAN-20	R4971346
Sulfur (S)-Dissolved	3.3		0.50	mg/L		15-JAN-20	R4971346
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Thallium (Tl)-Dissolved	<0.0000001	<W	0.00030	mg/L		15-JAN-20	R4971346
Thorium (Th)-Dissolved	0.000052	<DL	0.00010	mg/L		15-JAN-20	R4971346
Tin (Sn)-Dissolved	0.000190	<DL	0.0010	mg/L		15-JAN-20	R4971346
Titanium (Ti)-Dissolved	0.00232		0.0020	mg/L		15-JAN-20	R4971346
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		15-JAN-20	R4971346
Uranium (U)-Dissolved	0.00115	<DL	0.0050	mg/L		15-JAN-20	R4971346
Vanadium (V)-Dissolved	0.00064	<DL	0.0010	mg/L		15-JAN-20	R4971346
Zinc (Zn)-Dissolved	0.0092	<T	0.0030	mg/L		15-JAN-20	R4971346
Zirconium (Zr)-Dissolved	0.000500	<DL	0.0010	mg/L		15-JAN-20	R4971346
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		15-JAN-20	R4973221
Chemical Oxygen Demand	84		20	mg/L		15-JAN-20	R4970113
Oil and Grease, Total	<0.2	<W	1.0	mg/L	17-JAN-20	17-JAN-20	R4972403
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		29-JAN-20	R4990265
L2405423-6 SW27 Sampled By: Client on 09-JAN-20 @ 11:30 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	9.62		0	mg/L		15-JAN-20	R4969028
pH, Client Supplied	7.51		0.10	pH		15-JAN-20	R4969028
Temperature, Client Supplied	0		0	Degree C		15-JAN-20	R4969028
Physical Tests							
Color, True	103		2.0	CU		15-JAN-20	R4970285
Conductivity (EC)	317		1.0	uS/cm		15-JAN-20	R4971531
Hardness (as CaCO3)	168		0.51	mg/L		19-JAN-20	
pH	7.64		0.10	pH		15-JAN-20	R4971531
Total Suspended Solids	6.0		2.0	mg/L		15-JAN-20	R4971471
Total Dissolved Solids	218		20	mg/L		15-JAN-20	R4971910
Turbidity	8.10		0.10	NTU		15-JAN-20	R4970053
Anions and Nutrients							
Acidity (as CaCO3)	2.4		2.0	mg/L		17-JAN-20	R4972787
Alkalinity, Total (as CaCO3)	165		2.0	mg/L		15-JAN-20	R4971531
Ammonia, Total (as N)	0.038	<T	0.020	mg/L		15-JAN-20	R4970888
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-JAN-20	
Chloride (Cl)	7.07		0.10	mg/L		15-JAN-20	R4971358
Fluoride (F)	0.050		0.020	mg/L		15-JAN-20	R4971358
Nitrate (as N)	0.055	<T	0.020	mg/L		15-JAN-20	R4971358

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-6 SW27							
Sampled By: Client on 09-JAN-20 @ 11:30							
Matrix: Water							
Anions and Nutrients							
Nitrite (as N)	0.0110	<T	0.010	mg/L		15-JAN-20	R4971358
Orthophosphate-Dissolved (as P)	0.0057		0.0030	mg/L		15-JAN-20	R4970052
Sulfate (SO4)	4.86	<T	0.30	mg/L		15-JAN-20	R4971358
Cyanides							
Cyanide, Weak Acid Diss	0.0008	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Total	0.0008	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Free	0.0008	<DL	0.0020	mg/L		16-JAN-20	R4972272
Organic / Inorganic Carbon							
Dissolved Organic Carbon	24.3	HTA	0.50	mg/L		17-JAN-20	R4972937
Total Organic Carbon	24.2		0.50	mg/L		17-JAN-20	R4972936
Total Metals							
Aluminum (Al)-Total	0.191		0.0050	mg/L		17-JAN-20	R4972785
Antimony (Sb)-Total	0.00006	<DL	0.00060	mg/L		17-JAN-20	R4972785
Arsenic (As)-Total	0.00088	<DL	0.0010	mg/L		17-JAN-20	R4972785
Barium (Ba)-Total	0.0182		0.010	mg/L		17-JAN-20	R4972785
Beryllium (Be)-Total	0.000023	<DL	0.0010	mg/L		17-JAN-20	R4972785
Bismuth (Bi)-Total	<0.000002	<W	0.0010	mg/L		17-JAN-20	R4972785
Boron (B)-Total	0.0095	<DL	0.050	mg/L		17-JAN-20	R4972785
Cadmium (Cd)-Total	0.000009	<DL	0.000017	mg/L		17-JAN-20	R4972785
Calcium (Ca)-Total	41.0		0.20	mg/L		17-JAN-20	R4972785
Cesium (Cs)-Total	0.0000220		0.000010	mg/L		17-JAN-20	R4972785
Chromium (Cr)-Total	0.00072	<DL	0.0010	mg/L		17-JAN-20	R4972785
Cobalt (Co)-Total	0.000351	<DL	0.00050	mg/L		17-JAN-20	R4972785
Copper (Cu)-Total	0.00174	<T	0.0010	mg/L		17-JAN-20	R4972785
Iron (Fe)-Total	0.683		0.020	mg/L		17-JAN-20	R4972785
Lead (Pb)-Total	0.000155	<T	0.000050	mg/L		17-JAN-20	R4972785
Lithium (Li)-Total	0.0050	<DL	0.050	mg/L		17-JAN-20	R4972785
Magnesium (Mg)-Total	17.0		0.020	mg/L		17-JAN-20	R4972785
Manganese (Mn)-Total	0.169		0.0010	mg/L		17-JAN-20	R4972785
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972279
Molybdenum (Mo)-Total	0.000500	<DL	0.0010	mg/L		17-JAN-20	R4972785
Nickel (Ni)-Total	0.00158	<DL	0.0020	mg/L		17-JAN-20	R4972785
Phosphorus (P)-Total	0.020	<DL	0.050	mg/L		17-JAN-20	R4972785
Potassium (K)-Total	1.36		0.50	mg/L		17-JAN-20	R4972785
Rubidium (Rb)-Total	0.00140		0.00020	mg/L		17-JAN-20	R4972785
Selenium (Se)-Total	0.000170	<T	0.000050	mg/L		17-JAN-20	R4972785
Silicon (Si)-Total	5.80		0.10	mg/L		17-JAN-20	R4972785
Silver (Ag)-Total	0.000004	<DL	0.00010	mg/L		17-JAN-20	R4972785
Sodium (Na)-Total	3.50		0.10	mg/L		17-JAN-20	R4972785
Strontium (Sr)-Total	0.0834		0.0010	mg/L		17-JAN-20	R4972785
Sulfur (S)-Total	2.3		0.50	mg/L		17-JAN-20	R4972785
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		17-JAN-20	R4972785

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-6 SW27							
Sampled By: Client on 09-JAN-20 @ 11:30							
Matrix: Water							
Total Metals							
Thallium (Tl)-Total	0.0000028	<DL	0.00030	mg/L		17-JAN-20	R4972785
Thorium (Th)-Total	0.000061	<DL	0.00010	mg/L		17-JAN-20	R4972785
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		17-JAN-20	R4972785
Titanium (Ti)-Total	0.00606		0.0020	mg/L		17-JAN-20	R4972785
Tungsten (W)-Total	<0.000002	<W	0.010	mg/L		17-JAN-20	R4972785
Uranium (U)-Total	0.00127	<DL	0.0050	mg/L		17-JAN-20	R4972785
Vanadium (V)-Total	0.00100	<T	0.0010	mg/L		17-JAN-20	R4972785
Zinc (Zn)-Total	0.0172		0.0030	mg/L		17-JAN-20	R4972785
Zirconium (Zr)-Total	0.000406	<DL	0.0010	mg/L		17-JAN-20	R4972785
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					15-JAN-20	R4969510
Aluminum (Al)-Dissolved	0.0220	<T	0.0050	mg/L		15-JAN-20	R4971346
Antimony (Sb)-Dissolved	0.000050	<DL	0.00060	mg/L		15-JAN-20	R4971346
Arsenic (As)-Dissolved	0.000825	<DL	0.0010	mg/L		15-JAN-20	R4971346
Barium (Ba)-Dissolved	0.0161		0.010	mg/L		15-JAN-20	R4971346
Beryllium (Be)-Dissolved	0.000006	<DL	0.0010	mg/L		15-JAN-20	R4971346
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Boron (B)-Dissolved	0.0095	<DL	0.050	mg/L		15-JAN-20	R4971346
Cadmium (Cd)-Dissolved	0.0000040	<DL	0.000017	mg/L		15-JAN-20	R4971346
Calcium (Ca)-Dissolved	40.6		0.20	mg/L		15-JAN-20	R4971346
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		15-JAN-20	R4971346
Chromium (Cr)-Dissolved	0.00016	<DL	0.0010	mg/L		15-JAN-20	R4971346
Cobalt (Co)-Dissolved	0.000251	<DL	0.00050	mg/L		15-JAN-20	R4971346
Copper (Cu)-Dissolved	0.00134	<T	0.0010	mg/L		15-JAN-20	R4971346
Iron (Fe)-Dissolved	0.388		0.020	mg/L		15-JAN-20	R4971346
Lead (Pb)-Dissolved	0.000035	<DL	0.000050	mg/L		15-JAN-20	R4971346
Lithium (Li)-Dissolved	0.0040	<DL	0.050	mg/L		15-JAN-20	R4971346
Magnesium (Mg)-Dissolved	16.2		0.020	mg/L		15-JAN-20	R4971346
Manganese (Mn)-Dissolved	0.141		0.0010	mg/L		15-JAN-20	R4971346
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972252
Molybdenum (Mo)-Dissolved	0.000498	<DL	0.0010	mg/L		15-JAN-20	R4971346
Nickel (Ni)-Dissolved	0.00122	<DL	0.0020	mg/L		15-JAN-20	R4971346
Phosphorus (P)-Dissolved	<0.002	<W	0.050	mg/L		15-JAN-20	R4971346
Potassium (K)-Dissolved	1.24		0.50	mg/L		15-JAN-20	R4971346
Rubidium (Rb)-Dissolved	0.00114		0.00020	mg/L		15-JAN-20	R4971346
Selenium (Se)-Dissolved	0.000165	<T	0.000050	mg/L		15-JAN-20	R4971346
Silicon (Si)-Dissolved	5.30		0.050	mg/L		15-JAN-20	R4971346
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		15-JAN-20	R4971346
Sodium (Na)-Dissolved	3.13		0.10	mg/L		15-JAN-20	R4971346
Strontium (Sr)-Dissolved	0.0785		0.0010	mg/L		15-JAN-20	R4971346
Sulfur (S)-Dissolved	1.9		0.50	mg/L		15-JAN-20	R4971346

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-6 SW27 Sampled By: Client on 09-JAN-20 @ 11:30 Matrix: Water							
Dissolved Metals							
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Thallium (Tl)-Dissolved	<0.0000001	<W	0.00030	mg/L		15-JAN-20	R4971346
Thorium (Th)-Dissolved	0.000046	<DL	0.00010	mg/L		15-JAN-20	R4971346
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Titanium (Ti)-Dissolved	0.00232		0.0020	mg/L		15-JAN-20	R4971346
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		15-JAN-20	R4971346
Uranium (U)-Dissolved	0.00125	<DL	0.0050	mg/L		15-JAN-20	R4971346
Vanadium (V)-Dissolved	0.00054	<DL	0.0010	mg/L		15-JAN-20	R4971346
Zinc (Zn)-Dissolved	0.0134		0.0030	mg/L		15-JAN-20	R4971346
Zirconium (Zr)-Dissolved	0.000356	<DL	0.0010	mg/L		15-JAN-20	R4971346
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		16-JAN-20	R4973529
Chemical Oxygen Demand	66		20	mg/L		15-JAN-20	R4970113
Oil and Grease, Total	0.4	<DL	1.0	mg/L	17-JAN-20	17-JAN-20	R4972403
L2405423-7 SW21A Sampled By: Client on 09-JAN-20 @ 11:20 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	6.73		0	mg/L		15-JAN-20	R4969028
pH, Client Supplied	6.61		0.10	pH		15-JAN-20	R4969028
Temperature, Client Supplied	.15		0	Degree C		15-JAN-20	R4969028
Physical Tests							
Color, True	122		2.0	CU		15-JAN-20	R4970285
Conductivity (EC)	385		1.0	uS/cm		15-JAN-20	R4971531
Hardness (as CaCO3)	200		0.51	mg/L		19-JAN-20	
pH	7.34		0.10	pH		15-JAN-20	R4971531
Total Suspended Solids	11.0		2.0	mg/L		15-JAN-20	R4971471
Total Dissolved Solids	272		20	mg/L		15-JAN-20	R4971910
Turbidity	9.49		0.10	NTU		15-JAN-20	R4970053
Anions and Nutrients							
Acidity (as CaCO3)	7.4		2.0	mg/L		17-JAN-20	R4972787
Alkalinity, Total (as CaCO3)	192		2.0	mg/L		15-JAN-20	R4971531
Ammonia, Total (as N)	0.060	<T	0.020	mg/L		15-JAN-20	R4970888
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-JAN-20	
Chloride (Cl)	12.3		0.10	mg/L		15-JAN-20	R4971358
Fluoride (F)	0.040		0.020	mg/L		15-JAN-20	R4971358
Nitrate (as N)	0.024	<T	0.020	mg/L		15-JAN-20	R4971358
Nitrite (as N)	0.0115	<T	0.010	mg/L		15-JAN-20	R4971358
Orthophosphate-Dissolved (as P)	0.0588		0.0030	mg/L		15-JAN-20	R4970052
Sulfate (SO4)	8.64		0.30	mg/L		15-JAN-20	R4971358
Cyanides							
Cyanide, Weak Acid Diss	0.0007	<DL	0.0020	mg/L		16-JAN-20	R4972272

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-7 SW21A							
Sampled By: Client on 09-JAN-20 @ 11:20							
Matrix: Water							
Cyanides							
Cyanide, Total	0.0008	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Free	0.0005	<DL	0.0020	mg/L		16-JAN-20	R4972272
Organic / Inorganic Carbon							
Dissolved Organic Carbon	30.8	HTA	0.50	mg/L		17-JAN-20	R4972937
Total Organic Carbon	31.1		0.50	mg/L		17-JAN-20	R4972936
Total Metals							
Aluminum (Al)-Total	0.265		0.0050	mg/L		17-JAN-20	R4972785
Antimony (Sb)-Total	0.00006	<DL	0.00060	mg/L		17-JAN-20	R4972785
Arsenic (As)-Total	0.00103	<T	0.0010	mg/L		17-JAN-20	R4972785
Barium (Ba)-Total	0.0192		0.010	mg/L		17-JAN-20	R4972785
Beryllium (Be)-Total	0.000023	<DL	0.0010	mg/L		17-JAN-20	R4972785
Bismuth (Bi)-Total	0.000002	<DL	0.0010	mg/L		17-JAN-20	R4972785
Boron (B)-Total	0.0120	<DL	0.050	mg/L		17-JAN-20	R4972785
Cadmium (Cd)-Total	0.000020	<T	0.000017	mg/L		17-JAN-20	R4972785
Calcium (Ca)-Total	47.7		0.20	mg/L		17-JAN-20	R4972785
Cesium (Cs)-Total	0.0000310		0.000010	mg/L		17-JAN-20	R4972785
Chromium (Cr)-Total	0.00082	<DL	0.0010	mg/L		17-JAN-20	R4972785
Cobalt (Co)-Total	0.000723	<T	0.00050	mg/L		17-JAN-20	R4972785
Copper (Cu)-Total	0.00110	<T	0.0010	mg/L		17-JAN-20	R4972785
Iron (Fe)-Total	1.48		0.020	mg/L		17-JAN-20	R4972785
Lead (Pb)-Total	0.000235	<T	0.000050	mg/L		17-JAN-20	R4972785
Lithium (Li)-Total	0.0074	<DL	0.050	mg/L		17-JAN-20	R4972785
Magnesium (Mg)-Total	21.2		0.020	mg/L		17-JAN-20	R4972785
Manganese (Mn)-Total	0.371		0.0010	mg/L		17-JAN-20	R4972785
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972279
Molybdenum (Mo)-Total	0.000310	<DL	0.0010	mg/L		17-JAN-20	R4972785
Nickel (Ni)-Total	0.00216	<T	0.0020	mg/L		17-JAN-20	R4972785
Phosphorus (P)-Total	0.105		0.050	mg/L		17-JAN-20	R4972785
Potassium (K)-Total	1.96		0.50	mg/L		17-JAN-20	R4972785
Rubidium (Rb)-Total	0.00205		0.00020	mg/L		17-JAN-20	R4972785
Selenium (Se)-Total	0.000185	<T	0.000050	mg/L		17-JAN-20	R4972785
Silicon (Si)-Total	7.79		0.10	mg/L		17-JAN-20	R4972785
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		17-JAN-20	R4972785
Sodium (Na)-Total	8.39		0.10	mg/L		17-JAN-20	R4972785
Strontium (Sr)-Total	0.119		0.0010	mg/L		17-JAN-20	R4972785
Sulfur (S)-Total	3.7		0.50	mg/L		17-JAN-20	R4972785
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		17-JAN-20	R4972785
Thallium (Tl)-Total	0.0000038	<DL	0.00030	mg/L		17-JAN-20	R4972785
Thorium (Th)-Total	0.000079	<DL	0.00010	mg/L		17-JAN-20	R4972785
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		17-JAN-20	R4972785
Titanium (Ti)-Total	0.00852		0.0020	mg/L		17-JAN-20	R4972785

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-7 SW21A							
Sampled By: Client on 09-JAN-20 @ 11:20							
Matrix: Water							
Total Metals							
Tungsten (W)-Total	0.000006	<DL	0.010	mg/L		17-JAN-20	R4972785
Uranium (U)-Total	0.000995	<DL	0.0050	mg/L		17-JAN-20	R4972785
Vanadium (V)-Total	0.00120	<T	0.0010	mg/L		17-JAN-20	R4972785
Zinc (Zn)-Total	0.0052	<T	0.0030	mg/L		17-JAN-20	R4972785
Zirconium (Zr)-Total	0.000618	<DL	0.0010	mg/L		17-JAN-20	R4972785
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					15-JAN-20	R4969510
Aluminum (Al)-Dissolved	0.0240	<T	0.0050	mg/L		15-JAN-20	R4971346
Antimony (Sb)-Dissolved	0.000055	<DL	0.00060	mg/L		15-JAN-20	R4971346
Arsenic (As)-Dissolved	0.000990	<DL	0.0010	mg/L		15-JAN-20	R4971346
Barium (Ba)-Dissolved	0.0166		0.010	mg/L		15-JAN-20	R4971346
Beryllium (Be)-Dissolved	0.000010	<DL	0.0010	mg/L		15-JAN-20	R4971346
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Boron (B)-Dissolved	0.0125	<DL	0.050	mg/L		15-JAN-20	R4971346
Cadmium (Cd)-Dissolved	0.0000080	<DL	0.000017	mg/L		15-JAN-20	R4971346
Calcium (Ca)-Dissolved	46.7		0.20	mg/L		15-JAN-20	R4971346
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		15-JAN-20	R4971346
Chromium (Cr)-Dissolved	0.00026	<DL	0.0010	mg/L		15-JAN-20	R4971346
Cobalt (Co)-Dissolved	0.000563	<T	0.00050	mg/L		15-JAN-20	R4971346
Copper (Cu)-Dissolved	0.00068	<DL	0.0010	mg/L		15-JAN-20	R4971346
Iron (Fe)-Dissolved	0.909		0.020	mg/L		15-JAN-20	R4971346
Lead (Pb)-Dissolved	0.000085	<T	0.000050	mg/L		15-JAN-20	R4971346
Lithium (Li)-Dissolved	0.0062	<DL	0.050	mg/L		15-JAN-20	R4971346
Magnesium (Mg)-Dissolved	20.3		0.020	mg/L		15-JAN-20	R4971346
Manganese (Mn)-Dissolved	0.320		0.0010	mg/L		15-JAN-20	R4971346
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972252
Molybdenum (Mo)-Dissolved	0.000300	<DL	0.0010	mg/L		15-JAN-20	R4971346
Nickel (Ni)-Dissolved	0.00176	<DL	0.0020	mg/L		15-JAN-20	R4971346
Phosphorus (P)-Dissolved	0.074		0.050	mg/L		15-JAN-20	R4971346
Potassium (K)-Dissolved	1.82		0.50	mg/L		15-JAN-20	R4971346
Rubidium (Rb)-Dissolved	0.00145		0.00020	mg/L		15-JAN-20	R4971346
Selenium (Se)-Dissolved	0.000230	<T	0.000050	mg/L		15-JAN-20	R4971346
Silicon (Si)-Dissolved	7.30		0.050	mg/L		15-JAN-20	R4971346
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		15-JAN-20	R4971346
Sodium (Na)-Dissolved	7.49		0.10	mg/L		15-JAN-20	R4971346
Strontium (Sr)-Dissolved	0.113		0.0010	mg/L		15-JAN-20	R4971346
Sulfur (S)-Dissolved	3.5		0.50	mg/L		15-JAN-20	R4971346
Tellurium (Te)-Dissolved	0.000010	<DL	0.0010	mg/L		15-JAN-20	R4971346
Thallium (Tl)-Dissolved	<0.0000001	<W	0.00030	mg/L		15-JAN-20	R4971346
Thorium (Th)-Dissolved	0.000052	<DL	0.00010	mg/L		15-JAN-20	R4971346
Tin (Sn)-Dissolved	0.000025	<DL	0.0010	mg/L		15-JAN-20	R4971346

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-7 SW21A Sampled By: Client on 09-JAN-20 @ 11:20 Matrix: Water							
Dissolved Metals							
Titanium (Ti)-Dissolved	0.00192	<DL	0.0020	mg/L		15-JAN-20	R4971346
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		15-JAN-20	R4971346
Uranium (U)-Dissolved	0.000959	<DL	0.0050	mg/L		15-JAN-20	R4971346
Vanadium (V)-Dissolved	0.00056	<DL	0.0010	mg/L		15-JAN-20	R4971346
Zinc (Zn)-Dissolved	0.0026	<DL	0.0030	mg/L		15-JAN-20	R4971346
Zirconium (Zr)-Dissolved	0.000542	<DL	0.0010	mg/L		15-JAN-20	R4971346
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		16-JAN-20	R4973529
Chemical Oxygen Demand	88		20	mg/L		15-JAN-20	R4970113
Oil and Grease, Total	0.4	<DL	1.0	mg/L	17-JAN-20	17-JAN-20	R4972403
Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2405423-8 SW29 Sampled By: Client on 09-JAN-20 @ 10:30 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	17.47		0	mg/L		15-JAN-20	R4969028
pH, Client Supplied	6.02		0.10	pH		15-JAN-20	R4969028
Temperature, Client Supplied	1.38		0	Degree C		15-JAN-20	R4969028
Physical Tests							
Color, True	180		2.0	CU		15-JAN-20	R4970285
Conductivity (EC)	216		1.0	uS/cm		15-JAN-20	R4971531
Hardness (as CaCO3)	122		0.51	mg/L		19-JAN-20	
pH	7.06		0.10	pH		15-JAN-20	R4971531
Total Suspended Solids	3.5		2.0	mg/L		15-JAN-20	R4971471
Total Dissolved Solids	192		13	mg/L		15-JAN-20	R4971910
Turbidity	4.76		0.10	NTU		15-JAN-20	R4970053
Anions and Nutrients							
Acidity (as CaCO3)	8.8		2.0	mg/L		17-JAN-20	R4972787
Alkalinity, Total (as CaCO3)	124		2.0	mg/L		15-JAN-20	R4971531
Ammonia, Total (as N)	0.188	<T	0.020	mg/L		15-JAN-20	R4970888
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-JAN-20	
Chloride (Cl)	1.74		0.10	mg/L		15-JAN-20	R4971358
Fluoride (F)	0.027		0.020	mg/L		15-JAN-20	R4971358
Nitrate (as N)	0.003	<DL	0.020	mg/L		15-JAN-20	R4971358
Nitrite (as N)	0.0045	<DL	0.010	mg/L		15-JAN-20	R4971358
Orthophosphate-Dissolved (as P)	0.0172		0.0030	mg/L		15-JAN-20	R4970052
Sulfate (SO4)	1.34	<T	0.30	mg/L		15-JAN-20	R4971358
Cyanides							
Cyanide, Weak Acid Diss	0.0010	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Total	0.0010	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Free	0.0009	<DL	0.0020	mg/L		16-JAN-20	R4972272
Organic / Inorganic Carbon							
Dissolved Organic Carbon	36.4	HTA	0.50	mg/L		17-JAN-20	R4972937

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-8 SW29							
Sampled By: Client on 09-JAN-20 @ 10:30							
Matrix: Water							
Organic / Inorganic Carbon							
Total Organic Carbon	38.7		0.50	mg/L		17-JAN-20	R4972936
Total Metals							
Aluminum (Al)-Total	0.131		0.0050	mg/L		17-JAN-20	R4972785
Antimony (Sb)-Total	0.00004	<DL	0.00060	mg/L		17-JAN-20	R4972785
Arsenic (As)-Total	0.00102	<T	0.0010	mg/L		17-JAN-20	R4972785
Barium (Ba)-Total	0.0144		0.010	mg/L		17-JAN-20	R4972785
Beryllium (Be)-Total	0.000010	<DL	0.0010	mg/L		17-JAN-20	R4972785
Bismuth (Bi)-Total	<0.000002	<W	0.0010	mg/L		17-JAN-20	R4972785
Boron (B)-Total	0.0070	<DL	0.050	mg/L		17-JAN-20	R4972785
Cadmium (Cd)-Total	0.000010	<DL	0.000017	mg/L		17-JAN-20	R4972785
Calcium (Ca)-Total	27.8		0.20	mg/L		17-JAN-20	R4972785
Cesium (Cs)-Total	0.0000105		0.000010	mg/L		17-JAN-20	R4972785
Chromium (Cr)-Total	0.00046	<DL	0.0010	mg/L		17-JAN-20	R4972785
Cobalt (Co)-Total	0.00133	<T	0.00050	mg/L		17-JAN-20	R4972785
Copper (Cu)-Total	0.00038	<DL	0.0010	mg/L		17-JAN-20	R4972785
Iron (Fe)-Total	1.13		0.020	mg/L		17-JAN-20	R4972785
Lead (Pb)-Total	0.000210	<T	0.000050	mg/L		17-JAN-20	R4972785
Lithium (Li)-Total	0.0052	<DL	0.050	mg/L		17-JAN-20	R4972785
Magnesium (Mg)-Total	13.4		0.020	mg/L		17-JAN-20	R4972785
Manganese (Mn)-Total	1.04		0.0010	mg/L		17-JAN-20	R4972785
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		17-JAN-20	R4972279
Molybdenum (Mo)-Total	0.000180	<DL	0.0010	mg/L		17-JAN-20	R4972785
Nickel (Ni)-Total	0.00248	<T	0.0020	mg/L		17-JAN-20	R4972785
Phosphorus (P)-Total	0.045	<DL	0.050	mg/L		17-JAN-20	R4972785
Potassium (K)-Total	1.09		0.50	mg/L		17-JAN-20	R4972785
Rubidium (Rb)-Total	0.00193		0.00020	mg/L		17-JAN-20	R4972785
Selenium (Se)-Total	0.000165	<T	0.000050	mg/L		17-JAN-20	R4972785
Silicon (Si)-Total	8.10		0.10	mg/L		17-JAN-20	R4972785
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		17-JAN-20	R4972785
Sodium (Na)-Total	2.30		0.10	mg/L		17-JAN-20	R4972785
Strontium (Sr)-Total	0.0603		0.0010	mg/L		17-JAN-20	R4972785
Sulfur (S)-Total	0.9		0.50	mg/L		17-JAN-20	R4972785
Tellurium (Te)-Total	0.00001	<DL	0.0010	mg/L		17-JAN-20	R4972785
Thallium (Tl)-Total	0.0000020	<DL	0.00030	mg/L		17-JAN-20	R4972785
Thorium (Th)-Total	0.000041	<DL	0.00010	mg/L		17-JAN-20	R4972785
Tin (Sn)-Total	0.00001	<DL	0.0010	mg/L		17-JAN-20	R4972785
Titanium (Ti)-Total	0.00350		0.0020	mg/L		17-JAN-20	R4972785
Tungsten (W)-Total	<0.000002	<W	0.010	mg/L		17-JAN-20	R4972785
Uranium (U)-Total	0.000120	<DL	0.0050	mg/L		17-JAN-20	R4972785
Vanadium (V)-Total	0.00055	<DL	0.0010	mg/L		17-JAN-20	R4972785
Zinc (Zn)-Total	0.0044	<T	0.0030	mg/L		17-JAN-20	R4972785

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-8 SW29							
Sampled By: Client on 09-JAN-20 @ 10:30							
Matrix: Water							
Total Metals							
Zirconium (Zr)-Total	0.000308	<DL	0.0010	mg/L		17-JAN-20	R4972785
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					15-JAN-20	R4969510
Aluminum (Al)-Dissolved	0.0654		0.0050	mg/L		15-JAN-20	R4971346
Antimony (Sb)-Dissolved	0.000040	<DL	0.00060	mg/L		15-JAN-20	R4971346
Arsenic (As)-Dissolved	0.00102	<T	0.0010	mg/L		15-JAN-20	R4971346
Barium (Ba)-Dissolved	0.0129		0.010	mg/L		15-JAN-20	R4971346
Beryllium (Be)-Dissolved	0.000008	<DL	0.0010	mg/L		15-JAN-20	R4971346
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Boron (B)-Dissolved	0.0075	<DL	0.050	mg/L		15-JAN-20	R4971346
Cadmium (Cd)-Dissolved	0.0000055	<DL	0.000017	mg/L		15-JAN-20	R4971346
Calcium (Ca)-Dissolved	27.4		0.20	mg/L		15-JAN-20	R4971346
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		15-JAN-20	R4971346
Chromium (Cr)-Dissolved	0.00024	<DL	0.0010	mg/L		15-JAN-20	R4971346
Cobalt (Co)-Dissolved	0.00123	<T	0.00050	mg/L		15-JAN-20	R4971346
Copper (Cu)-Dissolved	0.00026	<DL	0.0010	mg/L		15-JAN-20	R4971346
Iron (Fe)-Dissolved	0.888		0.020	mg/L		15-JAN-20	R4971346
Lead (Pb)-Dissolved	0.000130	<T	0.000050	mg/L		15-JAN-20	R4971346
Lithium (Li)-Dissolved	0.0044	<DL	0.050	mg/L		15-JAN-20	R4971346
Magnesium (Mg)-Dissolved	13.0		0.020	mg/L		15-JAN-20	R4971346
Manganese (Mn)-Dissolved	0.958		0.0010	mg/L		15-JAN-20	R4971346
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972252
Molybdenum (Mo)-Dissolved	0.000136	<DL	0.0010	mg/L		15-JAN-20	R4971346
Nickel (Ni)-Dissolved	0.00110	<DL	0.0020	mg/L		15-JAN-20	R4971346
Phosphorus (P)-Dissolved	0.020	<DL	0.050	mg/L		15-JAN-20	R4971346
Potassium (K)-Dissolved	1.01		0.50	mg/L		15-JAN-20	R4971346
Rubidium (Rb)-Dissolved	0.00179		0.00020	mg/L		15-JAN-20	R4971346
Selenium (Se)-Dissolved	0.000145	<T	0.000050	mg/L		15-JAN-20	R4971346
Silicon (Si)-Dissolved	7.87		0.050	mg/L		15-JAN-20	R4971346
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		15-JAN-20	R4971346
Sodium (Na)-Dissolved	2.16		0.10	mg/L		15-JAN-20	R4971346
Strontium (Sr)-Dissolved	0.0570		0.0010	mg/L		15-JAN-20	R4971346
Sulfur (S)-Dissolved	0.8		0.50	mg/L		15-JAN-20	R4971346
Tellurium (Te)-Dissolved	0.000015	<DL	0.0010	mg/L		15-JAN-20	R4971346
Thallium (Tl)-Dissolved	<0.0000001	<W	0.00030	mg/L		15-JAN-20	R4971346
Thorium (Th)-Dissolved	0.000040	<DL	0.00010	mg/L		15-JAN-20	R4971346
Tin (Sn)-Dissolved	0.000100	<DL	0.0010	mg/L		15-JAN-20	R4971346
Titanium (Ti)-Dissolved	0.00194	<DL	0.0020	mg/L		15-JAN-20	R4971346
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		15-JAN-20	R4971346
Uranium (U)-Dissolved	0.000112	<DL	0.0050	mg/L		15-JAN-20	R4971346
Vanadium (V)-Dissolved	0.00036	<DL	0.0010	mg/L		15-JAN-20	R4971346

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-8 SW29 Sampled By: Client on 09-JAN-20 @ 10:30 Matrix: Water							
Dissolved Metals							
Zinc (Zn)-Dissolved	0.0036	<T	0.0030	mg/L		15-JAN-20	R4971346
Zirconium (Zr)-Dissolved	0.000316	<DL	0.0010	mg/L		15-JAN-20	R4971346
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		16-JAN-20	R4973529
Chemical Oxygen Demand	108		20	mg/L		15-JAN-20	R4970113
Oil and Grease, Total	0.4	<DL	1.0	mg/L	17-JAN-20	17-JAN-20	R4972403
Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2405423-9 SW06 Sampled By: Client on 09-JAN-20 @ 12:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	17.5		0	mg/L		15-JAN-20	R4969028
pH, Client Supplied	6.02		0.10	pH		15-JAN-20	R4969028
Temperature, Client Supplied	1.38		0	Degree C		15-JAN-20	R4969028
Physical Tests							
Color, True	183		2.0	CU		15-JAN-20	R4970285
Conductivity (EC)	213		1.0	uS/cm		15-JAN-20	R4971531
Hardness (as CaCO3)	119		0.51	mg/L		19-JAN-20	
pH	7.05		0.10	pH		15-JAN-20	R4971531
Total Suspended Solids	4.0		2.0	mg/L		15-JAN-20	R4971471
Total Dissolved Solids	176		13	mg/L		15-JAN-20	R4971910
Turbidity	3.81		0.10	NTU		16-JAN-20	R4971579
Anions and Nutrients							
Acidity (as CaCO3)	8.4		2.0	mg/L		17-JAN-20	R4972787
Alkalinity, Total (as CaCO3)	125		2.0	mg/L		15-JAN-20	R4971531
Ammonia, Total (as N)	0.178	<T	0.020	mg/L		15-JAN-20	R4970888
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-JAN-20	
Chloride (Cl)	0.80		0.10	mg/L		15-JAN-20	R4971358
Fluoride (F)	0.028		0.020	mg/L		15-JAN-20	R4971358
Nitrate (as N)	0.010	<DL	0.020	mg/L		15-JAN-20	R4971358
Nitrite (as N)	<0.0005	<W	0.010	mg/L		15-JAN-20	R4971358
Orthophosphate-Dissolved (as P)	0.0151		0.0030	mg/L		15-JAN-20	R4970052
Sulfate (SO4)	1.20	<T	0.30	mg/L		15-JAN-20	R4971358
Cyanides							
Cyanide, Weak Acid Diss	0.0011	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Total	0.0012	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Free	0.0011	<DL	0.0020	mg/L		16-JAN-20	R4972272
Organic / Inorganic Carbon							
Dissolved Organic Carbon	37.9	HTA	0.50	mg/L		17-JAN-20	R4972937
Total Organic Carbon	39.1		0.50	mg/L		17-JAN-20	R4972936
Total Metals							
Aluminum (Al)-Total	0.137		0.0050	mg/L		17-JAN-20	R4972785
Antimony (Sb)-Total	0.00004	<DL	0.00060	mg/L		17-JAN-20	R4972785

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-9 SW06							
Sampled By: Client on 09-JAN-20 @ 12:00							
Matrix: Water							
Total Metals							
Arsenic (As)-Total	0.00101	<T	0.0010	mg/L		17-JAN-20	R4972785
Barium (Ba)-Total	0.0146		0.010	mg/L		17-JAN-20	R4972785
Beryllium (Be)-Total	0.000017	<DL	0.0010	mg/L		17-JAN-20	R4972785
Bismuth (Bi)-Total	0.000002	<DL	0.0010	mg/L		17-JAN-20	R4972785
Boron (B)-Total	0.0065	<DL	0.050	mg/L		17-JAN-20	R4972785
Cadmium (Cd)-Total	0.000012	<DL	0.000017	mg/L		17-JAN-20	R4972785
Calcium (Ca)-Total	27.8		0.20	mg/L		17-JAN-20	R4972785
Cesium (Cs)-Total	0.0000100		0.000010	mg/L		17-JAN-20	R4972785
Chromium (Cr)-Total	0.00040	<DL	0.0010	mg/L		17-JAN-20	R4972785
Cobalt (Co)-Total	0.00135	<T	0.00050	mg/L		17-JAN-20	R4972785
Copper (Cu)-Total	0.00036	<DL	0.0010	mg/L		17-JAN-20	R4972785
Iron (Fe)-Total	1.12		0.020	mg/L		17-JAN-20	R4972785
Lead (Pb)-Total	0.000200	<T	0.000050	mg/L		17-JAN-20	R4972785
Lithium (Li)-Total	0.0052	<DL	0.050	mg/L		17-JAN-20	R4972785
Magnesium (Mg)-Total	13.6		0.020	mg/L		17-JAN-20	R4972785
Manganese (Mn)-Total	1.06		0.0010	mg/L		17-JAN-20	R4972785
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972279
Molybdenum (Mo)-Total	0.000140	<DL	0.0010	mg/L		17-JAN-20	R4972785
Nickel (Ni)-Total	0.00128	<DL	0.0020	mg/L		17-JAN-20	R4972785
Phosphorus (P)-Total	0.050		0.050	mg/L		17-JAN-20	R4972785
Potassium (K)-Total	1.09		0.50	mg/L		17-JAN-20	R4972785
Rubidium (Rb)-Total	0.00185		0.00020	mg/L		17-JAN-20	R4972785
Selenium (Se)-Total	0.000145	<T	0.000050	mg/L		17-JAN-20	R4972785
Silicon (Si)-Total	8.23		0.10	mg/L		17-JAN-20	R4972785
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		17-JAN-20	R4972785
Sodium (Na)-Total	2.40		0.10	mg/L		17-JAN-20	R4972785
Strontium (Sr)-Total	0.0613		0.0010	mg/L		17-JAN-20	R4972785
Sulfur (S)-Total	1.0		0.50	mg/L		17-JAN-20	R4972785
Tellurium (Te)-Total	0.00001	<DL	0.0010	mg/L		17-JAN-20	R4972785
Thallium (Tl)-Total	0.0000020	<DL	0.00030	mg/L		17-JAN-20	R4972785
Thorium (Th)-Total	0.000041	<DL	0.00010	mg/L		17-JAN-20	R4972785
Tin (Sn)-Total	0.00087	<DL	0.0010	mg/L		17-JAN-20	R4972785
Titanium (Ti)-Total	0.00390		0.0020	mg/L		17-JAN-20	R4972785
Tungsten (W)-Total	<0.000002	<W	0.010	mg/L		17-JAN-20	R4972785
Uranium (U)-Total	0.000120	<DL	0.0050	mg/L		17-JAN-20	R4972785
Vanadium (V)-Total	0.00055	<DL	0.0010	mg/L		17-JAN-20	R4972785
Zinc (Zn)-Total	0.0048	<T	0.0030	mg/L		17-JAN-20	R4972785
Zirconium (Zr)-Total	0.000340	<DL	0.0010	mg/L		17-JAN-20	R4972785
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					15-JAN-20	R4969510
Aluminum (Al)-Dissolved	0.0642		0.0050	mg/L		15-JAN-20	R4971346

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-9 SW06							
Sampled By: Client on 09-JAN-20 @ 12:00							
Matrix: Water							
Dissolved Metals							
Antimony (Sb)-Dissolved	0.000035	<DL	0.00060	mg/L		15-JAN-20	R4971346
Arsenic (As)-Dissolved	0.00104	<T	0.0010	mg/L		15-JAN-20	R4971346
Barium (Ba)-Dissolved	0.0131		0.010	mg/L		15-JAN-20	R4971346
Beryllium (Be)-Dissolved	0.000012	<DL	0.0010	mg/L		15-JAN-20	R4971346
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Boron (B)-Dissolved	0.0075	<DL	0.050	mg/L		15-JAN-20	R4971346
Cadmium (Cd)-Dissolved	0.0000070	<DL	0.000017	mg/L		15-JAN-20	R4971346
Calcium (Ca)-Dissolved	26.3		0.20	mg/L		15-JAN-20	R4971346
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		15-JAN-20	R4971346
Chromium (Cr)-Dissolved	0.00024	<DL	0.0010	mg/L		15-JAN-20	R4971346
Cobalt (Co)-Dissolved	0.00123	<T	0.00050	mg/L		15-JAN-20	R4971346
Copper (Cu)-Dissolved	0.00022	<DL	0.0010	mg/L		15-JAN-20	R4971346
Iron (Fe)-Dissolved	0.887		0.020	mg/L		15-JAN-20	R4971346
Lead (Pb)-Dissolved	0.000130	<T	0.000050	mg/L		15-JAN-20	R4971346
Lithium (Li)-Dissolved	0.0044	<DL	0.050	mg/L		15-JAN-20	R4971346
Magnesium (Mg)-Dissolved	13.0		0.020	mg/L		15-JAN-20	R4971346
Manganese (Mn)-Dissolved	0.954		0.0010	mg/L		15-JAN-20	R4971346
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972252
Molybdenum (Mo)-Dissolved	0.000102	<DL	0.0010	mg/L		15-JAN-20	R4971346
Nickel (Ni)-Dissolved	0.00108	<DL	0.0020	mg/L		15-JAN-20	R4971346
Phosphorus (P)-Dissolved	0.020	<DL	0.050	mg/L		15-JAN-20	R4971346
Potassium (K)-Dissolved	1.05		0.50	mg/L		15-JAN-20	R4971346
Rubidium (Rb)-Dissolved	0.00179		0.00020	mg/L		15-JAN-20	R4971346
Selenium (Se)-Dissolved	0.000145	<T	0.000050	mg/L		15-JAN-20	R4971346
Silicon (Si)-Dissolved	7.96		0.050	mg/L		15-JAN-20	R4971346
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		15-JAN-20	R4971346
Sodium (Na)-Dissolved	2.11		0.10	mg/L		15-JAN-20	R4971346
Strontium (Sr)-Dissolved	0.0562		0.0010	mg/L		15-JAN-20	R4971346
Sulfur (S)-Dissolved	0.8		0.50	mg/L		15-JAN-20	R4971346
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Thallium (Tl)-Dissolved	<0.0000001	<W	0.00030	mg/L		15-JAN-20	R4971346
Thorium (Th)-Dissolved	0.000038	<DL	0.00010	mg/L		15-JAN-20	R4971346
Tin (Sn)-Dissolved	0.000050	<DL	0.0010	mg/L		15-JAN-20	R4971346
Titanium (Ti)-Dissolved	0.00192	<DL	0.0020	mg/L		15-JAN-20	R4971346
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		15-JAN-20	R4971346
Uranium (U)-Dissolved	0.000111	<DL	0.0050	mg/L		15-JAN-20	R4971346
Vanadium (V)-Dissolved	0.00036	<DL	0.0010	mg/L		15-JAN-20	R4971346
Zinc (Zn)-Dissolved	0.0048	<T	0.0030	mg/L		15-JAN-20	R4971346
Zirconium (Zr)-Dissolved	0.000322	<DL	0.0010	mg/L		15-JAN-20	R4971346
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		16-JAN-20	R4973529

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-9 SW06 Sampled By: Client on 09-JAN-20 @ 12:00 Matrix: Water							
Aggregate Organics							
Chemical Oxygen Demand	112		20	mg/L		15-JAN-20	R4970113
Oil and Grease, Total	<0.2	<W	1.0	mg/L	17-JAN-20	17-JAN-20	R4972403
L2405423-10 SW25 Sampled By: Client on 09-JAN-20 @ 12:15 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	25.37		0	mg/L		15-JAN-20	R4969028
pH, Client Supplied	7.63		0.10	pH		15-JAN-20	R4969028
Temperature, Client Supplied	-0.29		0	Degree C		15-JAN-20	R4969028
Physical Tests							
Color, True	110		2.0	CU		15-JAN-20	R4970285
Conductivity (EC)	262		1.0	uS/cm		15-JAN-20	R4971531
Hardness (as CaCO3)	141		0.51	mg/L		19-JAN-20	
pH	7.53		0.10	pH		15-JAN-20	R4971531
Total Suspended Solids	2.5	<T	2.0	mg/L		15-JAN-20	R4971471
Total Dissolved Solids	176		13	mg/L		15-JAN-20	R4971910
Turbidity	3.49		0.10	NTU		16-JAN-20	R4971579
Anions and Nutrients							
Acidity (as CaCO3)	2.6		2.0	mg/L		17-JAN-20	R4972787
Alkalinity, Total (as CaCO3)	137		2.0	mg/L		15-JAN-20	R4971531
Ammonia, Total (as N)	0.038	<T	0.020	mg/L		15-JAN-20	R4970888
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-JAN-20	
Chloride (Cl)	6.50		0.10	mg/L		15-JAN-20	R4971358
Fluoride (F)	0.046		0.020	mg/L		15-JAN-20	R4971358
Nitrate (as N)	0.042	<T	0.020	mg/L		15-JAN-20	R4971358
Nitrite (as N)	<0.0005	<W	0.010	mg/L		15-JAN-20	R4971358
Orthophosphate-Dissolved (as P)	0.0043		0.0030	mg/L		15-JAN-20	R4970052
Sulfate (SO4)	3.22	<T	0.30	mg/L		15-JAN-20	R4971358
Cyanides							
Cyanide, Weak Acid Diss	0.0008	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Total	0.0006	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Free	0.0008	<DL	0.0020	mg/L		16-JAN-20	R4972272
Organic / Inorganic Carbon							
Dissolved Organic Carbon	24.6	HTA	0.50	mg/L		17-JAN-20	R4972937
Total Organic Carbon	24.7		0.50	mg/L		17-JAN-20	R4972936
Total Metals							
Aluminum (Al)-Total	0.109		0.0050	mg/L		17-JAN-20	R4972785
Antimony (Sb)-Total	0.00006	<DL	0.00060	mg/L		17-JAN-20	R4972785
Arsenic (As)-Total	0.00070	<DL	0.0010	mg/L		17-JAN-20	R4972785
Barium (Ba)-Total	0.0159		0.010	mg/L		17-JAN-20	R4972785
Beryllium (Be)-Total	0.000010	<DL	0.0010	mg/L		17-JAN-20	R4972785
Bismuth (Bi)-Total	<0.000002	<W	0.0010	mg/L		17-JAN-20	R4972785

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-10 SW25							
Sampled By: Client on 09-JAN-20 @ 12:15							
Matrix: Water							
Total Metals							
Boron (B)-Total	0.0070	<DL	0.050	mg/L		17-JAN-20	R4972785
Cadmium (Cd)-Total	0.000009	<DL	0.000017	mg/L		17-JAN-20	R4972785
Calcium (Ca)-Total	35.6		0.20	mg/L		17-JAN-20	R4972785
Cesium (Cs)-Total	0.0000105		0.000010	mg/L		17-JAN-20	R4972785
Chromium (Cr)-Total	0.00038	<DL	0.0010	mg/L		17-JAN-20	R4972785
Cobalt (Co)-Total	0.000365	<DL	0.00050	mg/L		17-JAN-20	R4972785
Copper (Cu)-Total	0.00158	<T	0.0010	mg/L		17-JAN-20	R4972785
Iron (Fe)-Total	0.614		0.020	mg/L		17-JAN-20	R4972785
Lead (Pb)-Total	0.000090	<T	0.000050	mg/L		17-JAN-20	R4972785
Lithium (Li)-Total	0.0034	<DL	0.050	mg/L		17-JAN-20	R4972785
Magnesium (Mg)-Total	13.8		0.020	mg/L		17-JAN-20	R4972785
Manganese (Mn)-Total	0.235		0.0010	mg/L		17-JAN-20	R4972785
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972279
Molybdenum (Mo)-Total	0.000460	<DL	0.0010	mg/L		17-JAN-20	R4972785
Nickel (Ni)-Total	0.00132	<DL	0.0020	mg/L		17-JAN-20	R4972785
Phosphorus (P)-Total	0.050		0.050	mg/L		17-JAN-20	R4972785
Potassium (K)-Total	1.24		0.50	mg/L		17-JAN-20	R4972785
Rubidium (Rb)-Total	0.00141		0.00020	mg/L		17-JAN-20	R4972785
Selenium (Se)-Total	0.000150	<T	0.000050	mg/L		17-JAN-20	R4972785
Silicon (Si)-Total	5.20		0.10	mg/L		17-JAN-20	R4972785
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		17-JAN-20	R4972785
Sodium (Na)-Total	2.78		0.10	mg/L		17-JAN-20	R4972785
Strontium (Sr)-Total	0.0674		0.0010	mg/L		17-JAN-20	R4972785
Sulfur (S)-Total	1.3		0.50	mg/L		17-JAN-20	R4972785
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		17-JAN-20	R4972785
Thallium (Tl)-Total	0.0000028	<DL	0.00030	mg/L		17-JAN-20	R4972785
Thorium (Th)-Total	0.000041	<DL	0.00010	mg/L		17-JAN-20	R4972785
Tin (Sn)-Total	0.00005	<DL	0.0010	mg/L		17-JAN-20	R4972785
Titanium (Ti)-Total	0.00344		0.0020	mg/L		17-JAN-20	R4972785
Tungsten (W)-Total	0.000002	<DL	0.010	mg/L		17-JAN-20	R4972785
Uranium (U)-Total	0.000815	<DL	0.0050	mg/L		17-JAN-20	R4972785
Vanadium (V)-Total	0.00070	<DL	0.0010	mg/L		17-JAN-20	R4972785
Zinc (Zn)-Total	0.0162		0.0030	mg/L		17-JAN-20	R4972785
Zirconium (Zr)-Total	0.000296	<DL	0.0010	mg/L		17-JAN-20	R4972785
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					15-JAN-20	R4969510
Aluminum (Al)-Dissolved	0.0272	<T	0.0050	mg/L		15-JAN-20	R4971346
Antimony (Sb)-Dissolved	0.000045	<DL	0.00060	mg/L		15-JAN-20	R4971346
Arsenic (As)-Dissolved	0.000680	<DL	0.0010	mg/L		15-JAN-20	R4971346
Barium (Ba)-Dissolved	0.0153		0.010	mg/L		15-JAN-20	R4971346
Beryllium (Be)-Dissolved	0.000006	<DL	0.0010	mg/L		15-JAN-20	R4971346

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-10 SW25 Sampled By: Client on 09-JAN-20 @ 12:15 Matrix: Water							
Dissolved Metals							
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Boron (B)-Dissolved	0.0070	<DL	0.050	mg/L		15-JAN-20	R4971346
Cadmium (Cd)-Dissolved	0.0000055	<DL	0.000017	mg/L		15-JAN-20	R4971346
Calcium (Ca)-Dissolved	34.6		0.20	mg/L		15-JAN-20	R4971346
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		15-JAN-20	R4971346
Chromium (Cr)-Dissolved	0.00016	<DL	0.0010	mg/L		15-JAN-20	R4971346
Cobalt (Co)-Dissolved	0.000314	<DL	0.00050	mg/L		15-JAN-20	R4971346
Copper (Cu)-Dissolved	0.00128	<T	0.0010	mg/L		15-JAN-20	R4971346
Iron (Fe)-Dissolved	0.423		0.020	mg/L		15-JAN-20	R4971346
Lead (Pb)-Dissolved	0.000030	<DL	0.000050	mg/L		15-JAN-20	R4971346
Lithium (Li)-Dissolved	0.0028	<DL	0.050	mg/L		15-JAN-20	R4971346
Magnesium (Mg)-Dissolved	13.1		0.020	mg/L		15-JAN-20	R4971346
Manganese (Mn)-Dissolved	0.210		0.0010	mg/L		15-JAN-20	R4971346
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972252
Molybdenum (Mo)-Dissolved	0.000422	<DL	0.0010	mg/L		15-JAN-20	R4971346
Nickel (Ni)-Dissolved	0.00110	<DL	0.0020	mg/L		15-JAN-20	R4971346
Phosphorus (P)-Dissolved	0.004	<DL	0.050	mg/L		15-JAN-20	R4971346
Potassium (K)-Dissolved	1.14		0.50	mg/L		15-JAN-20	R4971346
Rubidium (Rb)-Dissolved	0.00118		0.00020	mg/L		15-JAN-20	R4971346
Selenium (Se)-Dissolved	0.000170	<T	0.000050	mg/L		15-JAN-20	R4971346
Silicon (Si)-Dissolved	5.01		0.050	mg/L		15-JAN-20	R4971346
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		15-JAN-20	R4971346
Sodium (Na)-Dissolved	2.48		0.10	mg/L		15-JAN-20	R4971346
Strontium (Sr)-Dissolved	0.0636		0.0010	mg/L		15-JAN-20	R4971346
Sulfur (S)-Dissolved	1.3		0.50	mg/L		15-JAN-20	R4971346
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Thallium (Tl)-Dissolved	<0.0000001	<W	0.00030	mg/L		15-JAN-20	R4971346
Thorium (Th)-Dissolved	0.000038	<DL	0.00010	mg/L		15-JAN-20	R4971346
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Titanium (Ti)-Dissolved	0.00164	<DL	0.0020	mg/L		15-JAN-20	R4971346
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		15-JAN-20	R4971346
Uranium (U)-Dissolved	0.000801	<DL	0.0050	mg/L		15-JAN-20	R4971346
Vanadium (V)-Dissolved	0.00044	<DL	0.0010	mg/L		15-JAN-20	R4971346
Zinc (Zn)-Dissolved	0.0118		0.0030	mg/L		15-JAN-20	R4971346
Zirconium (Zr)-Dissolved	0.000296	<DL	0.0010	mg/L		15-JAN-20	R4971346
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		16-JAN-20	R4973529
Chemical Oxygen Demand	70		20	mg/L		15-JAN-20	R4970113
Oil and Grease, Total	0.8	<DL	1.0	mg/L	17-JAN-20	17-JAN-20	R4972403
L2405423-11 SW20 Sampled By: Client on 09-JAN-20 @ 11:40 Matrix: Water							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-11 SW20							
Sampled By: Client on 09-JAN-20 @ 11:40							
Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	22.46		0	mg/L		15-JAN-20	R4969028
pH, Client Supplied	7.62		0.10	pH		15-JAN-20	R4969028
Temperature, Client Supplied	-0.29		0	Degree C		15-JAN-20	R4969028
Physical Tests							
Color, True	127		2.0	CU		15-JAN-20	R4970285
Conductivity (EC)	312		1.0	uS/cm		15-JAN-20	R4971531
Hardness (as CaCO3)	158		0.51	mg/L		19-JAN-20	
pH	7.39		0.10	pH		15-JAN-20	R4971531
Total Suspended Solids	4.5		2.0	mg/L		15-JAN-20	R4971471
Total Dissolved Solids	228		13	mg/L		15-JAN-20	R4971910
Turbidity	6.24		0.10	NTU		16-JAN-20	R4971579
Anions and Nutrients							
Acidity (as CaCO3)	4.6		2.0	mg/L		17-JAN-20	R4972787
Alkalinity, Total (as CaCO3)	158		2.0	mg/L		15-JAN-20	R4971531
Ammonia, Total (as N)	0.040	<T	0.020	mg/L		15-JAN-20	R4970888
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-JAN-20	
Chloride (Cl)	9.08		0.10	mg/L		15-JAN-20	R4971358
Fluoride (F)	0.032		0.020	mg/L		15-JAN-20	R4971358
Nitrate (as N)	0.128	<T	0.020	mg/L		15-JAN-20	R4971358
Nitrite (as N)	0.0015	<DL	0.010	mg/L		15-JAN-20	R4971358
Orthophosphate-Dissolved (as P)	0.0277		0.0030	mg/L		15-JAN-20	R4970052
Sulfate (SO4)	4.92	<T	0.30	mg/L		15-JAN-20	R4971358
Cyanides							
Cyanide, Weak Acid Diss	0.0007	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Total	0.0008	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Free	0.0009	<DL	0.0020	mg/L		16-JAN-20	R4972272
Organic / Inorganic Carbon							
Dissolved Organic Carbon	28.8	HTA	0.50	mg/L		17-JAN-20	R4972937
Total Organic Carbon	29.3		0.50	mg/L		17-JAN-20	R4972936
Total Metals							
Aluminum (Al)-Total	0.166		0.0050	mg/L		17-JAN-20	R4972785
Antimony (Sb)-Total	0.00006	<DL	0.00060	mg/L		17-JAN-20	R4972785
Arsenic (As)-Total	0.00092	<DL	0.0010	mg/L		17-JAN-20	R4972785
Barium (Ba)-Total	0.0153		0.010	mg/L		17-JAN-20	R4972785
Beryllium (Be)-Total	0.000022	<DL	0.0010	mg/L		17-JAN-20	R4972785
Bismuth (Bi)-Total	<0.000002	<W	0.0010	mg/L		17-JAN-20	R4972785
Boron (B)-Total	0.0125	<DL	0.050	mg/L		17-JAN-20	R4972785
Cadmium (Cd)-Total	0.000019	<T	0.000017	mg/L		17-JAN-20	R4972785
Calcium (Ca)-Total	37.7		0.20	mg/L		17-JAN-20	R4972785
Cesium (Cs)-Total	0.0000175		0.000010	mg/L		17-JAN-20	R4972785
Chromium (Cr)-Total	0.00056	<DL	0.0010	mg/L		17-JAN-20	R4972785
Cobalt (Co)-Total	0.000649	<T	0.00050	mg/L		17-JAN-20	R4972785

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-11 SW20							
Sampled By: Client on 09-JAN-20 @ 11:40							
Matrix: Water							
Total Metals							
Copper (Cu)-Total	0.00074	<DL	0.0010	mg/L		17-JAN-20	R4972785
Iron (Fe)-Total	1.40		0.020	mg/L		17-JAN-20	R4972785
Lead (Pb)-Total	0.000175	<T	0.000050	mg/L		17-JAN-20	R4972785
Lithium (Li)-Total	0.0072	<DL	0.050	mg/L		17-JAN-20	R4972785
Magnesium (Mg)-Total	16.8		0.020	mg/L		17-JAN-20	R4972785
Manganese (Mn)-Total	0.288		0.0010	mg/L		17-JAN-20	R4972785
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972279
Molybdenum (Mo)-Total	0.000300	<DL	0.0010	mg/L		17-JAN-20	R4972785
Nickel (Ni)-Total	0.00168	<DL	0.0020	mg/L		17-JAN-20	R4972785
Phosphorus (P)-Total	0.060		0.050	mg/L		17-JAN-20	R4972785
Potassium (K)-Total	1.53		0.50	mg/L		17-JAN-20	R4972785
Rubidium (Rb)-Total	0.00159		0.00020	mg/L		17-JAN-20	R4972785
Selenium (Se)-Total	0.000215	<T	0.000050	mg/L		17-JAN-20	R4972785
Silicon (Si)-Total	7.34		0.10	mg/L		17-JAN-20	R4972785
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		17-JAN-20	R4972785
Sodium (Na)-Total	7.36		0.10	mg/L		17-JAN-20	R4972785
Strontium (Sr)-Total	0.102		0.0010	mg/L		17-JAN-20	R4972785
Sulfur (S)-Total	2.3		0.50	mg/L		17-JAN-20	R4972785
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		17-JAN-20	R4972785
Thallium (Tl)-Total	0.0000026	<DL	0.00030	mg/L		17-JAN-20	R4972785
Thorium (Th)-Total	0.000055	<DL	0.00010	mg/L		17-JAN-20	R4972785
Tin (Sn)-Total	0.00019	<DL	0.0010	mg/L		17-JAN-20	R4972785
Titanium (Ti)-Total	0.00536		0.0020	mg/L		17-JAN-20	R4972785
Tungsten (W)-Total	<0.000002	<W	0.010	mg/L		17-JAN-20	R4972785
Uranium (U)-Total	0.000515	<DL	0.0050	mg/L		17-JAN-20	R4972785
Vanadium (V)-Total	0.00095	<DL	0.0010	mg/L		17-JAN-20	R4972785
Zinc (Zn)-Total	0.0060	<T	0.0030	mg/L		17-JAN-20	R4972785
Zirconium (Zr)-Total	0.000472	<DL	0.0010	mg/L		17-JAN-20	R4972785
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					15-JAN-20	R4969510
Aluminum (Al)-Dissolved	0.0380		0.0050	mg/L		15-JAN-20	R4971346
Antimony (Sb)-Dissolved	0.000040	<DL	0.00060	mg/L		15-JAN-20	R4971346
Arsenic (As)-Dissolved	0.000915	<DL	0.0010	mg/L		15-JAN-20	R4971346
Barium (Ba)-Dissolved	0.0136		0.010	mg/L		15-JAN-20	R4971346
Beryllium (Be)-Dissolved	0.000014	<DL	0.0010	mg/L		15-JAN-20	R4971346
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Boron (B)-Dissolved	0.0130	<DL	0.050	mg/L		15-JAN-20	R4971346
Cadmium (Cd)-Dissolved	0.0000085	<DL	0.000017	mg/L		15-JAN-20	R4971346
Calcium (Ca)-Dissolved	36.9		0.20	mg/L		15-JAN-20	R4971346
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		15-JAN-20	R4971346
Chromium (Cr)-Dissolved	0.00030	<DL	0.0010	mg/L		15-JAN-20	R4971346

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-11 SW20 Sampled By: Client on 09-JAN-20 @ 11:40 Matrix: Water							
Dissolved Metals							
Cobalt (Co)-Dissolved	0.000538	<T	0.00050	mg/L		15-JAN-20	R4971346
Copper (Cu)-Dissolved	0.00120	<T	0.0010	mg/L		15-JAN-20	R4971346
Iron (Fe)-Dissolved	1.02		0.020	mg/L		15-JAN-20	R4971346
Lead (Pb)-Dissolved	0.000110	<T	0.000050	mg/L		15-JAN-20	R4971346
Lithium (Li)-Dissolved	0.0062	<DL	0.050	mg/L		15-JAN-20	R4971346
Magnesium (Mg)-Dissolved	16.1		0.020	mg/L		15-JAN-20	R4971346
Manganese (Mn)-Dissolved	0.241		0.0010	mg/L		15-JAN-20	R4971346
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972252
Molybdenum (Mo)-Dissolved	0.000272	<DL	0.0010	mg/L		15-JAN-20	R4971346
Nickel (Ni)-Dissolved	0.00140	<DL	0.0020	mg/L		15-JAN-20	R4971346
Phosphorus (P)-Dissolved	0.034	<DL	0.050	mg/L		15-JAN-20	R4971346
Potassium (K)-Dissolved	1.43		0.50	mg/L		15-JAN-20	R4971346
Rubidium (Rb)-Dissolved	0.00127		0.00020	mg/L		15-JAN-20	R4971346
Selenium (Se)-Dissolved	0.000185	<T	0.000050	mg/L		15-JAN-20	R4971346
Silicon (Si)-Dissolved	6.96		0.050	mg/L		15-JAN-20	R4971346
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		15-JAN-20	R4971346
Sodium (Na)-Dissolved	6.78		0.10	mg/L		15-JAN-20	R4971346
Strontium (Sr)-Dissolved	0.0955		0.0010	mg/L		15-JAN-20	R4971346
Sulfur (S)-Dissolved	1.9		0.50	mg/L		15-JAN-20	R4971346
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Thallium (Tl)-Dissolved	<0.0000001	<W	0.00030	mg/L		15-JAN-20	R4971346
Thorium (Th)-Dissolved	0.000052	<DL	0.00010	mg/L		15-JAN-20	R4971346
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Titanium (Ti)-Dissolved	0.00246		0.0020	mg/L		15-JAN-20	R4971346
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		15-JAN-20	R4971346
Uranium (U)-Dissolved	0.000484	<DL	0.0050	mg/L		15-JAN-20	R4971346
Vanadium (V)-Dissolved	0.00054	<DL	0.0010	mg/L		15-JAN-20	R4971346
Zinc (Zn)-Dissolved	0.0054	<T	0.0030	mg/L		15-JAN-20	R4971346
Zirconium (Zr)-Dissolved	0.000488	<DL	0.0010	mg/L		15-JAN-20	R4971346
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		16-JAN-20	R4973529
Chemical Oxygen Demand	85		20	mg/L		15-JAN-20	R4970113
Oil and Grease, Total	1.2		1.0	mg/L	17-JAN-20	17-JAN-20	R4972403
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		29-JAN-20	R4990265
L2405423-12 SW28A Sampled By: Client on 09-JAN-20 @ 11:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	17.91		0	mg/L		15-JAN-20	R4969028
pH, Client Supplied	7.73		0.10	pH		15-JAN-20	R4969028
Temperature, Client Supplied	-0.2		0	Degree C		15-JAN-20	R4969028

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-12 SW28A							
Sampled By: Client on 09-JAN-20 @ 11:00							
Matrix: Water							
Field Tests							
Physical Tests							
Color, True	227		2.0	CU		15-JAN-20	R4970285
Conductivity (EC)	265		1.0	uS/cm		15-JAN-20	R4971531
Hardness (as CaCO3)	151		0.51	mg/L		19-JAN-20	
pH	7.69		0.10	pH		15-JAN-20	R4971531
Total Suspended Solids	5.0		2.0	mg/L		15-JAN-20	R4971471
Total Dissolved Solids	244		13	mg/L		15-JAN-20	R4971910
Turbidity	3.02		0.10	NTU		16-JAN-20	R4971579
Anions and Nutrients							
Acidity (as CaCO3)	2.6		2.0	mg/L		17-JAN-20	R4972787
Alkalinity, Total (as CaCO3)	144		2.0	mg/L		15-JAN-20	R4971531
Ammonia, Total (as N)	0.062	<T	0.020	mg/L		15-JAN-20	R4970888
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-JAN-20	
Chloride (Cl)	3.31		0.10	mg/L		15-JAN-20	R4971358
Fluoride (F)	0.040		0.020	mg/L		15-JAN-20	R4971358
Nitrate (as N)	0.056	<T	0.020	mg/L		15-JAN-20	R4971358
Nitrite (as N)	0.0020	<DL	0.010	mg/L		15-JAN-20	R4971358
Orthophosphate-Dissolved (as P)	0.0061		0.0030	mg/L		15-JAN-20	R4970052
Sulfate (SO4)	3.50	<T	0.30	mg/L		15-JAN-20	R4971358
Cyanides							
Cyanide, Weak Acid Diss	0.0011	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Total	0.0010	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Free	0.0009	<DL	0.0020	mg/L		16-JAN-20	R4972272
Organic / Inorganic Carbon							
Dissolved Organic Carbon	41.2	HTA	0.50	mg/L		17-JAN-20	R4972937
Total Organic Carbon	42.4		0.50	mg/L		17-JAN-20	R4972936
Total Metals							
Aluminum (Al)-Total	0.129		0.0050	mg/L		17-JAN-20	R4972785
Antimony (Sb)-Total	0.00006	<DL	0.00060	mg/L		17-JAN-20	R4972785
Arsenic (As)-Total	0.00114	<T	0.0010	mg/L		17-JAN-20	R4972785
Barium (Ba)-Total	0.0165		0.010	mg/L		17-JAN-20	R4972785
Beryllium (Be)-Total	0.000024	<DL	0.0010	mg/L		17-JAN-20	R4972785
Bismuth (Bi)-Total	<0.000002	<W	0.0010	mg/L		17-JAN-20	R4972785
Boron (B)-Total	0.0105	<DL	0.050	mg/L		17-JAN-20	R4972785
Cadmium (Cd)-Total	0.000028	<T	0.000017	mg/L		17-JAN-20	R4972785
Calcium (Ca)-Total	34.9		0.20	mg/L		17-JAN-20	R4972785
Cesium (Cs)-Total	0.0000105		0.000010	mg/L		17-JAN-20	R4972785
Chromium (Cr)-Total	0.00044	<DL	0.0010	mg/L		17-JAN-20	R4972785
Cobalt (Co)-Total	0.000493	<DL	0.00050	mg/L		17-JAN-20	R4972785
Copper (Cu)-Total	0.00108	<T	0.0010	mg/L		17-JAN-20	R4972785
Iron (Fe)-Total	0.956		0.020	mg/L		17-JAN-20	R4972785
Lead (Pb)-Total	0.000095	<T	0.000050	mg/L		17-JAN-20	R4972785

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-12 SW28A							
Sampled By: Client on 09-JAN-20 @ 11:00							
Matrix: Water							
Total Metals							
Lithium (Li)-Total	0.0052	<DL	0.050	mg/L		17-JAN-20	R4972785
Magnesium (Mg)-Total	16.0		0.020	mg/L		17-JAN-20	R4972785
Manganese (Mn)-Total	0.139		0.0010	mg/L		17-JAN-20	R4972785
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		17-JAN-20	R4972279
Molybdenum (Mo)-Total	0.000475	<DL	0.0010	mg/L		17-JAN-20	R4972785
Nickel (Ni)-Total	0.00140	<DL	0.0020	mg/L		17-JAN-20	R4972785
Phosphorus (P)-Total	0.025	<DL	0.050	mg/L		17-JAN-20	R4972785
Potassium (K)-Total	1.34		0.50	mg/L		17-JAN-20	R4972785
Rubidium (Rb)-Total	0.00217		0.00020	mg/L		17-JAN-20	R4972785
Selenium (Se)-Total	0.000185	<T	0.000050	mg/L		17-JAN-20	R4972785
Silicon (Si)-Total	5.32		0.10	mg/L		17-JAN-20	R4972785
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		17-JAN-20	R4972785
Sodium (Na)-Total	2.56		0.10	mg/L		17-JAN-20	R4972785
Strontium (Sr)-Total	0.0953		0.0010	mg/L		17-JAN-20	R4972785
Sulfur (S)-Total	1.8		0.50	mg/L		17-JAN-20	R4972785
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		17-JAN-20	R4972785
Thallium (Tl)-Total	0.0000054	<DL	0.00030	mg/L		17-JAN-20	R4972785
Thorium (Th)-Total	0.000049	<DL	0.00010	mg/L		17-JAN-20	R4972785
Tin (Sn)-Total	0.00011	<DL	0.0010	mg/L		17-JAN-20	R4972785
Titanium (Ti)-Total	0.00356		0.0020	mg/L		17-JAN-20	R4972785
Tungsten (W)-Total	<0.000002	<W	0.010	mg/L		17-JAN-20	R4972785
Uranium (U)-Total	0.000835	<DL	0.0050	mg/L		17-JAN-20	R4972785
Vanadium (V)-Total	0.00085	<DL	0.0010	mg/L		17-JAN-20	R4972785
Zinc (Zn)-Total	0.0028	<DL	0.0030	mg/L		17-JAN-20	R4972785
Zirconium (Zr)-Total	0.000346	<DL	0.0010	mg/L		17-JAN-20	R4972785
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					15-JAN-20	R4969510
Aluminum (Al)-Dissolved	0.0486		0.0050	mg/L		15-JAN-20	R4971346
Antimony (Sb)-Dissolved	0.000050	<DL	0.00060	mg/L		15-JAN-20	R4971346
Arsenic (As)-Dissolved	0.00117	<T	0.0010	mg/L		15-JAN-20	R4971346
Barium (Ba)-Dissolved	0.0160		0.010	mg/L		15-JAN-20	R4971346
Beryllium (Be)-Dissolved	0.000016	<DL	0.0010	mg/L		15-JAN-20	R4971346
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Boron (B)-Dissolved	0.0110	<DL	0.050	mg/L		15-JAN-20	R4971346
Cadmium (Cd)-Dissolved	0.0000205	<T	0.000017	mg/L		15-JAN-20	R4971346
Calcium (Ca)-Dissolved	34.6		0.20	mg/L		15-JAN-20	R4971346
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		15-JAN-20	R4971346
Chromium (Cr)-Dissolved	0.00024	<DL	0.0010	mg/L		15-JAN-20	R4971346
Cobalt (Co)-Dissolved	0.000421	<DL	0.00050	mg/L		15-JAN-20	R4971346
Copper (Cu)-Dissolved	0.00092	<DL	0.0010	mg/L		15-JAN-20	R4971346
Iron (Fe)-Dissolved	0.787		0.020	mg/L		15-JAN-20	R4971346

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-12 SW28A Sampled By: Client on 09-JAN-20 @ 11:00 Matrix: Water							
Dissolved Metals							
Lead (Pb)-Dissolved	0.000030	<DL	0.000050	mg/L		15-JAN-20	R4971346
Lithium (Li)-Dissolved	0.0050	<DL	0.050	mg/L		15-JAN-20	R4971346
Magnesium (Mg)-Dissolved	15.7		0.020	mg/L		15-JAN-20	R4971346
Manganese (Mn)-Dissolved	0.126		0.0010	mg/L		15-JAN-20	R4971346
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972252
Molybdenum (Mo)-Dissolved	0.000444	<DL	0.0010	mg/L		15-JAN-20	R4971346
Nickel (Ni)-Dissolved	0.00120	<DL	0.0020	mg/L		15-JAN-20	R4971346
Phosphorus (P)-Dissolved	0.010	<DL	0.050	mg/L		15-JAN-20	R4971346
Potassium (K)-Dissolved	1.27		0.50	mg/L		15-JAN-20	R4971346
Rubidium (Rb)-Dissolved	0.00190		0.00020	mg/L		15-JAN-20	R4971346
Selenium (Se)-Dissolved	0.000210	<T	0.000050	mg/L		15-JAN-20	R4971346
Silicon (Si)-Dissolved	5.19		0.050	mg/L		15-JAN-20	R4971346
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		15-JAN-20	R4971346
Sodium (Na)-Dissolved	2.30		0.10	mg/L		15-JAN-20	R4971346
Strontium (Sr)-Dissolved	0.0892		0.0010	mg/L		15-JAN-20	R4971346
Sulfur (S)-Dissolved	1.7		0.50	mg/L		15-JAN-20	R4971346
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Thallium (Tl)-Dissolved	<0.0000001	<W	0.00030	mg/L		15-JAN-20	R4971346
Thorium (Th)-Dissolved	0.000048	<DL	0.00010	mg/L		15-JAN-20	R4971346
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Titanium (Ti)-Dissolved	0.00168	<DL	0.0020	mg/L		15-JAN-20	R4971346
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		15-JAN-20	R4971346
Uranium (U)-Dissolved	0.000829	<DL	0.0050	mg/L		15-JAN-20	R4971346
Vanadium (V)-Dissolved	0.00060	<DL	0.0010	mg/L		15-JAN-20	R4971346
Zinc (Zn)-Dissolved	0.0018	<DL	0.0030	mg/L		15-JAN-20	R4971346
Zirconium (Zr)-Dissolved	0.000354	<DL	0.0010	mg/L		15-JAN-20	R4971346
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		16-JAN-20	R4973529
Chemical Oxygen Demand	119		20	mg/L		15-JAN-20	R4970113
Oil and Grease, Total	0.8	<DL	1.0	mg/L	17-JAN-20	17-JAN-20	R4972403
Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2405423-13 SW10 Sampled By: Client on 09-JAN-20 @ 10:15 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	27.01		0	mg/L		15-JAN-20	R4969028
pH, Client Supplied	7.4		0.10	pH		15-JAN-20	R4969028
Temperature, Client Supplied	-0.29		0	Degree C		15-JAN-20	R4969028
Physical Tests							
Color, True	144		2.0	CU		15-JAN-20	R4970285
Conductivity (EC)	341		1.0	uS/cm		15-JAN-20	R4971531
Hardness (as CaCO3)	176		0.51	mg/L		19-JAN-20	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-13 SW10							
Sampled By: Client on 09-JAN-20 @ 10:15							
Matrix: Water							
Physical Tests							
pH	7.45		0.10	pH		15-JAN-20	R4971531
Total Suspended Solids	4.0		2.0	mg/L		15-JAN-20	R4971471
Total Dissolved Solids	246		13	mg/L		15-JAN-20	R4971910
Turbidity	5.00		0.10	NTU		16-JAN-20	R4971579
Anions and Nutrients							
Acidity (as CaCO3)	5.0		2.2	mg/L		17-JAN-20	R4972787
Alkalinity, Total (as CaCO3)	174		2.0	mg/L		15-JAN-20	R4971531
Ammonia, Total (as N)	0.040	<T	0.020	mg/L		15-JAN-20	R4970888
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-JAN-20	
Chloride (Cl)	8.89		0.10	mg/L		15-JAN-20	R4971358
Fluoride (F)	0.039		0.020	mg/L		15-JAN-20	R4971358
Nitrate (as N)	0.048	<T	0.020	mg/L		15-JAN-20	R4971358
Nitrite (as N)	<0.0005	<W	0.010	mg/L		15-JAN-20	R4971358
Orthophosphate-Dissolved (as P)	0.0386		0.0030	mg/L		15-JAN-20	R4970052
Sulfate (SO4)	4.64	<T	0.30	mg/L		15-JAN-20	R4971358
Cyanides							
Cyanide, Weak Acid Diss	0.0007	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Total	0.0008	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Free	0.0007	<DL	0.0020	mg/L		16-JAN-20	R4972272
Organic / Inorganic Carbon							
Dissolved Organic Carbon	32.3	HTA	0.50	mg/L		17-JAN-20	R4972937
Total Organic Carbon	32.6		0.50	mg/L		17-JAN-20	R4972936
Total Metals							
Aluminum (Al)-Total	0.134		0.0050	mg/L		17-JAN-20	R4972785
Antimony (Sb)-Total	0.00006	<DL	0.00060	mg/L		17-JAN-20	R4972785
Arsenic (As)-Total	0.00100	<T	0.0010	mg/L		17-JAN-20	R4972785
Barium (Ba)-Total	0.0154		0.010	mg/L		17-JAN-20	R4972785
Beryllium (Be)-Total	0.000019	<DL	0.0010	mg/L		17-JAN-20	R4972785
Bismuth (Bi)-Total	<0.000002	<W	0.0010	mg/L		17-JAN-20	R4972785
Boron (B)-Total	0.0140	<DL	0.050	mg/L		17-JAN-20	R4972785
Cadmium (Cd)-Total	0.000021	<T	0.000017	mg/L		17-JAN-20	R4972785
Calcium (Ca)-Total	40.7		0.20	mg/L		17-JAN-20	R4972785
Cesium (Cs)-Total	0.0000130		0.000010	mg/L		17-JAN-20	R4972785
Chromium (Cr)-Total	0.00054	<DL	0.0010	mg/L		17-JAN-20	R4972785
Cobalt (Co)-Total	0.000619	<T	0.00050	mg/L		17-JAN-20	R4972785
Copper (Cu)-Total	0.00102	<T	0.0010	mg/L		17-JAN-20	R4972785
Iron (Fe)-Total	1.12		0.020	mg/L		17-JAN-20	R4972785
Lead (Pb)-Total	0.000145	<T	0.000050	mg/L		17-JAN-20	R4972785
Lithium (Li)-Total	0.0070	<DL	0.050	mg/L		17-JAN-20	R4972785
Magnesium (Mg)-Total	18.2		0.020	mg/L		17-JAN-20	R4972785
Manganese (Mn)-Total	0.195		0.0010	mg/L		17-JAN-20	R4972785
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		17-JAN-20	R4972279

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-13 SW10							
Sampled By: Client on 09-JAN-20 @ 10:15							
Matrix: Water							
Total Metals							
Molybdenum (Mo)-Total	0.000460	<DL	0.0010	mg/L		17-JAN-20	R4972785
Nickel (Ni)-Total	0.00200	<T	0.0020	mg/L		17-JAN-20	R4972785
Phosphorus (P)-Total	0.075		0.050	mg/L		17-JAN-20	R4972785
Potassium (K)-Total	1.65		0.50	mg/L		17-JAN-20	R4972785
Rubidium (Rb)-Total	0.00163		0.00020	mg/L		17-JAN-20	R4972785
Selenium (Se)-Total	0.000185	<T	0.000050	mg/L		17-JAN-20	R4972785
Silicon (Si)-Total	6.99		0.10	mg/L		17-JAN-20	R4972785
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		17-JAN-20	R4972785
Sodium (Na)-Total	7.00		0.10	mg/L		17-JAN-20	R4972785
Strontium (Sr)-Total	0.111		0.0010	mg/L		17-JAN-20	R4972785
Sulfur (S)-Total	2.4		0.50	mg/L		17-JAN-20	R4972785
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		17-JAN-20	R4972785
Thallium (Tl)-Total	0.0000018	<DL	0.00030	mg/L		17-JAN-20	R4972785
Thorium (Th)-Total	0.000051	<DL	0.00010	mg/L		17-JAN-20	R4972785
Tin (Sn)-Total	0.00005	<DL	0.0010	mg/L		17-JAN-20	R4972785
Titanium (Ti)-Total	0.00444		0.0020	mg/L		17-JAN-20	R4972785
Tungsten (W)-Total	0.000002	<DL	0.010	mg/L		17-JAN-20	R4972785
Uranium (U)-Total	0.000880	<DL	0.0050	mg/L		17-JAN-20	R4972785
Vanadium (V)-Total	0.00085	<DL	0.0010	mg/L		17-JAN-20	R4972785
Zinc (Zn)-Total	0.0078	<T	0.0030	mg/L		17-JAN-20	R4972785
Zirconium (Zr)-Total	0.000482	<DL	0.0010	mg/L		17-JAN-20	R4972785
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					15-JAN-20	R4969510
Aluminum (Al)-Dissolved	0.0368		0.0050	mg/L		15-JAN-20	R4971346
Antimony (Sb)-Dissolved	0.000045	<DL	0.00060	mg/L		15-JAN-20	R4971346
Arsenic (As)-Dissolved	0.000950	<DL	0.0010	mg/L		15-JAN-20	R4971346
Barium (Ba)-Dissolved	0.0143		0.010	mg/L		15-JAN-20	R4971346
Beryllium (Be)-Dissolved	0.000020	<DL	0.0010	mg/L		15-JAN-20	R4971346
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Boron (B)-Dissolved	0.0150	<DL	0.050	mg/L		15-JAN-20	R4971346
Cadmium (Cd)-Dissolved	0.0000130	<DL	0.000017	mg/L		15-JAN-20	R4971346
Calcium (Ca)-Dissolved	40.7		0.20	mg/L		15-JAN-20	R4971346
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		15-JAN-20	R4971346
Chromium (Cr)-Dissolved	0.00028	<DL	0.0010	mg/L		15-JAN-20	R4971346
Cobalt (Co)-Dissolved	0.000543	<T	0.00050	mg/L		15-JAN-20	R4971346
Copper (Cu)-Dissolved	0.00076	<DL	0.0010	mg/L		15-JAN-20	R4971346
Iron (Fe)-Dissolved	0.849		0.020	mg/L		15-JAN-20	R4971346
Lead (Pb)-Dissolved	0.000075	<T	0.000050	mg/L		15-JAN-20	R4971346
Lithium (Li)-Dissolved	0.0066	<DL	0.050	mg/L		15-JAN-20	R4971346
Magnesium (Mg)-Dissolved	18.0		0.020	mg/L		15-JAN-20	R4971346
Manganese (Mn)-Dissolved	0.177		0.0010	mg/L		15-JAN-20	R4971346

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-13 SW10 Sampled By: Client on 09-JAN-20 @ 10:15 Matrix: Water							
Dissolved Metals							
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972252
Molybdenum (Mo)-Dissolved	0.000448	<DL	0.0010	mg/L		15-JAN-20	R4971346
Nickel (Ni)-Dissolved	0.00180	<DL	0.0020	mg/L		15-JAN-20	R4971346
Phosphorus (P)-Dissolved	0.046	<DL	0.050	mg/L		15-JAN-20	R4971346
Potassium (K)-Dissolved	1.57		0.50	mg/L		15-JAN-20	R4971346
Rubidium (Rb)-Dissolved	0.00151		0.00020	mg/L		15-JAN-20	R4971346
Selenium (Se)-Dissolved	0.000210	<T	0.000050	mg/L		15-JAN-20	R4971346
Silicon (Si)-Dissolved	6.94		0.050	mg/L		15-JAN-20	R4971346
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		15-JAN-20	R4971346
Sodium (Na)-Dissolved	6.75		0.10	mg/L		15-JAN-20	R4971346
Strontium (Sr)-Dissolved	0.108		0.0010	mg/L		15-JAN-20	R4971346
Sulfur (S)-Dissolved	2.2		0.50	mg/L		15-JAN-20	R4971346
Tellurium (Te)-Dissolved	0.000015	<DL	0.0010	mg/L		15-JAN-20	R4971346
Thallium (Tl)-Dissolved	<0.0000001	<W	0.00030	mg/L		15-JAN-20	R4971346
Thorium (Th)-Dissolved	0.000062	<DL	0.00010	mg/L		15-JAN-20	R4971346
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Titanium (Ti)-Dissolved	0.00236		0.0020	mg/L		15-JAN-20	R4971346
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		15-JAN-20	R4971346
Uranium (U)-Dissolved	0.000897	<DL	0.0050	mg/L		15-JAN-20	R4971346
Vanadium (V)-Dissolved	0.00062	<DL	0.0010	mg/L		15-JAN-20	R4971346
Zinc (Zn)-Dissolved	0.0054	<T	0.0030	mg/L		15-JAN-20	R4971346
Zirconium (Zr)-Dissolved	0.000524	<DL	0.0010	mg/L		15-JAN-20	R4971346
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		16-JAN-20	R4973529
Chemical Oxygen Demand	90		20	mg/L		15-JAN-20	R4970113
Oil and Grease, Total	1.0		1.0	mg/L	17-JAN-20	17-JAN-20	R4972403
Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2405423-14 SW03 Sampled By: Client on 09-JAN-20 @ 09:45 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	32.18		0	mg/L		15-JAN-20	R4969028
pH, Client Supplied	6.99		0.10	pH		15-JAN-20	R4969028
Temperature, Client Supplied	-0.28		0	Degree C		15-JAN-20	R4969028
Physical Tests							
Color, True	115		2.0	CU		15-JAN-20	R4970285
Conductivity (EC)	367		1.0	uS/cm		15-JAN-20	R4971531
Hardness (as CaCO3)	190		0.51	mg/L		19-JAN-20	
pH	7.46		0.10	pH		15-JAN-20	R4971531
Total Suspended Solids	13.0		2.0	mg/L		15-JAN-20	R4971471
Total Dissolved Solids	256		20	mg/L		15-JAN-20	R4971910
Turbidity	14.6		0.10	NTU		16-JAN-20	R4971579

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-14 SW03							
Sampled By: Client on 09-JAN-20 @ 09:45							
Matrix: Water							
Physical Tests							
Anions and Nutrients							
Acidity (as CaCO3)	5.2		2.2	mg/L		17-JAN-20	R4972787
Alkalinity, Total (as CaCO3)	183		2.0	mg/L		15-JAN-20	R4971531
Ammonia, Total (as N)	0.056	<T	0.020	mg/L		15-JAN-20	R4970888
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-JAN-20	
Chloride (Cl)	9.87		0.10	mg/L		15-JAN-20	R4971358
Fluoride (F)	0.036		0.020	mg/L		15-JAN-20	R4971358
Nitrate (as N)	0.062	<T	0.020	mg/L		15-JAN-20	R4971358
Nitrite (as N)	0.0045	<DL	0.010	mg/L		15-JAN-20	R4971358
Orthophosphate-Dissolved (as P)	0.0373		0.0030	mg/L		15-JAN-20	R4970052
Sulfate (SO4)	6.70		0.30	mg/L		15-JAN-20	R4971358
Cyanides							
Cyanide, Weak Acid Diss	0.0008	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Total	0.0008	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Free	0.0005	<DL	0.0020	mg/L		16-JAN-20	R4972272
Organic / Inorganic Carbon							
Dissolved Organic Carbon	28.9	HTA	0.50	mg/L		17-JAN-20	R4972937
Total Organic Carbon	29.6		0.50	mg/L		17-JAN-20	R4972936
Total Metals							
Aluminum (Al)-Total	0.464		0.0050	mg/L		17-JAN-20	R4972785
Antimony (Sb)-Total	0.00006	<DL	0.00060	mg/L		17-JAN-20	R4972785
Arsenic (As)-Total	0.00104	<T	0.0010	mg/L		17-JAN-20	R4972785
Barium (Ba)-Total	0.0210		0.010	mg/L		17-JAN-20	R4972785
Beryllium (Be)-Total	0.000033	<DL	0.0010	mg/L		17-JAN-20	R4972785
Bismuth (Bi)-Total	0.000010	<DL	0.0010	mg/L		17-JAN-20	R4972785
Boron (B)-Total	0.0110	<DL	0.050	mg/L		17-JAN-20	R4972785
Cadmium (Cd)-Total	0.000021	<T	0.000017	mg/L		17-JAN-20	R4972785
Calcium (Ca)-Total	46.1		0.20	mg/L		17-JAN-20	R4972785
Cesium (Cs)-Total	0.0000625		0.000010	mg/L		17-JAN-20	R4972785
Chromium (Cr)-Total	0.00114		0.0010	mg/L		17-JAN-20	R4972785
Cobalt (Co)-Total	0.000735	<T	0.00050	mg/L		17-JAN-20	R4972785
Copper (Cu)-Total	0.00180	<T	0.0010	mg/L		17-JAN-20	R4972785
Iron (Fe)-Total	1.43		0.020	mg/L		17-JAN-20	R4972785
Lead (Pb)-Total	0.000350	<T	0.000050	mg/L		17-JAN-20	R4972785
Lithium (Li)-Total	0.0064	<DL	0.050	mg/L		17-JAN-20	R4972785
Magnesium (Mg)-Total	19.4		0.020	mg/L		17-JAN-20	R4972785
Manganese (Mn)-Total	0.266		0.0010	mg/L		17-JAN-20	R4972785
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972279
Molybdenum (Mo)-Total	0.000525	<DL	0.0010	mg/L		17-JAN-20	R4972785
Nickel (Ni)-Total	0.00250	<T	0.0020	mg/L		17-JAN-20	R4972785
Phosphorus (P)-Total	0.080		0.050	mg/L		17-JAN-20	R4972785
Potassium (K)-Total	1.83		0.50	mg/L		17-JAN-20	R4972785

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-14 SW03							
Sampled By: Client on 09-JAN-20 @ 09:45							
Matrix: Water							
Total Metals							
Rubidium (Rb)-Total	0.00238		0.00020	mg/L		17-JAN-20	R4972785
Selenium (Se)-Total	0.000190	<T	0.000050	mg/L		17-JAN-20	R4972785
Silicon (Si)-Total	7.60		0.10	mg/L		17-JAN-20	R4972785
Silver (Ag)-Total	0.000004	<DL	0.00010	mg/L		17-JAN-20	R4972785
Sodium (Na)-Total	6.24		0.10	mg/L		17-JAN-20	R4972785
Strontium (Sr)-Total	0.105		0.0010	mg/L		17-JAN-20	R4972785
Sulfur (S)-Total	2.9		0.50	mg/L		17-JAN-20	R4972785
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		17-JAN-20	R4972785
Thallium (Tl)-Total	0.0000076	<DL	0.00030	mg/L		17-JAN-20	R4972785
Thorium (Th)-Total	0.000097	<DL	0.00010	mg/L		17-JAN-20	R4972785
Tin (Sn)-Total	0.00003	<DL	0.0010	mg/L		17-JAN-20	R4972785
Titanium (Ti)-Total	0.0148		0.0020	mg/L		17-JAN-20	R4972785
Tungsten (W)-Total	0.000002	<DL	0.010	mg/L		17-JAN-20	R4972785
Uranium (U)-Total	0.00110	<DL	0.0050	mg/L		17-JAN-20	R4972785
Vanadium (V)-Total	0.00180	<T	0.0010	mg/L		17-JAN-20	R4972785
Zinc (Zn)-Total	0.0120		0.0030	mg/L		17-JAN-20	R4972785
Zirconium (Zr)-Total	0.000706	<DL	0.0010	mg/L		17-JAN-20	R4972785
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					15-JAN-20	R4969510
Aluminum (Al)-Dissolved	0.0244	<T	0.0050	mg/L		15-JAN-20	R4971346
Antimony (Sb)-Dissolved	0.000060	<DL	0.00060	mg/L		15-JAN-20	R4971346
Arsenic (As)-Dissolved	0.000910	<DL	0.0010	mg/L		15-JAN-20	R4971346
Barium (Ba)-Dissolved	0.0173		0.010	mg/L		15-JAN-20	R4971346
Beryllium (Be)-Dissolved	0.000010	<DL	0.0010	mg/L		15-JAN-20	R4971346
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Boron (B)-Dissolved	0.0115	<DL	0.050	mg/L		15-JAN-20	R4971346
Cadmium (Cd)-Dissolved	0.0000095	<DL	0.000017	mg/L		15-JAN-20	R4971346
Calcium (Ca)-Dissolved	45.0		0.20	mg/L		15-JAN-20	R4971346
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		15-JAN-20	R4971346
Chromium (Cr)-Dissolved	0.00020	<DL	0.0010	mg/L		15-JAN-20	R4971346
Cobalt (Co)-Dissolved	0.000475	<DL	0.00050	mg/L		15-JAN-20	R4971346
Copper (Cu)-Dissolved	0.00130	<T	0.0010	mg/L		15-JAN-20	R4971346
Iron (Fe)-Dissolved	0.706		0.020	mg/L		15-JAN-20	R4971346
Lead (Pb)-Dissolved	0.000105	<T	0.000050	mg/L		15-JAN-20	R4971346
Lithium (Li)-Dissolved	0.0060	<DL	0.050	mg/L		15-JAN-20	R4971346
Magnesium (Mg)-Dissolved	18.9		0.020	mg/L		15-JAN-20	R4971346
Manganese (Mn)-Dissolved	0.227		0.0010	mg/L		15-JAN-20	R4971346
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972252
Molybdenum (Mo)-Dissolved	0.000374	<DL	0.0010	mg/L		15-JAN-20	R4971346
Nickel (Ni)-Dissolved	0.00182	<DL	0.0020	mg/L		15-JAN-20	R4971346
Phosphorus (P)-Dissolved	0.038	<DL	0.050	mg/L		15-JAN-20	R4971346

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-14 SW03 Sampled By: Client on 09-JAN-20 @ 09:45 Matrix: Water							
Dissolved Metals							
Potassium (K)-Dissolved	1.67		0.50	mg/L		15-JAN-20	R4971346
Rubidium (Rb)-Dissolved	0.00137		0.00020	mg/L		15-JAN-20	R4971346
Selenium (Se)-Dissolved	0.000215	<T	0.000050	mg/L		15-JAN-20	R4971346
Silicon (Si)-Dissolved	6.74		0.050	mg/L		15-JAN-20	R4971346
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		15-JAN-20	R4971346
Sodium (Na)-Dissolved	5.88		0.10	mg/L		15-JAN-20	R4971346
Strontium (Sr)-Dissolved	0.0998		0.0010	mg/L		15-JAN-20	R4971346
Sulfur (S)-Dissolved	2.9		0.50	mg/L		15-JAN-20	R4971346
Tellurium (Te)-Dissolved	0.000005	<DL	0.0010	mg/L		15-JAN-20	R4971346
Thallium (Tl)-Dissolved	<0.0000001	<W	0.00030	mg/L		15-JAN-20	R4971346
Thorium (Th)-Dissolved	0.000052	<DL	0.00010	mg/L		15-JAN-20	R4971346
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Titanium (Ti)-Dissolved	0.00256		0.0020	mg/L		15-JAN-20	R4971346
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		15-JAN-20	R4971346
Uranium (U)-Dissolved	0.00109	<DL	0.0050	mg/L		15-JAN-20	R4971346
Vanadium (V)-Dissolved	0.00066	<DL	0.0010	mg/L		15-JAN-20	R4971346
Zinc (Zn)-Dissolved	0.0066	<T	0.0030	mg/L		15-JAN-20	R4971346
Zirconium (Zr)-Dissolved	0.000534	<DL	0.0010	mg/L		15-JAN-20	R4971346
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		16-JAN-20	R4973529
Chemical Oxygen Demand	85		20	mg/L		15-JAN-20	R4970113
Oil and Grease, Total	1.0		1.0	mg/L	17-JAN-20	17-JAN-20	R4972403
Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2405423-15 SW26 Sampled By: Client on 09-JAN-20 @ 15:30 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	23.95		0	mg/L		15-JAN-20	R4969028
pH, Client Supplied	6.75		0.10	pH		15-JAN-20	R4969028
Temperature, Client Supplied	-0.28		0	Degree C		15-JAN-20	R4969028
Physical Tests							
Color, True	107		2.0	CU		15-JAN-20	R4970285
Conductivity (EC)	288		1.0	uS/cm		15-JAN-20	R4971531
Hardness (as CaCO3)	155		0.51	mg/L		19-JAN-20	
pH	7.74		0.10	pH		15-JAN-20	R4971531
Total Suspended Solids	5.0		2.0	mg/L		15-JAN-20	R4971826
Total Dissolved Solids	202		13	mg/L		15-JAN-20	R4971910
Turbidity	5.99		0.10	NTU		16-JAN-20	R4971579
Anions and Nutrients							
Acidity (as CaCO3)	1.4	<DL	2.2	mg/L		17-JAN-20	R4972787
Alkalinity, Total (as CaCO3)	149		2.0	mg/L		15-JAN-20	R4971531
Ammonia, Total (as N)	0.046	<T	0.020	mg/L		15-JAN-20	R4970888

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-15 SW26							
Sampled By: Client on 09-JAN-20 @ 15:30							
Matrix: Water							
Anions and Nutrients							
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-JAN-20	
Chloride (Cl)	7.45		0.10	mg/L		15-JAN-20	R4971358
Fluoride (F)	0.040		0.020	mg/L		15-JAN-20	R4971358
Nitrate (as N)	0.081	<T	0.020	mg/L		15-JAN-20	R4971358
Nitrite (as N)	0.0010	<DL	0.010	mg/L		15-JAN-20	R4971358
Orthophosphate-Dissolved (as P)	0.0045		0.0030	mg/L		15-JAN-20	R4970052
Sulfate (SO4)	4.38	<T	0.30	mg/L		15-JAN-20	R4971358
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Total	0.0006	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Free	0.0007	<DL	0.0020	mg/L		16-JAN-20	R4972272
Organic / Inorganic Carbon							
Dissolved Organic Carbon	24.3	HTA	0.50	mg/L		17-JAN-20	R4972937
Total Organic Carbon	24.9		0.50	mg/L		17-JAN-20	R4972936
Total Metals							
Aluminum (Al)-Total	0.168		0.0050	mg/L		17-JAN-20	R4972785
Antimony (Sb)-Total	0.00006	<DL	0.00060	mg/L		17-JAN-20	R4972785
Arsenic (As)-Total	0.00085	<DL	0.0010	mg/L		17-JAN-20	R4972785
Barium (Ba)-Total	0.0159		0.010	mg/L		17-JAN-20	R4972785
Beryllium (Be)-Total	0.000011	<DL	0.0010	mg/L		17-JAN-20	R4972785
Bismuth (Bi)-Total	<0.000002	<W	0.0010	mg/L		17-JAN-20	R4972785
Boron (B)-Total	0.0080	<DL	0.050	mg/L		17-JAN-20	R4972785
Cadmium (Cd)-Total	0.000007	<DL	0.000017	mg/L		17-JAN-20	R4972785
Calcium (Ca)-Total	36.9		0.20	mg/L		17-JAN-20	R4972785
Cesium (Cs)-Total	0.0000240		0.000010	mg/L		17-JAN-20	R4972785
Chromium (Cr)-Total	0.00058	<DL	0.0010	mg/L		17-JAN-20	R4972785
Cobalt (Co)-Total	0.000310	<DL	0.00050	mg/L		17-JAN-20	R4972785
Copper (Cu)-Total	0.00174	<T	0.0010	mg/L		17-JAN-20	R4972785
Iron (Fe)-Total	0.628		0.020	mg/L		17-JAN-20	R4972785
Lead (Pb)-Total	0.000125	<T	0.000050	mg/L		17-JAN-20	R4972785
Lithium (Li)-Total	0.0042	<DL	0.050	mg/L		17-JAN-20	R4972785
Magnesium (Mg)-Total	14.9		0.020	mg/L		17-JAN-20	R4972785
Manganese (Mn)-Total	0.121		0.0010	mg/L		17-JAN-20	R4972785
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972279
Molybdenum (Mo)-Total	0.00115	<T	0.0010	mg/L		17-JAN-20	R4972785
Nickel (Ni)-Total	0.00152	<DL	0.0020	mg/L		17-JAN-20	R4972785
Phosphorus (P)-Total	0.015	<DL	0.050	mg/L		17-JAN-20	R4972785
Potassium (K)-Total	1.32		0.50	mg/L		17-JAN-20	R4972785
Rubidium (Rb)-Total	0.00145		0.00020	mg/L		17-JAN-20	R4972785
Selenium (Se)-Total	0.000140	<T	0.000050	mg/L		17-JAN-20	R4972785
Silicon (Si)-Total	5.46		0.10	mg/L		17-JAN-20	R4972785
Silver (Ag)-Total	0.000008	<DL	0.00010	mg/L		17-JAN-20	R4972785

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-15 SW26							
Sampled By: Client on 09-JAN-20 @ 15:30							
Matrix: Water							
Total Metals							
Sodium (Na)-Total	3.09		0.10	mg/L		17-JAN-20	R4972785
Strontium (Sr)-Total	0.0737		0.0010	mg/L		17-JAN-20	R4972785
Sulfur (S)-Total	2.1		0.50	mg/L		17-JAN-20	R4972785
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		17-JAN-20	R4972785
Thallium (Tl)-Total	0.0000028	<DL	0.00030	mg/L		17-JAN-20	R4972785
Thorium (Th)-Total	0.000053	<DL	0.00010	mg/L		17-JAN-20	R4972785
Tin (Sn)-Total	0.00004	<DL	0.0010	mg/L		17-JAN-20	R4972785
Titanium (Ti)-Total	0.00584		0.0020	mg/L		17-JAN-20	R4972785
Tungsten (W)-Total	0.000002	<DL	0.010	mg/L		17-JAN-20	R4972785
Uranium (U)-Total	0.000980	<DL	0.0050	mg/L		17-JAN-20	R4972785
Vanadium (V)-Total	0.00085	<DL	0.0010	mg/L		17-JAN-20	R4972785
Zinc (Zn)-Total	0.0194		0.0030	mg/L		17-JAN-20	R4972785
Zirconium (Zr)-Total	0.000364	<DL	0.0010	mg/L		17-JAN-20	R4972785
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					15-JAN-20	R4969510
Aluminum (Al)-Dissolved	0.0244	<T	0.0050	mg/L		15-JAN-20	R4971346
Antimony (Sb)-Dissolved	0.000075	<DL	0.00060	mg/L		15-JAN-20	R4971346
Arsenic (As)-Dissolved	0.000830	<DL	0.0010	mg/L		15-JAN-20	R4971346
Barium (Ba)-Dissolved	0.0148		0.010	mg/L		15-JAN-20	R4971346
Beryllium (Be)-Dissolved	0.000006	<DL	0.0010	mg/L		15-JAN-20	R4971346
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Boron (B)-Dissolved	0.0090	<DL	0.050	mg/L		15-JAN-20	R4971346
Cadmium (Cd)-Dissolved	0.0000035	<DL	0.000017	mg/L		15-JAN-20	R4971346
Calcium (Ca)-Dissolved	36.8		0.20	mg/L		15-JAN-20	R4971346
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		15-JAN-20	R4971346
Chromium (Cr)-Dissolved	0.00018	<DL	0.0010	mg/L		15-JAN-20	R4971346
Cobalt (Co)-Dissolved	0.000230	<DL	0.00050	mg/L		15-JAN-20	R4971346
Copper (Cu)-Dissolved	0.00142	<T	0.0010	mg/L		15-JAN-20	R4971346
Iron (Fe)-Dissolved	0.411		0.020	mg/L		15-JAN-20	R4971346
Lead (Pb)-Dissolved	0.000035	<DL	0.000050	mg/L		15-JAN-20	R4971346
Lithium (Li)-Dissolved	0.0038	<DL	0.050	mg/L		15-JAN-20	R4971346
Magnesium (Mg)-Dissolved	15.2		0.020	mg/L		15-JAN-20	R4971346
Manganese (Mn)-Dissolved	0.109		0.0010	mg/L		15-JAN-20	R4971346
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972252
Molybdenum (Mo)-Dissolved	0.00106	<T	0.0010	mg/L		15-JAN-20	R4971346
Nickel (Ni)-Dissolved	0.00126	<DL	0.0020	mg/L		15-JAN-20	R4971346
Phosphorus (P)-Dissolved	0.002	<DL	0.050	mg/L		15-JAN-20	R4971346
Potassium (K)-Dissolved	1.28		0.50	mg/L		15-JAN-20	R4971346
Rubidium (Rb)-Dissolved	0.00123		0.00020	mg/L		15-JAN-20	R4971346
Selenium (Se)-Dissolved	0.000190	<T	0.000050	mg/L		15-JAN-20	R4971346
Silicon (Si)-Dissolved	5.36		0.050	mg/L		15-JAN-20	R4971346

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-15 SW26 Sampled By: Client on 09-JAN-20 @ 15:30 Matrix: Water							
Dissolved Metals							
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		15-JAN-20	R4971346
Sodium (Na)-Dissolved	2.95		0.10	mg/L		15-JAN-20	R4971346
Strontium (Sr)-Dissolved	0.0712		0.0010	mg/L		15-JAN-20	R4971346
Sulfur (S)-Dissolved	1.8		0.50	mg/L		15-JAN-20	R4971346
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Thallium (Tl)-Dissolved	0.0000006	<DL	0.00030	mg/L		15-JAN-20	R4971346
Thorium (Th)-Dissolved	0.000038	<DL	0.00010	mg/L		15-JAN-20	R4971346
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Titanium (Ti)-Dissolved	0.00202		0.0020	mg/L		15-JAN-20	R4971346
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		15-JAN-20	R4971346
Uranium (U)-Dissolved	0.00100	<DL	0.0050	mg/L		15-JAN-20	R4971346
Vanadium (V)-Dissolved	0.00050	<DL	0.0010	mg/L		15-JAN-20	R4971346
Zinc (Zn)-Dissolved	0.0172		0.0030	mg/L		15-JAN-20	R4971346
Zirconium (Zr)-Dissolved	0.000316	<DL	0.0010	mg/L		15-JAN-20	R4971346
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		16-JAN-20	R4973529
Chemical Oxygen Demand	88		20	mg/L		15-JAN-20	R4970113
Oil and Grease, Total	0.2	<DL	1.0	mg/L	17-JAN-20	17-JAN-20	R4972403
L2405423-16 SW02 Sampled By: Client on 09-JAN-20 @ 15:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	27.01		0	mg/L		15-JAN-20	R4969028
pH, Client Supplied	6.63		0.10	pH		15-JAN-20	R4969028
Temperature, Client Supplied	-0.26		0	Degree C		15-JAN-20	R4969028
Physical Tests							
Color, True	152		2.0	CU		15-JAN-20	R4970285
Conductivity (EC)	154		1.0	uS/cm		15-JAN-20	R4971531
Hardness (as CaCO3)	88.1		0.51	mg/L		19-JAN-20	
pH	7.13		0.10	pH		15-JAN-20	R4971531
Total Suspended Solids	0.5	<DL	2.0	mg/L		15-JAN-20	R4971826
Total Dissolved Solids	138		13	mg/L		15-JAN-20	R4971910
Turbidity	0.84		0.10	NTU		16-JAN-20	R4971579
Anions and Nutrients							
Acidity (as CaCO3)	5.4		2.2	mg/L		17-JAN-20	R4972787
Alkalinity, Total (as CaCO3)	97.6		2.0	mg/L		15-JAN-20	R4971531
Ammonia, Total (as N)	0.082	<T	0.020	mg/L		15-JAN-20	R4970888
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-JAN-20	
Chloride (Cl)	0.47		0.10	mg/L		15-JAN-20	R4971358
Fluoride (F)	<0.020		0.020	mg/L		15-JAN-20	R4971358
Nitrate (as N)	0.007	<DL	0.020	mg/L		15-JAN-20	R4971358
Nitrite (as N)	<0.0005	<W	0.010	mg/L		15-JAN-20	R4971358

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-16 SW02							
Sampled By: Client on 09-JAN-20 @ 15:00							
Matrix: Water							
Anions and Nutrients							
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		15-JAN-20	R4970052
Sulfate (SO4)	0.14	<DL	0.30	mg/L		15-JAN-20	R4971358
Cyanides							
Cyanide, Weak Acid Diss	0.0006	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Total	0.0008	<DL	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Free	0.0008	<DL	0.0020	mg/L		16-JAN-20	R4972272
Organic / Inorganic Carbon							
Dissolved Organic Carbon	32.4	HTA	0.50	mg/L		17-JAN-20	R4972937
Total Organic Carbon	32.9		0.50	mg/L		17-JAN-20	R4972936
Total Metals							
Aluminum (Al)-Total	0.0568		0.0050	mg/L		17-JAN-20	R4972785
Antimony (Sb)-Total	0.00004	<DL	0.00060	mg/L		17-JAN-20	R4972785
Arsenic (As)-Total	0.00055	<DL	0.0010	mg/L		17-JAN-20	R4972785
Barium (Ba)-Total	0.0108		0.010	mg/L		17-JAN-20	R4972785
Beryllium (Be)-Total	0.000009	<DL	0.0010	mg/L		17-JAN-20	R4972785
Bismuth (Bi)-Total	0.000010	<DL	0.0010	mg/L		17-JAN-20	R4972785
Boron (B)-Total	0.0035	<DL	0.050	mg/L		17-JAN-20	R4972785
Cadmium (Cd)-Total	0.000005	<DL	0.000017	mg/L		17-JAN-20	R4972785
Calcium (Ca)-Total	21.0		0.20	mg/L		17-JAN-20	R4972785
Cesium (Cs)-Total	0.0000015	<DL	0.000010	mg/L		17-JAN-20	R4972785
Chromium (Cr)-Total	0.00026	<DL	0.0010	mg/L		17-JAN-20	R4972785
Cobalt (Co)-Total	0.000496	<DL	0.00050	mg/L		17-JAN-20	R4972785
Copper (Cu)-Total	0.00020	<DL	0.0010	mg/L		17-JAN-20	R4972785
Iron (Fe)-Total	0.548		0.020	mg/L		17-JAN-20	R4972785
Lead (Pb)-Total	0.000105	<T	0.000050	mg/L		17-JAN-20	R4972785
Lithium (Li)-Total	0.0020	<DL	0.050	mg/L		17-JAN-20	R4972785
Magnesium (Mg)-Total	9.19		0.020	mg/L		17-JAN-20	R4972785
Manganese (Mn)-Total	0.231		0.0010	mg/L		17-JAN-20	R4972785
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972279
Molybdenum (Mo)-Total	0.000070	<DL	0.0010	mg/L		17-JAN-20	R4972785
Nickel (Ni)-Total	0.00058	<DL	0.0020	mg/L		17-JAN-20	R4972785
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		17-JAN-20	R4972785
Potassium (K)-Total	0.440	<DL	0.50	mg/L		17-JAN-20	R4972785
Rubidium (Rb)-Total	0.00125		0.00020	mg/L		17-JAN-20	R4972785
Selenium (Se)-Total	0.000180	<T	0.000050	mg/L		17-JAN-20	R4972785
Silicon (Si)-Total	6.97		0.10	mg/L		17-JAN-20	R4972785
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		17-JAN-20	R4972785
Sodium (Na)-Total	1.37		0.10	mg/L		17-JAN-20	R4972785
Strontium (Sr)-Total	0.0355		0.0010	mg/L		17-JAN-20	R4972785
Sulfur (S)-Total	0.3	<DL	0.50	mg/L		17-JAN-20	R4972785
Tellurium (Te)-Total	0.00001	<DL	0.0010	mg/L		17-JAN-20	R4972785
Thallium (Tl)-Total	0.0000092	<DL	0.00030	mg/L		17-JAN-20	R4972785

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-16 SW02							
Sampled By: Client on 09-JAN-20 @ 15:00							
Matrix: Water							
Total Metals							
Thorium (Th)-Total	0.000031	<DL	0.00010	mg/L		17-JAN-20	R4972785
Tin (Sn)-Total	0.00001	<DL	0.0010	mg/L		17-JAN-20	R4972785
Titanium (Ti)-Total	0.00110	<DL	0.0020	mg/L		17-JAN-20	R4972785
Tungsten (W)-Total	<0.000002	<W	0.010	mg/L		17-JAN-20	R4972785
Uranium (U)-Total	0.000040	<DL	0.0050	mg/L		17-JAN-20	R4972785
Vanadium (V)-Total	0.00020	<DL	0.0010	mg/L		17-JAN-20	R4972785
Zinc (Zn)-Total	0.0038	<T	0.0030	mg/L		17-JAN-20	R4972785
Zirconium (Zr)-Total	0.000178	<DL	0.0010	mg/L		17-JAN-20	R4972785
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					15-JAN-20	R4969510
Aluminum (Al)-Dissolved	0.0496		0.0050	mg/L		15-JAN-20	R4971346
Antimony (Sb)-Dissolved	0.000025	<DL	0.00060	mg/L		15-JAN-20	R4971346
Arsenic (As)-Dissolved	0.000550	<DL	0.0010	mg/L		15-JAN-20	R4971346
Barium (Ba)-Dissolved	0.0105		0.010	mg/L		15-JAN-20	R4971346
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Boron (B)-Dissolved	0.0040	<DL	0.050	mg/L		15-JAN-20	R4971346
Cadmium (Cd)-Dissolved	0.0000030	<DL	0.000017	mg/L		15-JAN-20	R4971346
Calcium (Ca)-Dissolved	20.4		0.20	mg/L		15-JAN-20	R4971346
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		15-JAN-20	R4971346
Chromium (Cr)-Dissolved	0.00018	<DL	0.0010	mg/L		15-JAN-20	R4971346
Cobalt (Co)-Dissolved	0.000456	<DL	0.00050	mg/L		15-JAN-20	R4971346
Copper (Cu)-Dissolved	0.00014	<DL	0.0010	mg/L		15-JAN-20	R4971346
Iron (Fe)-Dissolved	0.457		0.020	mg/L		15-JAN-20	R4971346
Lead (Pb)-Dissolved	0.000060	<T	0.000050	mg/L		15-JAN-20	R4971346
Lithium (Li)-Dissolved	0.0024	<DL	0.050	mg/L		15-JAN-20	R4971346
Magnesium (Mg)-Dissolved	9.03		0.020	mg/L		15-JAN-20	R4971346
Manganese (Mn)-Dissolved	0.214		0.0010	mg/L		15-JAN-20	R4971346
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972252
Molybdenum (Mo)-Dissolved	0.000058	<DL	0.0010	mg/L		15-JAN-20	R4971346
Nickel (Ni)-Dissolved	0.00052	<DL	0.0020	mg/L		15-JAN-20	R4971346
Phosphorus (P)-Dissolved	<0.002	<W	0.050	mg/L		15-JAN-20	R4971346
Potassium (K)-Dissolved	0.405	<DL	0.50	mg/L		15-JAN-20	R4971346
Rubidium (Rb)-Dissolved	0.00121		0.00020	mg/L		15-JAN-20	R4971346
Selenium (Se)-Dissolved	0.000125	<T	0.000050	mg/L		15-JAN-20	R4971346
Silicon (Si)-Dissolved	6.81		0.050	mg/L		15-JAN-20	R4971346
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		15-JAN-20	R4971346
Sodium (Na)-Dissolved	1.25		0.10	mg/L		15-JAN-20	R4971346
Strontium (Sr)-Dissolved	0.0341		0.0010	mg/L		15-JAN-20	R4971346
Sulfur (S)-Dissolved	<0.1	<W	0.50	mg/L		15-JAN-20	R4971346
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-16 SW02 Sampled By: Client on 09-JAN-20 @ 15:00 Matrix: Water							
Dissolved Metals							
Thallium (Tl)-Dissolved	<0.0000001	<W	0.00030	mg/L		15-JAN-20	R4971346
Thorium (Th)-Dissolved	0.000012	<DL	0.00010	mg/L		15-JAN-20	R4971346
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Titanium (Ti)-Dissolved	0.00092	<DL	0.0020	mg/L		15-JAN-20	R4971346
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		15-JAN-20	R4971346
Uranium (U)-Dissolved	0.0000364	<DL	0.0050	mg/L		15-JAN-20	R4971346
Vanadium (V)-Dissolved	0.00022	<DL	0.0010	mg/L		15-JAN-20	R4971346
Zinc (Zn)-Dissolved	0.0026	<DL	0.0030	mg/L		15-JAN-20	R4971346
Zirconium (Zr)-Dissolved	0.000170	<DL	0.0010	mg/L		15-JAN-20	R4971346
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		16-JAN-20	R4973529
Chemical Oxygen Demand	92		20	mg/L		15-JAN-20	R4970113
Oil and Grease, Total	1.8		1.0	mg/L	17-JAN-20	17-JAN-20	R4972403
L2405423-17 FIELD BLANK - SURFACE WATER Sampled By: Client on 09-JAN-20 @ 12:00 Matrix: Water							
Physical Tests							
Color, True	<2.0		2.0	CU		15-JAN-20	R4970285
Conductivity (EC)	1.0	<DL	1.0	uS/cm		17-JAN-20	R4972787
Hardness (as CaCO3)	<0.51		0.51	mg/L		21-JAN-20	
pH	5.45		0.10	pH		15-JAN-20	R4971531
Total Suspended Solids	<0.5	<W	2.0	mg/L		15-JAN-20	R4971471
Total Dissolved Solids	4	<DL	10	mg/L		15-JAN-20	R4971910
Turbidity	0.11		0.10	NTU		16-JAN-20	R4971579
Anions and Nutrients							
Acidity (as CaCO3)	1.0	<DL	2.2	mg/L		17-JAN-20	R4972787
Alkalinity, Total (as CaCO3)	0.6	<DL	2.0	mg/L		15-JAN-20	R4971531
Ammonia, Total (as N)	0.004	<DL	0.020	mg/L		15-JAN-20	R4970888
Chloride (Cl)	<0.10		0.10	mg/L		16-JAN-20	R4972142
Fluoride (F)	<0.020		0.020	mg/L		16-JAN-20	R4972142
Nitrate (as N)	<0.001	<W	0.020	mg/L		16-JAN-20	R4972142
Nitrite (as N)	<0.0005	<W	0.010	mg/L		16-JAN-20	R4972142
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		15-JAN-20	R4970052
Sulfate (SO4)	<0.02	<W	0.30	mg/L		16-JAN-20	R4972142
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Total	<0.0002	<W	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Free	0.0003	<DL	0.0020	mg/L		16-JAN-20	R4972272
Organic / Inorganic Carbon							
Dissolved Organic Carbon	0.3	<DL	0.50	mg/L		17-JAN-20	R4972937
Total Organic Carbon	<0.50		0.50	mg/L		17-JAN-20	R4972936
Total Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-17 FIELD BLANK - SURFACE WATER							
Sampled By: Client on 09-JAN-20 @ 12:00							
Matrix: Water							
Total Metals							
Aluminum (Al)-Total	0.0058	<T	0.0050	mg/L		20-JAN-20	R4973560
Antimony (Sb)-Total	<0.00002	<W	0.00060	mg/L		20-JAN-20	R4973560
Arsenic (As)-Total	<0.00001	<W	0.0010	mg/L		20-JAN-20	R4973560
Barium (Ba)-Total	0.00007	<DL	0.010	mg/L		20-JAN-20	R4973560
Beryllium (Be)-Total	<0.000001	<W	0.0010	mg/L		20-JAN-20	R4973560
Bismuth (Bi)-Total	<0.000002	<W	0.0010	mg/L		20-JAN-20	R4973560
Boron (B)-Total	<0.0005	<W	0.050	mg/L		20-JAN-20	R4973560
Cadmium (Cd)-Total	0.000001	<DL	0.000017	mg/L		20-JAN-20	R4973560
Calcium (Ca)-Total	0.112	<DL	0.20	mg/L		20-JAN-20	R4973560
Cesium (Cs)-Total	0.0000005	<DL	0.000010	mg/L		20-JAN-20	R4973560
Chromium (Cr)-Total	0.00004	<DL	0.0010	mg/L		20-JAN-20	R4973560
Cobalt (Co)-Total	<0.000001	<W	0.00050	mg/L		20-JAN-20	R4973560
Copper (Cu)-Total	0.00004	<DL	0.0010	mg/L		20-JAN-20	R4973560
Iron (Fe)-Total	0.0010	<DL	0.020	mg/L		20-JAN-20	R4973560
Lead (Pb)-Total	<0.000005	<W	0.000050	mg/L		20-JAN-20	R4973560
Lithium (Li)-Total	<0.0002	<W	0.050	mg/L		20-JAN-20	R4973560
Magnesium (Mg)-Total	0.0020	<DL	0.020	mg/L		20-JAN-20	R4973560
Manganese (Mn)-Total	<0.00002	<W	0.0010	mg/L		20-JAN-20	R4973560
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972279
Molybdenum (Mo)-Total	<0.000005	<W	0.0010	mg/L		20-JAN-20	R4973560
Nickel (Ni)-Total	<0.00002	<W	0.0020	mg/L		20-JAN-20	R4973560
Phosphorus (P)-Total	0.005	<DL	0.050	mg/L		20-JAN-20	R4973560
Potassium (K)-Total	<0.005	<W	0.50	mg/L		20-JAN-20	R4973560
Rubidium (Rb)-Total	0.000006	<DL	0.00020	mg/L		20-JAN-20	R4973560
Selenium (Se)-Total	<0.000005	<W	0.000050	mg/L		20-JAN-20	R4973560
Silicon (Si)-Total	0.506		0.10	mg/L		20-JAN-20	R4973560
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		20-JAN-20	R4973560
Sodium (Na)-Total	0.16		0.10	mg/L		20-JAN-20	R4973560
Strontium (Sr)-Total	0.00014	<DL	0.0010	mg/L		20-JAN-20	R4973560
Sulfur (S)-Total	<0.1	<W	0.50	mg/L		20-JAN-20	R4973560
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		20-JAN-20	R4973560
Thallium (Tl)-Total	<0.0000002	<W	0.00030	mg/L		20-JAN-20	R4973560
Thorium (Th)-Total	<0.000001	<W	0.00010	mg/L		20-JAN-20	R4973560
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		20-JAN-20	R4973560
Titanium (Ti)-Total	0.00002	<DL	0.0020	mg/L		20-JAN-20	R4973560
Tungsten (W)-Total	<0.000002	<W	0.010	mg/L		20-JAN-20	R4973560
Uranium (U)-Total	<0.000005	<W	0.0050	mg/L		20-JAN-20	R4973560
Vanadium (V)-Total	<0.00005	<W	0.0010	mg/L		20-JAN-20	R4973560
Zinc (Zn)-Total	0.0020	<DL	0.0030	mg/L		20-JAN-20	R4973560
Zirconium (Zr)-Total	<0.000002	<W	0.0010	mg/L		20-JAN-20	R4973560
Dissolved Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-17 FIELD BLANK - SURFACE WATER							
Sampled By: Client on 09-JAN-20 @ 12:00							
Matrix: Water							
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					15-JAN-20	R4969510
Aluminum (Al)-Dissolved	0.0050	<T	0.0050	mg/L		15-JAN-20	R4971346
Antimony (Sb)-Dissolved	0.000005	<DL	0.00060	mg/L		15-JAN-20	R4971346
Arsenic (As)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Barium (Ba)-Dissolved	0.000030	<DL	0.010	mg/L		15-JAN-20	R4971346
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Boron (B)-Dissolved	<0.0005	<W	0.050	mg/L		15-JAN-20	R4971346
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		15-JAN-20	R4971346
Calcium (Ca)-Dissolved	0.102	<DL	0.20	mg/L		15-JAN-20	R4971346
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		15-JAN-20	R4971346
Chromium (Cr)-Dissolved	<0.00002	<W	0.0010	mg/L		15-JAN-20	R4971346
Cobalt (Co)-Dissolved	<0.000001	<W	0.00050	mg/L		15-JAN-20	R4971346
Copper (Cu)-Dissolved	<0.00002	<W	0.0010	mg/L		15-JAN-20	R4971346
Iron (Fe)-Dissolved	<0.0002	<W	0.020	mg/L		15-JAN-20	R4971346
Lead (Pb)-Dissolved	<0.000005	<W	0.000050	mg/L		15-JAN-20	R4971346
Lithium (Li)-Dissolved	<0.0002	<W	0.050	mg/L		15-JAN-20	R4971346
Magnesium (Mg)-Dissolved	<0.0005	<W	0.020	mg/L		15-JAN-20	R4971346
Manganese (Mn)-Dissolved	<0.00002	<W	0.0010	mg/L		15-JAN-20	R4971346
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972252
Molybdenum (Mo)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Nickel (Ni)-Dissolved	<0.00002	<W	0.0020	mg/L		15-JAN-20	R4971346
Phosphorus (P)-Dissolved	<0.002	<W	0.050	mg/L		15-JAN-20	R4971346
Potassium (K)-Dissolved	<0.005	<W	0.50	mg/L		15-JAN-20	R4971346
Rubidium (Rb)-Dissolved	0.000006	<DL	0.00020	mg/L		15-JAN-20	R4971346
Selenium (Se)-Dissolved	<0.000005	<W	0.000050	mg/L		15-JAN-20	R4971346
Silicon (Si)-Dissolved	0.496		0.050	mg/L		15-JAN-20	R4971346
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		15-JAN-20	R4971346
Sodium (Na)-Dissolved	0.150		0.10	mg/L		15-JAN-20	R4971346
Strontium (Sr)-Dissolved	0.000110	<DL	0.0010	mg/L		15-JAN-20	R4971346
Sulfur (S)-Dissolved	<0.1	<W	0.50	mg/L		15-JAN-20	R4971346
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Thallium (Tl)-Dissolved	<0.0000001	<W	0.00030	mg/L		15-JAN-20	R4971346
Thorium (Th)-Dissolved	<0.000002	<W	0.00010	mg/L		15-JAN-20	R4971346
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Titanium (Ti)-Dissolved	<0.00002	<W	0.0020	mg/L		15-JAN-20	R4971346
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		15-JAN-20	R4971346
Uranium (U)-Dissolved	<0.0000002	<W	0.0050	mg/L		15-JAN-20	R4971346
Vanadium (V)-Dissolved	<0.00002	<W	0.0010	mg/L		15-JAN-20	R4971346
Zinc (Zn)-Dissolved	<0.0002	<W	0.0030	mg/L		15-JAN-20	R4971346
Zirconium (Zr)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-17 FIELD BLANK - SURFACE WATER Sampled By: Client on 09-JAN-20 @ 12:00 Matrix: Water							
Dissolved Metals							
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		16-JAN-20	R4973529
Chemical Oxygen Demand	<20		20	mg/L		15-JAN-20	R4970113
Oil and Grease, Total	0.8	<DL	1.0	mg/L	17-JAN-20	17-JAN-20	R4972403
Report Remarks : HTA: Analytical holding time was exceeded VG							
L2405423-18 TRAVEL BLANK - SURFACE WATER Sampled By: Client on 09-JAN-20 @ 12:00 Matrix: Water							
Physical Tests							
Color, True	<2.0		2.0	CU		15-JAN-20	R4970354
Conductivity (EC)	0.8	<DL	1.0	uS/cm		17-JAN-20	R4972787
Hardness (as CaCO3)	<0.51		0.51	mg/L		19-JAN-20	
pH	5.24		0.10	pH		15-JAN-20	R4971531
Total Suspended Solids	<0.5	<W	2.0	mg/L		15-JAN-20	R4971471
Total Dissolved Solids	<2	<W	10	mg/L		15-JAN-20	R4971910
Turbidity	<0.10		0.10	NTU		16-JAN-20	R4971579
Anions and Nutrients							
Acidity (as CaCO3)	1.0	<DL	2.2	mg/L		17-JAN-20	R4972787
Alkalinity, Total (as CaCO3)	<0.2	<W	2.0	mg/L		15-JAN-20	R4971531
Ammonia, Total (as N)	0.012	<DL	0.020	mg/L		15-JAN-20	R4970888
Chloride (Cl)	<0.10		0.10	mg/L		16-JAN-20	R4972142
Fluoride (F)	<0.020		0.020	mg/L		15-JAN-20	R4971358
Nitrate (as N)	0.003	<DL	0.020	mg/L		15-JAN-20	R4971358
Nitrite (as N)	<0.0005	<W	0.010	mg/L		15-JAN-20	R4971358
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		15-JAN-20	R4970052
Sulfate (SO4)	0.20	<DL	0.30	mg/L		15-JAN-20	R4971358
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Total	<0.0002	<W	0.0020	mg/L		16-JAN-20	R4972272
Cyanide, Free	0.0002	<DL	0.0020	mg/L		16-JAN-20	R4972272
Organic / Inorganic Carbon							
Dissolved Organic Carbon	0.2	<DL	0.50	mg/L		17-JAN-20	R4972937
Total Organic Carbon	<0.50		0.50	mg/L		17-JAN-20	R4972936
Total Metals							
Aluminum (Al)-Total	<0.0002	<W	0.0050	mg/L		17-JAN-20	R4972785
Antimony (Sb)-Total	<0.00002	<W	0.00060	mg/L		17-JAN-20	R4972785
Arsenic (As)-Total	<0.00001	<W	0.0010	mg/L		17-JAN-20	R4972785
Barium (Ba)-Total	<0.00001	<W	0.010	mg/L		17-JAN-20	R4972785
Beryllium (Be)-Total	<0.000001	<W	0.0010	mg/L		17-JAN-20	R4972785
Bismuth (Bi)-Total	<0.000002	<W	0.0010	mg/L		17-JAN-20	R4972785
Boron (B)-Total	<0.0005	<W	0.050	mg/L		17-JAN-20	R4972785
Cadmium (Cd)-Total	<0.000001	<W	0.000017	mg/L		17-JAN-20	R4972785
Calcium (Ca)-Total	0.006	<DL	0.20	mg/L		17-JAN-20	R4972785

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-18 TRAVEL BLANK - SURFACE WATER							
Sampled By: Client on 09-JAN-20 @ 12:00							
Matrix: Water							
Total Metals							
Cesium (Cs)-Total	<0.0000005	<W	0.000010	mg/L		17-JAN-20	R4972785
Chromium (Cr)-Total	<0.00002	<W	0.0010	mg/L		17-JAN-20	R4972785
Cobalt (Co)-Total	<0.000001	<W	0.00050	mg/L		17-JAN-20	R4972785
Copper (Cu)-Total	0.00004	<DL	0.0010	mg/L		17-JAN-20	R4972785
Iron (Fe)-Total	0.0020	<DL	0.020	mg/L		17-JAN-20	R4972785
Lead (Pb)-Total	<0.000005	<W	0.000050	mg/L		17-JAN-20	R4972785
Lithium (Li)-Total	<0.0002	<W	0.050	mg/L		17-JAN-20	R4972785
Magnesium (Mg)-Total	0.0005	<DL	0.020	mg/L		17-JAN-20	R4972785
Manganese (Mn)-Total	<0.00002	<W	0.0010	mg/L		17-JAN-20	R4972785
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972279
Molybdenum (Mo)-Total	<0.000005	<W	0.0010	mg/L		17-JAN-20	R4972785
Nickel (Ni)-Total	<0.00002	<W	0.0020	mg/L		17-JAN-20	R4972785
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		17-JAN-20	R4972785
Potassium (K)-Total	<0.005	<W	0.50	mg/L		17-JAN-20	R4972785
Rubidium (Rb)-Total	<0.000002	<W	0.00020	mg/L		17-JAN-20	R4972785
Selenium (Se)-Total	0.000005	<DL	0.000050	mg/L		17-JAN-20	R4972785
Silicon (Si)-Total	0.002	<DL	0.10	mg/L		17-JAN-20	R4972785
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		17-JAN-20	R4972785
Sodium (Na)-Total	<0.01	<W	0.10	mg/L		17-JAN-20	R4972785
Strontium (Sr)-Total	0.00001	<DL	0.0010	mg/L		17-JAN-20	R4972785
Sulfur (S)-Total	<0.1	<W	0.50	mg/L		17-JAN-20	R4972785
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		17-JAN-20	R4972785
Thallium (Tl)-Total	<0.0000002	<W	0.00030	mg/L		17-JAN-20	R4972785
Thorium (Th)-Total	<0.000001	<W	0.00010	mg/L		17-JAN-20	R4972785
Tin (Sn)-Total	0.00015	<DL	0.0010	mg/L		17-JAN-20	R4972785
Titanium (Ti)-Total	<0.00002	<W	0.0020	mg/L		17-JAN-20	R4972785
Tungsten (W)-Total	<0.000002	<W	0.010	mg/L		17-JAN-20	R4972785
Uranium (U)-Total	<0.000005	<W	0.0050	mg/L		17-JAN-20	R4972785
Vanadium (V)-Total	<0.00005	<W	0.0010	mg/L		17-JAN-20	R4972785
Zinc (Zn)-Total	0.0006	<DL	0.0030	mg/L		17-JAN-20	R4972785
Zirconium (Zr)-Total	<0.000002	<W	0.0010	mg/L		17-JAN-20	R4972785
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					15-JAN-20	R4969510
Aluminum (Al)-Dissolved	<0.0002	<W	0.0050	mg/L		15-JAN-20	R4971346
Antimony (Sb)-Dissolved	<0.000005	<W	0.00060	mg/L		15-JAN-20	R4971346
Arsenic (As)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Barium (Ba)-Dissolved	<0.000005	<W	0.010	mg/L		15-JAN-20	R4971346
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Boron (B)-Dissolved	<0.0005	<W	0.050	mg/L		15-JAN-20	R4971346
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		15-JAN-20	R4971346

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2405423-18 TRAVEL BLANK - SURFACE WATER Sampled By: Client on 09-JAN-20 @ 12:00 Matrix: Water							
Dissolved Metals							
Calcium (Ca)-Dissolved	<0.002	<W	0.20	mg/L		15-JAN-20	R4971346
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		15-JAN-20	R4971346
Chromium (Cr)-Dissolved	<0.00002	<W	0.0010	mg/L		15-JAN-20	R4971346
Cobalt (Co)-Dissolved	<0.000001	<W	0.00050	mg/L		15-JAN-20	R4971346
Copper (Cu)-Dissolved	<0.00002	<W	0.0010	mg/L		15-JAN-20	R4971346
Iron (Fe)-Dissolved	<0.0002	<W	0.020	mg/L		15-JAN-20	R4971346
Lead (Pb)-Dissolved	<0.000005	<W	0.000050	mg/L		15-JAN-20	R4971346
Lithium (Li)-Dissolved	<0.0002	<W	0.050	mg/L		15-JAN-20	R4971346
Magnesium (Mg)-Dissolved	<0.0005	<W	0.020	mg/L		15-JAN-20	R4971346
Manganese (Mn)-Dissolved	<0.00002	<W	0.0010	mg/L		15-JAN-20	R4971346
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		17-JAN-20	R4972252
Molybdenum (Mo)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Nickel (Ni)-Dissolved	<0.00002	<W	0.0020	mg/L		15-JAN-20	R4971346
Phosphorus (P)-Dissolved	<0.002	<W	0.050	mg/L		15-JAN-20	R4971346
Potassium (K)-Dissolved	<0.005	<W	0.50	mg/L		15-JAN-20	R4971346
Rubidium (Rb)-Dissolved	<0.000002	<W	0.00020	mg/L		15-JAN-20	R4971346
Selenium (Se)-Dissolved	<0.000005	<W	0.000050	mg/L		15-JAN-20	R4971346
Silicon (Si)-Dissolved	<0.001	<W	0.050	mg/L		15-JAN-20	R4971346
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		15-JAN-20	R4971346
Sodium (Na)-Dissolved	<0.005	<W	0.10	mg/L		15-JAN-20	R4971346
Strontium (Sr)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Sulfur (S)-Dissolved	<0.1	<W	0.50	mg/L		15-JAN-20	R4971346
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		15-JAN-20	R4971346
Thallium (Tl)-Dissolved	<0.0000001	<W	0.00030	mg/L		15-JAN-20	R4971346
Thorium (Th)-Dissolved	<0.000002	<W	0.00010	mg/L		15-JAN-20	R4971346
Tin (Sn)-Dissolved	0.000055	<DL	0.0010	mg/L		15-JAN-20	R4971346
Titanium (Ti)-Dissolved	<0.00002	<W	0.0020	mg/L		15-JAN-20	R4971346
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		15-JAN-20	R4971346
Uranium (U)-Dissolved	<0.0000002	<W	0.0050	mg/L		15-JAN-20	R4971346
Vanadium (V)-Dissolved	<0.00002	<W	0.0010	mg/L		15-JAN-20	R4971346
Zinc (Zn)-Dissolved	<0.0002	<W	0.0030	mg/L		15-JAN-20	R4971346
Zirconium (Zr)-Dissolved	<0.000002	<W	0.0010	mg/L		15-JAN-20	R4971346
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		16-JAN-20	R4973529
Chemical Oxygen Demand	<20		20	mg/L		15-JAN-20	R4970113
Oil and Grease, Total	1.0		1.0	mg/L	17-JAN-20	17-JAN-20	R4972403
Report Remarks : HTA: Analytical holding time was exceeded VG							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Method Blank	Acidity (as CaCO ₃)	MB-LOR	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Dissolved Organic Carbon	MS-B	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Aluminum (Al)-Total	MS-B	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Antimony (Sb)-Total	MS-B	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Arsenic (As)-Total	MS-B	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Total	MS-B	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Total	MS-B	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Total	MS-B	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Total	MS-B	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Total	MS-B	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Molybdenum (Mo)-Total	MS-B	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Potassium (K)-Total	MS-B	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Total	MS-B	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Total	MS-B	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Total	MS-B	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Total	MS-B	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfur (S)-Total	MS-B	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Total Organic Carbon	MS-B	L2405423-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9

Sample Parameter Qualifier key listed:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
HTA	Analytical holding time was exceeded.
MB-LOR	Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-MISA-TB	Effluent	Acidity (as CaCO ₃)	APHA 2310 B-POTENTIOMETRIC TITRATION
Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample.			
ALK-MISA-TB	Effluent	Alkalinity, Total (as CaCO ₃)	APHA 2320 B-Auto-Pot. Titration

Reference Information

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BOD-TB	Water	Biochemical Oxygen Demand (BOD)	APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND
--------	-------	---------------------------------	--

All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation.

CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)
--------------	-------	-------------------------------------	-----------------

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CN-FREE-MISA-CFA-WT	Effluent	Free Cyanide by Continuous Flow Analyzer	ASTM D7237-10 (modified)
---------------------	----------	--	--------------------------

This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis.

CN-T-MISA-CFA-WT	Effluent	Total Cyanide by CFA	ISO 14403-2:2012 (modified)
------------------	----------	----------------------	-----------------------------

This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis.

Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.

CN-WAD-MISA-CFA-WT	Effluent	Weak Acid Dissociable Cyanide by CFA	APHA 4500-CN CYANIDE (modified)
--------------------	----------	--------------------------------------	---------------------------------

This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.

COD-TB	Water	Chemical Oxygen Demand	APHA 5220D
--------	-------	------------------------	------------

This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.

COLOUR-TB	Water	Colour, True	APHA 2120 C
-----------	-------	--------------	-------------

True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard.

DO-CLIENT-TB	Water	Dissolved Oxygen, Client Supplied	Result supplied by Client
--------------	-------	-----------------------------------	---------------------------

DOC-MISA-TB	Effluent	Dissolved Organic Carbon (DOC)	APHA 5310 B modified
-------------	----------	--------------------------------	----------------------

Water samples are determined by filtering the sample through a 0.45 micron membrane filter prior to analysis. Analyzed by converting all carbonaceous material to carbon dioxide (CO₂) by catalytic combustion at 850°C. The CO₂ generated is measured by an infrared detector and is directly proportional to concentration of carbonaceous material in the sample

EC-MISA-TB	Effluent	Conductivity (EC)	APHA 2510 B-ELECTRODE
------------	----------	-------------------	-----------------------

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)
-----------	-------	-------------------------	-----------------

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Effluent	Hardness (as CaCO ₃)	CALCULATION
------------------	----------	----------------------------------	-------------

HG-DIS-WT	Effluent	Mercury (Hg)-Dissolved for MISA	SW846 7470A
-----------	----------	---------------------------------	-------------

HG-TOT-WT	Effluent	Mercury (Hg)-Total for MISA	SW846 7470A
-----------	----------	-----------------------------	-------------

MET-D-MISA-TB	Effluent	Dissolved Metals in Water (MISA)	APHA 3030B/6020B (mod)
---------------	----------	----------------------------------	------------------------

Water samples are filtered (0.45 µm), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-MISA-TB	Effluent	Total Metals in Water (MISA)	EPA 200.2/6020B (mod)
---------------	----------	------------------------------	-----------------------

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

Ammonia by Discrete Analyzer	APHA 4500-NH ₃ G. (modified)
------------------------------	---

Reference Information

NH3-MISA-COL-TB Effluent

Ammonia in aqueous matrices is analyzed using discrete analyzer with colourimetric detection.

NH3-UNION-CALC-TB Effluent Un-ionized ammonia Calculation

NO2-MISA-IC-TB Effluent Nitrite in Water by IC EPA 300.1 (mod)

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

NO3-MISA-IC-TB Effluent Nitrate in Water by IC EPA 300.1 (mod)

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

OGG-TOT-WT Effluent Oil and Grease, Total for MISA APHA 5520 B-Hexane Gravimetric

PH-CLIENT-TB Water pH Result supplied by Client

PH-MISA-TB Effluent pH APHA 4500-H-ELECTRODE

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

PO4-DO-COL-TB Water Dissolved Orthophosphate APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

SO4-MISA-IC-TB Effluent Sulfate in Water by IC EPA 300.1 (mod)

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

TDS-MISA-TB Effluent Total Dissolved Solids APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TEMP-CLIENT-TB Water Temperature Result supplied by Client

TOC-TB Water Total Organic Carbon (TOC) APHA 5310 B modified

Water samples are analyzed by converting all carbonaceous material to carbon dioxide (CO₂) by catalytic combustion at 850°C. The CO₂ generated is measured by an infrared detector and is directly proportional to concentration of carbonaceous material in the sample

TSS-MISA-TB Effluent Total Suspended Solids APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

TURBIDITY-TB Water Turbidity APHA 2130 B-Nephelometer

Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 1 of 35

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BOD-TB								
	Water							
Batch	R4973221							
WG3257919-8	DUP	L2405769-1						
Biochemical Oxygen Demand		138	137		mg/L	0.6	20	15-JAN-20
WG3257919-6	LCS							
Biochemical Oxygen Demand			101.6		%		85-115	15-JAN-20
WG3257919-5	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	15-JAN-20
Batch	R4973529							
WG3258624-2	LCS							
Biochemical Oxygen Demand			101.6		%		85-115	16-JAN-20
WG3258624-1	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	16-JAN-20
CL-L-IC-N-TB								
	Water							
Batch	R4971358							
WG3257915-7	DUP	L2405423-11						
Chloride (Cl)		9.08	9.15		mg/L	0.7	20	15-JAN-20
WG3257915-2	LCS							
Chloride (Cl)			99.9		%		90-110	15-JAN-20
WG3257915-6	LCS							
Chloride (Cl)			91.3		%		90-110	15-JAN-20
WG3257915-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	15-JAN-20
WG3257915-5	MB							
Chloride (Cl)			<0.10		mg/L		0.1	15-JAN-20
Batch	R4972142							
WG3257915-3	DUP	L2405010-1						
Chloride (Cl)		4.59	4.64		mg/L	1.0	20	16-JAN-20
WG3258773-11	DUP	L2406165-1						
Chloride (Cl)		33.5	31.2		mg/L	7.4	20	16-JAN-20
WG3258773-3	DUP	L2406022-1						
Chloride (Cl)		2.17	1.83		mg/L	17	20	16-JAN-20
WG3258773-10	LCS							
Chloride (Cl)			96.2		%		90-110	16-JAN-20
WG3258773-2	LCS							
Chloride (Cl)			92.6		%		90-110	16-JAN-20
WG3258773-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	16-JAN-20
WG3258773-9	MB							
Chloride (Cl)			<0.10		mg/L		0.1	16-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 2 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-L-IC-N-TB								
	Water							
Batch	R4972142							
WG3257915-8	MS	L2405423-17						
Chloride (Cl)			97.5		%		75-125	16-JAN-20
WG3258773-12	MS	L2406295-1						
Chloride (Cl)			89.0		%		75-125	16-JAN-20
WG3258773-4	MS	L2405806-4						
Chloride (Cl)			99.1		%		75-125	16-JAN-20
COD-TB								
	Water							
Batch	R4970113							
WG3257938-3	DUP	L2405423-8						
Chemical Oxygen Demand		108	109		mg/L	0.9	20	15-JAN-20
WG3257938-2	LCS							
Chemical Oxygen Demand			107.5		%		85-115	15-JAN-20
WG3257938-1	MB							
Chemical Oxygen Demand			<20		mg/L		20	15-JAN-20
WG3257938-4	MS	L2405423-6						
Chemical Oxygen Demand			105.1		%		75-125	15-JAN-20
COLOUR-TB								
	Water							
Batch	R4970285							
WG3258306-3	DUP	L2405423-2						
Color, True		163	159		CU	2.1	20	15-JAN-20
WG3258306-2	LCS							
Color, True			100.0		%		85-115	15-JAN-20
WG3258306-1	MB							
Color, True			<2.0		CU		2	15-JAN-20
Batch	R4970354							
WG3258340-2	LCS							
Color, True			99.9		%		85-115	15-JAN-20
WG3258340-1	MB							
Color, True			<2.0		CU		2	15-JAN-20
F-IC-N-TB								
	Water							
Batch	R4971358							
WG3257915-7	DUP	L2405423-11						
Fluoride (F)		0.032	0.033		mg/L	3.2	20	15-JAN-20
WG3257915-2	LCS							
Fluoride (F)			97.8		%		90-110	15-JAN-20
WG3257915-6	LCS							
Fluoride (F)			90.5		%		90-110	15-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 3 of 35

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F-IC-N-TB								
	Water							
Batch	R4971358							
WG3257915-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	15-JAN-20
WG3257915-5	MB							
Fluoride (F)			<0.020		mg/L		0.02	15-JAN-20
Batch	R4972142							
WG3257915-3	DUP	L2405010-1						
Fluoride (F)		0.030	0.030		mg/L	0.4	20	16-JAN-20
WG3258773-11	DUP	L2406165-1						
Fluoride (F)		<0.10	<0.10	RPD-NA	mg/L	N/A	20	16-JAN-20
WG3258773-10	LCS							
Fluoride (F)			98.7		%		90-110	16-JAN-20
WG3258773-2	LCS							
Fluoride (F)			91.4		%		90-110	16-JAN-20
WG3258773-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	16-JAN-20
WG3258773-9	MB							
Fluoride (F)			<0.020		mg/L		0.02	16-JAN-20
WG3257915-8	MS	L2405423-17						
Fluoride (F)			102.9		%		75-125	16-JAN-20
WG3258773-12	MS	L2406295-1						
Fluoride (F)			95.5		%		75-125	16-JAN-20
PO4-DO-COL-TB								
	Water							
Batch	R4970052							
WG3257937-3	DUP	L2405423-7						
Orthophosphate-Dissolved (as P)		0.0588	0.0595		mg/L	1.2	20	15-JAN-20
WG3257937-2	LCS							
Orthophosphate-Dissolved (as P)			97.8		%		80-120	15-JAN-20
WG3257937-1	MB							
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	15-JAN-20
WG3257937-4	MS	L2405423-8						
Orthophosphate-Dissolved (as P)			90.3		%		70-130	15-JAN-20
TOC-TB								
	Water							
Batch	R4972936							
WG3259277-3	DUP	L2405423-13						
Total Organic Carbon		32.6	32.7		mg/L	0.0	20	17-JAN-20
WG3259277-2	LCS							
Total Organic Carbon			100.7		%		80-120	17-JAN-20
WG3259277-1	MB							

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 4 of 35

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TOC-TB								
	Water							
Batch	R4972936							
WG3259277-1	MB							
Total Organic Carbon			<0.50		mg/L		0.5	17-JAN-20
WG3259277-4	MS	L2405423-14						
Total Organic Carbon			N/A	MS-B	%		-	17-JAN-20
TURBIDITY-TB								
	Water							
Batch	R4970053							
WG3258224-3	DUP	L2405423-3						
Turbidity		14.9	14.8		NTU	0.7	15	15-JAN-20
WG3258224-2	LCS							
Turbidity			106.0		%		85-115	15-JAN-20
WG3258224-1	MB							
Turbidity			<0.10		NTU		0.1	15-JAN-20
Batch	R4971579							
WG3258734-3	DUP	L2405423-11						
Turbidity		6.24	6.35		NTU	1.7	15	16-JAN-20
WG3258734-2	LCS							
Turbidity			102.0		%		85-115	16-JAN-20
WG3258734-1	MB							
Turbidity			<0.10		NTU		0.1	16-JAN-20
ACY-MISA-TB								
	Effluent							
Batch	R4972787							
WG3258889-6	DUP	L2405423-13						
Acidity (as CaCO3)		5.0	4.2		mg/L	20	20	17-JAN-20
WG3258889-2	LCS							
Acidity (as CaCO3)			93.6		%		85-115	17-JAN-20
WG3258889-5	LCS							
Acidity (as CaCO3)			89.2		%		85-115	17-JAN-20
WG3258889-1	MB							
Acidity (as CaCO3)			1.8		mg/L		2	17-JAN-20
WG3258889-4	MB							
Acidity (as CaCO3)			2.2	MB-LOR	mg/L		2.2	17-JAN-20
ALK-MISA-TB								
	Effluent							
Batch	R4971531							
WG3257985-6	DUP	L2405423-11						
Alkalinity, Total (as CaCO3)		158	159		mg/L	0.2	20	15-JAN-20
Alkalinity, Phenolphthalein		<0.2	<0.2	RPD-NA	mg/L	N/A	25	15-JAN-20
WG3257985-2	LCS							

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 5 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ALK-MISA-TB Effluent								
Batch R4971531								
WG3257985-2	LCS							
Alkalinity, Total (as CaCO3)			109.4		%		85-115	15-JAN-20
WG3257985-5	LCS							
Alkalinity, Total (as CaCO3)			111.6		%		85-115	15-JAN-20
WG3257985-1	MB							
Alkalinity, Total (as CaCO3)			1.0		mg/L		2	15-JAN-20
Alkalinity, Phenolphthalein			<0.2		mg/L		2	15-JAN-20
WG3257985-4	MB							
Alkalinity, Total (as CaCO3)			0.4		mg/L		2	15-JAN-20
Alkalinity, Phenolphthalein			<0.2		mg/L		2	15-JAN-20
CN-FREE-MISA-CFA-WT Effluent								
Batch R4972272								
WG3258879-3	DUP	L2405423-13						
Cyanide, Free		0.0007	0.0005	RPD-NA	mg/L	N/A	20	16-JAN-20
WG3258879-2	LCS							
Cyanide, Free			96.4		%		80-120	16-JAN-20
WG3258879-1	MB							
Cyanide, Free			0.0001		mg/L		0.002	16-JAN-20
WG3258879-4	MS	L2405423-13						
Cyanide, Free			93.8		%		75-125	16-JAN-20
CN-T-MISA-CFA-WT Effluent								
Batch R4972272								
WG3258879-3	DUP	L2405423-13						
Cyanide, Total		0.0008	0.0006	RPD-NA	mg/L	N/A	20	16-JAN-20
WG3258879-2	LCS							
Cyanide, Total			89.1		%		80-120	16-JAN-20
WG3258879-1	MB							
Cyanide, Total			<0.0002		mg/L		0.002	16-JAN-20
WG3258879-4	MS	L2405423-13						
Cyanide, Total			83.9		%		75-125	16-JAN-20
CN-WAD-MISA-CFA-WT Effluent								
Batch R4972272								
WG3258879-3	DUP	L2405423-13						
Cyanide, Weak Acid Diss		0.0007	0.0006	RPD-NA	mg/L	N/A	20	16-JAN-20
WG3258879-2	LCS							
Cyanide, Weak Acid Diss			103.5		%		80-120	16-JAN-20
WG3258879-1	MB							

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 6 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CN-WAD-MISA-CFA-WT								
	Effluent							
Batch	R4972272							
WG3258879-1	MB							
	Cyanide, Weak Acid Diss		<0.0001		mg/L		0.002	16-JAN-20
WG3258879-4	MS	L2405423-13						
	Cyanide, Weak Acid Diss		99.2		%		75-125	16-JAN-20
DOC-MISA-TB								
	Effluent							
Batch	R4972937							
WG3257897-3	DUP	L2405423-14						
	Dissolved Organic Carbon	28.9	28.7		mg/L	0.7	20	17-JAN-20
WG3257897-2	LCS							
	Dissolved Organic Carbon		100.7		%		80-120	17-JAN-20
WG3257897-1	MB							
	Dissolved Organic Carbon		<0.1		mg/L		0.5	17-JAN-20
WG3257897-4	MS	L2405423-15						
	Dissolved Organic Carbon		N/A	MS-B	%		-	17-JAN-20
EC-MISA-TB								
	Effluent							
Batch	R4971531							
WG3257985-6	DUP	L2405423-11						
	Conductivity (EC)	312	314		uS/cm	0.6	10	15-JAN-20
WG3257985-2	LCS							
	Conductivity (EC)		96.9		%		90-110	15-JAN-20
WG3257985-5	LCS							
	Conductivity (EC)		97.5		%		90-110	15-JAN-20
WG3257985-1	MB							
	Conductivity (EC)		0.6		uS/cm		1	15-JAN-20
WG3257985-4	MB							
	Conductivity (EC)		1.0		uS/cm		1	15-JAN-20
Batch	R4972787							
WG3258889-5	LCS							
	Conductivity (EC)		93.3		%		90-110	17-JAN-20
WG3258889-4	MB							
	Conductivity (EC)		0.8		uS/cm		1	17-JAN-20
HG-DIS-WT								
	Effluent							
Batch	R4972252							
WG3259253-3	DUP	L2405423-1						
	Mercury (Hg)-Dissolved	<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	17-JAN-20
WG3259253-2	LCS							
	Mercury (Hg)-Dissolved		103.0		%		80-120	17-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 7 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-DIS-WT		Effluent						
Batch	R4972252							
WG3259253-1 MB								
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.00003	17-JAN-20
WG3259253-4 MS		L2405423-2						
Mercury (Hg)-Dissolved			98.4		%		70-130	17-JAN-20
HG-TOT-WT		Effluent						
Batch	R4972279							
WG3259255-3 DUP		L2405423-1						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	17-JAN-20
WG3259255-2 LCS								
Mercury (Hg)-Total			105.0		%		80-120	17-JAN-20
WG3259255-1 MB								
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	17-JAN-20
WG3259255-4 MS		L2405423-2						
Mercury (Hg)-Total			100.9		%		70-130	17-JAN-20
MET-D-MISA-TB		Effluent						
Batch	R4971346							
WG3258052-7 DUP		L2405423-15						
Aluminum (Al)-Dissolved		0.0244	0.0240		mg/L	2.1	20	15-JAN-20
Antimony (Sb)-Dissolved		0.000075	0.000060	RPD-NA	mg/L	N/A	20	15-JAN-20
Arsenic (As)-Dissolved		0.000830	0.000845	RPD-NA	mg/L	N/A	20	15-JAN-20
Barium (Ba)-Dissolved		0.0148	0.0149		mg/L	0.9	20	15-JAN-20
Beryllium (Be)-Dissolved		0.000006	0.000006	RPD-NA	mg/L	N/A	20	15-JAN-20
Bismuth (Bi)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	15-JAN-20
Boron (B)-Dissolved		0.0090	0.0090	RPD-NA	mg/L	N/A	20	15-JAN-20
Cadmium (Cd)-Dissolved		0.0000035	0.0000065	RPD-NA	mg/L	N/A	20	15-JAN-20
Calcium (Ca)-Dissolved		36.8	37.5		mg/L	1.7	20	15-JAN-20
Cesium (Cs)-Dissolved		<0.0000005	<0.0000005	RPD-NA	mg/L	N/A	20	15-JAN-20
Chromium (Cr)-Dissolved		0.00018	0.00018	RPD-NA	mg/L	N/A	20	15-JAN-20
Cobalt (Co)-Dissolved		0.000230	0.000238	RPD-NA	mg/L	N/A	20	15-JAN-20
Copper (Cu)-Dissolved		0.00142	0.00138		mg/L	2.5	20	15-JAN-20
Iron (Fe)-Dissolved		0.411	0.408		mg/L	0.9	20	15-JAN-20
Lead (Pb)-Dissolved		0.000035	0.000035	RPD-NA	mg/L	N/A	20	15-JAN-20
Lithium (Li)-Dissolved		0.0038	0.0040	RPD-NA	mg/L	N/A	20	15-JAN-20
Magnesium (Mg)-Dissolved		15.2	14.8		mg/L	2.6	20	15-JAN-20
Manganese (Mn)-Dissolved		0.109	0.109		mg/L	0.2	20	15-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 8 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R4971346							
WG3258052-7	DUP	L2405423-15						
Molybdenum (Mo)-Dissolved		0.00106	0.00112		mg/L	4.9	20	15-JAN-20
Nickel (Ni)-Dissolved		0.00126	0.00124	RPD-NA	mg/L	N/A	20	15-JAN-20
Phosphorus (P)-Dissolved		0.002	<0.002	RPD-NA	mg/L	N/A	20	15-JAN-20
Potassium (K)-Dissolved		1.28	1.28		mg/L	0.1	20	15-JAN-20
Rubidium (Rb)-Dissolved		0.00123	0.00125		mg/L	1.2	20	15-JAN-20
Selenium (Se)-Dissolved		0.000190	0.000145	J	mg/L	0.000045	0.0001	15-JAN-20
Silicon (Si)-Dissolved		5.36	5.39		mg/L	0.6	20	15-JAN-20
Silver (Ag)-Dissolved		0.0000010	0.0000010	RPD-NA	mg/L	N/A	20	15-JAN-20
Sodium (Na)-Dissolved		2.95	2.96		mg/L	0.2	20	15-JAN-20
Strontium (Sr)-Dissolved		0.0712	0.0730		mg/L	2.5	20	15-JAN-20
Sulfur (S)-Dissolved		1.8	1.7		mg/L	4.9	20	15-JAN-20
Tellurium (Te)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	15-JAN-20
Thallium (Tl)-Dissolved		0.0000006	<0.0000001	RPD-NA	mg/L	N/A	20	15-JAN-20
Thorium (Th)-Dissolved		0.000038	0.000044	RPD-NA	mg/L	N/A	20	15-JAN-20
Tin (Sn)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	15-JAN-20
Titanium (Ti)-Dissolved		0.00202	0.00194	RPD-NA	mg/L	N/A	20	15-JAN-20
Tungsten (W)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	15-JAN-20
Uranium (U)-Dissolved		0.00100	0.00101	RPD-NA	mg/L	N/A	20	15-JAN-20
Vanadium (V)-Dissolved		0.00050	0.00050	RPD-NA	mg/L	N/A	20	15-JAN-20
Zinc (Zn)-Dissolved		0.0172	0.0172		mg/L	0.7	20	15-JAN-20
Zirconium (Zr)-Dissolved		0.000316	0.000326	RPD-NA	mg/L	N/A	20	15-JAN-20
WG3258052-2	LCS							
Aluminum (Al)-Dissolved			98.4		%		80-120	15-JAN-20
Antimony (Sb)-Dissolved			97.7		%		80-120	15-JAN-20
Arsenic (As)-Dissolved			95.6		%		80-120	15-JAN-20
Barium (Ba)-Dissolved			102.1		%		80-120	15-JAN-20
Beryllium (Be)-Dissolved			96.1		%		80-120	15-JAN-20
Bismuth (Bi)-Dissolved			100.6		%		80-120	15-JAN-20
Boron (B)-Dissolved			95.6		%		80-120	15-JAN-20
Cadmium (Cd)-Dissolved			99.4		%		80-120	15-JAN-20
Calcium (Ca)-Dissolved			102.6		%		80-120	15-JAN-20
Cesium (Cs)-Dissolved			100.2		%		80-120	15-JAN-20
Chromium (Cr)-Dissolved			99.1		%		80-120	15-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 9 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R4971346							
WG3258052-2 LCS								
Cobalt (Co)-Dissolved			98.4		%		80-120	15-JAN-20
Copper (Cu)-Dissolved			95.4		%		80-120	15-JAN-20
Iron (Fe)-Dissolved			97.6		%		80-120	15-JAN-20
Lead (Pb)-Dissolved			98.3		%		80-120	15-JAN-20
Lithium (Li)-Dissolved			91.4		%		80-120	15-JAN-20
Magnesium (Mg)-Dissolved			103.4		%		80-120	15-JAN-20
Manganese (Mn)-Dissolved			98.6		%		80-120	15-JAN-20
Molybdenum (Mo)-Dissolved			98.9		%		80-120	15-JAN-20
Nickel (Ni)-Dissolved			97.6		%		80-120	15-JAN-20
Phosphorus (P)-Dissolved			97.4		%		70-130	15-JAN-20
Potassium (K)-Dissolved			101.6		%		80-120	15-JAN-20
Rubidium (Rb)-Dissolved			102.1		%		80-120	15-JAN-20
Selenium (Se)-Dissolved			98.7		%		80-120	15-JAN-20
Silicon (Si)-Dissolved			101.8		%		60-140	15-JAN-20
Silver (Ag)-Dissolved			102.7		%		80-120	15-JAN-20
Sodium (Na)-Dissolved			98.2		%		80-120	15-JAN-20
Strontium (Sr)-Dissolved			99.3		%		80-120	15-JAN-20
Sulfur (S)-Dissolved			99.9		%		80-120	15-JAN-20
Tellurium (Te)-Dissolved			98.0		%		80-120	15-JAN-20
Thallium (Tl)-Dissolved			99.9		%		80-120	15-JAN-20
Thorium (Th)-Dissolved			98.7		%		80-120	15-JAN-20
Tin (Sn)-Dissolved			98.6		%		80-120	15-JAN-20
Titanium (Ti)-Dissolved			98.2		%		80-120	15-JAN-20
Tungsten (W)-Dissolved			99.1		%		80-120	15-JAN-20
Uranium (U)-Dissolved			96.4		%		80-120	15-JAN-20
Vanadium (V)-Dissolved			100.2		%		80-120	15-JAN-20
Zinc (Zn)-Dissolved			98.4		%		80-120	15-JAN-20
Zirconium (Zr)-Dissolved			96.1		%		80-120	15-JAN-20
WG3258052-6 LCS								
Aluminum (Al)-Dissolved			98.2		%		80-120	15-JAN-20
Antimony (Sb)-Dissolved			97.0		%		80-120	15-JAN-20
Arsenic (As)-Dissolved			93.7		%		80-120	15-JAN-20
Barium (Ba)-Dissolved			99.3		%		80-120	15-JAN-20
Beryllium (Be)-Dissolved			99.1		%		80-120	15-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 10 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R4971346							
WG3258052-6	LCS							
Bismuth (Bi)-Dissolved			99.98		%		80-120	15-JAN-20
Boron (B)-Dissolved			98.2		%		80-120	15-JAN-20
Cadmium (Cd)-Dissolved			97.8		%		80-120	15-JAN-20
Calcium (Ca)-Dissolved			97.3		%		80-120	15-JAN-20
Cesium (Cs)-Dissolved			98.2		%		80-120	15-JAN-20
Chromium (Cr)-Dissolved			96.2		%		80-120	15-JAN-20
Cobalt (Co)-Dissolved			97.3		%		80-120	15-JAN-20
Copper (Cu)-Dissolved			94.6		%		80-120	15-JAN-20
Iron (Fe)-Dissolved			96.2		%		80-120	15-JAN-20
Lead (Pb)-Dissolved			97.2		%		80-120	15-JAN-20
Lithium (Li)-Dissolved			101.4		%		80-120	15-JAN-20
Magnesium (Mg)-Dissolved			103.3		%		80-120	15-JAN-20
Manganese (Mn)-Dissolved			96.8		%		80-120	15-JAN-20
Molybdenum (Mo)-Dissolved			97.0		%		80-120	15-JAN-20
Nickel (Ni)-Dissolved			96.1		%		80-120	15-JAN-20
Phosphorus (P)-Dissolved			105.1		%		70-130	15-JAN-20
Potassium (K)-Dissolved			100.6		%		80-120	15-JAN-20
Rubidium (Rb)-Dissolved			99.9		%		80-120	15-JAN-20
Selenium (Se)-Dissolved			99.2		%		80-120	15-JAN-20
Silicon (Si)-Dissolved			103.3		%		60-140	15-JAN-20
Silver (Ag)-Dissolved			100.8		%		80-120	15-JAN-20
Sodium (Na)-Dissolved			99.5		%		80-120	15-JAN-20
Strontium (Sr)-Dissolved			96.7		%		80-120	15-JAN-20
Sulfur (S)-Dissolved			106.1		%		80-120	15-JAN-20
Tellurium (Te)-Dissolved			97.1		%		80-120	15-JAN-20
Thallium (Tl)-Dissolved			99.4		%		80-120	15-JAN-20
Thorium (Th)-Dissolved			98.4		%		80-120	15-JAN-20
Tin (Sn)-Dissolved			95.8		%		80-120	15-JAN-20
Titanium (Ti)-Dissolved			94.7		%		80-120	15-JAN-20
Tungsten (W)-Dissolved			96.0		%		80-120	15-JAN-20
Uranium (U)-Dissolved			98.0		%		80-120	15-JAN-20
Vanadium (V)-Dissolved			98.3		%		80-120	15-JAN-20
Zinc (Zn)-Dissolved			96.0		%		80-120	15-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 11 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R4971346							
WG3258052-6	LCS							
Zirconium (Zr)-Dissolved			93.9		%		80-120	15-JAN-20
WG3258052-1	MB							
Aluminum (Al)-Dissolved			<0.0002		mg/L		0.005	15-JAN-20
Antimony (Sb)-Dissolved			<0.000005		mg/L		0.0006	15-JAN-20
Arsenic (As)-Dissolved			<0.000005		mg/L		0.001	15-JAN-20
Barium (Ba)-Dissolved			<0.000005		mg/L		0.01	15-JAN-20
Beryllium (Be)-Dissolved			<0.000002		mg/L		0.001	15-JAN-20
Bismuth (Bi)-Dissolved			<0.000002		mg/L		0.001	15-JAN-20
Boron (B)-Dissolved			0.0010		mg/L		0.05	15-JAN-20
Cadmium (Cd)-Dissolved			<0.0000005		mg/L		0.000017	15-JAN-20
Calcium (Ca)-Dissolved			<0.002		mg/L		0.2	15-JAN-20
Cesium (Cs)-Dissolved			<0.0000005		mg/L		0.00001	15-JAN-20
Chromium (Cr)-Dissolved			<0.00002		mg/L		0.001	15-JAN-20
Cobalt (Co)-Dissolved			<0.000001		mg/L		0.0005	15-JAN-20
Copper (Cu)-Dissolved			<0.00002		mg/L		0.001	15-JAN-20
Iron (Fe)-Dissolved			<0.0002		mg/L		0.02	15-JAN-20
Lead (Pb)-Dissolved			<0.000005		mg/L		0.00005	15-JAN-20
Lithium (Li)-Dissolved			<0.0002		mg/L		0.05	15-JAN-20
Magnesium (Mg)-Dissolved			<0.0005		mg/L		0.02	15-JAN-20
Manganese (Mn)-Dissolved			<0.00002		mg/L		0.001	15-JAN-20
Molybdenum (Mo)-Dissolved			<0.000002		mg/L		0.001	15-JAN-20
Nickel (Ni)-Dissolved			<0.00002		mg/L		0.002	15-JAN-20
Phosphorus (P)-Dissolved			<0.002		mg/L		0.05	15-JAN-20
Potassium (K)-Dissolved			<0.005		mg/L		0.5	15-JAN-20
Rubidium (Rb)-Dissolved			<0.000002		mg/L		0.0002	15-JAN-20
Selenium (Se)-Dissolved			<0.000005		mg/L		0.00005	15-JAN-20
Silicon (Si)-Dissolved			0.006		mg/L		0.05	15-JAN-20
Silver (Ag)-Dissolved			<0.0000005		mg/L		0.0001	15-JAN-20
Sodium (Na)-Dissolved			0.005		mg/L		0.1	15-JAN-20
Strontium (Sr)-Dissolved			<0.000005		mg/L		0.001	15-JAN-20
Sulfur (S)-Dissolved			<0.1		mg/L		0.5	15-JAN-20
Tellurium (Te)-Dissolved			<0.000005		mg/L		0.001	15-JAN-20
Thallium (Tl)-Dissolved			<0.0000001		mg/L		0.0003	15-JAN-20
Thorium (Th)-Dissolved			<0.000002		mg/L		0.0001	15-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 12 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R4971346							
WG3258052-1 MB								
Tin (Sn)-Dissolved			<0.000005		mg/L		0.001	15-JAN-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.002	15-JAN-20
Tungsten (W)-Dissolved			<0.000002		mg/L		0.01	15-JAN-20
Uranium (U)-Dissolved			<0.0000002		mg/L		0.005	15-JAN-20
Vanadium (V)-Dissolved			0.00008		mg/L		0.001	15-JAN-20
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.003	15-JAN-20
Zirconium (Zr)-Dissolved			<0.000002		mg/L		0.001	15-JAN-20
WG3258052-5 MB								
Aluminum (Al)-Dissolved			<0.0002		mg/L		0.005	15-JAN-20
Antimony (Sb)-Dissolved			<0.000005		mg/L		0.0006	15-JAN-20
Arsenic (As)-Dissolved			0.000005		mg/L		0.001	15-JAN-20
Barium (Ba)-Dissolved			<0.000005		mg/L		0.01	15-JAN-20
Beryllium (Be)-Dissolved			<0.000002		mg/L		0.001	15-JAN-20
Bismuth (Bi)-Dissolved			<0.000002		mg/L		0.001	15-JAN-20
Boron (B)-Dissolved			<0.0005		mg/L		0.05	15-JAN-20
Cadmium (Cd)-Dissolved			<0.0000005		mg/L		0.000017	15-JAN-20
Calcium (Ca)-Dissolved			<0.002		mg/L		0.2	15-JAN-20
Cesium (Cs)-Dissolved			<0.0000005		mg/L		0.00001	15-JAN-20
Chromium (Cr)-Dissolved			<0.00002		mg/L		0.001	15-JAN-20
Cobalt (Co)-Dissolved			<0.000001		mg/L		0.0005	15-JAN-20
Copper (Cu)-Dissolved			<0.00002		mg/L		0.001	15-JAN-20
Iron (Fe)-Dissolved			<0.0002		mg/L		0.02	15-JAN-20
Lead (Pb)-Dissolved			<0.000005		mg/L		0.00005	15-JAN-20
Lithium (Li)-Dissolved			<0.0002		mg/L		0.05	15-JAN-20
Magnesium (Mg)-Dissolved			<0.0005		mg/L		0.02	15-JAN-20
Manganese (Mn)-Dissolved			<0.00002		mg/L		0.001	15-JAN-20
Molybdenum (Mo)-Dissolved			<0.000002		mg/L		0.001	15-JAN-20
Nickel (Ni)-Dissolved			<0.00002		mg/L		0.002	15-JAN-20
Phosphorus (P)-Dissolved			<0.002		mg/L		0.05	15-JAN-20
Potassium (K)-Dissolved			<0.005		mg/L		0.5	15-JAN-20
Rubidium (Rb)-Dissolved			<0.000002		mg/L		0.0002	15-JAN-20
Selenium (Se)-Dissolved			<0.000005		mg/L		0.00005	15-JAN-20
Silicon (Si)-Dissolved			<0.001		mg/L		0.05	15-JAN-20
Silver (Ag)-Dissolved			<0.0000005		mg/L		0.0001	15-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 13 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB								
	Effluent							
Batch	R4971346							
WG3258052-5	MB							
Sodium (Na)-Dissolved			<0.005		mg/L		0.1	15-JAN-20
Strontium (Sr)-Dissolved			<0.000005		mg/L		0.001	15-JAN-20
Sulfur (S)-Dissolved			0.1		mg/L		0.5	15-JAN-20
Tellurium (Te)-Dissolved			<0.000005		mg/L		0.001	15-JAN-20
Thallium (Tl)-Dissolved			<0.0000001		mg/L		0.0003	15-JAN-20
Thorium (Th)-Dissolved			<0.000002		mg/L		0.0001	15-JAN-20
Tin (Sn)-Dissolved			<0.000005		mg/L		0.001	15-JAN-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.002	15-JAN-20
Tungsten (W)-Dissolved			<0.000002		mg/L		0.01	15-JAN-20
Uranium (U)-Dissolved			<0.0000002		mg/L		0.005	15-JAN-20
Vanadium (V)-Dissolved			0.00008		mg/L		0.001	15-JAN-20
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.003	15-JAN-20
Zirconium (Zr)-Dissolved			<0.000002		mg/L		0.001	15-JAN-20
WG3258052-8	MS	L2405423-16						
Aluminum (Al)-Dissolved			100.5		%		70-130	15-JAN-20
Antimony (Sb)-Dissolved			98.6		%		70-130	15-JAN-20
Arsenic (As)-Dissolved			99.9		%		70-130	15-JAN-20
Barium (Ba)-Dissolved			99.2		%		70-130	15-JAN-20
Beryllium (Be)-Dissolved			98.7		%		70-130	15-JAN-20
Bismuth (Bi)-Dissolved			90.5		%		70-130	15-JAN-20
Boron (B)-Dissolved			100.1		%		70-130	15-JAN-20
Cadmium (Cd)-Dissolved			100.9		%		70-130	15-JAN-20
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	15-JAN-20
Cesium (Cs)-Dissolved			99.3		%		70-130	15-JAN-20
Chromium (Cr)-Dissolved			97.8		%		70-130	15-JAN-20
Cobalt (Co)-Dissolved			99.0		%		70-130	15-JAN-20
Copper (Cu)-Dissolved			97.8		%		70-130	15-JAN-20
Iron (Fe)-Dissolved			96.1		%		70-130	15-JAN-20
Lead (Pb)-Dissolved			96.1		%		70-130	15-JAN-20
Lithium (Li)-Dissolved			97.7		%		70-130	15-JAN-20
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	15-JAN-20
Manganese (Mn)-Dissolved			N/A	MS-B	%		-	15-JAN-20
Molybdenum (Mo)-Dissolved			97.0		%		70-130	15-JAN-20
Nickel (Ni)-Dissolved			97.7		%		70-130	15-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 14 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
------	--------	-----------	--------	-----------	-------	-----	-------	----------

MET-D-MISA-TB Effluent

Batch R4971346

WG3258052-8 MS

L2405423-16

Phosphorus (P)-Dissolved			103.9		%		70-130	15-JAN-20
Potassium (K)-Dissolved			99.3		%		70-130	15-JAN-20
Rubidium (Rb)-Dissolved			99.5		%		70-130	15-JAN-20
Selenium (Se)-Dissolved			114.5		%		70-130	15-JAN-20
Silicon (Si)-Dissolved			87.7		%		70-130	15-JAN-20
Silver (Ag)-Dissolved			98.7		%		70-130	15-JAN-20
Sodium (Na)-Dissolved			93.5		%		70-130	15-JAN-20
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	15-JAN-20
Sulfur (S)-Dissolved			101.3		%		70-130	15-JAN-20
Tellurium (Te)-Dissolved			102.3		%		70-130	15-JAN-20
Thallium (Tl)-Dissolved			96.6		%		70-130	15-JAN-20
Thorium (Th)-Dissolved			101.5		%		70-130	15-JAN-20
Tin (Sn)-Dissolved			97.4		%		70-130	15-JAN-20
Titanium (Ti)-Dissolved			99.5		%		70-130	15-JAN-20
Tungsten (W)-Dissolved			99.8		%		70-130	15-JAN-20
Uranium (U)-Dissolved			95.8		%		70-130	15-JAN-20
Vanadium (V)-Dissolved			98.7		%		70-130	15-JAN-20
Zinc (Zn)-Dissolved			99.7		%		70-130	15-JAN-20
Zirconium (Zr)-Dissolved			98.6		%		70-130	15-JAN-20

MET-T-MISA-TB Effluent

Batch R4972785

WG3258733-3 DUP

L2405423-1

Aluminum (Al)-Total		0.0782	0.0830		mg/L	6.1	20	17-JAN-20
Antimony (Sb)-Total		0.00004	0.00006	RPD-NA	mg/L	N/A	20	17-JAN-20
Arsenic (As)-Total		0.00040	0.00038	RPD-NA	mg/L	N/A	20	17-JAN-20
Barium (Ba)-Total		0.00989	0.00972	RPD-NA	mg/L	N/A	20	17-JAN-20
Beryllium (Be)-Total		0.000008	0.000007	RPD-NA	mg/L	N/A	20	17-JAN-20
Bismuth (Bi)-Total		0.000008	<0.000002	RPD-NA	mg/L	N/A	20	17-JAN-20
Boron (B)-Total		0.0060	0.0050	RPD-NA	mg/L	N/A	20	17-JAN-20
Cadmium (Cd)-Total		0.000004	0.000004	RPD-NA	mg/L	N/A	20	17-JAN-20
Calcium (Ca)-Total		9.14	8.71		mg/L	4.8	20	17-JAN-20
Cesium (Cs)-Total		0.0000085	0.0000075	RPD-NA	mg/L	N/A	20	17-JAN-20
Chromium (Cr)-Total		0.00142	0.00136		mg/L	5.5	20	17-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 15 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R4972785							
WG3258733-3	DUP	L2405423-1						
Cobalt (Co)-Total		0.000061	0.000057	RPD-NA	mg/L	N/A	20	17-JAN-20
Copper (Cu)-Total		0.00090	0.00088	RPD-NA	mg/L	N/A	20	17-JAN-20
Iron (Fe)-Total		0.202	0.205		mg/L	1.4	20	17-JAN-20
Lead (Pb)-Total		0.000055	0.000055		mg/L	4.1	20	17-JAN-20
Lithium (Li)-Total		0.0012	0.0010	RPD-NA	mg/L	N/A	20	17-JAN-20
Magnesium (Mg)-Total		3.24	3.19		mg/L	1.5	20	17-JAN-20
Manganese (Mn)-Total		0.0107	0.0105		mg/L	2.4	20	17-JAN-20
Molybdenum (Mo)-Total		0.000155	0.000155	RPD-NA	mg/L	N/A	20	17-JAN-20
Nickel (Ni)-Total		0.00076	0.00074	RPD-NA	mg/L	N/A	20	17-JAN-20
Phosphorus (P)-Total		0.010	0.010	RPD-NA	mg/L	N/A	20	17-JAN-20
Potassium (K)-Total		0.815	0.790		mg/L	3.0	20	17-JAN-20
Rubidium (Rb)-Total		0.00163	0.00158		mg/L	3.4	20	17-JAN-20
Selenium (Se)-Total		0.000085	0.000110	J	mg/L	0.000021	0.0001	17-JAN-20
Silicon (Si)-Total		2.65	2.59		mg/L	2.3	20	17-JAN-20
Silver (Ag)-Total		<0.000001	<0.000001	RPD-NA	mg/L	N/A	20	17-JAN-20
Sodium (Na)-Total		3.11	2.99		mg/L	4.2	20	17-JAN-20
Strontium (Sr)-Total		0.0259	0.0254		mg/L	1.9	20	17-JAN-20
Sulfur (S)-Total		1.3	1.4		mg/L	4.5	20	17-JAN-20
Tellurium (Te)-Total		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	17-JAN-20
Thallium (Tl)-Total		0.0000014	0.0000016	RPD-NA	mg/L	N/A	20	17-JAN-20
Thorium (Th)-Total		0.000021	0.000024	RPD-NA	mg/L	N/A	20	17-JAN-20
Tin (Sn)-Total		0.00002	0.00002	RPD-NA	mg/L	N/A	20	17-JAN-20
Titanium (Ti)-Total		0.00176	0.00208	RPD-NA	mg/L	N/A	20	17-JAN-20
Tungsten (W)-Total		0.000006	<0.000002	RPD-NA	mg/L	N/A	20	17-JAN-20
Uranium (U)-Total		0.000095	0.000090	RPD-NA	mg/L	N/A	20	17-JAN-20
Vanadium (V)-Total		0.00030	0.00030	RPD-NA	mg/L	N/A	20	17-JAN-20
Zinc (Zn)-Total		0.0028	0.0028	RPD-NA	mg/L	N/A	20	17-JAN-20
Zirconium (Zr)-Total		0.000134	0.000152	RPD-NA	mg/L	N/A	20	17-JAN-20
WG3258733-7	DUP	L2405891-1						
Aluminum (Al)-Total		0.0084	0.0082		mg/L	1.5	20	17-JAN-20
Antimony (Sb)-Total		0.0138	0.0138		mg/L	0.0	20	17-JAN-20
Arsenic (As)-Total		0.00247	0.00243		mg/L	1.6	20	17-JAN-20
Barium (Ba)-Total		0.0376	0.0383		mg/L	1.7	20	17-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 16 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R4972785							
WG3258733-7	DUP	L2405891-1						
Beryllium (Be)-Total		<0.000001	0.000001	RPD-NA	mg/L	N/A	20	17-JAN-20
Bismuth (Bi)-Total		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	17-JAN-20
Boron (B)-Total		0.0260	0.0255	RPD-NA	mg/L	N/A	20	17-JAN-20
Cadmium (Cd)-Total		0.000005	0.000006	RPD-NA	mg/L	N/A	20	17-JAN-20
Calcium (Ca)-Total		166	167		mg/L	0.8	20	17-JAN-20
Cesium (Cs)-Total		0.000103	0.000103		mg/L	0.4	20	17-JAN-20
Chromium (Cr)-Total		0.00010	0.00010	RPD-NA	mg/L	N/A	20	17-JAN-20
Cobalt (Co)-Total		0.00311	0.00314		mg/L	1.0	20	17-JAN-20
Copper (Cu)-Total		0.00082	0.00080	RPD-NA	mg/L	N/A	20	17-JAN-20
Iron (Fe)-Total		0.148	0.146		mg/L	1.2	20	17-JAN-20
Lead (Pb)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	17-JAN-20
Lithium (Li)-Total		0.0024	0.0024	RPD-NA	mg/L	N/A	20	17-JAN-20
Magnesium (Mg)-Total		7.43	7.46		mg/L	0.5	20	17-JAN-20
Manganese (Mn)-Total		0.716	0.728		mg/L	1.7	20	17-JAN-20
Molybdenum (Mo)-Total		0.0254	0.0255		mg/L	0.7	20	17-JAN-20
Nickel (Ni)-Total		0.00548	0.00550		mg/L	0.3	20	17-JAN-20
Phosphorus (P)-Total		<0.005	0.010	RPD-NA	mg/L	N/A	20	17-JAN-20
Potassium (K)-Total		24.1	23.9		mg/L	0.9	20	17-JAN-20
Rubidium (Rb)-Total		0.00622	0.00632		mg/L	1.6	20	17-JAN-20
Selenium (Se)-Total		0.000085	0.000080		mg/L	7.8	20	17-JAN-20
Silicon (Si)-Total		1.22	1.24		mg/L	1.5	20	17-JAN-20
Silver (Ag)-Total		<0.000001	<0.000001	RPD-NA	mg/L	N/A	20	17-JAN-20
Sodium (Na)-Total		116	116		mg/L	0.4	20	17-JAN-20
Strontium (Sr)-Total		0.239	0.237		mg/L	0.7	20	17-JAN-20
Sulfur (S)-Total		205	212		mg/L	3.1	20	17-JAN-20
Tellurium (Te)-Total		0.00003	0.00003	RPD-NA	mg/L	N/A	20	17-JAN-20
Thallium (Tl)-Total		0.0000894	0.0000918	RPD-NA	mg/L	N/A	20	17-JAN-20
Thorium (Th)-Total		0.000002	<0.000001	RPD-NA	mg/L	N/A	20	17-JAN-20
Tin (Sn)-Total		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	17-JAN-20
Titanium (Ti)-Total		0.00010	0.00014	RPD-NA	mg/L	N/A	20	17-JAN-20
Tungsten (W)-Total		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	17-JAN-20
Uranium (U)-Total		0.000005	0.000005	RPD-NA	mg/L	N/A	20	17-JAN-20
Vanadium (V)-Total		<0.00005	<0.00005		mg/L			17-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 17 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R4972785							
WG3258733-7	DUP	L2405891-1						
Vanadium (V)-Total		<0.00005	<0.00005	RPD-NA	mg/L	N/A	20	17-JAN-20
Zinc (Zn)-Total		0.0010	0.0010	RPD-NA	mg/L	N/A	20	17-JAN-20
Zirconium (Zr)-Total		0.000014	0.000012	RPD-NA	mg/L	N/A	20	17-JAN-20
WG3258733-2	LCS							
Aluminum (Al)-Total			104.8		%		80-120	17-JAN-20
Antimony (Sb)-Total			99.1		%		80-120	17-JAN-20
Arsenic (As)-Total			95.7		%		80-120	17-JAN-20
Barium (Ba)-Total			103.2		%		80-120	17-JAN-20
Beryllium (Be)-Total			103.5		%		80-120	17-JAN-20
Bismuth (Bi)-Total			101.3		%		80-120	17-JAN-20
Boron (B)-Total			97.9		%		80-120	17-JAN-20
Cadmium (Cd)-Total			100.9		%		80-120	17-JAN-20
Calcium (Ca)-Total			102.3		%		80-120	17-JAN-20
Cesium (Cs)-Total			98.8		%		80-120	17-JAN-20
Chromium (Cr)-Total			102.6		%		80-120	17-JAN-20
Cobalt (Co)-Total			100.9		%		80-120	17-JAN-20
Copper (Cu)-Total			100.6		%		80-120	17-JAN-20
Iron (Fe)-Total			104.2		%		80-120	17-JAN-20
Lead (Pb)-Total			99.6		%		80-120	17-JAN-20
Lithium (Li)-Total			111.2		%		80-120	17-JAN-20
Magnesium (Mg)-Total			108.0		%		80-120	17-JAN-20
Manganese (Mn)-Total			102.8		%		80-120	17-JAN-20
Molybdenum (Mo)-Total			102.9		%		80-120	17-JAN-20
Nickel (Ni)-Total			101.6		%		80-120	17-JAN-20
Phosphorus (P)-Total			99.8		%		80-120	17-JAN-20
Potassium (K)-Total			102.4		%		80-120	17-JAN-20
Rubidium (Rb)-Total			100.8		%		80-120	17-JAN-20
Selenium (Se)-Total			100.7		%		80-120	17-JAN-20
Silicon (Si)-Total			99.2		%		80-120	17-JAN-20
Silver (Ag)-Total			97.8		%		80-120	17-JAN-20
Sodium (Na)-Total			106.2		%		80-120	17-JAN-20
Strontium (Sr)-Total			99.0		%		80-120	17-JAN-20
Sulfur (S)-Total			100.8		%		80-120	17-JAN-20
Tellurium (Te)-Total			97.3		%		80-120	17-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 18 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R4972785							
WG3258733-2 LCS								
Tellurium (Te)-Total			97.3		%		80-120	17-JAN-20
Thallium (Tl)-Total			102.2		%		80-120	17-JAN-20
Thorium (Th)-Total			99.4		%		80-120	17-JAN-20
Tin (Sn)-Total			99.9		%		80-120	17-JAN-20
Titanium (Ti)-Total			95.0		%		80-120	17-JAN-20
Tungsten (W)-Total			101.1		%		80-120	17-JAN-20
Uranium (U)-Total			99.0		%		80-120	17-JAN-20
Vanadium (V)-Total			103.6		%		80-120	17-JAN-20
Zinc (Zn)-Total			99.6		%		80-120	17-JAN-20
Zirconium (Zr)-Total			100.3		%		80-120	17-JAN-20
WG3258733-6 LCS								
Aluminum (Al)-Total			102.7		%		80-120	17-JAN-20
Antimony (Sb)-Total			105.3		%		80-120	17-JAN-20
Arsenic (As)-Total			97.6		%		80-120	17-JAN-20
Barium (Ba)-Total			103.0		%		80-120	17-JAN-20
Beryllium (Be)-Total			100.9		%		80-120	17-JAN-20
Bismuth (Bi)-Total			104.8		%		80-120	17-JAN-20
Boron (B)-Total			100.4		%		80-120	17-JAN-20
Cadmium (Cd)-Total			104.1		%		80-120	17-JAN-20
Calcium (Ca)-Total			104.8		%		80-120	17-JAN-20
Cesium (Cs)-Total			102.8		%		80-120	17-JAN-20
Chromium (Cr)-Total			103.3		%		80-120	17-JAN-20
Cobalt (Co)-Total			103.3		%		80-120	17-JAN-20
Copper (Cu)-Total			101.2		%		80-120	17-JAN-20
Iron (Fe)-Total			104.9		%		80-120	17-JAN-20
Lead (Pb)-Total			102.7		%		80-120	17-JAN-20
Lithium (Li)-Total			107.6		%		80-120	17-JAN-20
Magnesium (Mg)-Total			109.7		%		80-120	17-JAN-20
Manganese (Mn)-Total			103.7		%		80-120	17-JAN-20
Molybdenum (Mo)-Total			105.8		%		80-120	17-JAN-20
Nickel (Ni)-Total			103.4		%		80-120	17-JAN-20
Phosphorus (P)-Total			102.8		%		80-120	17-JAN-20
Potassium (K)-Total			104.8		%		80-120	17-JAN-20
Rubidium (Rb)-Total			103.7		%		80-120	17-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 19 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R4972785							
WG3258733-6 LCS								
Selenium (Se)-Total			101.4		%		80-120	17-JAN-20
Silicon (Si)-Total			102.3		%		80-120	17-JAN-20
Silver (Ag)-Total			103.8		%		80-120	17-JAN-20
Sodium (Na)-Total			104.2		%		80-120	17-JAN-20
Strontium (Sr)-Total			101.8		%		80-120	17-JAN-20
Sulfur (S)-Total			97.5		%		80-120	17-JAN-20
Tellurium (Te)-Total			100.1		%		80-120	17-JAN-20
Thallium (Tl)-Total			104.6		%		80-120	17-JAN-20
Thorium (Th)-Total			101.4		%		80-120	17-JAN-20
Tin (Sn)-Total			103.0		%		80-120	17-JAN-20
Titanium (Ti)-Total			96.7		%		80-120	17-JAN-20
Tungsten (W)-Total			101.8		%		80-120	17-JAN-20
Uranium (U)-Total			97.3		%		80-120	17-JAN-20
Vanadium (V)-Total			103.4		%		80-120	17-JAN-20
Zinc (Zn)-Total			99.0		%		80-120	17-JAN-20
Zirconium (Zr)-Total			102.5		%		80-120	17-JAN-20
WG3258733-1 MB								
Aluminum (Al)-Total			0.0006		mg/L		0.005	17-JAN-20
Antimony (Sb)-Total			0.00002		mg/L		0.0006	17-JAN-20
Arsenic (As)-Total			0.00003		mg/L		0.001	17-JAN-20
Barium (Ba)-Total			<0.00001		mg/L		0.01	17-JAN-20
Beryllium (Be)-Total			<0.000001		mg/L		0.001	17-JAN-20
Bismuth (Bi)-Total			<0.000002		mg/L		0.001	17-JAN-20
Boron (B)-Total			0.0010		mg/L		0.05	17-JAN-20
Cadmium (Cd)-Total			<0.000001		mg/L		0.000017	17-JAN-20
Calcium (Ca)-Total			<0.002		mg/L		0.2	17-JAN-20
Cesium (Cs)-Total			<0.0000005		mg/L		0.00001	17-JAN-20
Chromium (Cr)-Total			<0.00002		mg/L		0.001	17-JAN-20
Cobalt (Co)-Total			<0.000001		mg/L		0.0005	17-JAN-20
Copper (Cu)-Total			<0.00002		mg/L		0.001	17-JAN-20
Iron (Fe)-Total			<0.0005		mg/L		0.02	17-JAN-20
Lead (Pb)-Total			<0.000005		mg/L		0.00005	17-JAN-20
Lithium (Li)-Total			<0.0002		mg/L		0.05	17-JAN-20
Magnesium (Mg)-Total			<0.0005		mg/L		0.02	17-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 20 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R4972785							
WG3258733-1 MB								
Manganese (Mn)-Total			<0.00002		mg/L		0.001	17-JAN-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.001	17-JAN-20
Nickel (Ni)-Total			<0.00002		mg/L		0.002	17-JAN-20
Phosphorus (P)-Total			<0.005		mg/L		0.05	17-JAN-20
Potassium (K)-Total			<0.005		mg/L		0.5	17-JAN-20
Rubidium (Rb)-Total			<0.000002		mg/L		0.0002	17-JAN-20
Selenium (Se)-Total			<0.000005		mg/L		0.00005	17-JAN-20
Silicon (Si)-Total			0.020		mg/L		0.1	17-JAN-20
Silver (Ag)-Total			<0.000001		mg/L		0.0001	17-JAN-20
Sodium (Na)-Total			<0.01		mg/L		0.1	17-JAN-20
Strontium (Sr)-Total			<0.00001		mg/L		0.001	17-JAN-20
Sulfur (S)-Total			0.1		mg/L		0.5	17-JAN-20
Tellurium (Te)-Total			<0.00001		mg/L		0.001	17-JAN-20
Thallium (Tl)-Total			<0.0000002		mg/L		0.0003	17-JAN-20
Thorium (Th)-Total			0.000002		mg/L		0.0001	17-JAN-20
Tin (Sn)-Total			<0.00001		mg/L		0.001	17-JAN-20
Titanium (Ti)-Total			<0.00002		mg/L		0.002	17-JAN-20
Tungsten (W)-Total			<0.000002		mg/L		0.01	17-JAN-20
Uranium (U)-Total			<0.000005		mg/L		0.005	17-JAN-20
Vanadium (V)-Total			0.00015		mg/L		0.001	17-JAN-20
Zinc (Zn)-Total			0.0002		mg/L		0.003	17-JAN-20
Zirconium (Zr)-Total			0.000006		mg/L		0.001	17-JAN-20
WG3258733-5 MB								
Aluminum (Al)-Total			0.0004		mg/L		0.005	17-JAN-20
Antimony (Sb)-Total			<0.00002		mg/L		0.0006	17-JAN-20
Arsenic (As)-Total			0.00003		mg/L		0.001	17-JAN-20
Barium (Ba)-Total			<0.00001		mg/L		0.01	17-JAN-20
Beryllium (Be)-Total			<0.000001		mg/L		0.001	17-JAN-20
Bismuth (Bi)-Total			<0.000002		mg/L		0.001	17-JAN-20
Boron (B)-Total			0.0010		mg/L		0.05	17-JAN-20
Cadmium (Cd)-Total			<0.000001		mg/L		0.000017	17-JAN-20
Calcium (Ca)-Total			<0.002		mg/L		0.2	17-JAN-20
Cesium (Cs)-Total			<0.0000005		mg/L		0.00001	17-JAN-20
Chromium (Cr)-Total			<0.00002		mg/L		0.001	17-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 21 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R4972785							
WG3258733-5 MB								
Cobalt (Co)-Total			<0.000001		mg/L		0.0005	17-JAN-20
Copper (Cu)-Total			<0.00002		mg/L		0.001	17-JAN-20
Iron (Fe)-Total			<0.0005		mg/L		0.02	17-JAN-20
Lead (Pb)-Total			<0.000005		mg/L		0.00005	17-JAN-20
Lithium (Li)-Total			<0.0002		mg/L		0.05	17-JAN-20
Magnesium (Mg)-Total			<0.0005		mg/L		0.02	17-JAN-20
Manganese (Mn)-Total			<0.00002		mg/L		0.001	17-JAN-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.001	17-JAN-20
Nickel (Ni)-Total			<0.00002		mg/L		0.002	17-JAN-20
Phosphorus (P)-Total			<0.005		mg/L		0.05	17-JAN-20
Potassium (K)-Total			<0.005		mg/L		0.5	17-JAN-20
Rubidium (Rb)-Total			<0.000002		mg/L		0.0002	17-JAN-20
Selenium (Se)-Total			<0.000005		mg/L		0.00005	17-JAN-20
Silicon (Si)-Total			0.018		mg/L		0.1	17-JAN-20
Silver (Ag)-Total			<0.000001		mg/L		0.0001	17-JAN-20
Sodium (Na)-Total			<0.01		mg/L		0.1	17-JAN-20
Strontium (Sr)-Total			<0.00001		mg/L		0.001	17-JAN-20
Sulfur (S)-Total			<0.1		mg/L		0.5	17-JAN-20
Tellurium (Te)-Total			<0.00001		mg/L		0.001	17-JAN-20
Thallium (Tl)-Total			<0.0000002		mg/L		0.0003	17-JAN-20
Thorium (Th)-Total			<0.000001		mg/L		0.0001	17-JAN-20
Tin (Sn)-Total			<0.00001		mg/L		0.001	17-JAN-20
Titanium (Ti)-Total			<0.00002		mg/L		0.002	17-JAN-20
Tungsten (W)-Total			<0.000002		mg/L		0.01	17-JAN-20
Uranium (U)-Total			<0.000005		mg/L		0.005	17-JAN-20
Vanadium (V)-Total			0.00015		mg/L		0.001	17-JAN-20
Zinc (Zn)-Total			<0.0002		mg/L		0.003	17-JAN-20
Zirconium (Zr)-Total			0.000004		mg/L		0.001	17-JAN-20
WG3258733-4 MS		L2405423-2						
Aluminum (Al)-Total			N/A	MS-B	%		-	17-JAN-20
Antimony (Sb)-Total			101.0		%		70-130	17-JAN-20
Arsenic (As)-Total			98.8		%		70-130	17-JAN-20
Barium (Ba)-Total			111.8		%		70-130	17-JAN-20
Beryllium (Be)-Total			104.9		%		70-130	17-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 22 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R4972785							
WG3258733-4 MS		L2405423-2						
Bismuth (Bi)-Total			94.5		%		70-130	17-JAN-20
Boron (B)-Total			108.7		%		70-130	17-JAN-20
Cadmium (Cd)-Total			102.8		%		70-130	17-JAN-20
Calcium (Ca)-Total			N/A	MS-B	%		-	17-JAN-20
Cesium (Cs)-Total			101.5		%		70-130	17-JAN-20
Chromium (Cr)-Total			103.9		%		70-130	17-JAN-20
Cobalt (Co)-Total			102.0		%		70-130	17-JAN-20
Copper (Cu)-Total			101.4		%		70-130	17-JAN-20
Iron (Fe)-Total			106.8		%		70-130	17-JAN-20
Lead (Pb)-Total			97.3		%		70-130	17-JAN-20
Lithium (Li)-Total			105.8		%		70-130	17-JAN-20
Magnesium (Mg)-Total			N/A	MS-B	%		-	17-JAN-20
Manganese (Mn)-Total			N/A	MS-B	%		-	17-JAN-20
Molybdenum (Mo)-Total			107.2		%		70-130	17-JAN-20
Nickel (Ni)-Total			100.4		%		70-130	17-JAN-20
Phosphorus (P)-Total			102.7		%		70-130	17-JAN-20
Potassium (K)-Total			102.0		%		70-130	17-JAN-20
Rubidium (Rb)-Total			102.6		%		70-130	17-JAN-20
Selenium (Se)-Total			108.9		%		70-130	17-JAN-20
Silicon (Si)-Total			96.8		%		70-130	17-JAN-20
Silver (Ag)-Total			99.9		%		70-130	17-JAN-20
Sodium (Na)-Total			N/A	MS-B	%		-	17-JAN-20
Strontium (Sr)-Total			N/A	MS-B	%		-	17-JAN-20
Sulfur (S)-Total			101.6		%		70-130	17-JAN-20
Tellurium (Te)-Total			100.1		%		70-130	17-JAN-20
Thallium (Tl)-Total			95.3		%		70-130	17-JAN-20
Thorium (Th)-Total			99.95		%		70-130	17-JAN-20
Tin (Sn)-Total			101.8		%		70-130	17-JAN-20
Titanium (Ti)-Total			120.0		%		70-130	17-JAN-20
Tungsten (W)-Total			101.7		%		70-130	17-JAN-20
Uranium (U)-Total			95.4		%		70-130	17-JAN-20
Vanadium (V)-Total			104.5		%		70-130	17-JAN-20
Zinc (Zn)-Total			98.2		%		70-130	17-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 23 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R4972785							
WG3258733-4 MS		L2405423-2						
Zirconium (Zr)-Total			109.2		%		70-130	17-JAN-20
WG3258733-8 MS		L2405891-2						
Aluminum (Al)-Total			96.3		%		70-130	17-JAN-20
Antimony (Sb)-Total			N/A	MS-B	%		-	17-JAN-20
Arsenic (As)-Total			N/A	MS-B	%		-	17-JAN-20
Barium (Ba)-Total			N/A	MS-B	%		-	17-JAN-20
Beryllium (Be)-Total			94.5		%		70-130	17-JAN-20
Bismuth (Bi)-Total			91.1		%		70-130	17-JAN-20
Boron (B)-Total			96.4		%		70-130	17-JAN-20
Cadmium (Cd)-Total			97.4		%		70-130	17-JAN-20
Calcium (Ca)-Total			N/A	MS-B	%		-	17-JAN-20
Cesium (Cs)-Total			101.5		%		70-130	17-JAN-20
Chromium (Cr)-Total			99.0		%		70-130	17-JAN-20
Cobalt (Co)-Total			98.0		%		70-130	17-JAN-20
Copper (Cu)-Total			93.5		%		70-130	17-JAN-20
Iron (Fe)-Total			90.3		%		70-130	17-JAN-20
Lead (Pb)-Total			93.6		%		70-130	17-JAN-20
Lithium (Li)-Total			97.1		%		70-130	17-JAN-20
Magnesium (Mg)-Total			N/A	MS-B	%		-	17-JAN-20
Manganese (Mn)-Total			N/A	MS-B	%		-	17-JAN-20
Molybdenum (Mo)-Total			N/A	MS-B	%		-	17-JAN-20
Nickel (Ni)-Total			95.6		%		70-130	17-JAN-20
Phosphorus (P)-Total			104.7		%		70-130	17-JAN-20
Potassium (K)-Total			N/A	MS-B	%		-	17-JAN-20
Rubidium (Rb)-Total			99.0		%		70-130	17-JAN-20
Selenium (Se)-Total			106.1		%		70-130	17-JAN-20
Silicon (Si)-Total			92.2		%		70-130	17-JAN-20
Silver (Ag)-Total			95.7		%		70-130	17-JAN-20
Sodium (Na)-Total			N/A	MS-B	%		-	17-JAN-20
Strontium (Sr)-Total			N/A	MS-B	%		-	17-JAN-20
Sulfur (S)-Total			N/A	MS-B	%		-	17-JAN-20
Tellurium (Te)-Total			100.5		%		70-130	17-JAN-20
Thallium (Tl)-Total			91.7		%		70-130	17-JAN-20
Thorium (Th)-Total			98.2		%		70-130	17-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 24 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R4972785							
WG3258733-8	MS	L2405891-2						
Tin (Sn)-Total			101.1		%		70-130	17-JAN-20
Titanium (Ti)-Total			97.6		%		70-130	17-JAN-20
Tungsten (W)-Total			102.5		%		70-130	17-JAN-20
Uranium (U)-Total			94.7		%		70-130	17-JAN-20
Vanadium (V)-Total			101.8		%		70-130	17-JAN-20
Zinc (Zn)-Total			91.8		%		70-130	17-JAN-20
Zirconium (Zr)-Total			103.5		%		70-130	17-JAN-20
Batch	R4973560							
WG3259997-2	LCS							
Aluminum (Al)-Total			104.6		%		80-120	20-JAN-20
Antimony (Sb)-Total			100.9		%		80-120	20-JAN-20
Arsenic (As)-Total			100.3		%		80-120	20-JAN-20
Barium (Ba)-Total			107.8		%		80-120	20-JAN-20
Beryllium (Be)-Total			97.8		%		80-120	20-JAN-20
Bismuth (Bi)-Total			104.3		%		80-120	20-JAN-20
Boron (B)-Total			93.0		%		80-120	20-JAN-20
Cadmium (Cd)-Total			102.2		%		80-120	20-JAN-20
Calcium (Ca)-Total			102.1		%		80-120	20-JAN-20
Cesium (Cs)-Total			98.0		%		80-120	20-JAN-20
Chromium (Cr)-Total			101.9		%		80-120	20-JAN-20
Cobalt (Co)-Total			102.5		%		80-120	20-JAN-20
Copper (Cu)-Total			100.0		%		80-120	20-JAN-20
Iron (Fe)-Total			106.0		%		80-120	20-JAN-20
Lead (Pb)-Total			102.9		%		80-120	20-JAN-20
Lithium (Li)-Total			100.0		%		80-120	20-JAN-20
Magnesium (Mg)-Total			110.0		%		80-120	20-JAN-20
Manganese (Mn)-Total			102.1		%		80-120	20-JAN-20
Molybdenum (Mo)-Total			102.1		%		80-120	20-JAN-20
Nickel (Ni)-Total			99.9		%		80-120	20-JAN-20
Phosphorus (P)-Total			105.2		%		80-120	20-JAN-20
Potassium (K)-Total			106.4		%		80-120	20-JAN-20
Rubidium (Rb)-Total			101.8		%		80-120	20-JAN-20
Selenium (Se)-Total			101.0		%		80-120	20-JAN-20
Silicon (Si)-Total			100.2		%		80-120	20-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 25 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R4973560							
WG3259997-2 LCS								
Silver (Ag)-Total			105.5		%		80-120	20-JAN-20
Sodium (Na)-Total			102.6		%		80-120	20-JAN-20
Strontium (Sr)-Total			100.0		%		80-120	20-JAN-20
Sulfur (S)-Total			87.3		%		80-120	20-JAN-20
Tellurium (Te)-Total			100.1		%		80-120	20-JAN-20
Thallium (Tl)-Total			103.5		%		80-120	20-JAN-20
Thorium (Th)-Total			97.8		%		80-120	20-JAN-20
Tin (Sn)-Total			98.2		%		80-120	20-JAN-20
Titanium (Ti)-Total			100.4		%		80-120	20-JAN-20
Tungsten (W)-Total			99.3		%		80-120	20-JAN-20
Uranium (U)-Total			102.0		%		80-120	20-JAN-20
Vanadium (V)-Total			103.6		%		80-120	20-JAN-20
Zinc (Zn)-Total			96.8		%		80-120	20-JAN-20
Zirconium (Zr)-Total			94.9		%		80-120	20-JAN-20
WG3259997-1 MB								
Aluminum (Al)-Total			0.0004		mg/L		0.005	20-JAN-20
Antimony (Sb)-Total			<0.00002		mg/L		0.0006	20-JAN-20
Arsenic (As)-Total			0.00003		mg/L		0.001	20-JAN-20
Barium (Ba)-Total			<0.00001		mg/L		0.01	20-JAN-20
Beryllium (Be)-Total			<0.000001		mg/L		0.001	20-JAN-20
Bismuth (Bi)-Total			<0.000002		mg/L		0.001	20-JAN-20
Boron (B)-Total			0.0020		mg/L		0.05	20-JAN-20
Cadmium (Cd)-Total			<0.000001		mg/L		0.000017	20-JAN-20
Calcium (Ca)-Total			<0.002		mg/L		0.2	20-JAN-20
Cesium (Cs)-Total			<0.0000005		mg/L		0.00001	20-JAN-20
Chromium (Cr)-Total			0.00004		mg/L		0.001	20-JAN-20
Cobalt (Co)-Total			<0.000001		mg/L		0.0005	20-JAN-20
Copper (Cu)-Total			<0.00002		mg/L		0.001	20-JAN-20
Iron (Fe)-Total			<0.0005		mg/L		0.02	20-JAN-20
Lead (Pb)-Total			<0.000005		mg/L		0.00005	20-JAN-20
Lithium (Li)-Total			<0.0002		mg/L		0.05	20-JAN-20
Magnesium (Mg)-Total			<0.0005		mg/L		0.02	20-JAN-20
Manganese (Mn)-Total			0.00006		mg/L		0.001	20-JAN-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.001	20-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 26 of 35

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R4973560							
WG3259997-1 MB								
Nickel (Ni)-Total			<0.00002		mg/L		0.002	20-JAN-20
Phosphorus (P)-Total			<0.005		mg/L		0.05	20-JAN-20
Potassium (K)-Total			<0.005		mg/L		0.5	20-JAN-20
Rubidium (Rb)-Total			<0.000002		mg/L		0.0002	20-JAN-20
Selenium (Se)-Total			0.000010		mg/L		0.00005	20-JAN-20
Silicon (Si)-Total			0.018		mg/L		0.1	20-JAN-20
Silver (Ag)-Total			0.000001		mg/L		0.0001	20-JAN-20
Sodium (Na)-Total			<0.01		mg/L		0.1	20-JAN-20
Strontium (Sr)-Total			<0.00001		mg/L		0.001	20-JAN-20
Sulfur (S)-Total			<0.1		mg/L		0.5	20-JAN-20
Tellurium (Te)-Total			<0.00001		mg/L		0.001	20-JAN-20
Thallium (Tl)-Total			<0.0000002		mg/L		0.0003	20-JAN-20
Thorium (Th)-Total			<0.000001		mg/L		0.0001	20-JAN-20
Tin (Sn)-Total			<0.00001		mg/L		0.001	20-JAN-20
Titanium (Ti)-Total			<0.00002		mg/L		0.002	20-JAN-20
Tungsten (W)-Total			<0.000002		mg/L		0.01	20-JAN-20
Uranium (U)-Total			<0.000005		mg/L		0.005	20-JAN-20
Vanadium (V)-Total			0.00010		mg/L		0.001	20-JAN-20
Zinc (Zn)-Total			0.0010		mg/L		0.003	20-JAN-20
Zirconium (Zr)-Total			<0.000002		mg/L		0.001	20-JAN-20
NH3-MISA-COL-TB		Effluent						
Batch	R4970888							
WG3257877-3 DUP		L2405423-1						
Ammonia, Total (as N)		0.012	0.010	RPD-NA	mg/L	N/A	20	15-JAN-20
WG3257877-7 DUP		L2405423-14						
Ammonia, Total (as N)		0.056	0.056		mg/L	0.1	20	15-JAN-20
WG3257877-2 LCS								
Ammonia, Total (as N)			102.2		%		85-115	15-JAN-20
WG3257877-6 LCS								
Ammonia, Total (as N)			101.8		%		85-115	15-JAN-20
WG3257877-1 MB								
Ammonia, Total (as N)			0.002		mg/L		0.02	15-JAN-20
WG3257877-5 MB								
Ammonia, Total (as N)			<0.002		mg/L		0.02	15-JAN-20
WG3257877-4 MS		L2405423-2						

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 27 of 35

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-MISA-COL-TB								
	Effluent							
Batch	R4970888							
WG3257877-4	MS	L2405423-2						
Ammonia, Total (as N)			83.5		%		75-125	15-JAN-20
WG3257877-8	MS	L2405423-15						
Ammonia, Total (as N)			85.0		%		75-125	15-JAN-20
NO2-MISA-IC-TB								
	Effluent							
Batch	R4971358							
WG3257915-7	DUP	L2405423-11						
Nitrite (as N)		0.0015	<0.0005	RPD-NA	mg/L	N/A	20	15-JAN-20
WG3257915-2	LCS							
Nitrite (as N)			103.0		%		90-110	15-JAN-20
WG3257915-6	LCS							
Nitrite (as N)			101.5		%		90-110	15-JAN-20
WG3257915-1	MB							
Nitrite (as N)			<0.0005		mg/L		0.01	15-JAN-20
WG3257915-5	MB							
Nitrite (as N)			0.0050		mg/L		0.01	15-JAN-20
WG3257915-4	MS	L2405096-8						
Nitrite (as N)			114.3		%		75-125	15-JAN-20
Batch	R4972142							
WG3258773-10	LCS							
Nitrite (as N)			96.4		%		90-110	16-JAN-20
WG3258773-2	LCS							
Nitrite (as N)			90.8		%		90-110	16-JAN-20
WG3258773-1	MB							
Nitrite (as N)			0.0040		mg/L		0.01	16-JAN-20
WG3258773-9	MB							
Nitrite (as N)			0.0020		mg/L		0.01	16-JAN-20
WG3257915-8	MS	L2405423-17						
Nitrite (as N)			99.5		%		75-125	16-JAN-20
NO3-MISA-IC-TB								
	Effluent							
Batch	R4971358							
WG3257915-7	DUP	L2405423-11						
Nitrate (as N)		0.128	0.131		mg/L	2.4	20	15-JAN-20
WG3257915-2	LCS							
Nitrate (as N)			99.2		%		90-110	15-JAN-20
WG3257915-6	LCS							
Nitrate (as N)			90.3		%		90-110	15-JAN-20
WG3257915-1	MB							

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 28 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO3-MISA-IC-TB		Effluent						
Batch	R4971358							
WG3257915-1	MB							
Nitrate (as N)			0.017		mg/L		0.02	15-JAN-20
WG3257915-5	MB							
Nitrate (as N)			0.004		mg/L		0.02	15-JAN-20
WG3257915-4	MS	L2405096-8						
Nitrate (as N)			107.1		%		75-125	15-JAN-20
Batch	R4972142							
WG3258773-10	LCS							
Nitrate (as N)			92.4		%		90-110	16-JAN-20
WG3258773-2	LCS							
Nitrate (as N)			92.0		%		90-110	16-JAN-20
WG3258773-1	MB							
Nitrate (as N)			0.006		mg/L		0.02	16-JAN-20
WG3258773-9	MB							
Nitrate (as N)			0.002		mg/L		0.02	16-JAN-20
WG3257915-8	MS	L2405423-17						
Nitrate (as N)			98.0		%		75-125	16-JAN-20
OGG-TOT-WT		Effluent						
Batch	R4972403							
WG3259302-2	LCS							
Oil and Grease, Total			98.3		%		50-150	17-JAN-20
WG3259302-1	MB							
Oil and Grease, Total			0.8		mg/L		1	17-JAN-20
PH-MISA-TB		Effluent						
Batch	R4971531							
WG3257985-6	DUP	L2405423-11						
pH		7.39	7.41	J	pH	0.02	0.2	15-JAN-20
WG3257985-2	LCS							
pH			7.00		pH		6.9-7.1	15-JAN-20
WG3257985-5	LCS							
pH			7.00		pH		6.9-7.1	15-JAN-20
SO4-MISA-IC-TB		Effluent						
Batch	R4971358							
WG3257915-7	DUP	L2405423-11						
Sulfate (SO4)		4.92	4.82		mg/L	2.2	20	15-JAN-20
WG3257915-2	LCS							
Sulfate (SO4)			100.6		%		90-110	15-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 29 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SO4-MISA-IC-TB								
	Effluent							
Batch	R4971358							
WG3257915-6	LCS							
Sulfate (SO4)			92.0		%		90-110	15-JAN-20
WG3257915-1	MB							
Sulfate (SO4)			<0.02		mg/L		0.3	15-JAN-20
WG3257915-5	MB							
Sulfate (SO4)			<0.02		mg/L		0.3	15-JAN-20
Batch	R4972142							
WG3258773-10	LCS							
Sulfate (SO4)			97.4		%		90-110	16-JAN-20
WG3258773-2	LCS							
Sulfate (SO4)			93.4		%		90-110	16-JAN-20
WG3258773-1	MB							
Sulfate (SO4)			0.04		mg/L		0.3	16-JAN-20
WG3258773-9	MB							
Sulfate (SO4)			<0.02		mg/L		0.3	16-JAN-20
WG3257915-8	MS	L2405423-17						
Sulfate (SO4)			99.7		%		75-125	16-JAN-20
TDS-MISA-TB								
	Effluent							
Batch	R4971910							
WG3257998-2	LCS							
Total Dissolved Solids			95.2		%		85-115	15-JAN-20
WG3257998-1	MB							
Total Dissolved Solids			<2		mg/L		10	15-JAN-20
TSS-MISA-TB								
	Effluent							
Batch	R4971471							
WG3257994-3	DUP	L2404642-2						
Total Suspended Solids		48.0	45.5		mg/L	4.7	20	15-JAN-20
WG3257994-2	LCS							
Total Suspended Solids			96.9		%		85-115	15-JAN-20
WG3257994-1	MB							
Total Suspended Solids			<0.5		mg/L		2	15-JAN-20
Batch	R4971826							
WG3258008-3	DUP	L2405576-1						
Total Suspended Solids		49.0	47.0		mg/L	5.0	20	15-JAN-20
WG3258008-2	LCS							
Total Suspended Solids			98.0		%		85-115	15-JAN-20
WG3258008-1	MB							

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Page 30 of 35

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TSS-MISA-TB	Effluent							
Batch	R4971826							
WG3258008-1 MB								
Total Suspended Solids			<0.5		mg/L		2	15-JAN-20

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Amanda Jacobs

Page 31 of 35

Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
J	Duplicate results and limits are expressed in terms of absolute difference.
MB-LOR	Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Page 32 of 35

Contact: Amanda Jacobs

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Colour, True							
	1	09-JAN-20 15:00	15-JAN-20 16:30	48	145	hours	EHTR
	2	09-JAN-20 14:30	15-JAN-20 16:30	48	146	hours	EHTR
	3	09-JAN-20 13:40	15-JAN-20 16:30	48	147	hours	EHTR
	4	09-JAN-20 13:20	15-JAN-20 16:30	48	147	hours	EHTR
	5	09-JAN-20 12:00	15-JAN-20 16:30	48	149	hours	EHTR
	6	09-JAN-20 11:30	15-JAN-20 16:30	48	149	hours	EHTR
	7	09-JAN-20 11:20	15-JAN-20 16:30	48	149	hours	EHTR
	8	09-JAN-20 10:30	15-JAN-20 16:30	48	150	hours	EHTR
	9	09-JAN-20 12:00	15-JAN-20 16:30	48	149	hours	EHTR
	10	09-JAN-20 12:15	15-JAN-20 16:30	48	148	hours	EHTR
	11	09-JAN-20 11:40	15-JAN-20 16:30	48	149	hours	EHTR
	12	09-JAN-20 11:00	15-JAN-20 16:30	48	150	hours	EHTR
	13	09-JAN-20 10:15	15-JAN-20 16:30	48	150	hours	EHTR
	14	09-JAN-20 09:45	15-JAN-20 16:30	48	151	hours	EHTR
	15	09-JAN-20 15:30	15-JAN-20 16:30	48	145	hours	EHTR
	16	09-JAN-20 15:00	15-JAN-20 16:30	48	145	hours	EHTR
	17	09-JAN-20 12:00	15-JAN-20 16:30	48	149	hours	EHTR
	18	09-JAN-20 12:00	15-JAN-20 17:10	48	149	hours	EHTR
Conductivity (EC)							
	1	09-JAN-20 15:00	15-JAN-20 12:34	4	6	days	EHTR
	2	09-JAN-20 14:30	15-JAN-20 12:34	4	6	days	EHTR
	3	09-JAN-20 13:40	15-JAN-20 12:34	4	6	days	EHTR
	4	09-JAN-20 13:20	15-JAN-20 12:34	4	6	days	EHTR
	5	09-JAN-20 12:00	15-JAN-20 12:34	4	6	days	EHTR
	6	09-JAN-20 11:30	15-JAN-20 12:34	4	6	days	EHTR
	7	09-JAN-20 11:20	15-JAN-20 12:34	4	6	days	EHTR
	8	09-JAN-20 10:30	15-JAN-20 12:34	4	6	days	EHTR
	9	09-JAN-20 12:00	15-JAN-20 12:34	4	6	days	EHTR
	10	09-JAN-20 12:15	15-JAN-20 12:34	4	6	days	EHTR
	11	09-JAN-20 11:40	15-JAN-20 12:34	4	6	days	EHTR
	12	09-JAN-20 11:00	15-JAN-20 12:34	4	6	days	EHTR
	13	09-JAN-20 10:15	15-JAN-20 12:34	4	6	days	EHTR
	14	09-JAN-20 09:45	15-JAN-20 12:34	4	6	days	EHTR
	15	09-JAN-20 15:30	15-JAN-20 12:34	4	6	days	EHTR
	16	09-JAN-20 15:00	15-JAN-20 12:34	4	6	days	EHTR
	17	09-JAN-20 12:00	17-JAN-20 12:53	4	8	days	EHTR
	18	09-JAN-20 12:00	17-JAN-20 12:53	4	8	days	EHTR
Turbidity							
	1	09-JAN-20 15:00	15-JAN-20 15:15	48	144	hours	EHTR
	2	09-JAN-20 14:30	15-JAN-20 15:15	48	145	hours	EHTR
	3	09-JAN-20 13:40	15-JAN-20 15:15	48	146	hours	EHTR
	4	09-JAN-20 13:20	15-JAN-20 15:15	48	146	hours	EHTR
	5	09-JAN-20 12:00	15-JAN-20 15:15	48	147	hours	EHTR
	6	09-JAN-20 11:30	15-JAN-20 15:15	48	148	hours	EHTR
	7	09-JAN-20 11:20	15-JAN-20 15:15	48	148	hours	EHTR
	8	09-JAN-20 10:30	15-JAN-20 15:15	48	149	hours	EHTR
	9	09-JAN-20 12:00	16-JAN-20 12:30	48	168	hours	EHTR
	10	09-JAN-20 12:15	16-JAN-20 12:30	48	168	hours	EHTR
	11	09-JAN-20 11:40	16-JAN-20 12:30	48	169	hours	EHTR
	12	09-JAN-20 11:00	16-JAN-20 12:30	48	169	hours	EHTR
	13	09-JAN-20 10:15	16-JAN-20 12:30	48	170	hours	EHTR
	14	09-JAN-20 09:45	16-JAN-20 12:30	48	171	hours	EHTR

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Page 33 of 35

Contact: Amanda Jacobs

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Turbidity							
	15	09-JAN-20 15:30	16-JAN-20 12:30	48	165	hours	EHTR
	16	09-JAN-20 15:00	16-JAN-20 12:30	48	166	hours	EHTR
	17	09-JAN-20 12:00	16-JAN-20 12:30	48	168	hours	EHTR
	18	09-JAN-20 12:00	16-JAN-20 12:30	48	168	hours	EHTR
pH							
	1	09-JAN-20 15:00	15-JAN-20 12:34	4	6	days	EHTR
	2	09-JAN-20 14:30	15-JAN-20 12:34	4	6	days	EHTR
	3	09-JAN-20 13:40	15-JAN-20 12:34	4	6	days	EHTR
	4	09-JAN-20 13:20	15-JAN-20 12:34	4	6	days	EHTR
	5	09-JAN-20 12:00	15-JAN-20 12:34	4	6	days	EHTR
	6	09-JAN-20 11:30	15-JAN-20 12:34	4	6	days	EHTR
	7	09-JAN-20 11:20	15-JAN-20 12:34	4	6	days	EHTR
	8	09-JAN-20 10:30	15-JAN-20 12:34	4	6	days	EHTR
	9	09-JAN-20 12:00	15-JAN-20 12:34	4	6	days	EHTR
	10	09-JAN-20 12:15	15-JAN-20 12:34	4	6	days	EHTR
	11	09-JAN-20 11:40	15-JAN-20 12:34	4	6	days	EHTR
	12	09-JAN-20 11:00	15-JAN-20 12:34	4	6	days	EHTR
	13	09-JAN-20 10:15	15-JAN-20 12:34	4	6	days	EHTR
	14	09-JAN-20 09:45	15-JAN-20 12:34	4	6	days	EHTR
	15	09-JAN-20 15:30	15-JAN-20 12:34	4	6	days	EHTR
	16	09-JAN-20 15:00	15-JAN-20 12:34	4	6	days	EHTR
	17	09-JAN-20 12:00	15-JAN-20 12:34	4	6	days	EHTR
	18	09-JAN-20 12:00	15-JAN-20 12:34	4	6	days	EHTR
Leachable Anions & Nutrients							
Nitrate in Water by IC							
	1	09-JAN-20 15:00	15-JAN-20 13:57	5	6	days	EHTR
	2	09-JAN-20 14:30	15-JAN-20 13:57	5	6	days	EHTR
	3	09-JAN-20 13:40	15-JAN-20 13:57	5	6	days	EHTR
	4	09-JAN-20 13:20	15-JAN-20 13:57	5	6	days	EHTR
	5	09-JAN-20 12:00	15-JAN-20 13:57	5	6	days	EHTR
	6	09-JAN-20 11:30	15-JAN-20 13:57	5	6	days	EHTR
	7	09-JAN-20 11:20	15-JAN-20 13:57	5	6	days	EHTR
	8	09-JAN-20 10:30	15-JAN-20 13:57	5	6	days	EHTR
	9	09-JAN-20 12:00	15-JAN-20 13:57	5	6	days	EHTR
	10	09-JAN-20 12:15	15-JAN-20 13:57	5	6	days	EHTR
	11	09-JAN-20 11:40	15-JAN-20 13:57	5	6	days	EHTR
	12	09-JAN-20 11:00	15-JAN-20 13:57	5	6	days	EHTR
	13	09-JAN-20 10:15	15-JAN-20 13:57	5	6	days	EHTR
	14	09-JAN-20 09:45	15-JAN-20 13:57	5	6	days	EHTR
	15	09-JAN-20 15:30	15-JAN-20 13:57	5	6	days	EHTL
	16	09-JAN-20 15:00	15-JAN-20 13:57	5	6	days	EHTR
	17	09-JAN-20 12:00	16-JAN-20 18:19	5	7	days	EHTR
	18	09-JAN-20 12:00	15-JAN-20 13:57	5	6	days	EHTR
Nitrite in Water by IC							
	1	09-JAN-20 15:00	15-JAN-20 13:57	5	6	days	EHTR
	2	09-JAN-20 14:30	15-JAN-20 13:57	5	6	days	EHTR
	3	09-JAN-20 13:40	15-JAN-20 13:57	5	6	days	EHTR
	4	09-JAN-20 13:20	15-JAN-20 13:57	5	6	days	EHTR
	5	09-JAN-20 12:00	15-JAN-20 13:57	5	6	days	EHTR
	6	09-JAN-20 11:30	15-JAN-20 13:57	5	6	days	EHTR
	7	09-JAN-20 11:20	15-JAN-20 13:57	5	6	days	EHTR

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Leachable Anions & Nutrients							
Nitrite in Water by IC							
	8	09-JAN-20 10:30	15-JAN-20 13:57	5	6	days	EHTR
	9	09-JAN-20 12:00	15-JAN-20 13:57	5	6	days	EHTR
	10	09-JAN-20 12:15	15-JAN-20 13:57	5	6	days	EHTR
	11	09-JAN-20 11:40	15-JAN-20 13:57	5	6	days	EHTR
	12	09-JAN-20 11:00	15-JAN-20 13:57	5	6	days	EHTR
	13	09-JAN-20 10:15	15-JAN-20 13:57	5	6	days	EHTR
	14	09-JAN-20 09:45	15-JAN-20 13:57	5	6	days	EHTR
	15	09-JAN-20 15:30	15-JAN-20 13:57	5	6	days	EHTL
	16	09-JAN-20 15:00	15-JAN-20 13:57	5	6	days	EHTR
	17	09-JAN-20 12:00	16-JAN-20 18:19	5	7	days	EHTR
	18	09-JAN-20 12:00	15-JAN-20 13:57	5	6	days	EHTR
Anions and Nutrients							
Filtr./Pres. for carbons and nutrients							
	1	09-JAN-20 15:00	15-JAN-20 09:51	3	6	days	EHTR
	2	09-JAN-20 14:30	15-JAN-20 09:51	3	6	days	EHTR
	3	09-JAN-20 13:40	15-JAN-20 09:51	3	6	days	EHTR
	4	09-JAN-20 13:20	15-JAN-20 09:51	3	6	days	EHTR
	5	09-JAN-20 12:00	15-JAN-20 09:51	3	6	days	EHTR
	6	09-JAN-20 11:30	15-JAN-20 09:51	3	6	days	EHTR
	7	09-JAN-20 11:20	15-JAN-20 09:51	3	6	days	EHTR
	8	09-JAN-20 10:30	15-JAN-20 09:51	3	6	days	EHTR
	9	09-JAN-20 12:00	15-JAN-20 09:51	3	6	days	EHTR
	10	09-JAN-20 12:15	15-JAN-20 09:51	3	6	days	EHTR
	11	09-JAN-20 11:40	15-JAN-20 09:51	3	6	days	EHTR
	12	09-JAN-20 11:00	15-JAN-20 09:51	3	6	days	EHTR
	13	09-JAN-20 10:15	15-JAN-20 09:51	3	6	days	EHTR
	14	09-JAN-20 09:45	15-JAN-20 09:51	3	6	days	EHTR
	15	09-JAN-20 15:30	15-JAN-20 09:51	3	6	days	EHTR
	16	09-JAN-20 15:00	15-JAN-20 09:51	3	6	days	EHTR
Aggregate Organics							
Biochemical Oxygen Demand (BOD)							
	1	09-JAN-20 15:00	15-JAN-20 13:35	4	6	days	EHTR
	2	09-JAN-20 14:30	15-JAN-20 13:35	4	6	days	EHTR
	3	09-JAN-20 13:40	15-JAN-20 13:35	4	6	days	EHTR
	4	09-JAN-20 13:20	15-JAN-20 13:35	4	6	days	EHTR
	5	09-JAN-20 12:00	15-JAN-20 13:35	4	6	days	EHTR
	6	09-JAN-20 11:30	16-JAN-20 14:30	4	7	days	EHTR
	7	09-JAN-20 11:20	16-JAN-20 14:30	4	7	days	EHTR
	8	09-JAN-20 10:30	16-JAN-20 14:30	4	7	days	EHTR
	9	09-JAN-20 12:00	16-JAN-20 14:30	4	7	days	EHTR
	10	09-JAN-20 12:15	16-JAN-20 14:30	4	7	days	EHTR
	11	09-JAN-20 11:40	16-JAN-20 14:30	4	7	days	EHTR
	12	09-JAN-20 11:00	16-JAN-20 14:30	4	7	days	EHTR
	13	09-JAN-20 10:15	16-JAN-20 14:30	4	7	days	EHTR
	14	09-JAN-20 09:45	16-JAN-20 14:30	4	7	days	EHTR
	15	09-JAN-20 15:30	16-JAN-20 14:30	4	7	days	EHTR
	16	09-JAN-20 15:00	16-JAN-20 14:30	4	7	days	EHTR
	17	09-JAN-20 12:00	16-JAN-20 14:30	4	7	days	EHTR
	18	09-JAN-20 12:00	16-JAN-20 14:30	4	7	days	EHTR

Legend & Qualifier Definitions:

Quality Control Report

Workorder: L2405423

Report Date: 05-FEB-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Page 35 of 35

Contact: Amanda Jacobs

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2405423 were received on 14-JAN-20 15:15.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Your P.O. #: L2405423

Attention: Christine Paradis

ALS Laboratory Group
Environmental Div.
1081 Barton St.
Thunder Bay, ON
Canada P7B 5N3

Report Date: 2020/02/05
Report #: R6063445
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C012722

Received: 2020/01/16, 09:44

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Radium Isotopes by Alpha Spectrometry (1)	4	N/A	2020/01/29	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by BV Labs, unless otherwise agreed in writing. BV Labs is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by BV Labs, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Radium-226 results have not been corrected for blanks.



Your P.O. #: L2405423

Attention: Christine Paradis

ALS Laboratory Group
Environmental Div.
1081 Barton St.
Thunder Bay, ON
Canada P7B 5N3

Report Date: 2020/02/05
Report #: R6063445
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C012722
Received: 2020/01/16, 09:44

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Mayank Nigam, Project Manager
Email: Mayank.Nigam@bvlab.com
Phone# (905) 826-3080

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



RESULTS OF ANALYSES OF WATER

BV Labs ID		LUC000	LUC000	LUC006	LUC007		
Sampling Date		2020/01/09	2020/01/09	2020/01/09	2020/01/09		
	UNITS	L2405423-3 SW24	L2405423-3 SW24 Lab-Dup	L2405423-4 SW23	L2405423-5 SW22A	RDL	QC Batch
Radium-226	Bq/L	<0.010	<0.010	<0.010	<0.010	0.010	6557656

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate

BV Labs ID		LUC008		
Sampling Date		2020/01/09		
	UNITS	L2405423-11 SW20	RDL	QC Batch
Radium-226	Bq/L	<0.010	0.010	6557656

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C012722
Report Date: 2020/02/05

ALS Laboratory Group
Your P.O. #: L2405423

TEST SUMMARY

BV Labs ID: LUC000
Sample ID: L2405423-3 SW24
Matrix: Water

Collected: 2020/01/09
Shipped:
Received: 2020/01/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6557656	N/A	2020/01/29	Danish Samad

BV Labs ID: LUC000 Dup
Sample ID: L2405423-3 SW24
Matrix: Water

Collected: 2020/01/09
Shipped:
Received: 2020/01/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6557656	N/A	2020/01/29	Danish Samad

BV Labs ID: LUC006
Sample ID: L2405423-4 SW23
Matrix: Water

Collected: 2020/01/09
Shipped:
Received: 2020/01/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6557656	N/A	2020/01/29	Danish Samad

BV Labs ID: LUC007
Sample ID: L2405423-5 SW22A
Matrix: Water

Collected: 2020/01/09
Shipped:
Received: 2020/01/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6557656	N/A	2020/01/29	Danish Samad

BV Labs ID: LUC008
Sample ID: L2405423-11 SW20
Matrix: Water

Collected: 2020/01/09
Shipped:
Received: 2020/01/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6557656	N/A	2020/01/29	Danish Samad



BUREAU
VERITAS

BV Labs Job #: C012722
Report Date: 2020/02/05

ALS Laboratory Group
Your P.O. #: L2405423

GENERAL COMMENTS

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C012722
Report Date: 2020/02/05

ALS Laboratory Group
Your P.O. #: L2405423

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
6557656	DS2	Spiked Blank	Radium-226	2020/01/29		97	%	85 - 115
6557656	DS2	Method Blank	Radium-226	2020/01/29	<0.010		Bq/L	
6557656	DS2	RPD [LUC000-01]	Radium-226	2020/01/29	NC		%	N/A

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BUREAU
VERITAS

BV Labs Job #: C012722

Report Date: 2020/02/05

ALS Laboratory Group

Your P.O. #: L2405423

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

<original signed by>

Steven Simpson, Lab Director

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



L2405423

Chain of Custody (COC) / Analytical Request Form



Number: 14 -

Page ___ of ___

Canada Toll Free: 1 800 668 9878

L2405423-COFC

Report To				Report Format / Distribution				Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)																			
Company: New Gold Inc. Rainy River Project				Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel <input checked="" type="checkbox"/> EDD (Digital)				<input checked="" type="checkbox"/> R Regular (Standard TAT if received by 3pm - business days)																			
Contact: Amanda Jacobs / Carolyn Winik				Quality Control (QC) Report with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> P Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT																			
Address: 24 Marr Rd.				<input type="checkbox"/> Criteria on Report - provide details below if box checked				<input type="checkbox"/> E Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT																			
City/Province: Barwick ON				Select Distribution: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail <input type="checkbox"/> Fax				<input type="checkbox"/> E2 Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT																			
Postal Code: POW 1A0				Email 1 or Fax: rainyriver.labresults@newgold.com				Date and Time Required for all E&P TATs:																			
Phone: 807-482-0900 x8076 or x8046														For tests that can not be performed according to the service level selected, you will be contacted.													
				Email 2 yag.inviron@newgold.com				Analysis Request																			
Invoice To Same as Report ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Invoice Distribution				Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below																			
Copy of Invoice with Report? <input type="checkbox"/> Yes <input type="checkbox"/> No				Select Invoice Distribution: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail <input type="checkbox"/> Fax																							
Company:				Email 1 or Fax: rainyriver.labresults@newgold.com				pH, TSS, NH3, Unionized NH3, Hardness			NO2, NO3, SO4, Chloride, Conductivity, Alkalinity	Acidity, BOD, COD, Colour, TOC, DOC	Fluoride, OGC, PO4, TDS, Turbidity	Total and Dissolved Metals	Total and Dissolved Mercury	Free Cyanide, Total Cyanide, WAD Cyanide	Ra226 (SW20 and SW22A only)										Number of Containers
Contact:				Email 2:																							
Project Information				Oil and Gas Required Fields (client use)																							
ALS Quote #:				Approver ID:		Cost Center:																					
Job #: Surface Water				GL Account:		Routing Code:																					
PO / AFE: 4500018623				Activity Code:																							
LSD:				Location:																							
ALS Lab Work Order # (lab use only)				ALS Contact: Kyle Watkins		Sampler:																					
Sample Ref (upload EDD)	Sample Identification and/or Coordinates <small>(Description will appear on the report)</small>	Temp	Field pH	Field DO (mg/L)	Date (dd-MMM-yy)	Time (hh:mm)	Sample Type																				
123438	SW17	0	6.53	13.74	09-Jan-20	03:00	Water	x	x	x	x	x	x	x	x												
123439	SW15	0.19	6.55	4.06	09-Jan-20	02:30	Water	x	x	x	x	x	x	x													
123440	SW24	0	7.06	12.61	09-Jan-20	01:40	Water	x	x	x	x	x	x	x	x												
123441	SW23	0	6.81	5.53	09-Jan-20	01:20	Water	x	x	x	x	x	x	x	x												

5



L2405423-COFC

123442	SW22A	0	7.29	4.02	09-Jan-20	12:00	Water	x	x	x	x	x	x	x	x	x						
123443	SW27	0	7.51	9.62	09-Jan-20	11:30	Water	x	x	x	x	x	x	x								
123444	SW21A	0.15	6.61	6.73	09-Jan-20	11:20	Water	x	x	x	x	x	x									
123445	SW29	1.38	6.02	17.47	09-Jan-20	10:30	Water	x	x	x	x	x	x									
123446	SW06	1.38	6.02	17.5	09-Jan-20	12:00	Water	x	x	x	x	x	x									
123447	SW25	-0.29	7.63	25.37	09-Jan-20	12:15	Water	x	x	x	x	x	x									
123448	SW20	-0.29	7.62	22.46	09-Jan-20	11:40	Water	x	x	x	x	x	x	x								
123449	SW28A	-0.2	7.73	17.91	09-Jan-20	11:00	Water	x	x	x	x	x	x									
123450	SW10	-0.29	7.4	27.01	09-Jan-20	10:15	Water	x	x	x	x	x	x									
123451	SW03	-0.28	6.99	32.18	09-Jan-20	09:45	Water	x	x	x	x	x	x									
123452	SW26	-0.28	6.75	23.95	08-Jan-20	03:30	Water	x	x	x	x	x	x									
123453	SW02	-0.26	6.63	27.01	08-Jan-20	03:00	Water	x	x	x	x	x	x									
123454	Field Blank - Surface Water				09-Jan-20	12:00	Water	x	x	x	x	x	x									
123455	Travel Blank - Surface Water				09-Jan-20	12:00	Water	x	x	x	x	x	x									

Drinking Water (DW) Samples (client use)			Special Instructions / Specify Criteria to add on report (client Use)			SAMPLE CONDITION AS RECEIVED (lab use only)		
Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			MISA [Template NGSWMISA] Did not field filter or add preservatives to the total metal, dissolved metals and dissolved mercury.			Frozen <input type="checkbox"/> SIF Observations <input type="checkbox"/> Yes <input type="checkbox"/> No		
Are samples for human drinking water use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						Ice packs <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody seal intact <input type="checkbox"/> Yes <input type="checkbox"/> No		
						Cooling Initiated <input checked="" type="checkbox"/>		
						INITIAL COOLER TEMPERATURES °C		FINAL COOLER TEMPERATURES °C
						3.4		
SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:		Date:	Time:	Received by:		Date:	Time:	Received by:
<original signed by>		020-1-13	10:00am			Jan 14/2020	8:15	

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NA-FM-0326e v09 Front/04 January 2014

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

y

Client:

New Gold



L2405423-COFC

Sample Layout Verification:

Verified By: [Signature] Date: Jan 14/2020 Time: 3:55

Sample Integrity Iss: Enter information on back page

Labels Verification:

Verified By: [Signature]

Do any samples require prep?

NO P F/P

Sample #:

12 35 610 11 1278

1L	Plastic																
500mL	Plastic																
250mL	Plastic																
145mL	Plastic																
60mL	Plastic																
Micro																	
Toxicity Pail																	
1L	Glass																
500mL	Glass																
250mL	Glass																
120mL	Glass																
60mL	Glass																
40mL	Vial (Glass)																
40mL	Methanol Vials																
Soil Jar (120, 250 or 500mL)																	
Other:																	
Other:																	
Total Number of Bottles		12	13	12	13	12											


Trip/Travel/Field Blank Information

Solids Batch#: 415	Metals Batch#: T: 418 D: 419
Routine Batch#: 415	Mercury Batch#: T: 419 D: 419
BOD Batch#: 414	Cyanide Batch#: T: D:
Nutrients Batch#: 417	OGG Batch#:
DOC/Carbon Batch#: 416	Phenols Batch#:
VOC Batch#:	
Other:	CN - 104855

+ 0625

COOLER TRACKING

EPP	Coleman
Small	Micro (5QT)
Med	Sm(9QT)
Lrg	Med(16QT)
Micro Box	Lrg(28QT)
	Lrg(48QT)



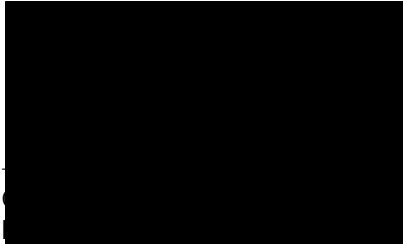
New Gold Inc. Rainy River Project
ATTN: Amanda Jacobs
24 Marr Rd
Barwick ON POW 1A0

Date Received: 10-FEB-20
Report Date: 28-FEB-20 14:32 (MT)
Version: FINAL

Client Phone: 807-482-0931

Certificate of Analysis

Lab Work Order #: L2415374
Project P.O. #: 4500038941
Job Reference: SURFACE WATER
C of C Numbers:
Legal Site Desc:



[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3, Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598



ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-1 FIELD BLANK - SURFACE WATER Sampled By: NB/PR/MW/KL on 06-FEB-20 @ 12:00 Matrix: Water							
Physical Tests							
Color, True	<2.0		2.0	CU		11-FEB-20	R4993875
Conductivity (EC)	1.0	<DL	1.0	uS/cm		13-FEB-20	R4996455
Hardness (as CaCO3)	<0.51		0.51	mg/L		18-FEB-20	
pH	4.91		0.10	pH		12-FEB-20	R4995781
Total Suspended Solids	<0.5	<W	2.0	mg/L		11-FEB-20	R4995114
Total Dissolved Solids	2	<DL	10	mg/L		11-FEB-20	R4995442
Turbidity	0.18		0.10	NTU		12-FEB-20	R4995514
Anions and Nutrients							
Acidity (as CaCO3)	0.8	<DL	2.0	mg/L		14-FEB-20	R4997017
Alkalinity, Total (as CaCO3)	<0.2	<W	2.0	mg/L		12-FEB-20	R4995781
Ammonia, Total (as N)	<0.002	<W	0.020	mg/L		12-FEB-20	R4995298
Chloride (Cl)	<0.10		0.10	mg/L		11-FEB-20	R4994946
Fluoride (F)	0.031	RRV	0.020	mg/L		12-FEB-20	R4995751
Nitrate (as N)	<0.001	<W	0.020	mg/L		11-FEB-20	R4994946
Nitrite (as N)	<0.0005	<W	0.010	mg/L		11-FEB-20	R4994946
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		11-FEB-20	R4993667
Sulfate (SO4)	<0.02	<W	0.30	mg/L		11-FEB-20	R4994946
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Total	0.0004	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Free	0.0002	<DL	0.0020	mg/L		12-FEB-20	R4996271
Organic / Inorganic Carbon							
Dissolved Organic Carbon	0.3	<DL	0.50	mg/L		13-FEB-20	R4996401
Total Organic Carbon	<0.50		0.50	mg/L		13-FEB-20	R4996398
Total Metals							
Aluminum (Al)-Total	0.0004	<DL	0.0050	mg/L		12-FEB-20	R4995872
Antimony (Sb)-Total	<0.00002	<W	0.00060	mg/L		12-FEB-20	R4995872
Arsenic (As)-Total	<0.00001	<W	0.0010	mg/L		12-FEB-20	R4995872
Barium (Ba)-Total	<0.00001	<W	0.010	mg/L		12-FEB-20	R4995872
Beryllium (Be)-Total	<0.000001	<W	0.0010	mg/L		12-FEB-20	R4995872
Bismuth (Bi)-Total	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995872
Boron (B)-Total	<0.0005	<W	0.050	mg/L		12-FEB-20	R4995872
Cadmium (Cd)-Total	0.000002	<DL	0.000017	mg/L		12-FEB-20	R4995872
Calcium (Ca)-Total	0.034	<DL	0.20	mg/L		12-FEB-20	R4995872
Cesium (Cs)-Total	0.0000005	<DL	0.000010	mg/L		12-FEB-20	R4995872
Chromium (Cr)-Total	0.00006	<DL	0.0010	mg/L		12-FEB-20	R4995872
Cobalt (Co)-Total	<0.000001	<W	0.00050	mg/L		12-FEB-20	R4995872
Copper (Cu)-Total	0.00014	<DL	0.0010	mg/L		12-FEB-20	R4995872
Iron (Fe)-Total	<0.0005	<W	0.020	mg/L		12-FEB-20	R4995872
Lead (Pb)-Total	0.000010	<DL	0.000050	mg/L		12-FEB-20	R4995872
Lithium (Li)-Total	<0.0002	<W	0.050	mg/L		12-FEB-20	R4995872
Magnesium (Mg)-Total	0.0010	<DL	0.020	mg/L		12-FEB-20	R4995872

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-1 FIELD BLANK - SURFACE WATER Sampled By: NB/PR/MW/KL on 06-FEB-20 @ 12:00 Matrix: Water							
Total Metals							
Manganese (Mn)-Total	0.00002	<DL	0.0010	mg/L		12-FEB-20	R4995872
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996032
Molybdenum (Mo)-Total	0.000010	<DL	0.0010	mg/L		12-FEB-20	R4995872
Nickel (Ni)-Total	<0.00002	<W	0.0020	mg/L		12-FEB-20	R4995872
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		12-FEB-20	R4995872
Potassium (K)-Total	<0.005	<W	0.50	mg/L		12-FEB-20	R4995872
Rubidium (Rb)-Total	0.000004	<DL	0.00020	mg/L		12-FEB-20	R4995872
Selenium (Se)-Total	<0.000005	<W	0.000050	mg/L		12-FEB-20	R4995872
Silicon (Si)-Total	0.018	<DL	0.10	mg/L		12-FEB-20	R4995872
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		12-FEB-20	R4995872
Sodium (Na)-Total	0.03	<DL	0.10	mg/L		12-FEB-20	R4995872
Strontium (Sr)-Total	0.00006	<DL	0.0010	mg/L		12-FEB-20	R4995872
Sulfur (S)-Total	<0.1	<W	0.50	mg/L		12-FEB-20	R4995872
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		12-FEB-20	R4995872
Thallium (Tl)-Total	<0.0000002	<W	0.00030	mg/L		12-FEB-20	R4995872
Thorium (Th)-Total	0.000003	<DL	0.00010	mg/L		12-FEB-20	R4995872
Tin (Sn)-Total	0.00016	<DL	0.0010	mg/L		12-FEB-20	R4995872
Titanium (Ti)-Total	<0.00002	<W	0.0020	mg/L		12-FEB-20	R4995872
Tungsten (W)-Total	<0.000002	<W	0.010	mg/L		12-FEB-20	R4995872
Uranium (U)-Total	<0.000005	<W	0.0050	mg/L		12-FEB-20	R4995872
Vanadium (V)-Total	<0.00005	<W	0.0010	mg/L		12-FEB-20	R4995872
Zinc (Zn)-Total	<0.0002	<W	0.0030	mg/L		12-FEB-20	R4995872
Zirconium (Zr)-Total	0.000004	<DL	0.0010	mg/L		12-FEB-20	R4995872
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					14-FEB-20	R4996795
Aluminum (Al)-Dissolved	0.0002	<DL	0.0050	mg/L		14-FEB-20	R4997530
Antimony (Sb)-Dissolved	<0.000005	<W	0.00060	mg/L		14-FEB-20	R4997530
Arsenic (As)-Dissolved	<0.000005	<W	0.0010	mg/L		14-FEB-20	R4997530
Barium (Ba)-Dissolved	0.000025	<DL	0.010	mg/L		14-FEB-20	R4997530
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		14-FEB-20	R4997530
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		14-FEB-20	R4997530
Boron (B)-Dissolved	<0.0005	<W	0.050	mg/L		14-FEB-20	R4997530
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		14-FEB-20	R4997530
Calcium (Ca)-Dissolved	0.030	<DL	0.20	mg/L		14-FEB-20	R4997530
Cesium (Cs)-Dissolved	0.0000005	<DL	0.000010	mg/L		14-FEB-20	R4997530
Chromium (Cr)-Dissolved	<0.00002	<W	0.0010	mg/L		14-FEB-20	R4997530
Cobalt (Co)-Dissolved	<0.000001	<W	0.00050	mg/L		14-FEB-20	R4997530
Copper (Cu)-Dissolved	0.00004	<DL	0.0010	mg/L		14-FEB-20	R4997530
Iron (Fe)-Dissolved	<0.0002	<W	0.020	mg/L		14-FEB-20	R4997530
Lead (Pb)-Dissolved	<0.000005	<W	0.000050	mg/L		14-FEB-20	R4997530
Lithium (Li)-Dissolved	<0.0002	<W	0.050	mg/L		14-FEB-20	R4997530

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-1 FIELD BLANK - SURFACE WATER Sampled By: NB/PR/MW/KL on 06-FEB-20 @ 12:00 Matrix: Water							
Dissolved Metals							
Magnesium (Mg)-Dissolved	<0.0005	<W	0.020	mg/L		14-FEB-20	R4997530
Manganese (Mn)-Dissolved	<0.00002	<W	0.0010	mg/L		14-FEB-20	R4997530
Mercury (Hg)-Dissolved	0.000005	<DL	0.000030	mg/L		13-FEB-20	R4996059
Molybdenum (Mo)-Dissolved	<0.000002	<W	0.0010	mg/L		14-FEB-20	R4997530
Nickel (Ni)-Dissolved	<0.00002	<W	0.0020	mg/L		14-FEB-20	R4997530
Phosphorus (P)-Dissolved	<0.002	<W	0.050	mg/L		14-FEB-20	R4997530
Potassium (K)-Dissolved	<0.005	<W	0.50	mg/L		14-FEB-20	R4997530
Rubidium (Rb)-Dissolved	0.000004	<DL	0.00020	mg/L		14-FEB-20	R4997530
Selenium (Se)-Dissolved	<0.000005	<W	0.000050	mg/L		14-FEB-20	R4997530
Silicon (Si)-Dissolved	0.013	<DL	0.050	mg/L		14-FEB-20	R4997530
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		14-FEB-20	R4997530
Sodium (Na)-Dissolved	0.030	<DL	0.10	mg/L		14-FEB-20	R4997530
Strontium (Sr)-Dissolved	0.000040	<DL	0.0010	mg/L		14-FEB-20	R4997530
Sulfur (S)-Dissolved	<0.1	<W	0.50	mg/L		14-FEB-20	R4997530
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		14-FEB-20	R4997530
Thallium (Tl)-Dissolved	<0.0000001	<W	0.00030	mg/L		14-FEB-20	R4997530
Thorium (Th)-Dissolved	<0.000002	<W	0.00010	mg/L		14-FEB-20	R4997530
Tin (Sn)-Dissolved	0.000060	<DL	0.0010	mg/L		14-FEB-20	R4997530
Titanium (Ti)-Dissolved	<0.00002	<W	0.0020	mg/L		14-FEB-20	R4997530
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		14-FEB-20	R4997530
Uranium (U)-Dissolved	<0.0000002	<W	0.0050	mg/L		14-FEB-20	R4997530
Vanadium (V)-Dissolved	<0.00002	<W	0.0010	mg/L		14-FEB-20	R4997530
Zinc (Zn)-Dissolved	<0.0002	<W	0.0030	mg/L		14-FEB-20	R4997530
Zirconium (Zr)-Dissolved	<0.000002	<W	0.0010	mg/L		14-FEB-20	R4997530
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		11-FEB-20	R4997285
Chemical Oxygen Demand	<20		20	mg/L		11-FEB-20	R4993747
Oil and Grease, Total	0.6	<DL	1.0	mg/L	13-FEB-20	13-FEB-20	R4995905
L2415374-2 SW02 Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 16:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	5.97		0	mg/L		13-FEB-20	R4995868
pH, Client Supplied	7.11		0.10	pH		13-FEB-20	R4995868
Temperature, Client Supplied	0		0	Degree C		13-FEB-20	R4995868
Physical Tests							
Color, True	141		2.0	CU		11-FEB-20	R4993875
Conductivity (EC)	154		1.0	uS/cm		12-FEB-20	R4995781
Hardness (as CaCO3)	91.5		0.51	mg/L		13-FEB-20	
pH	7.15		0.10	pH		12-FEB-20	R4995781
Total Suspended Solids	1.0	<DL	2.0	mg/L		11-FEB-20	R4995114
Total Dissolved Solids	146		13	mg/L		11-FEB-20	R4995442

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-2 SW02 Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 16:00 Matrix: Water							
Physical Tests							
Turbidity	1.25		0.10	NTU		12-FEB-20	R4995514
Anions and Nutrients							
Acidity (as CaCO ₃)	6.2		2.0	mg/L		14-FEB-20	R4997017
Alkalinity, Total (as CaCO ₃)	82.8		2.0	mg/L		12-FEB-20	R4995781
Ammonia, Total (as N)	0.178	<T	0.020	mg/L		12-FEB-20	R4995298
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		13-FEB-20	
Chloride (Cl)	0.57		0.10	mg/L		11-FEB-20	R4994946
Fluoride (F)	<0.020		0.020	mg/L		11-FEB-20	R4994946
Nitrate (as N)	0.014	<DL	0.020	mg/L		11-FEB-20	R4994946
Nitrite (as N)	0.0040	<DL	0.010	mg/L		11-FEB-20	R4994946
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		11-FEB-20	R4993667
Sulfate (SO ₄)	0.52	<T	0.30	mg/L		11-FEB-20	R4994946
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Total	0.0008	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Free	0.0010	<DL	0.0020	mg/L		12-FEB-20	R4996271
Organic / Inorganic Carbon							
Dissolved Organic Carbon	34.0		0.50	mg/L		12-FEB-20	R4995763
Total Organic Carbon	34.2		0.50	mg/L		12-FEB-20	R4995758
Total Metals							
Aluminum (Al)-Total	0.0738		0.0050	mg/L		12-FEB-20	R4995872
Antimony (Sb)-Total	<0.00002	<W	0.00060	mg/L		12-FEB-20	R4995872
Arsenic (As)-Total	0.00055	<DL	0.0010	mg/L		12-FEB-20	R4995872
Barium (Ba)-Total	0.0115		0.010	mg/L		12-FEB-20	R4995872
Beryllium (Be)-Total	0.000005	<DL	0.0010	mg/L		12-FEB-20	R4995872
Bismuth (Bi)-Total	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995872
Boron (B)-Total	0.0040	<DL	0.050	mg/L		12-FEB-20	R4995872
Cadmium (Cd)-Total	0.000007	<DL	0.000017	mg/L		12-FEB-20	R4995872
Calcium (Ca)-Total	22.2		0.20	mg/L		12-FEB-20	R4995872
Cesium (Cs)-Total	0.0000100		0.000010	mg/L		12-FEB-20	R4995872
Chromium (Cr)-Total	0.00032	<DL	0.0010	mg/L		12-FEB-20	R4995872
Cobalt (Co)-Total	0.000572	<T	0.00050	mg/L		12-FEB-20	R4995872
Copper (Cu)-Total	0.00024	<DL	0.0010	mg/L		12-FEB-20	R4995872
Iron (Fe)-Total	0.708		0.020	mg/L		12-FEB-20	R4995872
Lead (Pb)-Total	0.000130	<T	0.000050	mg/L		12-FEB-20	R4995872
Lithium (Li)-Total	0.0020	<DL	0.050	mg/L		12-FEB-20	R4995872
Magnesium (Mg)-Total	9.28		0.020	mg/L		12-FEB-20	R4995872
Manganese (Mn)-Total	0.206		0.0010	mg/L		12-FEB-20	R4995872
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996032
Molybdenum (Mo)-Total	0.000055	<DL	0.0010	mg/L		12-FEB-20	R4995872
Nickel (Ni)-Total	0.00062	<DL	0.0020	mg/L		12-FEB-20	R4995872
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		12-FEB-20	R4995872

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-2 SW02							
Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 16:00							
Matrix: Water							
Total Metals							
Potassium (K)-Total	0.455	<DL	0.50	mg/L		12-FEB-20	R4995872
Rubidium (Rb)-Total	0.00122		0.00020	mg/L		12-FEB-20	R4995872
Selenium (Se)-Total	0.000110	<T	0.000050	mg/L		12-FEB-20	R4995872
Silicon (Si)-Total	7.26		0.10	mg/L		12-FEB-20	R4995872
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		12-FEB-20	R4995872
Sodium (Na)-Total	1.35		0.10	mg/L		12-FEB-20	R4995872
Strontium (Sr)-Total	0.0365		0.0010	mg/L		12-FEB-20	R4995872
Sulfur (S)-Total	0.1	<DL	0.50	mg/L		12-FEB-20	R4995872
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		12-FEB-20	R4995872
Thallium (Tl)-Total	0.0000030	<DL	0.00030	mg/L		12-FEB-20	R4995872
Thorium (Th)-Total	0.000021	<DL	0.00010	mg/L		12-FEB-20	R4995872
Tin (Sn)-Total	0.00003	<DL	0.0010	mg/L		12-FEB-20	R4995872
Titanium (Ti)-Total	0.00172	<DL	0.0020	mg/L		12-FEB-20	R4995872
Tungsten (W)-Total	<0.000002	<W	0.010	mg/L		12-FEB-20	R4995872
Uranium (U)-Total	0.000045	<DL	0.0050	mg/L		12-FEB-20	R4995872
Vanadium (V)-Total	0.00030	<DL	0.0010	mg/L		12-FEB-20	R4995872
Zinc (Zn)-Total	0.0014	<DL	0.0030	mg/L		12-FEB-20	R4995872
Zirconium (Zr)-Total	0.000152	<DL	0.0010	mg/L		12-FEB-20	R4995872
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					12-FEB-20	R4995501
Aluminum (Al)-Dissolved	0.0416		0.0050	mg/L		12-FEB-20	R4995894
Antimony (Sb)-Dissolved	0.000030	<DL	0.00060	mg/L		12-FEB-20	R4995894
Arsenic (As)-Dissolved	0.000535	<DL	0.0010	mg/L		12-FEB-20	R4995894
Barium (Ba)-Dissolved	0.0109		0.010	mg/L		12-FEB-20	R4995894
Beryllium (Be)-Dissolved	0.000004	<DL	0.0010	mg/L		12-FEB-20	R4995894
Bismuth (Bi)-Dissolved	0.000004	<DL	0.0010	mg/L		12-FEB-20	R4995894
Boron (B)-Dissolved	0.0040	<DL	0.050	mg/L		12-FEB-20	R4995894
Cadmium (Cd)-Dissolved	0.0000035	<DL	0.000017	mg/L		12-FEB-20	R4995894
Calcium (Ca)-Dissolved	21.7		0.20	mg/L		12-FEB-20	R4995894
Cesium (Cs)-Dissolved	0.0000025	<DL	0.000010	mg/L		12-FEB-20	R4995894
Chromium (Cr)-Dissolved	0.00018	<DL	0.0010	mg/L		12-FEB-20	R4995894
Cobalt (Co)-Dissolved	0.000499	<DL	0.00050	mg/L		12-FEB-20	R4995894
Copper (Cu)-Dissolved	0.00020	<DL	0.0010	mg/L		12-FEB-20	R4995894
Iron (Fe)-Dissolved	0.570		0.020	mg/L		12-FEB-20	R4995894
Lead (Pb)-Dissolved	0.000060	<T	0.000050	mg/L		12-FEB-20	R4995894
Lithium (Li)-Dissolved	0.0020	<DL	0.050	mg/L		12-FEB-20	R4995894
Magnesium (Mg)-Dissolved	9.05		0.020	mg/L		12-FEB-20	R4995894
Manganese (Mn)-Dissolved	0.190		0.0010	mg/L		12-FEB-20	R4995894
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996059
Molybdenum (Mo)-Dissolved	0.000050	<DL	0.0010	mg/L		12-FEB-20	R4995894
Nickel (Ni)-Dissolved	0.00054	<DL	0.0020	mg/L		12-FEB-20	R4995894

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-2 SW02 Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 16:00 Matrix: Water							
Dissolved Metals							
Phosphorus (P)-Dissolved	<0.002	<W	0.050	mg/L		12-FEB-20	R4995894
Potassium (K)-Dissolved	0.455	<DL	0.50	mg/L		12-FEB-20	R4995894
Rubidium (Rb)-Dissolved	0.00124		0.00020	mg/L		12-FEB-20	R4995894
Selenium (Se)-Dissolved	0.000140	<T	0.000050	mg/L		12-FEB-20	R4995894
Silicon (Si)-Dissolved	7.37		0.050	mg/L		12-FEB-20	R4995894
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		12-FEB-20	R4995894
Sodium (Na)-Dissolved	1.41		0.10	mg/L		12-FEB-20	R4995894
Strontium (Sr)-Dissolved	0.0352		0.0010	mg/L		12-FEB-20	R4995894
Sulfur (S)-Dissolved	<0.1	<W	0.50	mg/L		12-FEB-20	R4995894
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		12-FEB-20	R4995894
Thallium (Tl)-Dissolved	0.0000029	<DL	0.00030	mg/L		12-FEB-20	R4995894
Thorium (Th)-Dissolved	0.000018	<DL	0.00010	mg/L		12-FEB-20	R4995894
Tin (Sn)-Dissolved	0.000065	<DL	0.0010	mg/L		12-FEB-20	R4995894
Titanium (Ti)-Dissolved	0.00080	<DL	0.0020	mg/L		12-FEB-20	R4995894
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		12-FEB-20	R4995894
Uranium (U)-Dissolved	0.0000390	<DL	0.0050	mg/L		12-FEB-20	R4995894
Vanadium (V)-Dissolved	0.00016	<DL	0.0010	mg/L		12-FEB-20	R4995894
Zinc (Zn)-Dissolved	0.0026	<DL	0.0030	mg/L		12-FEB-20	R4995894
Zirconium (Zr)-Dissolved	0.000152	<DL	0.0010	mg/L		12-FEB-20	R4995894
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		11-FEB-20	R4997285
Chemical Oxygen Demand	85		20	mg/L		11-FEB-20	R4993747
Oil and Grease, Total	0.4	<DL	1.0	mg/L	13-FEB-20	13-FEB-20	R4995905
L2415374-3 SW03 Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 09:55 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	11.1		0	mg/L		13-FEB-20	R4995868
pH, Client Supplied	6.8		0.10	pH		13-FEB-20	R4995868
Temperature, Client Supplied	.51		0	Degree C		13-FEB-20	R4995972
Physical Tests							
Color, True	99.2		2.0	CU		11-FEB-20	R4993875
Conductivity (EC)	378		1.0	uS/cm		12-FEB-20	R4995781
Hardness (as CaCO3)	201		0.51	mg/L		13-FEB-20	
pH	7.48		0.10	pH		12-FEB-20	R4995781
Total Suspended Solids	15.0		2.0	mg/L		11-FEB-20	R4995114
Total Dissolved Solids	262		20	mg/L		11-FEB-20	R4995442
Turbidity	17.4		0.10	NTU		12-FEB-20	R4995514
Anions and Nutrients							
Acidity (as CaCO3)	9.0		2.0	mg/L		14-FEB-20	R4997017
Alkalinity, Total (as CaCO3)	190		2.0	mg/L		12-FEB-20	R4995781
Ammonia, Total (as N)	0.068	<T	0.020	mg/L		12-FEB-20	R4995298

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-3 SW03							
Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 09:55							
Matrix: Water							
Anions and Nutrients							
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		13-FEB-20	
Chloride (Cl)	10.1		0.10	mg/L		11-FEB-20	R4994946
Fluoride (F)	0.071		0.020	mg/L		11-FEB-20	R4994946
Nitrate (as N)	0.081	<T	0.020	mg/L		11-FEB-20	R4994946
Nitrite (as N)	0.0020	<DL	0.010	mg/L		11-FEB-20	R4994946
Orthophosphate-Dissolved (as P)	0.0403		0.0030	mg/L		11-FEB-20	R4993667
Sulfate (SO4)	5.76		0.30	mg/L		11-FEB-20	R4994946
Cyanides							
Cyanide, Weak Acid Diss	0.0006	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Total	0.0016	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Free	0.0008	<DL	0.0020	mg/L		12-FEB-20	R4996271
Organic / Inorganic Carbon							
Dissolved Organic Carbon	29.8		0.50	mg/L		12-FEB-20	R4995763
Total Organic Carbon	39.9		0.50	mg/L		12-FEB-20	R4995758
Total Metals							
Aluminum (Al)-Total	0.354		0.0050	mg/L		12-FEB-20	R4995872
Antimony (Sb)-Total	0.00004	<DL	0.00060	mg/L		12-FEB-20	R4995872
Arsenic (As)-Total	0.00104	<T	0.0010	mg/L		12-FEB-20	R4995872
Barium (Ba)-Total	0.0217		0.010	mg/L		12-FEB-20	R4995872
Beryllium (Be)-Total	0.000030	<DL	0.0010	mg/L		12-FEB-20	R4995872
Bismuth (Bi)-Total	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995872
Boron (B)-Total	0.0125	<DL	0.050	mg/L		12-FEB-20	R4995872
Cadmium (Cd)-Total	0.000021	<T	0.000017	mg/L		12-FEB-20	R4995872
Calcium (Ca)-Total	50.2		0.20	mg/L		12-FEB-20	R4995872
Cesium (Cs)-Total	0.0000475		0.000010	mg/L		12-FEB-20	R4995872
Chromium (Cr)-Total	0.00102		0.0010	mg/L		12-FEB-20	R4995872
Cobalt (Co)-Total	0.000699	<T	0.00050	mg/L		12-FEB-20	R4995872
Copper (Cu)-Total	0.00158	<T	0.0010	mg/L		12-FEB-20	R4995872
Iron (Fe)-Total	1.46		0.020	mg/L		12-FEB-20	R4995872
Lead (Pb)-Total	0.000400	<T	0.000050	mg/L		12-FEB-20	R4995872
Lithium (Li)-Total	0.0060	<DL	0.050	mg/L		12-FEB-20	R4995872
Magnesium (Mg)-Total	20.3		0.020	mg/L		12-FEB-20	R4995872
Manganese (Mn)-Total	0.271		0.0010	mg/L		12-FEB-20	R4995872
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		13-FEB-20	R4996032
Molybdenum (Mo)-Total	0.000330	<DL	0.0010	mg/L		12-FEB-20	R4995872
Nickel (Ni)-Total	0.00242	<T	0.0020	mg/L		12-FEB-20	R4995872
Phosphorus (P)-Total	0.075		0.050	mg/L		12-FEB-20	R4995872
Potassium (K)-Total	1.78		0.50	mg/L		12-FEB-20	R4995872
Rubidium (Rb)-Total	0.00198		0.00020	mg/L		12-FEB-20	R4995872
Selenium (Se)-Total	0.000190	<T	0.000050	mg/L		12-FEB-20	R4995872
Silicon (Si)-Total	7.83		0.10	mg/L		12-FEB-20	R4995872
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		12-FEB-20	R4995872

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-3 SW03							
Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 09:55							
Matrix: Water							
Total Metals							
Sodium (Na)-Total	5.99		0.10	mg/L		12-FEB-20	R4995872
Strontium (Sr)-Total	0.117		0.0010	mg/L		12-FEB-20	R4995872
Sulfur (S)-Total	2.2		0.50	mg/L		12-FEB-20	R4995872
Tellurium (Te)-Total	0.00001	<DL	0.0010	mg/L		12-FEB-20	R4995872
Thallium (Tl)-Total	0.0000058	<DL	0.00030	mg/L		12-FEB-20	R4995872
Thorium (Th)-Total	0.000103		0.00010	mg/L		12-FEB-20	R4995872
Tin (Sn)-Total	0.00027	<DL	0.0010	mg/L		12-FEB-20	R4995872
Titanium (Ti)-Total	0.0114		0.0020	mg/L		12-FEB-20	R4995872
Tungsten (W)-Total	0.000004	<DL	0.010	mg/L		12-FEB-20	R4995872
Uranium (U)-Total	0.00126	<DL	0.0050	mg/L		12-FEB-20	R4995872
Vanadium (V)-Total	0.00160	<T	0.0010	mg/L		12-FEB-20	R4995872
Zinc (Zn)-Total	0.0066	<T	0.0030	mg/L		12-FEB-20	R4995872
Zirconium (Zr)-Total	0.000740	<DL	0.0010	mg/L		12-FEB-20	R4995872
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					12-FEB-20	R4995501
Aluminum (Al)-Dissolved	0.0216	<T	0.0050	mg/L		12-FEB-20	R4995894
Antimony (Sb)-Dissolved	0.000060	<DL	0.00060	mg/L		12-FEB-20	R4995894
Arsenic (As)-Dissolved	0.000880	<DL	0.0010	mg/L		12-FEB-20	R4995894
Barium (Ba)-Dissolved	0.0182		0.010	mg/L		12-FEB-20	R4995894
Beryllium (Be)-Dissolved	0.000012	<DL	0.0010	mg/L		12-FEB-20	R4995894
Bismuth (Bi)-Dissolved	0.000002	<DL	0.0010	mg/L		12-FEB-20	R4995894
Boron (B)-Dissolved	0.0105	<DL	0.050	mg/L		12-FEB-20	R4995894
Cadmium (Cd)-Dissolved	0.0000090	<DL	0.000017	mg/L		12-FEB-20	R4995894
Calcium (Ca)-Dissolved	46.3		0.20	mg/L		12-FEB-20	R4995894
Cesium (Cs)-Dissolved	0.0000005	<DL	0.000010	mg/L		12-FEB-20	R4995894
Chromium (Cr)-Dissolved	0.00038	<DL	0.0010	mg/L		12-FEB-20	R4995894
Cobalt (Co)-Dissolved	0.000448	<DL	0.00050	mg/L		12-FEB-20	R4995894
Copper (Cu)-Dissolved	0.00120	<T	0.0010	mg/L		12-FEB-20	R4995894
Iron (Fe)-Dissolved	0.749		0.020	mg/L		12-FEB-20	R4995894
Lead (Pb)-Dissolved	0.000145	<T	0.000050	mg/L		12-FEB-20	R4995894
Lithium (Li)-Dissolved	0.0058	<DL	0.050	mg/L		12-FEB-20	R4995894
Magnesium (Mg)-Dissolved	20.8		0.020	mg/L		12-FEB-20	R4995894
Manganese (Mn)-Dissolved	0.220		0.0010	mg/L		12-FEB-20	R4995894
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996059
Molybdenum (Mo)-Dissolved	0.000318	<DL	0.0010	mg/L		12-FEB-20	R4995894
Nickel (Ni)-Dissolved	0.00198	<DL	0.0020	mg/L		12-FEB-20	R4995894
Phosphorus (P)-Dissolved	0.048	<DL	0.050	mg/L		12-FEB-20	R4995894
Potassium (K)-Dissolved	1.79		0.50	mg/L		12-FEB-20	R4995894
Rubidium (Rb)-Dissolved	0.00125		0.00020	mg/L		12-FEB-20	R4995894
Selenium (Se)-Dissolved	0.000190	<T	0.000050	mg/L		12-FEB-20	R4995894
Silicon (Si)-Dissolved	7.15		0.050	mg/L		12-FEB-20	R4995894

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-3 SW03 Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 09:55 Matrix: Water							
Dissolved Metals							
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		12-FEB-20	R4995894
Sodium (Na)-Dissolved	6.16		0.10	mg/L		12-FEB-20	R4995894
Strontium (Sr)-Dissolved	0.110		0.0010	mg/L		12-FEB-20	R4995894
Sulfur (S)-Dissolved	2.3		0.50	mg/L		12-FEB-20	R4995894
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		12-FEB-20	R4995894
Thallium (Tl)-Dissolved	0.0000004	<DL	0.00030	mg/L		12-FEB-20	R4995894
Thorium (Th)-Dissolved	0.000056	<DL	0.00010	mg/L		12-FEB-20	R4995894
Tin (Sn)-Dissolved	0.000010	<DL	0.0010	mg/L		12-FEB-20	R4995894
Titanium (Ti)-Dissolved	0.00270		0.0020	mg/L		12-FEB-20	R4995894
Tungsten (W)-Dissolved	0.000004	<DL	0.010	mg/L		12-FEB-20	R4995894
Uranium (U)-Dissolved	0.00115	<DL	0.0050	mg/L		12-FEB-20	R4995894
Vanadium (V)-Dissolved	0.00066	<DL	0.0010	mg/L		12-FEB-20	R4995894
Zinc (Zn)-Dissolved	0.0056	<T	0.0030	mg/L		12-FEB-20	R4995894
Zirconium (Zr)-Dissolved	0.000528	<DL	0.0010	mg/L		12-FEB-20	R4995894
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		11-FEB-20	R4997285
Chemical Oxygen Demand	80		20	mg/L		11-FEB-20	R4993747
Oil and Grease, Total	<0.2	<W	1.0	mg/L	13-FEB-20	13-FEB-20	R4995905
Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2415374-4 SW06 Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 12:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	3.58		0	mg/L		13-FEB-20	R4995868
pH, Client Supplied	6.76		0.10	pH		13-FEB-20	R4995868
Temperature, Client Supplied	0		0	Degree C		13-FEB-20	R4995868
Physical Tests							
Color, True	98.7		2.0	CU		11-FEB-20	R4993875
Conductivity (EC)	376		1.0	uS/cm		12-FEB-20	R4995781
Hardness (as CaCO3)	193		0.51	mg/L		13-FEB-20	
pH	7.48		0.10	pH		12-FEB-20	R4995781
Total Suspended Solids	6.5		2.0	mg/L		11-FEB-20	R4995114
Total Dissolved Solids	256		20	mg/L		11-FEB-20	R4995442
Turbidity	8.84		0.10	NTU		12-FEB-20	R4995514
Anions and Nutrients							
Acidity (as CaCO3)	7.2		2.0	mg/L		14-FEB-20	R4997017
Alkalinity, Total (as CaCO3)	186		2.0	mg/L		12-FEB-20	R4995781
Ammonia, Total (as N)	0.070	<T	0.020	mg/L		12-FEB-20	R4995298
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		13-FEB-20	
Chloride (Cl)	9.54		0.10	mg/L		11-FEB-20	R4994946
Fluoride (F)	0.055		0.020	mg/L		11-FEB-20	R4994946
Nitrate (as N)	0.046	<T	0.020	mg/L		11-FEB-20	R4994946

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-4 SW06							
Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 12:00							
Matrix: Water							
Anions and Nutrients							
Nitrite (as N)	0.0010	<DL	0.010	mg/L		11-FEB-20	R4994946
Orthophosphate-Dissolved (as P)	0.0447		0.0030	mg/L		11-FEB-20	R4993667
Sulfate (SO4)	5.24		0.30	mg/L		11-FEB-20	R4994946
Cyanides							
Cyanide, Weak Acid Diss	0.0007	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Total	0.0008	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Free	0.0008	<DL	0.0020	mg/L		12-FEB-20	R4996271
Organic / Inorganic Carbon							
Dissolved Organic Carbon	33.3		0.50	mg/L		12-FEB-20	R4995763
Total Organic Carbon	33.9		0.50	mg/L		12-FEB-20	R4995758
Total Metals							
Aluminum (Al)-Total	0.213		0.0050	mg/L		12-FEB-20	R4995872
Antimony (Sb)-Total	0.00006	<DL	0.00060	mg/L		12-FEB-20	R4995872
Arsenic (As)-Total	0.00097	<DL	0.0010	mg/L		12-FEB-20	R4995872
Barium (Ba)-Total	0.0195		0.010	mg/L		12-FEB-20	R4995872
Beryllium (Be)-Total	0.000020	<DL	0.0010	mg/L		12-FEB-20	R4995872
Bismuth (Bi)-Total	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995872
Boron (B)-Total	0.0130	<DL	0.050	mg/L		12-FEB-20	R4995872
Cadmium (Cd)-Total	0.000011	<DL	0.000017	mg/L		12-FEB-20	R4995872
Calcium (Ca)-Total	49.6		0.20	mg/L		12-FEB-20	R4995872
Cesium (Cs)-Total	0.0000260		0.000010	mg/L		12-FEB-20	R4995872
Chromium (Cr)-Total	0.00066	<DL	0.0010	mg/L		12-FEB-20	R4995872
Cobalt (Co)-Total	0.000582	<T	0.00050	mg/L		12-FEB-20	R4995872
Copper (Cu)-Total	0.00120	<T	0.0010	mg/L		12-FEB-20	R4995872
Iron (Fe)-Total	1.22		0.020	mg/L		12-FEB-20	R4995872
Lead (Pb)-Total	0.000220	<T	0.000050	mg/L		12-FEB-20	R4995872
Lithium (Li)-Total	0.0064	<DL	0.050	mg/L		12-FEB-20	R4995872
Magnesium (Mg)-Total	20.2		0.020	mg/L		12-FEB-20	R4995872
Manganese (Mn)-Total	0.284		0.0010	mg/L		12-FEB-20	R4995872
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996032
Molybdenum (Mo)-Total	0.000325	<DL	0.0010	mg/L		12-FEB-20	R4995872
Nickel (Ni)-Total	0.00204	<T	0.0020	mg/L		12-FEB-20	R4995872
Phosphorus (P)-Total	0.075		0.050	mg/L		12-FEB-20	R4995872
Potassium (K)-Total	1.75		0.50	mg/L		12-FEB-20	R4995872
Rubidium (Rb)-Total	0.00168		0.00020	mg/L		12-FEB-20	R4995872
Selenium (Se)-Total	0.000170	<T	0.000050	mg/L		12-FEB-20	R4995872
Silicon (Si)-Total	7.60		0.10	mg/L		12-FEB-20	R4995872
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		12-FEB-20	R4995872
Sodium (Na)-Total	6.02		0.10	mg/L		12-FEB-20	R4995872
Strontium (Sr)-Total	0.119		0.0010	mg/L		12-FEB-20	R4995872
Sulfur (S)-Total	2.1		0.50	mg/L		12-FEB-20	R4995872
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		12-FEB-20	R4995872

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-4 SW06							
Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 12:00							
Matrix: Water							
Total Metals							
Thallium (Tl)-Total	0.0000022	<DL	0.00030	mg/L		12-FEB-20	R4995872
Thorium (Th)-Total	0.000071	<DL	0.00010	mg/L		12-FEB-20	R4995872
Tin (Sn)-Total	0.00013	<DL	0.0010	mg/L		12-FEB-20	R4995872
Titanium (Ti)-Total	0.00682		0.0020	mg/L		12-FEB-20	R4995872
Tungsten (W)-Total	0.000008	<DL	0.010	mg/L		12-FEB-20	R4995872
Uranium (U)-Total	0.00126	<DL	0.0050	mg/L		12-FEB-20	R4995872
Vanadium (V)-Total	0.00105	<T	0.0010	mg/L		12-FEB-20	R4995872
Zinc (Zn)-Total	0.0140		0.0030	mg/L		12-FEB-20	R4995872
Zirconium (Zr)-Total	0.000562	<DL	0.0010	mg/L		12-FEB-20	R4995872
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					12-FEB-20	R4995501
Aluminum (Al)-Dissolved	0.0190	<T	0.0050	mg/L		12-FEB-20	R4995894
Antimony (Sb)-Dissolved	0.000080	<DL	0.00060	mg/L		12-FEB-20	R4995894
Arsenic (As)-Dissolved	0.000885	<DL	0.0010	mg/L		12-FEB-20	R4995894
Barium (Ba)-Dissolved	0.0163		0.010	mg/L		12-FEB-20	R4995894
Beryllium (Be)-Dissolved	0.000016	<DL	0.0010	mg/L		12-FEB-20	R4995894
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995894
Boron (B)-Dissolved	0.0120	<DL	0.050	mg/L		12-FEB-20	R4995894
Cadmium (Cd)-Dissolved	0.0000095	<DL	0.000017	mg/L		12-FEB-20	R4995894
Calcium (Ca)-Dissolved	45.4		0.20	mg/L		12-FEB-20	R4995894
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		12-FEB-20	R4995894
Chromium (Cr)-Dissolved	0.00036	<DL	0.0010	mg/L		12-FEB-20	R4995894
Cobalt (Co)-Dissolved	0.000424	<DL	0.00050	mg/L		12-FEB-20	R4995894
Copper (Cu)-Dissolved	0.00100	<T	0.0010	mg/L		12-FEB-20	R4995894
Iron (Fe)-Dissolved	0.767		0.020	mg/L		12-FEB-20	R4995894
Lead (Pb)-Dissolved	0.000100	<T	0.000050	mg/L		12-FEB-20	R4995894
Lithium (Li)-Dissolved	0.0058	<DL	0.050	mg/L		12-FEB-20	R4995894
Magnesium (Mg)-Dissolved	19.4		0.020	mg/L		12-FEB-20	R4995894
Manganese (Mn)-Dissolved	0.224		0.0010	mg/L		12-FEB-20	R4995894
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996059
Molybdenum (Mo)-Dissolved	0.000322	<DL	0.0010	mg/L		12-FEB-20	R4995894
Nickel (Ni)-Dissolved	0.00166	<DL	0.0020	mg/L		12-FEB-20	R4995894
Phosphorus (P)-Dissolved	0.048	<DL	0.050	mg/L		12-FEB-20	R4995894
Potassium (K)-Dissolved	1.67		0.50	mg/L		12-FEB-20	R4995894
Rubidium (Rb)-Dissolved	0.00121		0.00020	mg/L		12-FEB-20	R4995894
Selenium (Se)-Dissolved	0.000160	<T	0.000050	mg/L		12-FEB-20	R4995894
Silicon (Si)-Dissolved	6.98		0.050	mg/L		12-FEB-20	R4995894
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		12-FEB-20	R4995894
Sodium (Na)-Dissolved	5.99		0.10	mg/L		12-FEB-20	R4995894
Strontium (Sr)-Dissolved	0.108		0.0010	mg/L		12-FEB-20	R4995894
Sulfur (S)-Dissolved	2.4		0.50	mg/L		12-FEB-20	R4995894

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-4 SW06 Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 12:00 Matrix: Water							
Dissolved Metals							
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		12-FEB-20	R4995894
Thallium (Tl)-Dissolved	0.0000006	<DL	0.00030	mg/L		12-FEB-20	R4995894
Thorium (Th)-Dissolved	0.000048	<DL	0.00010	mg/L		12-FEB-20	R4995894
Tin (Sn)-Dissolved	0.000090	<DL	0.0010	mg/L		12-FEB-20	R4995894
Titanium (Ti)-Dissolved	0.00196	<DL	0.0020	mg/L		12-FEB-20	R4995894
Tungsten (W)-Dissolved	0.000006	<DL	0.010	mg/L		12-FEB-20	R4995894
Uranium (U)-Dissolved	0.00116	<DL	0.0050	mg/L		12-FEB-20	R4995894
Vanadium (V)-Dissolved	0.00058	<DL	0.0010	mg/L		12-FEB-20	R4995894
Zinc (Zn)-Dissolved	0.0144		0.0030	mg/L		12-FEB-20	R4995894
Zirconium (Zr)-Dissolved	0.000442	<DL	0.0010	mg/L		12-FEB-20	R4995894
Aggregate Organics							
Biochemical Oxygen Demand	2.1		2.0	mg/L		11-FEB-20	R4997285
Chemical Oxygen Demand	78		20	mg/L		11-FEB-20	R4993747
Oil and Grease, Total	0.4	<DL	1.0	mg/L	13-FEB-20	13-FEB-20	R4995905
Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2415374-5 SW10 Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 13:30 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	9.11		0	mg/L		13-FEB-20	R4995868
pH, Client Supplied	7.01		0.10	pH		13-FEB-20	R4995868
Temperature, Client Supplied	0		0	Degree C		13-FEB-20	R4995868
Physical Tests							
Color, True	123		2.0	CU		11-FEB-20	R4993875
Conductivity (EC)	361		1.0	uS/cm		12-FEB-20	R4995781
Hardness (as CaCO3)	190		0.51	mg/L		13-FEB-20	
pH	7.49		0.10	pH		12-FEB-20	R4995781
Total Suspended Solids	3.5		2.0	mg/L		11-FEB-20	R4995114
Total Dissolved Solids	256		20	mg/L		11-FEB-20	R4995442
Turbidity	4.41		0.10	NTU		12-FEB-20	R4995514
Anions and Nutrients							
Acidity (as CaCO3)	6.8		2.0	mg/L		14-FEB-20	R4997017
Alkalinity, Total (as CaCO3)	178		2.0	mg/L		12-FEB-20	R4995781
Ammonia, Total (as N)	0.104	<T	0.020	mg/L		12-FEB-20	R4995298
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		13-FEB-20	
Chloride (Cl)	8.87		0.10	mg/L		11-FEB-20	R4994946
Fluoride (F)	0.047		0.020	mg/L		11-FEB-20	R4994946
Nitrate (as N)	0.077	<T	0.020	mg/L		11-FEB-20	R4994946
Nitrite (as N)	0.0075	<DL	0.010	mg/L		11-FEB-20	R4994946
Orthophosphate-Dissolved (as P)	0.0388		0.0030	mg/L		11-FEB-20	R4993667
Sulfate (SO4)	5.38		0.30	mg/L		11-FEB-20	R4994946
Cyanides							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-5 SW10							
Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 13:30							
Matrix: Water							
Cyanides							
Cyanide, Weak Acid Diss	0.0007	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Total	0.0010	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Free	0.0008	<DL	0.0020	mg/L		12-FEB-20	R4996271
Organic / Inorganic Carbon							
Dissolved Organic Carbon	35.9		0.50	mg/L		12-FEB-20	R4995763
Total Organic Carbon	37.3		0.50	mg/L		12-FEB-20	R4995758
Total Metals							
Aluminum (Al)-Total	0.101		0.0050	mg/L		12-FEB-20	R4995872
Antimony (Sb)-Total	0.00040	<DL	0.00060	mg/L		12-FEB-20	R4995872
Arsenic (As)-Total	0.00098	<DL	0.0010	mg/L		12-FEB-20	R4995872
Barium (Ba)-Total	0.0142		0.010	mg/L		12-FEB-20	R4995872
Beryllium (Be)-Total	0.000020	<DL	0.0010	mg/L		12-FEB-20	R4995872
Bismuth (Bi)-Total	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995872
Boron (B)-Total	0.0165	<DL	0.050	mg/L		12-FEB-20	R4995872
Cadmium (Cd)-Total	0.000015	<DL	0.000017	mg/L		12-FEB-20	R4995872
Calcium (Ca)-Total	46.0		0.20	mg/L		12-FEB-20	R4995872
Cesium (Cs)-Total	0.0000120		0.000010	mg/L		12-FEB-20	R4995872
Chromium (Cr)-Total	0.00038	<DL	0.0010	mg/L		12-FEB-20	R4995872
Cobalt (Co)-Total	0.000647	<T	0.00050	mg/L		12-FEB-20	R4995872
Copper (Cu)-Total	0.00100	<T	0.0010	mg/L		12-FEB-20	R4995872
Iron (Fe)-Total	1.10		0.020	mg/L		12-FEB-20	R4995872
Lead (Pb)-Total	0.000135	<T	0.000050	mg/L		12-FEB-20	R4995872
Lithium (Li)-Total	0.0072	<DL	0.050	mg/L		12-FEB-20	R4995872
Magnesium (Mg)-Total	19.9		0.020	mg/L		12-FEB-20	R4995872
Manganese (Mn)-Total	0.196		0.0010	mg/L		12-FEB-20	R4995872
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		13-FEB-20	R4996032
Molybdenum (Mo)-Total	0.000305	<DL	0.0010	mg/L		12-FEB-20	R4995872
Nickel (Ni)-Total	0.00196	<DL	0.0020	mg/L		12-FEB-20	R4995872
Phosphorus (P)-Total	0.065		0.050	mg/L		12-FEB-20	R4995872
Potassium (K)-Total	1.76		0.50	mg/L		12-FEB-20	R4995872
Rubidium (Rb)-Total	0.00172		0.00020	mg/L		12-FEB-20	R4995872
Selenium (Se)-Total	0.000135	<T	0.000050	mg/L		12-FEB-20	R4995872
Silicon (Si)-Total	7.60		0.10	mg/L		12-FEB-20	R4995872
Silver (Ag)-Total	0.000005	<DL	0.00010	mg/L		12-FEB-20	R4995872
Sodium (Na)-Total	6.97		0.10	mg/L		12-FEB-20	R4995872
Strontium (Sr)-Total	0.130		0.0010	mg/L		12-FEB-20	R4995872
Sulfur (S)-Total	2.0		0.50	mg/L		12-FEB-20	R4995872
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		12-FEB-20	R4995872
Thallium (Tl)-Total	0.0000016	<DL	0.00030	mg/L		12-FEB-20	R4995872
Thorium (Th)-Total	0.000050	<DL	0.00010	mg/L		12-FEB-20	R4995872
Tin (Sn)-Total	0.00007	<DL	0.0010	mg/L		12-FEB-20	R4995872

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-5 SW10							
Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 13:30							
Matrix: Water							
Total Metals							
Titanium (Ti)-Total	0.00328		0.0020	mg/L		12-FEB-20	R4995872
Tungsten (W)-Total	0.000004	<DL	0.010	mg/L		12-FEB-20	R4995872
Uranium (U)-Total	0.00104	<DL	0.0050	mg/L		12-FEB-20	R4995872
Vanadium (V)-Total	0.00080	<DL	0.0010	mg/L		12-FEB-20	R4995872
Zinc (Zn)-Total	0.0032	<T	0.0030	mg/L		12-FEB-20	R4995872
Zirconium (Zr)-Total	0.000496	<DL	0.0010	mg/L		12-FEB-20	R4995872
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					12-FEB-20	R4995501
Aluminum (Al)-Dissolved	0.0276	<T	0.0050	mg/L		12-FEB-20	R4995894
Antimony (Sb)-Dissolved	0.000780	<T	0.00060	mg/L		12-FEB-20	R4995894
Arsenic (As)-Dissolved	0.000890	<DL	0.0010	mg/L		12-FEB-20	R4995894
Barium (Ba)-Dissolved	0.0123		0.010	mg/L		12-FEB-20	R4995894
Beryllium (Be)-Dissolved	0.000020	<DL	0.0010	mg/L		12-FEB-20	R4995894
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995894
Boron (B)-Dissolved	0.0165	<DL	0.050	mg/L		12-FEB-20	R4995894
Cadmium (Cd)-Dissolved	0.0000145	<DL	0.000017	mg/L		12-FEB-20	R4995894
Calcium (Ca)-Dissolved	44.2		0.20	mg/L		12-FEB-20	R4995894
Cesium (Cs)-Dissolved	0.0000020	<DL	0.000010	mg/L		12-FEB-20	R4995894
Chromium (Cr)-Dissolved	0.00026	<DL	0.0010	mg/L		12-FEB-20	R4995894
Cobalt (Co)-Dissolved	0.000327	<DL	0.00050	mg/L		12-FEB-20	R4995894
Copper (Cu)-Dissolved	0.00094	<DL	0.0010	mg/L		12-FEB-20	R4995894
Iron (Fe)-Dissolved	0.785		0.020	mg/L		12-FEB-20	R4995894
Lead (Pb)-Dissolved	0.000095	<T	0.000050	mg/L		12-FEB-20	R4995894
Lithium (Li)-Dissolved	0.0068	<DL	0.050	mg/L		12-FEB-20	R4995894
Magnesium (Mg)-Dissolved	19.2		0.020	mg/L		12-FEB-20	R4995894
Manganese (Mn)-Dissolved	0.0337		0.0010	mg/L		12-FEB-20	R4995894
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996059
Molybdenum (Mo)-Dissolved	0.000282	<DL	0.0010	mg/L		12-FEB-20	R4995894
Nickel (Ni)-Dissolved	0.00186	<DL	0.0020	mg/L		12-FEB-20	R4995894
Phosphorus (P)-Dissolved	0.052		0.050	mg/L		12-FEB-20	R4995894
Potassium (K)-Dissolved	1.81		0.50	mg/L		12-FEB-20	R4995894
Rubidium (Rb)-Dissolved	0.00149		0.00020	mg/L		12-FEB-20	R4995894
Selenium (Se)-Dissolved	0.000215	<T	0.000050	mg/L		12-FEB-20	R4995894
Silicon (Si)-Dissolved	7.38		0.050	mg/L		12-FEB-20	R4995894
Silver (Ag)-Dissolved	0.0000035	<DL	0.00010	mg/L		12-FEB-20	R4995894
Sodium (Na)-Dissolved	7.00		0.10	mg/L		12-FEB-20	R4995894
Strontium (Sr)-Dissolved	0.121		0.0010	mg/L		12-FEB-20	R4995894
Sulfur (S)-Dissolved	2.3		0.50	mg/L		12-FEB-20	R4995894
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		12-FEB-20	R4995894
Thallium (Tl)-Dissolved	0.0000005	<DL	0.00030	mg/L		12-FEB-20	R4995894
Thorium (Th)-Dissolved	0.000056	<DL	0.00010	mg/L		12-FEB-20	R4995894

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-5 SW10 Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 13:30 Matrix: Water							
Dissolved Metals							
Tin (Sn)-Dissolved	0.000015	<DL	0.0010	mg/L		12-FEB-20	R4995894
Titanium (Ti)-Dissolved	0.00180	<DL	0.0020	mg/L		12-FEB-20	R4995894
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		12-FEB-20	R4995894
Uranium (U)-Dissolved	0.000997	<DL	0.0050	mg/L		12-FEB-20	R4995894
Vanadium (V)-Dissolved	0.00052	<DL	0.0010	mg/L		12-FEB-20	R4995894
Zinc (Zn)-Dissolved	0.0052	<T	0.0030	mg/L		12-FEB-20	R4995894
Zirconium (Zr)-Dissolved	0.000464	<DL	0.0010	mg/L		12-FEB-20	R4995894
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		12-FEB-20	R4997379
Chemical Oxygen Demand	90		20	mg/L		11-FEB-20	R4993747
Oil and Grease, Total	0.6	<DL	1.0	mg/L	13-FEB-20	13-FEB-20	R4995905
L2415374-6 SW15 Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 11:50 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	0		0	mg/L		13-FEB-20	R4995868
pH, Client Supplied	6.99		0.10	pH		13-FEB-20	R4995868
Temperature, Client Supplied	0		0	Degree C		13-FEB-20	R4995868
Physical Tests							
Color, True	147		2.0	CU		11-FEB-20	R4993875
Conductivity (EC)	298		1.0	uS/cm		12-FEB-20	R4995781
Hardness (as CaCO3)	164		0.51	mg/L		13-FEB-20	
pH	7.43		0.10	pH		12-FEB-20	R4995781
Total Suspended Solids	9.5		2.0	mg/L		11-FEB-20	R4995114
Total Dissolved Solids	228		13	mg/L		11-FEB-20	R4995442
Turbidity	14.7		0.10	NTU		12-FEB-20	R4995514
Anions and Nutrients							
Acidity (as CaCO3)	5.6		2.0	mg/L		14-FEB-20	R4997017
Alkalinity, Total (as CaCO3)	153		2.0	mg/L		12-FEB-20	R4995781
Ammonia, Total (as N)	0.140	<T	0.020	mg/L		12-FEB-20	R4995298
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		13-FEB-20	
Chloride (Cl)	3.98		0.10	mg/L		11-FEB-20	R4994946
Fluoride (F)	0.041		0.020	mg/L		11-FEB-20	R4994946
Nitrate (as N)	0.142	<T	0.020	mg/L		11-FEB-20	R4994946
Nitrite (as N)	0.0060	<DL	0.010	mg/L		11-FEB-20	R4994946
Orthophosphate-Dissolved (as P)	0.0190		0.0030	mg/L		11-FEB-20	R4993667
Sulfate (SO4)	6.72		0.30	mg/L		11-FEB-20	R4994946
Cyanides							
Cyanide, Weak Acid Diss	0.0006	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Total	0.0010	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Free	0.0006	<DL	0.0020	mg/L		12-FEB-20	R4996271
Organic / Inorganic Carbon							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-6 SW15							
Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 11:50							
Matrix: Water							
Organic / Inorganic Carbon							
Dissolved Organic Carbon	37.4		0.50	mg/L		12-FEB-20	R4995763
Total Organic Carbon	40.7		0.50	mg/L		12-FEB-20	R4995758
Total Metals							
Aluminum (Al)-Total	0.345		0.0050	mg/L		12-FEB-20	R4995872
Antimony (Sb)-Total	0.00004	<DL	0.00060	mg/L		12-FEB-20	R4995872
Arsenic (As)-Total	0.00102	<T	0.0010	mg/L		12-FEB-20	R4995872
Barium (Ba)-Total	0.0190		0.010	mg/L		12-FEB-20	R4995872
Beryllium (Be)-Total	0.000024	<DL	0.0010	mg/L		12-FEB-20	R4995872
Bismuth (Bi)-Total	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995872
Boron (B)-Total	0.0110	<DL	0.050	mg/L		12-FEB-20	R4995872
Cadmium (Cd)-Total	0.000018	<T	0.000017	mg/L		12-FEB-20	R4995872
Calcium (Ca)-Total	38.2		0.20	mg/L		12-FEB-20	R4995872
Cesium (Cs)-Total	0.0000490		0.000010	mg/L		12-FEB-20	R4995872
Chromium (Cr)-Total	0.00078	<DL	0.0010	mg/L		12-FEB-20	R4995872
Cobalt (Co)-Total	0.000434	<DL	0.00050	mg/L		12-FEB-20	R4995872
Copper (Cu)-Total	0.00156	<T	0.0010	mg/L		12-FEB-20	R4995872
Iron (Fe)-Total	1.12		0.020	mg/L		12-FEB-20	R4995872
Lead (Pb)-Total	0.000380	<T	0.000050	mg/L		12-FEB-20	R4995872
Lithium (Li)-Total	0.0062	<DL	0.050	mg/L		12-FEB-20	R4995872
Magnesium (Mg)-Total	17.2		0.020	mg/L		12-FEB-20	R4995872
Manganese (Mn)-Total	0.0895		0.0010	mg/L		12-FEB-20	R4995872
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		13-FEB-20	R4996032
Molybdenum (Mo)-Total	0.000230	<DL	0.0010	mg/L		12-FEB-20	R4995872
Nickel (Ni)-Total	0.00192	<DL	0.0020	mg/L		12-FEB-20	R4995872
Phosphorus (P)-Total	0.040	<DL	0.050	mg/L		12-FEB-20	R4995872
Potassium (K)-Total	1.38		0.50	mg/L		12-FEB-20	R4995872
Rubidium (Rb)-Total	0.00216		0.00020	mg/L		12-FEB-20	R4995872
Selenium (Se)-Total	0.000115	<T	0.000050	mg/L		12-FEB-20	R4995872
Silicon (Si)-Total	7.78		0.10	mg/L		12-FEB-20	R4995872
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		12-FEB-20	R4995872
Sodium (Na)-Total	4.24		0.10	mg/L		12-FEB-20	R4995872
Strontium (Sr)-Total	0.0839		0.0010	mg/L		12-FEB-20	R4995872
Sulfur (S)-Total	2.4		0.50	mg/L		12-FEB-20	R4995872
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		12-FEB-20	R4995872
Thallium (Tl)-Total	0.0000072	<DL	0.00030	mg/L		12-FEB-20	R4995872
Thorium (Th)-Total	0.000110		0.00010	mg/L		12-FEB-20	R4995872
Tin (Sn)-Total	0.00009	<DL	0.0010	mg/L		12-FEB-20	R4995872
Titanium (Ti)-Total	0.0108		0.0020	mg/L		12-FEB-20	R4995872
Tungsten (W)-Total	0.000004	<DL	0.010	mg/L		12-FEB-20	R4995872
Uranium (U)-Total	0.000900	<DL	0.0050	mg/L		12-FEB-20	R4995872
Vanadium (V)-Total	0.00145	<T	0.0010	mg/L		12-FEB-20	R4995872

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-6 SW15							
Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 11:50							
Matrix: Water							
Total Metals							
Zinc (Zn)-Total	0.0036	<T	0.0030	mg/L		12-FEB-20	R4995872
Zirconium (Zr)-Total	0.000656	<DL	0.0010	mg/L		12-FEB-20	R4995872
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					12-FEB-20	R4995501
Aluminum (Al)-Dissolved	0.0558		0.0050	mg/L		12-FEB-20	R4995894
Antimony (Sb)-Dissolved	0.000045	<DL	0.00060	mg/L		12-FEB-20	R4995894
Arsenic (As)-Dissolved	0.000875	<DL	0.0010	mg/L		12-FEB-20	R4995894
Barium (Ba)-Dissolved	0.0160		0.010	mg/L		12-FEB-20	R4995894
Beryllium (Be)-Dissolved	0.000010	<DL	0.0010	mg/L		12-FEB-20	R4995894
Bismuth (Bi)-Dissolved	0.000002	<DL	0.0010	mg/L		12-FEB-20	R4995894
Boron (B)-Dissolved	0.0100	<DL	0.050	mg/L		12-FEB-20	R4995894
Cadmium (Cd)-Dissolved	0.0000145	<DL	0.000017	mg/L		12-FEB-20	R4995894
Calcium (Ca)-Dissolved	37.7		0.20	mg/L		12-FEB-20	R4995894
Cesium (Cs)-Dissolved	0.0000025	<DL	0.000010	mg/L		12-FEB-20	R4995894
Chromium (Cr)-Dissolved	0.00024	<DL	0.0010	mg/L		12-FEB-20	R4995894
Cobalt (Co)-Dissolved	0.000270	<DL	0.00050	mg/L		12-FEB-20	R4995894
Copper (Cu)-Dissolved	0.00128	<T	0.0010	mg/L		12-FEB-20	R4995894
Iron (Fe)-Dissolved	0.662		0.020	mg/L		12-FEB-20	R4995894
Lead (Pb)-Dissolved	0.000140	<T	0.000050	mg/L		12-FEB-20	R4995894
Lithium (Li)-Dissolved	0.0060	<DL	0.050	mg/L		12-FEB-20	R4995894
Magnesium (Mg)-Dissolved	17.0		0.020	mg/L		12-FEB-20	R4995894
Manganese (Mn)-Dissolved	0.0769		0.0010	mg/L		12-FEB-20	R4995894
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996059
Molybdenum (Mo)-Dissolved	0.000230	<DL	0.0010	mg/L		12-FEB-20	R4995894
Nickel (Ni)-Dissolved	0.00150	<DL	0.0020	mg/L		12-FEB-20	R4995894
Phosphorus (P)-Dissolved	0.022	<DL	0.050	mg/L		12-FEB-20	R4995894
Potassium (K)-Dissolved	1.30		0.50	mg/L		12-FEB-20	R4995894
Rubidium (Rb)-Dissolved	0.00145		0.00020	mg/L		12-FEB-20	R4995894
Selenium (Se)-Dissolved	0.000165	<T	0.000050	mg/L		12-FEB-20	R4995894
Silicon (Si)-Dissolved	7.11		0.050	mg/L		12-FEB-20	R4995894
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		12-FEB-20	R4995894
Sodium (Na)-Dissolved	4.26		0.10	mg/L		12-FEB-20	R4995894
Strontium (Sr)-Dissolved	0.0802		0.0010	mg/L		12-FEB-20	R4995894
Sulfur (S)-Dissolved	2.5		0.50	mg/L		12-FEB-20	R4995894
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		12-FEB-20	R4995894
Thallium (Tl)-Dissolved	0.0000028	<DL	0.00030	mg/L		12-FEB-20	R4995894
Thorium (Th)-Dissolved	0.000076	<DL	0.00010	mg/L		12-FEB-20	R4995894
Tin (Sn)-Dissolved	0.000020	<DL	0.0010	mg/L		12-FEB-20	R4995894
Titanium (Ti)-Dissolved	0.00446		0.0020	mg/L		12-FEB-20	R4995894
Tungsten (W)-Dissolved	0.000002	<DL	0.010	mg/L		12-FEB-20	R4995894
Uranium (U)-Dissolved	0.000859	<DL	0.0050	mg/L		12-FEB-20	R4995894

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-6 SW15 Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 11:50 Matrix: Water							
Dissolved Metals							
Vanadium (V)-Dissolved	0.00064	<DL	0.0010	mg/L		12-FEB-20	R4995894
Zinc (Zn)-Dissolved	0.0026	<DL	0.0030	mg/L		12-FEB-20	R4995894
Zirconium (Zr)-Dissolved	0.000554	<DL	0.0010	mg/L		12-FEB-20	R4995894
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		12-FEB-20	R4997379
Chemical Oxygen Demand	90		20	mg/L		11-FEB-20	R4993747
Oil and Grease, Total	1.0		1.0	mg/L	13-FEB-20	13-FEB-20	R4995905
Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2415374-7 SW17 Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 12:20 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	0		0	mg/L		13-FEB-20	R4995868
pH, Client Supplied	7.07		0.10	pH		13-FEB-20	R4995868
Temperature, Client Supplied	0		0	Degree C		13-FEB-20	R4995868
Physical Tests							
Color, True	43.4		2.0	CU		11-FEB-20	R4993875
Conductivity (EC)	76.6		1.0	uS/cm		12-FEB-20	R4995781
Hardness (as CaCO3)	34.7		0.51	mg/L		13-FEB-20	
pH	7.19		0.10	pH		12-FEB-20	R4995781
Total Suspended Solids	1.0	<DL	2.0	mg/L		11-FEB-20	R4995114
Total Dissolved Solids	60		13	mg/L		11-FEB-20	R4995442
Turbidity	1.63		0.10	NTU		12-FEB-20	R4995514
Anions and Nutrients							
Acidity (as CaCO3)	1.4	<DL	2.0	mg/L		14-FEB-20	R4997017
Alkalinity, Total (as CaCO3)	31.0		2.0	mg/L		12-FEB-20	R4995781
Ammonia, Total (as N)	0.024	<T	0.020	mg/L		12-FEB-20	R4995298
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		13-FEB-20	
Chloride (Cl)	2.31		0.10	mg/L		11-FEB-20	R4994946
Fluoride (F)	0.041		0.020	mg/L		11-FEB-20	R4994946
Nitrate (as N)	0.115	<T	0.020	mg/L		11-FEB-20	R4994946
Nitrite (as N)	0.0075	<DL	0.010	mg/L		11-FEB-20	R4994946
Orthophosphate-Dissolved (as P)	0.0048		0.0030	mg/L		11-FEB-20	R4993667
Sulfate (SO4)	3.76	<T	0.30	mg/L		11-FEB-20	R4994946
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Total	0.0006	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Free	0.0002	<DL	0.0020	mg/L		12-FEB-20	R4996271
Organic / Inorganic Carbon							
Dissolved Organic Carbon	13.9		0.50	mg/L		12-FEB-20	R4995763
Total Organic Carbon	14.9		0.50	mg/L		12-FEB-20	R4995758
Total Metals							
Aluminum (Al)-Total	0.0824		0.0050	mg/L		12-FEB-20	R4995872

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-7 SW17							
Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 12:20							
Matrix: Water							
Total Metals							
Antimony (Sb)-Total	<0.00002	<W	0.00060	mg/L		12-FEB-20	R4995872
Arsenic (As)-Total	0.00038	<DL	0.0010	mg/L		12-FEB-20	R4995872
Barium (Ba)-Total	0.0102		0.010	mg/L		12-FEB-20	R4995872
Beryllium (Be)-Total	0.000005	<DL	0.0010	mg/L		12-FEB-20	R4995872
Bismuth (Bi)-Total	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995872
Boron (B)-Total	0.0060	<DL	0.050	mg/L		12-FEB-20	R4995872
Cadmium (Cd)-Total	0.000006	<DL	0.000017	mg/L		12-FEB-20	R4995872
Calcium (Ca)-Total	8.92		0.20	mg/L		12-FEB-20	R4995872
Cesium (Cs)-Total	0.0000105		0.000010	mg/L		12-FEB-20	R4995872
Chromium (Cr)-Total	0.00038	<DL	0.0010	mg/L		12-FEB-20	R4995872
Cobalt (Co)-Total	0.000054	<DL	0.00050	mg/L		12-FEB-20	R4995872
Copper (Cu)-Total	0.00092	<DL	0.0010	mg/L		12-FEB-20	R4995872
Iron (Fe)-Total	0.200		0.020	mg/L		12-FEB-20	R4995872
Lead (Pb)-Total	0.000060	<T	0.000050	mg/L		12-FEB-20	R4995872
Lithium (Li)-Total	0.0010	<DL	0.050	mg/L		12-FEB-20	R4995872
Magnesium (Mg)-Total	3.18		0.020	mg/L		12-FEB-20	R4995872
Manganese (Mn)-Total	0.0105		0.0010	mg/L		12-FEB-20	R4995872
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996032
Molybdenum (Mo)-Total	0.000145	<DL	0.0010	mg/L		12-FEB-20	R4995872
Nickel (Ni)-Total	0.00070	<DL	0.0020	mg/L		12-FEB-20	R4995872
Phosphorus (P)-Total	0.010	<DL	0.050	mg/L		12-FEB-20	R4995872
Potassium (K)-Total	0.780		0.50	mg/L		12-FEB-20	R4995872
Rubidium (Rb)-Total	0.00167		0.00020	mg/L		12-FEB-20	R4995872
Selenium (Se)-Total	0.000090	<T	0.000050	mg/L		12-FEB-20	R4995872
Silicon (Si)-Total	2.81		0.10	mg/L		12-FEB-20	R4995872
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		12-FEB-20	R4995872
Sodium (Na)-Total	2.76		0.10	mg/L		12-FEB-20	R4995872
Strontium (Sr)-Total	0.0267		0.0010	mg/L		12-FEB-20	R4995872
Sulfur (S)-Total	1.0		0.50	mg/L		12-FEB-20	R4995872
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		12-FEB-20	R4995872
Thallium (Tl)-Total	0.0000020	<DL	0.00030	mg/L		12-FEB-20	R4995872
Thorium (Th)-Total	0.000021	<DL	0.00010	mg/L		12-FEB-20	R4995872
Tin (Sn)-Total	0.00009	<DL	0.0010	mg/L		12-FEB-20	R4995872
Titanium (Ti)-Total	0.00208		0.0020	mg/L		12-FEB-20	R4995872
Tungsten (W)-Total	<0.000002	<W	0.010	mg/L		12-FEB-20	R4995872
Uranium (U)-Total	0.000100	<DL	0.0050	mg/L		12-FEB-20	R4995872
Vanadium (V)-Total	0.00030	<DL	0.0010	mg/L		12-FEB-20	R4995872
Zinc (Zn)-Total	<0.0002	<W	0.0030	mg/L		12-FEB-20	R4995872
Zirconium (Zr)-Total	0.000142	<DL	0.0010	mg/L		12-FEB-20	R4995872
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					12-FEB-20	R4995501

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-7 SW17							
Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 12:20							
Matrix: Water							
Dissolved Metals							
Aluminum (Al)-Dissolved	0.0338		0.0050	mg/L		12-FEB-20	R4995894
Antimony (Sb)-Dissolved	0.000035	<DL	0.00060	mg/L		12-FEB-20	R4995894
Arsenic (As)-Dissolved	0.000370	<DL	0.0010	mg/L		12-FEB-20	R4995894
Barium (Ba)-Dissolved	0.00950	<DL	0.010	mg/L		12-FEB-20	R4995894
Beryllium (Be)-Dissolved	0.000008	<DL	0.0010	mg/L		12-FEB-20	R4995894
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995894
Boron (B)-Dissolved	0.0055	<DL	0.050	mg/L		12-FEB-20	R4995894
Cadmium (Cd)-Dissolved	0.0000040	<DL	0.000017	mg/L		12-FEB-20	R4995894
Calcium (Ca)-Dissolved	8.81		0.20	mg/L		12-FEB-20	R4995894
Cesium (Cs)-Dissolved	0.0000030	<DL	0.000010	mg/L		12-FEB-20	R4995894
Chromium (Cr)-Dissolved	0.00020	<DL	0.0010	mg/L		12-FEB-20	R4995894
Cobalt (Co)-Dissolved	0.000029	<DL	0.00050	mg/L		12-FEB-20	R4995894
Copper (Cu)-Dissolved	0.00076	<DL	0.0010	mg/L		12-FEB-20	R4995894
Iron (Fe)-Dissolved	0.118		0.020	mg/L		12-FEB-20	R4995894
Lead (Pb)-Dissolved	0.000010	<DL	0.000050	mg/L		12-FEB-20	R4995894
Lithium (Li)-Dissolved	0.0010	<DL	0.050	mg/L		12-FEB-20	R4995894
Magnesium (Mg)-Dissolved	3.07		0.020	mg/L		12-FEB-20	R4995894
Manganese (Mn)-Dissolved	0.00492		0.0010	mg/L		12-FEB-20	R4995894
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996059
Molybdenum (Mo)-Dissolved	0.000130	<DL	0.0010	mg/L		12-FEB-20	R4995894
Nickel (Ni)-Dissolved	0.00060	<DL	0.0020	mg/L		12-FEB-20	R4995894
Phosphorus (P)-Dissolved	0.002	<DL	0.050	mg/L		12-FEB-20	R4995894
Potassium (K)-Dissolved	0.760		0.50	mg/L		12-FEB-20	R4995894
Rubidium (Rb)-Dissolved	0.00153		0.00020	mg/L		12-FEB-20	R4995894
Selenium (Se)-Dissolved	0.000085	<T	0.000050	mg/L		12-FEB-20	R4995894
Silicon (Si)-Dissolved	2.61		0.050	mg/L		12-FEB-20	R4995894
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		12-FEB-20	R4995894
Sodium (Na)-Dissolved	2.78		0.10	mg/L		12-FEB-20	R4995894
Strontium (Sr)-Dissolved	0.0255		0.0010	mg/L		12-FEB-20	R4995894
Sulfur (S)-Dissolved	1.2		0.50	mg/L		12-FEB-20	R4995894
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		12-FEB-20	R4995894
Thallium (Tl)-Dissolved	0.0000002	<DL	0.00030	mg/L		12-FEB-20	R4995894
Thorium (Th)-Dissolved	0.000032	<DL	0.00010	mg/L		12-FEB-20	R4995894
Tin (Sn)-Dissolved	0.000015	<DL	0.0010	mg/L		12-FEB-20	R4995894
Titanium (Ti)-Dissolved	0.00064	<DL	0.0020	mg/L		12-FEB-20	R4995894
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		12-FEB-20	R4995894
Uranium (U)-Dissolved	0.0000878	<DL	0.0050	mg/L		12-FEB-20	R4995894
Vanadium (V)-Dissolved	0.00022	<DL	0.0010	mg/L		12-FEB-20	R4995894
Zinc (Zn)-Dissolved	0.0010	<DL	0.0030	mg/L		12-FEB-20	R4995894
Zirconium (Zr)-Dissolved	0.000158	<DL	0.0010	mg/L		12-FEB-20	R4995894
Aggregate Organics							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-7 SW17 Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 12:20 Matrix: Water							
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		12-FEB-20	R4997379
Chemical Oxygen Demand	37		20	mg/L		11-FEB-20	R4993747
Oil and Grease, Total	0.4	<DL	1.0	mg/L	13-FEB-20	13-FEB-20	R4995905
Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2415374-8 SW20 Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 14:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	4.68		0	mg/L		13-FEB-20	R4995868
pH, Client Supplied	6.97		0.10	pH		13-FEB-20	R4995868
Temperature, Client Supplied	.1		0	Degree C		13-FEB-20	R4995868
Physical Tests							
Color, True	115		2.0	CU		11-FEB-20	R4993875
Conductivity (EC)	345		1.0	uS/cm		12-FEB-20	R4995781
Hardness (as CaCO3)	178		0.51	mg/L		13-FEB-20	
pH	7.41		0.10	pH		12-FEB-20	R4995781
Total Suspended Solids	3.0		2.0	mg/L		11-FEB-20	R4995114
Total Dissolved Solids	236		20	mg/L		11-FEB-20	R4995442
Turbidity	5.40		0.10	NTU		12-FEB-20	R4995514
Anions and Nutrients							
Acidity (as CaCO3)	6.2		2.0	mg/L		14-FEB-20	R4997017
Alkalinity, Total (as CaCO3)	171		2.0	mg/L		12-FEB-20	R4995781
Ammonia, Total (as N)	0.066	<T	0.020	mg/L		12-FEB-20	R4995298
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		13-FEB-20	
Chloride (Cl)	9.28		0.10	mg/L		11-FEB-20	R4994946
Fluoride (F)	0.045		0.020	mg/L		11-FEB-20	R4994946
Nitrate (as N)	0.043	<T	0.020	mg/L		11-FEB-20	R4994946
Nitrite (as N)	0.0010	<DL	0.010	mg/L		11-FEB-20	R4994946
Orthophosphate-Dissolved (as P)	0.0295		0.0030	mg/L		11-FEB-20	R4993667
Sulfate (SO4)	6.40		0.30	mg/L		11-FEB-20	R4994946
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Total	0.0006	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Free	0.0009	<DL	0.0020	mg/L		12-FEB-20	R4996271
Organic / Inorganic Carbon							
Dissolved Organic Carbon	33.9		0.50	mg/L		12-FEB-20	R4995763
Total Organic Carbon	34.1		0.50	mg/L		12-FEB-20	R4995758
Total Metals							
Aluminum (Al)-Total	0.0980		0.0050	mg/L		12-FEB-20	R4995872
Antimony (Sb)-Total	0.00004	<DL	0.00060	mg/L		12-FEB-20	R4995872
Arsenic (As)-Total	0.00088	<DL	0.0010	mg/L		12-FEB-20	R4995872
Barium (Ba)-Total	0.0158		0.010	mg/L		12-FEB-20	R4995872
Beryllium (Be)-Total	0.000012	<DL	0.0010	mg/L		12-FEB-20	R4995872

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-8 SW20							
Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 14:00							
Matrix: Water							
Total Metals							
Bismuth (Bi)-Total	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995872
Boron (B)-Total	0.0145	<DL	0.050	mg/L		12-FEB-20	R4995872
Cadmium (Cd)-Total	0.000018	<T	0.000017	mg/L		12-FEB-20	R4995872
Calcium (Ca)-Total	43.5		0.20	mg/L		12-FEB-20	R4995872
Cesium (Cs)-Total	0.0000125		0.000010	mg/L		12-FEB-20	R4995872
Chromium (Cr)-Total	0.00036	<DL	0.0010	mg/L		12-FEB-20	R4995872
Cobalt (Co)-Total	0.000747	<T	0.00050	mg/L		12-FEB-20	R4995872
Copper (Cu)-Total	0.00064	<DL	0.0010	mg/L		12-FEB-20	R4995872
Iron (Fe)-Total	1.37		0.020	mg/L		12-FEB-20	R4995872
Lead (Pb)-Total	0.000130	<T	0.000050	mg/L		12-FEB-20	R4995872
Lithium (Li)-Total	0.0072	<DL	0.050	mg/L		12-FEB-20	R4995872
Magnesium (Mg)-Total	18.4		0.020	mg/L		12-FEB-20	R4995872
Manganese (Mn)-Total	0.429		0.0010	mg/L		12-FEB-20	R4995872
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996032
Molybdenum (Mo)-Total	0.000205	<DL	0.0010	mg/L		12-FEB-20	R4995872
Nickel (Ni)-Total	0.00160	<DL	0.0020	mg/L		12-FEB-20	R4995872
Phosphorus (P)-Total	0.045	<DL	0.050	mg/L		12-FEB-20	R4995872
Potassium (K)-Total	1.66		0.50	mg/L		12-FEB-20	R4995872
Rubidium (Rb)-Total	0.00152		0.00020	mg/L		12-FEB-20	R4995872
Selenium (Se)-Total	0.000160	<T	0.000050	mg/L		12-FEB-20	R4995872
Silicon (Si)-Total	7.86		0.10	mg/L		12-FEB-20	R4995872
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		12-FEB-20	R4995872
Sodium (Na)-Total	7.08		0.10	mg/L		12-FEB-20	R4995872
Strontium (Sr)-Total	0.116		0.0010	mg/L		12-FEB-20	R4995872
Sulfur (S)-Total	2.4		0.50	mg/L		12-FEB-20	R4995872
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		12-FEB-20	R4995872
Thallium (Tl)-Total	0.0000022	<DL	0.00030	mg/L		12-FEB-20	R4995872
Thorium (Th)-Total	0.000050	<DL	0.00010	mg/L		12-FEB-20	R4995872
Tin (Sn)-Total	0.00010	<DL	0.0010	mg/L		12-FEB-20	R4995872
Titanium (Ti)-Total	0.00330		0.0020	mg/L		12-FEB-20	R4995872
Tungsten (W)-Total	0.000004	<DL	0.010	mg/L		12-FEB-20	R4995872
Uranium (U)-Total	0.000675	<DL	0.0050	mg/L		12-FEB-20	R4995872
Vanadium (V)-Total	0.00075	<DL	0.0010	mg/L		12-FEB-20	R4995872
Zinc (Zn)-Total	0.0036	<T	0.0030	mg/L		12-FEB-20	R4995872
Zirconium (Zr)-Total	0.000434	<DL	0.0010	mg/L		12-FEB-20	R4995872
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					12-FEB-20	R4995501
Aluminum (Al)-Dissolved	0.0316		0.0050	mg/L		12-FEB-20	R4995894
Antimony (Sb)-Dissolved	0.000070	<DL	0.00060	mg/L		12-FEB-20	R4995894
Arsenic (As)-Dissolved	0.000845	<DL	0.0010	mg/L		12-FEB-20	R4995894
Barium (Ba)-Dissolved	0.0147		0.010	mg/L		12-FEB-20	R4995894

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-8 SW20							
Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 14:00							
Matrix: Water							
Dissolved Metals							
Beryllium (Be)-Dissolved	0.000014	<DL	0.0010	mg/L		12-FEB-20	R4995894
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995894
Boron (B)-Dissolved	0.0145	<DL	0.050	mg/L		12-FEB-20	R4995894
Cadmium (Cd)-Dissolved	0.0000090	<DL	0.000017	mg/L		12-FEB-20	R4995894
Calcium (Ca)-Dissolved	41.8		0.20	mg/L		12-FEB-20	R4995894
Cesium (Cs)-Dissolved	0.0000015	<DL	0.000010	mg/L		12-FEB-20	R4995894
Chromium (Cr)-Dissolved	0.00030	<DL	0.0010	mg/L		12-FEB-20	R4995894
Cobalt (Co)-Dissolved	0.000638	<T	0.00050	mg/L		12-FEB-20	R4995894
Copper (Cu)-Dissolved	0.00056	<DL	0.0010	mg/L		12-FEB-20	R4995894
Iron (Fe)-Dissolved	0.998		0.020	mg/L		12-FEB-20	R4995894
Lead (Pb)-Dissolved	0.000065	<T	0.000050	mg/L		12-FEB-20	R4995894
Lithium (Li)-Dissolved	0.0074	<DL	0.050	mg/L		12-FEB-20	R4995894
Magnesium (Mg)-Dissolved	17.9		0.020	mg/L		12-FEB-20	R4995894
Manganese (Mn)-Dissolved	0.366		0.0010	mg/L		12-FEB-20	R4995894
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996059
Molybdenum (Mo)-Dissolved	0.000198	<DL	0.0010	mg/L		12-FEB-20	R4995894
Nickel (Ni)-Dissolved	0.00148	<DL	0.0020	mg/L		12-FEB-20	R4995894
Phosphorus (P)-Dissolved	0.038	<DL	0.050	mg/L		12-FEB-20	R4995894
Potassium (K)-Dissolved	1.65		0.50	mg/L		12-FEB-20	R4995894
Rubidium (Rb)-Dissolved	0.00140		0.00020	mg/L		12-FEB-20	R4995894
Selenium (Se)-Dissolved	0.000180	<T	0.000050	mg/L		12-FEB-20	R4995894
Silicon (Si)-Dissolved	7.71		0.050	mg/L		12-FEB-20	R4995894
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		12-FEB-20	R4995894
Sodium (Na)-Dissolved	7.17		0.10	mg/L		12-FEB-20	R4995894
Strontium (Sr)-Dissolved	0.111		0.0010	mg/L		12-FEB-20	R4995894
Sulfur (S)-Dissolved	2.7		0.50	mg/L		12-FEB-20	R4995894
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		12-FEB-20	R4995894
Thallium (Tl)-Dissolved	0.0000011	<DL	0.00030	mg/L		12-FEB-20	R4995894
Thorium (Th)-Dissolved	0.000054	<DL	0.00010	mg/L		12-FEB-20	R4995894
Tin (Sn)-Dissolved	0.000060	<DL	0.0010	mg/L		12-FEB-20	R4995894
Titanium (Ti)-Dissolved	0.00218		0.0020	mg/L		12-FEB-20	R4995894
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		12-FEB-20	R4995894
Uranium (U)-Dissolved	0.000643	<DL	0.0050	mg/L		12-FEB-20	R4995894
Vanadium (V)-Dissolved	0.00052	<DL	0.0010	mg/L		12-FEB-20	R4995894
Zinc (Zn)-Dissolved	0.0046	<T	0.0030	mg/L		12-FEB-20	R4995894
Zirconium (Zr)-Dissolved	0.000472	<DL	0.0010	mg/L		12-FEB-20	R4995894
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		12-FEB-20	R4997379
Chemical Oxygen Demand	87		20	mg/L		11-FEB-20	R4993747
Oil and Grease, Total	0.8	<DL	1.0	mg/L	13-FEB-20	13-FEB-20	R4995905
Radiological Parameters							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-8 SW20 Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 14:00 Matrix: Water							
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		26-FEB-20	R5011280
L2415374-9 SW21A Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 13:55 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	9.57		0	mg/L		13-FEB-20	R4995868
pH, Client Supplied	7.33		0.10	pH		13-FEB-20	R4995868
Temperature, Client Supplied	1.88		0	Degree C		13-FEB-20	R4995868
Physical Tests							
Color, True	102		2.0	CU		11-FEB-20	R4993875
Conductivity (EC)	393		1.0	uS/cm		12-FEB-20	R4995781
Hardness (as CaCO3)	205		0.51	mg/L		13-FEB-20	
pH	7.49		0.10	pH		12-FEB-20	R4995781
Total Suspended Solids	8.5		2.0	mg/L		11-FEB-20	R4995114
Total Dissolved Solids	278		20	mg/L		11-FEB-20	R4995442
Turbidity	9.51		0.10	NTU		12-FEB-20	R4995514
Anions and Nutrients							
Acidity (as CaCO3)	8.6		2.0	mg/L		14-FEB-20	R4997017
Alkalinity, Total (as CaCO3)	198		2.0	mg/L		12-FEB-20	R4995781
Ammonia, Total (as N)	0.086	<T	0.020	mg/L		12-FEB-20	R4995298
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		13-FEB-20	
Chloride (Cl)	9.11		0.10	mg/L		11-FEB-20	R4994946
Fluoride (F)	0.050		0.020	mg/L		11-FEB-20	R4994946
Nitrate (as N)	0.045	<T	0.020	mg/L		11-FEB-20	R4994946
Nitrite (as N)	<0.0005	<W	0.010	mg/L		11-FEB-20	R4994946
Orthophosphate-Dissolved (as P)	0.0583		0.0030	mg/L		11-FEB-20	R4993667
Sulfate (SO4)	5.38		0.30	mg/L		11-FEB-20	R4994946
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Total	0.0008	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Free	0.0011	<DL	0.0020	mg/L		12-FEB-20	R4996271
Organic / Inorganic Carbon							
Dissolved Organic Carbon	32.6		0.50	mg/L		12-FEB-20	R4995763
Total Organic Carbon	34.4		0.50	mg/L		12-FEB-20	R4995758
Total Metals							
Aluminum (Al)-Total	0.208		0.0050	mg/L		12-FEB-20	R4995872
Antimony (Sb)-Total	0.00004	<DL	0.00060	mg/L		12-FEB-20	R4995872
Arsenic (As)-Total	0.00099	<DL	0.0010	mg/L		12-FEB-20	R4995872
Barium (Ba)-Total	0.0187		0.010	mg/L		12-FEB-20	R4995872
Beryllium (Be)-Total	0.000017	<DL	0.0010	mg/L		12-FEB-20	R4995872
Bismuth (Bi)-Total	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995872
Boron (B)-Total	0.0140	<DL	0.050	mg/L		12-FEB-20	R4995872

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-9 SW21A							
Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 13:55							
Matrix: Water							
Total Metals							
Cadmium (Cd)-Total	0.000016	<DL	0.000017	mg/L		12-FEB-20	R4995872
Calcium (Ca)-Total	51.0		0.20	mg/L		12-FEB-20	R4995872
Cesium (Cs)-Total	0.0000285		0.000010	mg/L		12-FEB-20	R4995872
Chromium (Cr)-Total	0.00070	<DL	0.0010	mg/L		12-FEB-20	R4995872
Cobalt (Co)-Total	0.000655	<T	0.00050	mg/L		12-FEB-20	R4995872
Copper (Cu)-Total	0.00128	<T	0.0010	mg/L		12-FEB-20	R4995872
Iron (Fe)-Total	1.45		0.020	mg/L		12-FEB-20	R4995872
Lead (Pb)-Total	0.000255	<T	0.000050	mg/L		12-FEB-20	R4995872
Lithium (Li)-Total	0.0066	<DL	0.050	mg/L		12-FEB-20	R4995872
Magnesium (Mg)-Total	21.3		0.020	mg/L		12-FEB-20	R4995872
Manganese (Mn)-Total	0.317		0.0010	mg/L		12-FEB-20	R4995872
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		13-FEB-20	R4996032
Molybdenum (Mo)-Total	0.000255	<DL	0.0010	mg/L		12-FEB-20	R4995872
Nickel (Ni)-Total	0.00210	<T	0.0020	mg/L		12-FEB-20	R4995872
Phosphorus (P)-Total	0.100		0.050	mg/L		12-FEB-20	R4995872
Potassium (K)-Total	1.80		0.50	mg/L		12-FEB-20	R4995872
Rubidium (Rb)-Total	0.00172		0.00020	mg/L		12-FEB-20	R4995872
Selenium (Se)-Total	0.000160	<T	0.000050	mg/L		12-FEB-20	R4995872
Silicon (Si)-Total	8.13		0.10	mg/L		12-FEB-20	R4995872
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		12-FEB-20	R4995872
Sodium (Na)-Total	6.90		0.10	mg/L		12-FEB-20	R4995872
Strontium (Sr)-Total	0.123		0.0010	mg/L		12-FEB-20	R4995872
Sulfur (S)-Total	2.3		0.50	mg/L		12-FEB-20	R4995872
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		12-FEB-20	R4995872
Thallium (Tl)-Total	0.0000022	<DL	0.00030	mg/L		12-FEB-20	R4995872
Thorium (Th)-Total	0.000063	<DL	0.00010	mg/L		12-FEB-20	R4995872
Tin (Sn)-Total	0.00009	<DL	0.0010	mg/L		12-FEB-20	R4995872
Titanium (Ti)-Total	0.00684		0.0020	mg/L		12-FEB-20	R4995872
Tungsten (W)-Total	0.000012	<DL	0.010	mg/L		12-FEB-20	R4995872
Uranium (U)-Total	0.00112	<DL	0.0050	mg/L		12-FEB-20	R4995872
Vanadium (V)-Total	0.00110	<T	0.0010	mg/L		12-FEB-20	R4995872
Zinc (Zn)-Total	0.0190		0.0030	mg/L		12-FEB-20	R4995872
Zirconium (Zr)-Total	0.000554	<DL	0.0010	mg/L		12-FEB-20	R4995872
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					12-FEB-20	R4995501
Aluminum (Al)-Dissolved	0.0206	<T	0.0050	mg/L		12-FEB-20	R4995894
Antimony (Sb)-Dissolved	0.000060	<DL	0.00060	mg/L		12-FEB-20	R4995894
Arsenic (As)-Dissolved	0.000860	<DL	0.0010	mg/L		12-FEB-20	R4995894
Barium (Ba)-Dissolved	0.0164		0.010	mg/L		12-FEB-20	R4995894
Beryllium (Be)-Dissolved	0.000008	<DL	0.0010	mg/L		12-FEB-20	R4995894
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995894

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-9 SW21A Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 13:55 Matrix: Water							
Dissolved Metals							
Boron (B)-Dissolved	0.0135	<DL	0.050	mg/L		12-FEB-20	R4995894
Cadmium (Cd)-Dissolved	0.0000070	<DL	0.000017	mg/L		12-FEB-20	R4995894
Calcium (Ca)-Dissolved	48.2		0.20	mg/L		12-FEB-20	R4995894
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		12-FEB-20	R4995894
Chromium (Cr)-Dissolved	0.00024	<DL	0.0010	mg/L		12-FEB-20	R4995894
Cobalt (Co)-Dissolved	0.000500	<T	0.00050	mg/L		12-FEB-20	R4995894
Copper (Cu)-Dissolved	0.00068	<DL	0.0010	mg/L		12-FEB-20	R4995894
Iron (Fe)-Dissolved	0.909		0.020	mg/L		12-FEB-20	R4995894
Lead (Pb)-Dissolved	0.000100	<T	0.000050	mg/L		12-FEB-20	R4995894
Lithium (Li)-Dissolved	0.0064	<DL	0.050	mg/L		12-FEB-20	R4995894
Magnesium (Mg)-Dissolved	20.6		0.020	mg/L		12-FEB-20	R4995894
Manganese (Mn)-Dissolved	0.273		0.0010	mg/L		12-FEB-20	R4995894
Mercury (Hg)-Dissolved	0.000005	<DL	0.000030	mg/L		13-FEB-20	R4996059
Molybdenum (Mo)-Dissolved	0.000240	<DL	0.0010	mg/L		12-FEB-20	R4995894
Nickel (Ni)-Dissolved	0.00174	<DL	0.0020	mg/L		12-FEB-20	R4995894
Phosphorus (P)-Dissolved	0.066		0.050	mg/L		12-FEB-20	R4995894
Potassium (K)-Dissolved	1.79		0.50	mg/L		12-FEB-20	R4995894
Rubidium (Rb)-Dissolved	0.00133		0.00020	mg/L		12-FEB-20	R4995894
Selenium (Se)-Dissolved	0.000185	<T	0.000050	mg/L		12-FEB-20	R4995894
Silicon (Si)-Dissolved	7.56		0.050	mg/L		12-FEB-20	R4995894
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		12-FEB-20	R4995894
Sodium (Na)-Dissolved	6.79		0.10	mg/L		12-FEB-20	R4995894
Strontium (Sr)-Dissolved	0.116		0.0010	mg/L		12-FEB-20	R4995894
Sulfur (S)-Dissolved	2.5		0.50	mg/L		12-FEB-20	R4995894
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		12-FEB-20	R4995894
Thallium (Tl)-Dissolved	<0.0000001	<W	0.00030	mg/L		12-FEB-20	R4995894
Thorium (Th)-Dissolved	0.000046	<DL	0.00010	mg/L		12-FEB-20	R4995894
Tin (Sn)-Dissolved	0.000120	<DL	0.0010	mg/L		12-FEB-20	R4995894
Titanium (Ti)-Dissolved	0.00170	<DL	0.0020	mg/L		12-FEB-20	R4995894
Tungsten (W)-Dissolved	0.000008	<DL	0.010	mg/L		12-FEB-20	R4995894
Uranium (U)-Dissolved	0.00104	<DL	0.0050	mg/L		12-FEB-20	R4995894
Vanadium (V)-Dissolved	0.00058	<DL	0.0010	mg/L		12-FEB-20	R4995894
Zinc (Zn)-Dissolved	0.0146		0.0030	mg/L		12-FEB-20	R4995894
Zirconium (Zr)-Dissolved	0.000476	<DL	0.0010	mg/L		12-FEB-20	R4995894
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		12-FEB-20	R4997379
Chemical Oxygen Demand	81		20	mg/L		11-FEB-20	R4993747
Oil and Grease, Total	0.8	<DL	1.0	mg/L	13-FEB-20	13-FEB-20	R4995905
L2415374-10 SW22A Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 14:45 Matrix: Water							
Field Tests							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-10 SW22A							
Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 14:45							
Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	3.58		0	mg/L		13-FEB-20	R4995868
pH, Client Supplied	6.76		0.10	pH		13-FEB-20	R4995868
Temperature, Client Supplied	0		0	Degree C		13-FEB-20	R4995868
Physical Tests							
Color, True	96.7		2.0	CU		11-FEB-20	R4993875
Conductivity (EC)	377		1.0	uS/cm		12-FEB-20	R4995781
Hardness (as CaCO3)	198		0.51	mg/L		13-FEB-20	
pH	7.48		0.10	pH		12-FEB-20	R4995781
Total Suspended Solids	6.0		2.0	mg/L		11-FEB-20	R4995114
Total Dissolved Solids	272		20	mg/L		11-FEB-20	R4995442
Turbidity	8.97		0.10	NTU		12-FEB-20	R4995514
Anions and Nutrients							
Acidity (as CaCO3)	7.8		2.0	mg/L		14-FEB-20	R4997017
Alkalinity, Total (as CaCO3)	189		2.0	mg/L		12-FEB-20	R4995781
Ammonia, Total (as N)	0.070	<T	0.020	mg/L		12-FEB-20	R4995298
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		13-FEB-20	
Chloride (Cl)	9.76		0.10	mg/L		11-FEB-20	R4994946
Fluoride (F)	0.051		0.020	mg/L		11-FEB-20	R4994946
Nitrate (as N)	0.054	<T	0.020	mg/L		11-FEB-20	R4994946
Nitrite (as N)	0.0055	<DL	0.010	mg/L		11-FEB-20	R4994946
Orthophosphate-Dissolved (as P)	0.0456		0.0030	mg/L		11-FEB-20	R4993667
Sulfate (SO4)	5.40		0.30	mg/L		11-FEB-20	R4994946
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Total	0.0006	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Free	0.0008	<DL	0.0020	mg/L		12-FEB-20	R4996271
Organic / Inorganic Carbon							
Dissolved Organic Carbon	30.9		0.50	mg/L		12-FEB-20	R4995763
Total Organic Carbon	31.6		0.50	mg/L		12-FEB-20	R4995758
Total Metals							
Aluminum (Al)-Total	0.193		0.0050	mg/L		12-FEB-20	R4995872
Antimony (Sb)-Total	0.00004	<DL	0.00060	mg/L		12-FEB-20	R4995872
Arsenic (As)-Total	0.00103	<T	0.0010	mg/L		12-FEB-20	R4995872
Barium (Ba)-Total	0.0192		0.010	mg/L		12-FEB-20	R4995872
Beryllium (Be)-Total	0.000019	<DL	0.0010	mg/L		12-FEB-20	R4995872
Bismuth (Bi)-Total	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995872
Boron (B)-Total	0.0130	<DL	0.050	mg/L		12-FEB-20	R4995872
Cadmium (Cd)-Total	0.000014	<DL	0.000017	mg/L		12-FEB-20	R4995872
Calcium (Ca)-Total	50.1		0.20	mg/L		12-FEB-20	R4995872
Cesium (Cs)-Total	0.0000260		0.000010	mg/L		12-FEB-20	R4995872
Chromium (Cr)-Total	0.00058	<DL	0.0010	mg/L		12-FEB-20	R4995872
Cobalt (Co)-Total	0.000599	<T	0.00050	mg/L		12-FEB-20	R4995872

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-10 SW22A							
Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 14:45							
Matrix: Water							
Total Metals							
Copper (Cu)-Total	0.00116	<T	0.0010	mg/L		12-FEB-20	R4995872
Iron (Fe)-Total	1.25		0.020	mg/L		12-FEB-20	R4995872
Lead (Pb)-Total	0.000215	<T	0.000050	mg/L		12-FEB-20	R4995872
Lithium (Li)-Total	0.0066	<DL	0.050	mg/L		12-FEB-20	R4995872
Magnesium (Mg)-Total	21.1		0.020	mg/L		12-FEB-20	R4995872
Manganese (Mn)-Total	0.292		0.0010	mg/L		12-FEB-20	R4995872
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996032
Molybdenum (Mo)-Total	0.000355	<DL	0.0010	mg/L		12-FEB-20	R4995872
Nickel (Ni)-Total	0.00200	<T	0.0020	mg/L		12-FEB-20	R4995872
Phosphorus (P)-Total	0.080		0.050	mg/L		12-FEB-20	R4995872
Potassium (K)-Total	1.75		0.50	mg/L		12-FEB-20	R4995872
Rubidium (Rb)-Total	0.00165		0.00020	mg/L		12-FEB-20	R4995872
Selenium (Se)-Total	0.000160	<T	0.000050	mg/L		12-FEB-20	R4995872
Silicon (Si)-Total	7.75		0.10	mg/L		12-FEB-20	R4995872
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		12-FEB-20	R4995872
Sodium (Na)-Total	6.16		0.10	mg/L		12-FEB-20	R4995872
Strontium (Sr)-Total	0.116		0.0010	mg/L		12-FEB-20	R4995872
Sulfur (S)-Total	2.1		0.50	mg/L		12-FEB-20	R4995872
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		12-FEB-20	R4995872
Thallium (Tl)-Total	0.0000034	<DL	0.00030	mg/L		12-FEB-20	R4995872
Thorium (Th)-Total	0.000065	<DL	0.00010	mg/L		12-FEB-20	R4995872
Tin (Sn)-Total	0.00008	<DL	0.0010	mg/L		12-FEB-20	R4995872
Titanium (Ti)-Total	0.00678		0.0020	mg/L		12-FEB-20	R4995872
Tungsten (W)-Total	0.000006	<DL	0.010	mg/L		12-FEB-20	R4995872
Uranium (U)-Total	0.00127	<DL	0.0050	mg/L		12-FEB-20	R4995872
Vanadium (V)-Total	0.00115	<T	0.0010	mg/L		12-FEB-20	R4995872
Zinc (Zn)-Total	0.0086	<T	0.0030	mg/L		12-FEB-20	R4995872
Zirconium (Zr)-Total	0.000530	<DL	0.0010	mg/L		12-FEB-20	R4995872
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					12-FEB-20	R4995501
Aluminum (Al)-Dissolved	0.0208	<T	0.0050	mg/L		12-FEB-20	R4995894
Antimony (Sb)-Dissolved	0.000070	<DL	0.00060	mg/L		12-FEB-20	R4995894
Arsenic (As)-Dissolved	0.000875	<DL	0.0010	mg/L		12-FEB-20	R4995894
Barium (Ba)-Dissolved	0.0174		0.010	mg/L		12-FEB-20	R4995894
Beryllium (Be)-Dissolved	0.000012	<DL	0.0010	mg/L		12-FEB-20	R4995894
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995894
Boron (B)-Dissolved	0.0125	<DL	0.050	mg/L		12-FEB-20	R4995894
Cadmium (Cd)-Dissolved	0.0000080	<DL	0.000017	mg/L		12-FEB-20	R4995894
Calcium (Ca)-Dissolved	46.4		0.20	mg/L		12-FEB-20	R4995894
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		12-FEB-20	R4995894
Chromium (Cr)-Dissolved	0.00024	<DL	0.0010	mg/L		12-FEB-20	R4995894

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-10 SW22A Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 14:45 Matrix: Water							
Dissolved Metals							
Cobalt (Co)-Dissolved	0.000449	<DL	0.00050	mg/L		12-FEB-20	R4995894
Copper (Cu)-Dissolved	0.00098	<DL	0.0010	mg/L		12-FEB-20	R4995894
Iron (Fe)-Dissolved	0.779		0.020	mg/L		12-FEB-20	R4995894
Lead (Pb)-Dissolved	0.000095	<T	0.000050	mg/L		12-FEB-20	R4995894
Lithium (Li)-Dissolved	0.0060	<DL	0.050	mg/L		12-FEB-20	R4995894
Magnesium (Mg)-Dissolved	19.8		0.020	mg/L		12-FEB-20	R4995894
Manganese (Mn)-Dissolved	0.252		0.0010	mg/L		12-FEB-20	R4995894
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996059
Molybdenum (Mo)-Dissolved	0.000318	<DL	0.0010	mg/L		12-FEB-20	R4995894
Nickel (Ni)-Dissolved	0.00172	<DL	0.0020	mg/L		12-FEB-20	R4995894
Phosphorus (P)-Dissolved	0.050		0.050	mg/L		12-FEB-20	R4995894
Potassium (K)-Dissolved	1.68		0.50	mg/L		12-FEB-20	R4995894
Rubidium (Rb)-Dissolved	0.00124		0.00020	mg/L		12-FEB-20	R4995894
Selenium (Se)-Dissolved	0.000180	<T	0.000050	mg/L		12-FEB-20	R4995894
Silicon (Si)-Dissolved	7.14		0.050	mg/L		12-FEB-20	R4995894
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		12-FEB-20	R4995894
Sodium (Na)-Dissolved	5.91		0.10	mg/L		12-FEB-20	R4995894
Strontium (Sr)-Dissolved	0.111		0.0010	mg/L		12-FEB-20	R4995894
Sulfur (S)-Dissolved	2.3		0.50	mg/L		12-FEB-20	R4995894
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		12-FEB-20	R4995894
Thallium (Tl)-Dissolved	0.0000005	<DL	0.00030	mg/L		12-FEB-20	R4995894
Thorium (Th)-Dissolved	0.000050	<DL	0.00010	mg/L		12-FEB-20	R4995894
Tin (Sn)-Dissolved	0.000075	<DL	0.0010	mg/L		12-FEB-20	R4995894
Titanium (Ti)-Dissolved	0.00200		0.0020	mg/L		12-FEB-20	R4995894
Tungsten (W)-Dissolved	0.000004	<DL	0.010	mg/L		12-FEB-20	R4995894
Uranium (U)-Dissolved	0.00120	<DL	0.0050	mg/L		12-FEB-20	R4995894
Vanadium (V)-Dissolved	0.00058	<DL	0.0010	mg/L		12-FEB-20	R4995894
Zinc (Zn)-Dissolved	0.0088	<T	0.0030	mg/L		12-FEB-20	R4995894
Zirconium (Zr)-Dissolved	0.000470	<DL	0.0010	mg/L		12-FEB-20	R4995894
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		12-FEB-20	R4997379
Chemical Oxygen Demand	75		20	mg/L		11-FEB-20	R4993747
Oil and Grease, Total	0.8	<DL	1.0	mg/L	13-FEB-20	13-FEB-20	R4995905
L2415374-11 SW23 Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 10:45 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	9.32		0	mg/L		13-FEB-20	R4995868
pH, Client Supplied	6.93		0.10	pH		13-FEB-20	R4995868
Temperature, Client Supplied	.08		0	Degree C		13-FEB-20	R4995868
Physical Tests							
Color, True	102		2.0	CU		11-FEB-20	R4993875

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-11 SW23 Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 10:45 Matrix: Water							
Physical Tests							
Conductivity (EC)	336		1.0	uS/cm		12-FEB-20	R4995781
Hardness (as CaCO3)	182		0.51	mg/L		14-FEB-20	
pH	7.51		0.10	pH		12-FEB-20	R4995781
Total Suspended Solids	10.5		2.0	mg/L		11-FEB-20	R4995114
Total Dissolved Solids	252		13	mg/L		11-FEB-20	R4995442
Turbidity	14.2		0.10	NTU		12-FEB-20	R4995514
Anions and Nutrients							
Acidity (as CaCO3)	5.8		2.0	mg/L		14-FEB-20	R4997017
Alkalinity, Total (as CaCO3)	172		2.0	mg/L		12-FEB-20	R4995781
Ammonia, Total (as N)	0.064	<T	0.020	mg/L		12-FEB-20	R4995298
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		13-FEB-20	
Chloride (Cl)	5.76		0.10	mg/L		11-FEB-20	R4994946
Fluoride (F)	0.065		0.020	mg/L		11-FEB-20	R4994946
Nitrate (as N)	0.089	<T	0.020	mg/L		11-FEB-20	R4994946
Nitrite (as N)	<0.0005	<W	0.010	mg/L		11-FEB-20	R4994946
Orthophosphate-Dissolved (as P)	0.0310		0.0030	mg/L		11-FEB-20	R4993667
Sulfate (SO4)	3.64	<T	0.30	mg/L		11-FEB-20	R4994946
Cyanides							
Cyanide, Weak Acid Diss	0.0006	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Total	0.0010	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Free	0.0008	<DL	0.0020	mg/L		12-FEB-20	R4996271
Organic / Inorganic Carbon							
Dissolved Organic Carbon	34.3		0.50	mg/L		12-FEB-20	R4995763
Total Organic Carbon	30.6		0.50	mg/L		12-FEB-20	R4995758
Total Metals							
Aluminum (Al)-Total	0.322		0.0050	mg/L		13-FEB-20	R4996534
Antimony (Sb)-Total	0.00006	<DL	0.00060	mg/L		13-FEB-20	R4996534
Arsenic (As)-Total	0.00103	<T	0.0010	mg/L		13-FEB-20	R4996534
Barium (Ba)-Total	0.0183		0.010	mg/L		13-FEB-20	R4996534
Beryllium (Be)-Total	0.000032	<DL	0.0010	mg/L		13-FEB-20	R4996534
Bismuth (Bi)-Total	0.000012	<DL	0.0010	mg/L		13-FEB-20	R4996534
Boron (B)-Total	0.0105	<DL	0.050	mg/L		13-FEB-20	R4996534
Cadmium (Cd)-Total	0.000017	<T	0.000017	mg/L		13-FEB-20	R4996534
Calcium (Ca)-Total	43.9		0.20	mg/L		13-FEB-20	R4996534
Cesium (Cs)-Total	0.0000475		0.000010	mg/L		13-FEB-20	R4996534
Chromium (Cr)-Total	0.00086	<DL	0.0010	mg/L		13-FEB-20	R4996534
Cobalt (Co)-Total	0.000668	<T	0.00050	mg/L		13-FEB-20	R4996534
Copper (Cu)-Total	0.00142	<T	0.0010	mg/L		13-FEB-20	R4996534
Iron (Fe)-Total	1.48		0.020	mg/L		13-FEB-20	R4996534
Lead (Pb)-Total	0.000370	<T	0.000050	mg/L		13-FEB-20	R4996534
Lithium (Li)-Total	0.0056	<DL	0.050	mg/L		13-FEB-20	R4996534
Magnesium (Mg)-Total	18.8		0.020	mg/L		13-FEB-20	R4996534

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-11 SW23							
Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 10:45							
Matrix: Water							
Total Metals							
Manganese (Mn)-Total	0.222		0.0010	mg/L		13-FEB-20	R4996534
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996032
Molybdenum (Mo)-Total	0.000270	<DL	0.0010	mg/L		13-FEB-20	R4996534
Nickel (Ni)-Total	0.00218	<T	0.0020	mg/L		13-FEB-20	R4996534
Phosphorus (P)-Total	0.060		0.050	mg/L		13-FEB-20	R4996534
Potassium (K)-Total	1.56		0.50	mg/L		13-FEB-20	R4996534
Rubidium (Rb)-Total	0.00223		0.00020	mg/L		13-FEB-20	R4996534
Selenium (Se)-Total	0.000165	<T	0.000050	mg/L		13-FEB-20	R4996534
Silicon (Si)-Total	8.05		0.10	mg/L		13-FEB-20	R4996534
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		13-FEB-20	R4996534
Sodium (Na)-Total	4.30		0.10	mg/L		13-FEB-20	R4996534
Strontium (Sr)-Total	0.0938		0.0010	mg/L		13-FEB-20	R4996534
Sulfur (S)-Total	3.2		0.50	mg/L		13-FEB-20	R4996534
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		13-FEB-20	R4996534
Thallium (Tl)-Total	0.0000060	<DL	0.00030	mg/L		13-FEB-20	R4996534
Thorium (Th)-Total	0.000104		0.00010	mg/L		13-FEB-20	R4996534
Tin (Sn)-Total	0.00043	<DL	0.0010	mg/L		13-FEB-20	R4996534
Titanium (Ti)-Total	0.0106		0.0020	mg/L		13-FEB-20	R4996534
Tungsten (W)-Total	0.000004	<DL	0.010	mg/L		13-FEB-20	R4996534
Uranium (U)-Total	0.00101	<DL	0.0050	mg/L		13-FEB-20	R4996534
Vanadium (V)-Total	0.00150	<T	0.0010	mg/L		13-FEB-20	R4996534
Zinc (Zn)-Total	0.0046	<T	0.0030	mg/L		13-FEB-20	R4996534
Zirconium (Zr)-Total	0.000676	<DL	0.0010	mg/L		13-FEB-20	R4996534
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					12-FEB-20	R4995501
Aluminum (Al)-Dissolved	0.0314		0.0050	mg/L		12-FEB-20	R4995894
Antimony (Sb)-Dissolved	0.000050	<DL	0.00060	mg/L		12-FEB-20	R4995894
Arsenic (As)-Dissolved	0.000860	<DL	0.0010	mg/L		12-FEB-20	R4995894
Barium (Ba)-Dissolved	0.0145		0.010	mg/L		12-FEB-20	R4995894
Beryllium (Be)-Dissolved	0.000010	<DL	0.0010	mg/L		12-FEB-20	R4995894
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995894
Boron (B)-Dissolved	0.0095	<DL	0.050	mg/L		12-FEB-20	R4995894
Cadmium (Cd)-Dissolved	0.0000110	<DL	0.000017	mg/L		12-FEB-20	R4995894
Calcium (Ca)-Dissolved	41.8		0.20	mg/L		12-FEB-20	R4995894
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		12-FEB-20	R4995894
Chromium (Cr)-Dissolved	0.00022	<DL	0.0010	mg/L		12-FEB-20	R4995894
Cobalt (Co)-Dissolved	0.000344	<DL	0.00050	mg/L		12-FEB-20	R4995894
Copper (Cu)-Dissolved	0.00104	<T	0.0010	mg/L		12-FEB-20	R4995894
Iron (Fe)-Dissolved	0.812		0.020	mg/L		12-FEB-20	R4995894
Lead (Pb)-Dissolved	0.000130	<T	0.000050	mg/L		12-FEB-20	R4995894
Lithium (Li)-Dissolved	0.0050	<DL	0.050	mg/L		12-FEB-20	R4995894

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-11 SW23 Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 10:45 Matrix: Water							
Dissolved Metals							
Magnesium (Mg)-Dissolved	18.8		0.020	mg/L		12-FEB-20	R4995894
Manganese (Mn)-Dissolved	0.112		0.0010	mg/L		12-FEB-20	R4995894
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996059
Molybdenum (Mo)-Dissolved	0.000236	<DL	0.0010	mg/L		12-FEB-20	R4995894
Nickel (Ni)-Dissolved	0.00168	<DL	0.0020	mg/L		12-FEB-20	R4995894
Phosphorus (P)-Dissolved	0.036	<DL	0.050	mg/L		12-FEB-20	R4995894
Potassium (K)-Dissolved	1.42		0.50	mg/L		12-FEB-20	R4995894
Rubidium (Rb)-Dissolved	0.00134		0.00020	mg/L		12-FEB-20	R4995894
Selenium (Se)-Dissolved	0.000180	<T	0.000050	mg/L		12-FEB-20	R4995894
Silicon (Si)-Dissolved	7.45		0.050	mg/L		12-FEB-20	R4995894
Silver (Ag)-Dissolved	0.0000015	<DL	0.00010	mg/L		12-FEB-20	R4995894
Sodium (Na)-Dissolved	4.41		0.10	mg/L		12-FEB-20	R4995894
Strontium (Sr)-Dissolved	0.0888		0.0010	mg/L		12-FEB-20	R4995894
Sulfur (S)-Dissolved	1.5		0.50	mg/L		12-FEB-20	R4995894
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		12-FEB-20	R4995894
Thallium (Tl)-Dissolved	0.0000011	<DL	0.00030	mg/L		12-FEB-20	R4995894
Thorium (Th)-Dissolved	0.000052	<DL	0.00010	mg/L		12-FEB-20	R4995894
Tin (Sn)-Dissolved	0.000020	<DL	0.0010	mg/L		12-FEB-20	R4995894
Titanium (Ti)-Dissolved	0.00282		0.0020	mg/L		12-FEB-20	R4995894
Tungsten (W)-Dissolved	0.000002	<DL	0.010	mg/L		12-FEB-20	R4995894
Uranium (U)-Dissolved	0.000968	<DL	0.0050	mg/L		12-FEB-20	R4995894
Vanadium (V)-Dissolved	0.00062	<DL	0.0010	mg/L		12-FEB-20	R4995894
Zinc (Zn)-Dissolved	0.0022	<DL	0.0030	mg/L		12-FEB-20	R4995894
Zirconium (Zr)-Dissolved	0.000490	<DL	0.0010	mg/L		12-FEB-20	R4995894
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		12-FEB-20	R4997379
Chemical Oxygen Demand	85		20	mg/L		11-FEB-20	R4993747
Oil and Grease, Total	<0.2	<W	1.0	mg/L	13-FEB-20	13-FEB-20	R4995905
Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2415374-12 SW24 Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 11:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	0		0	mg/L		13-FEB-20	R4995868
pH, Client Supplied	7.13		0.10	pH		13-FEB-20	R4995868
Temperature, Client Supplied	0		0	Degree C		13-FEB-20	R4995868
Physical Tests							
Color, True	106		2.0	CU		11-FEB-20	R4993875
Conductivity (EC)	336		1.0	uS/cm		12-FEB-20	R4995781
Hardness (as CaCO3)	180		0.51	mg/L		13-FEB-20	
pH	7.49		0.10	pH		12-FEB-20	R4995781
Total Suspended Solids	9.5		2.0	mg/L		11-FEB-20	R4995114

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-12 SW24							
Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 11:00							
Matrix: Water							
Physical Tests							
Total Dissolved Solids	244		20	mg/L		11-FEB-20	R4995442
Turbidity	13.7		0.10	NTU		12-FEB-20	R4995514
Anions and Nutrients							
Acidity (as CaCO3)	6.6		2.0	mg/L		14-FEB-20	R4997017
Alkalinity, Total (as CaCO3)	176		2.0	mg/L		12-FEB-20	R4995781
Ammonia, Total (as N)	0.068	<T	0.020	mg/L		12-FEB-20	R4995298
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		13-FEB-20	
Chloride (Cl)	5.86		0.10	mg/L		11-FEB-20	R4994946
Fluoride (F)	0.047		0.020	mg/L		11-FEB-20	R4994946
Nitrate (as N)	0.088	<T	0.020	mg/L		11-FEB-20	R4994946
Nitrite (as N)	0.0020	<DL	0.010	mg/L		11-FEB-20	R4994946
Orthophosphate-Dissolved (as P)	0.0319		0.0030	mg/L		11-FEB-20	R4993667
Sulfate (SO4)	3.68	<T	0.30	mg/L		11-FEB-20	R4994946
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Total	0.0008	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Free	0.0007	<DL	0.0020	mg/L		12-FEB-20	R4996271
Organic / Inorganic Carbon							
Dissolved Organic Carbon	35.1		0.50	mg/L		12-FEB-20	R4995763
Total Organic Carbon	30.5		0.50	mg/L		12-FEB-20	R4995758
Total Metals							
Aluminum (Al)-Total	0.313		0.0050	mg/L		12-FEB-20	R4995872
Antimony (Sb)-Total	0.00004	<DL	0.00060	mg/L		12-FEB-20	R4995872
Arsenic (As)-Total	0.00102	<T	0.0010	mg/L		12-FEB-20	R4995872
Barium (Ba)-Total	0.0177		0.010	mg/L		12-FEB-20	R4995872
Beryllium (Be)-Total	0.000021	<DL	0.0010	mg/L		12-FEB-20	R4995872
Bismuth (Bi)-Total	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995872
Boron (B)-Total	0.0105	<DL	0.050	mg/L		12-FEB-20	R4995872
Cadmium (Cd)-Total	0.000015	<DL	0.000017	mg/L		12-FEB-20	R4995872
Calcium (Ca)-Total	44.3		0.20	mg/L		12-FEB-20	R4995872
Cesium (Cs)-Total	0.0000430		0.000010	mg/L		12-FEB-20	R4995872
Chromium (Cr)-Total	0.00076	<DL	0.0010	mg/L		12-FEB-20	R4995872
Cobalt (Co)-Total	0.000632	<T	0.00050	mg/L		12-FEB-20	R4995872
Copper (Cu)-Total	0.00150	<T	0.0010	mg/L		12-FEB-20	R4995872
Iron (Fe)-Total	1.39		0.020	mg/L		12-FEB-20	R4995872
Lead (Pb)-Total	0.000350	<T	0.000050	mg/L		12-FEB-20	R4995872
Lithium (Li)-Total	0.0058	<DL	0.050	mg/L		12-FEB-20	R4995872
Magnesium (Mg)-Total	18.9		0.020	mg/L		12-FEB-20	R4995872
Manganese (Mn)-Total	0.213		0.0010	mg/L		12-FEB-20	R4995872
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		13-FEB-20	R4996032
Molybdenum (Mo)-Total	0.000245	<DL	0.0010	mg/L		12-FEB-20	R4995872
Nickel (Ni)-Total	0.00216	<T	0.0020	mg/L		12-FEB-20	R4995872

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-12 SW24							
Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 11:00							
Matrix: Water							
Total Metals							
Phosphorus (P)-Total	0.070		0.050	mg/L		12-FEB-20	R4995872
Potassium (K)-Total	1.45		0.50	mg/L		12-FEB-20	R4995872
Rubidium (Rb)-Total	0.00209		0.00020	mg/L		12-FEB-20	R4995872
Selenium (Se)-Total	0.000170	<T	0.000050	mg/L		12-FEB-20	R4995872
Silicon (Si)-Total	8.30		0.10	mg/L		12-FEB-20	R4995872
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		12-FEB-20	R4995872
Sodium (Na)-Total	4.46		0.10	mg/L		12-FEB-20	R4995872
Strontium (Sr)-Total	0.0964		0.0010	mg/L		12-FEB-20	R4995872
Sulfur (S)-Total	1.5		0.50	mg/L		12-FEB-20	R4995872
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		12-FEB-20	R4995872
Thallium (Tl)-Total	0.0000054	<DL	0.00030	mg/L		12-FEB-20	R4995872
Thorium (Th)-Total	0.000095	<DL	0.00010	mg/L		12-FEB-20	R4995872
Tin (Sn)-Total	0.00005	<DL	0.0010	mg/L		12-FEB-20	R4995872
Titanium (Ti)-Total	0.0104		0.0020	mg/L		12-FEB-20	R4995872
Tungsten (W)-Total	0.000002	<DL	0.010	mg/L		12-FEB-20	R4995872
Uranium (U)-Total	0.00105	<DL	0.0050	mg/L		12-FEB-20	R4995872
Vanadium (V)-Total	0.00145	<T	0.0010	mg/L		12-FEB-20	R4995872
Zinc (Zn)-Total	0.0044	<T	0.0030	mg/L		12-FEB-20	R4995872
Zirconium (Zr)-Total	0.000658	<DL	0.0010	mg/L		12-FEB-20	R4995872
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					12-FEB-20	R4995501
Aluminum (Al)-Dissolved	0.0338		0.0050	mg/L		12-FEB-20	R4995894
Antimony (Sb)-Dissolved	0.000050	<DL	0.00060	mg/L		12-FEB-20	R4995894
Arsenic (As)-Dissolved	0.000855	<DL	0.0010	mg/L		12-FEB-20	R4995894
Barium (Ba)-Dissolved	0.0141		0.010	mg/L		12-FEB-20	R4995894
Beryllium (Be)-Dissolved	0.000014	<DL	0.0010	mg/L		12-FEB-20	R4995894
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995894
Boron (B)-Dissolved	0.0090	<DL	0.050	mg/L		12-FEB-20	R4995894
Cadmium (Cd)-Dissolved	0.0000100	<DL	0.000017	mg/L		12-FEB-20	R4995894
Calcium (Ca)-Dissolved	41.6		0.20	mg/L		12-FEB-20	R4995894
Cesium (Cs)-Dissolved	0.0000015	<DL	0.000010	mg/L		12-FEB-20	R4995894
Chromium (Cr)-Dissolved	0.00022	<DL	0.0010	mg/L		12-FEB-20	R4995894
Cobalt (Co)-Dissolved	0.000308	<DL	0.00050	mg/L		12-FEB-20	R4995894
Copper (Cu)-Dissolved	0.00110	<T	0.0010	mg/L		12-FEB-20	R4995894
Iron (Fe)-Dissolved	0.795		0.020	mg/L		12-FEB-20	R4995894
Lead (Pb)-Dissolved	0.000130	<T	0.000050	mg/L		12-FEB-20	R4995894
Lithium (Li)-Dissolved	0.0052	<DL	0.050	mg/L		12-FEB-20	R4995894
Magnesium (Mg)-Dissolved	18.4		0.020	mg/L		12-FEB-20	R4995894
Manganese (Mn)-Dissolved	0.0973		0.0010	mg/L		12-FEB-20	R4995894
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996059
Molybdenum (Mo)-Dissolved	0.000238	<DL	0.0010	mg/L		12-FEB-20	R4995894

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-12 SW24 Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 11:00 Matrix: Water							
Dissolved Metals							
Nickel (Ni)-Dissolved	0.00160	<DL	0.0020	mg/L		12-FEB-20	R4995894
Phosphorus (P)-Dissolved	0.038	<DL	0.050	mg/L		12-FEB-20	R4995894
Potassium (K)-Dissolved	1.41		0.50	mg/L		12-FEB-20	R4995894
Rubidium (Rb)-Dissolved	0.00139		0.00020	mg/L		12-FEB-20	R4995894
Selenium (Se)-Dissolved	0.000185	<T	0.000050	mg/L		12-FEB-20	R4995894
Silicon (Si)-Dissolved	7.36		0.050	mg/L		12-FEB-20	R4995894
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		12-FEB-20	R4995894
Sodium (Na)-Dissolved	4.45		0.10	mg/L		12-FEB-20	R4995894
Strontium (Sr)-Dissolved	0.0894		0.0010	mg/L		12-FEB-20	R4995894
Sulfur (S)-Dissolved	1.6		0.50	mg/L		12-FEB-20	R4995894
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		12-FEB-20	R4995894
Thallium (Tl)-Dissolved	0.0000008	<DL	0.00030	mg/L		12-FEB-20	R4995894
Thorium (Th)-Dissolved	0.000056	<DL	0.00010	mg/L		12-FEB-20	R4995894
Tin (Sn)-Dissolved	0.000135	<DL	0.0010	mg/L		12-FEB-20	R4995894
Titanium (Ti)-Dissolved	0.00300		0.0020	mg/L		12-FEB-20	R4995894
Tungsten (W)-Dissolved	0.000002	<DL	0.010	mg/L		12-FEB-20	R4995894
Uranium (U)-Dissolved	0.000947	<DL	0.0050	mg/L		12-FEB-20	R4995894
Vanadium (V)-Dissolved	0.00060	<DL	0.0010	mg/L		12-FEB-20	R4995894
Zinc (Zn)-Dissolved	0.0034	<T	0.0030	mg/L		12-FEB-20	R4995894
Zirconium (Zr)-Dissolved	0.000534	<DL	0.0010	mg/L		12-FEB-20	R4995894
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		13-FEB-20	R4997855
Chemical Oxygen Demand	78		20	mg/L		11-FEB-20	R4993747
Oil and Grease, Total	<0.2	<W	1.0	mg/L	13-FEB-20	13-FEB-20	R4995905
Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2415374-13 SW25 Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 12:30 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	12.7		0	mg/L		13-FEB-20	R4995868
pH, Client Supplied	7.51		0.10	pH		13-FEB-20	R4995868
Temperature, Client Supplied	0		0	Degree C		13-FEB-20	R4995868
Physical Tests							
Color, True	91.1		2.0	CU		11-FEB-20	R4993875
Conductivity (EC)	283		1.0	uS/cm		12-FEB-20	R4995781
Hardness (as CaCO3)	154		0.51	mg/L		13-FEB-20	
pH	7.68		0.10	pH		12-FEB-20	R4995781
Total Suspended Solids	2.0	<T	2.0	mg/L		11-FEB-20	R4995114
Total Dissolved Solids	208		13	mg/L		11-FEB-20	R4995442
Turbidity	3.29		0.10	NTU		12-FEB-20	R4995514
Anions and Nutrients							
Acidity (as CaCO3)	2.6		2.1	mg/L		14-FEB-20	R4997017

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-13 SW25							
Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 12:30							
Matrix: Water							
Anions and Nutrients							
Alkalinity, Total (as CaCO3)	136		2.0	mg/L		12-FEB-20	R4995781
Ammonia, Total (as N)	0.054	<T	0.020	mg/L		12-FEB-20	R4995298
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		13-FEB-20	
Chloride (Cl)	8.48		0.10	mg/L		11-FEB-20	R4994946
Fluoride (F)	0.046		0.020	mg/L		11-FEB-20	R4994946
Nitrate (as N)	0.062	<T	0.020	mg/L		11-FEB-20	R4994946
Nitrite (as N)	0.0010	<DL	0.010	mg/L		11-FEB-20	R4994946
Orthophosphate-Dissolved (as P)	0.0065		0.0030	mg/L		11-FEB-20	R4993667
Sulfate (SO4)	3.84	<T	0.30	mg/L		11-FEB-20	R4994946
Cyanides							
Cyanide, Weak Acid Diss	0.0009	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Total	0.0018	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Free	0.0007	<DL	0.0020	mg/L		12-FEB-20	R4996271
Organic / Inorganic Carbon							
Dissolved Organic Carbon	27.6		0.50	mg/L		12-FEB-20	R4995763
Total Organic Carbon	28.3		0.50	mg/L		12-FEB-20	R4995758
Total Metals							
Aluminum (Al)-Total	0.0802		0.0050	mg/L		12-FEB-20	R4995872
Antimony (Sb)-Total	0.00010	<DL	0.00060	mg/L		12-FEB-20	R4995872
Arsenic (As)-Total	0.00073	<DL	0.0010	mg/L		12-FEB-20	R4995872
Barium (Ba)-Total	0.0158		0.010	mg/L		12-FEB-20	R4995872
Beryllium (Be)-Total	0.000010	<DL	0.0010	mg/L		12-FEB-20	R4995872
Bismuth (Bi)-Total	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995872
Boron (B)-Total	0.0075	<DL	0.050	mg/L		12-FEB-20	R4995872
Cadmium (Cd)-Total	0.000008	<DL	0.000017	mg/L		12-FEB-20	R4995872
Calcium (Ca)-Total	40.1		0.20	mg/L		12-FEB-20	R4995872
Cesium (Cs)-Total	0.0000090	<DL	0.000010	mg/L		12-FEB-20	R4995872
Chromium (Cr)-Total	0.00030	<DL	0.0010	mg/L		12-FEB-20	R4995872
Cobalt (Co)-Total	0.000351	<DL	0.00050	mg/L		12-FEB-20	R4995872
Copper (Cu)-Total	0.00158	<T	0.0010	mg/L		12-FEB-20	R4995872
Iron (Fe)-Total	0.557		0.020	mg/L		12-FEB-20	R4995872
Lead (Pb)-Total	0.000115	<T	0.000050	mg/L		12-FEB-20	R4995872
Lithium (Li)-Total	0.0032	<DL	0.050	mg/L		12-FEB-20	R4995872
Magnesium (Mg)-Total	14.9		0.020	mg/L		12-FEB-20	R4995872
Manganese (Mn)-Total	0.195		0.0010	mg/L		12-FEB-20	R4995872
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		13-FEB-20	R4996032
Molybdenum (Mo)-Total	0.000455	<DL	0.0010	mg/L		12-FEB-20	R4995872
Nickel (Ni)-Total	0.00132	<DL	0.0020	mg/L		12-FEB-20	R4995872
Phosphorus (P)-Total	0.015	<DL	0.050	mg/L		12-FEB-20	R4995872
Potassium (K)-Total	1.31		0.50	mg/L		12-FEB-20	R4995872
Rubidium (Rb)-Total	0.00153		0.00020	mg/L		12-FEB-20	R4995872
Selenium (Se)-Total	0.000125	<T	0.000050	mg/L		12-FEB-20	R4995872

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-13 SW25							
Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 12:30							
Matrix: Water							
Total Metals							
Silicon (Si)-Total	5.62		0.10	mg/L		12-FEB-20	R4995872
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		12-FEB-20	R4995872
Sodium (Na)-Total	2.74		0.10	mg/L		12-FEB-20	R4995872
Strontium (Sr)-Total	0.0738		0.0010	mg/L		12-FEB-20	R4995872
Sulfur (S)-Total	1.4		0.50	mg/L		12-FEB-20	R4995872
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		12-FEB-20	R4995872
Thallium (Tl)-Total	0.0000024	<DL	0.00030	mg/L		12-FEB-20	R4995872
Thorium (Th)-Total	0.000041	<DL	0.00010	mg/L		12-FEB-20	R4995872
Tin (Sn)-Total	0.00015	<DL	0.0010	mg/L		12-FEB-20	R4995872
Titanium (Ti)-Total	0.00276		0.0020	mg/L		12-FEB-20	R4995872
Tungsten (W)-Total	0.000004	<DL	0.010	mg/L		12-FEB-20	R4995872
Uranium (U)-Total	0.00110	<DL	0.0050	mg/L		12-FEB-20	R4995872
Vanadium (V)-Total	0.00065	<DL	0.0010	mg/L		12-FEB-20	R4995872
Zinc (Zn)-Total	0.0104		0.0030	mg/L		12-FEB-20	R4995872
Zirconium (Zr)-Total	0.000296	<DL	0.0010	mg/L		12-FEB-20	R4995872
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					12-FEB-20	R4995501
Aluminum (Al)-Dissolved	0.0226	<T	0.0050	mg/L		12-FEB-20	R4995894
Antimony (Sb)-Dissolved	0.000200	<DL	0.00060	mg/L		12-FEB-20	R4995894
Arsenic (As)-Dissolved	0.000705	<DL	0.0010	mg/L		12-FEB-20	R4995894
Barium (Ba)-Dissolved	0.0150		0.010	mg/L		12-FEB-20	R4995894
Beryllium (Be)-Dissolved	0.000002	<DL	0.0010	mg/L		12-FEB-20	R4995894
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995894
Boron (B)-Dissolved	0.0075	<DL	0.050	mg/L		12-FEB-20	R4995894
Cadmium (Cd)-Dissolved	0.0000050	<DL	0.000017	mg/L		12-FEB-20	R4995894
Calcium (Ca)-Dissolved	37.7		0.20	mg/L		12-FEB-20	R4995894
Cesium (Cs)-Dissolved	0.0000015	<DL	0.000010	mg/L		12-FEB-20	R4995894
Chromium (Cr)-Dissolved	0.00016	<DL	0.0010	mg/L		12-FEB-20	R4995894
Cobalt (Co)-Dissolved	0.000298	<DL	0.00050	mg/L		12-FEB-20	R4995894
Copper (Cu)-Dissolved	0.00144	<T	0.0010	mg/L		12-FEB-20	R4995894
Iron (Fe)-Dissolved	0.425		0.020	mg/L		12-FEB-20	R4995894
Lead (Pb)-Dissolved	0.000035	<DL	0.000050	mg/L		12-FEB-20	R4995894
Lithium (Li)-Dissolved	0.0030	<DL	0.050	mg/L		12-FEB-20	R4995894
Magnesium (Mg)-Dissolved	14.5		0.020	mg/L		12-FEB-20	R4995894
Manganese (Mn)-Dissolved	0.185		0.0010	mg/L		12-FEB-20	R4995894
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996059
Molybdenum (Mo)-Dissolved	0.000432	<DL	0.0010	mg/L		12-FEB-20	R4995894
Nickel (Ni)-Dissolved	0.00118	<DL	0.0020	mg/L		12-FEB-20	R4995894
Phosphorus (P)-Dissolved	0.006	<DL	0.050	mg/L		12-FEB-20	R4995894
Potassium (K)-Dissolved	1.33		0.50	mg/L		12-FEB-20	R4995894
Rubidium (Rb)-Dissolved	0.00134		0.00020	mg/L		12-FEB-20	R4995894

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-13 SW25 Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 12:30 Matrix: Water							
Dissolved Metals							
Selenium (Se)-Dissolved	0.000180	<T	0.000050	mg/L		12-FEB-20	R4995894
Silicon (Si)-Dissolved	5.39		0.050	mg/L		12-FEB-20	R4995894
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		12-FEB-20	R4995894
Sodium (Na)-Dissolved	2.84		0.10	mg/L		12-FEB-20	R4995894
Strontium (Sr)-Dissolved	0.0698		0.0010	mg/L		12-FEB-20	R4995894
Sulfur (S)-Dissolved	1.4		0.50	mg/L		12-FEB-20	R4995894
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		12-FEB-20	R4995894
Thallium (Tl)-Dissolved	0.0000017	<DL	0.00030	mg/L		12-FEB-20	R4995894
Thorium (Th)-Dissolved	0.000040	<DL	0.00010	mg/L		12-FEB-20	R4995894
Tin (Sn)-Dissolved	0.000110	<DL	0.0010	mg/L		12-FEB-20	R4995894
Titanium (Ti)-Dissolved	0.00154	<DL	0.0020	mg/L		12-FEB-20	R4995894
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		12-FEB-20	R4995894
Uranium (U)-Dissolved	0.00101	<DL	0.0050	mg/L		12-FEB-20	R4995894
Vanadium (V)-Dissolved	0.00046	<DL	0.0010	mg/L		12-FEB-20	R4995894
Zinc (Zn)-Dissolved	0.0120		0.0030	mg/L		12-FEB-20	R4995894
Zirconium (Zr)-Dissolved	0.000358	<DL	0.0010	mg/L		12-FEB-20	R4995894
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		13-FEB-20	R4997855
Chemical Oxygen Demand	66		20	mg/L		11-FEB-20	R4993747
Oil and Grease, Total	0.2	<DL	1.0	mg/L	13-FEB-20	13-FEB-20	R4995905
Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2415374-14 SW26 Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 13:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	4.99		0	mg/L		13-FEB-20	R4995868
pH, Client Supplied	8.18		0.10	pH		13-FEB-20	R4995868
Temperature, Client Supplied	0		0	Degree C		13-FEB-20	R4995868
Physical Tests							
Color, True	85.1		2.0	CU		11-FEB-20	R4993875
Conductivity (EC)	300		1.0	uS/cm		12-FEB-20	R4995781
Hardness (as CaCO3)	168		0.51	mg/L		14-FEB-20	
pH	7.79		0.10	pH		12-FEB-20	R4995781
Total Suspended Solids	3.0		2.0	mg/L		11-FEB-20	R4995114
Total Dissolved Solids	216		13	mg/L		11-FEB-20	R4995442
Turbidity	5.55		0.10	NTU		12-FEB-20	R4995514
Anions and Nutrients							
Acidity (as CaCO3)	1.8	<DL	2.1	mg/L		14-FEB-20	R4997017
Alkalinity, Total (as CaCO3)	146		2.0	mg/L		12-FEB-20	R4995781
Ammonia, Total (as N)	0.052	<T	0.020	mg/L		12-FEB-20	R4995298
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		13-FEB-20	
Chloride (Cl)	8.66		0.10	mg/L		11-FEB-20	R4994946

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-14 SW26							
Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 13:00							
Matrix: Water							
Anions and Nutrients							
Fluoride (F)	0.052		0.020	mg/L		11-FEB-20	R4994946
Nitrate (as N)	0.116	<T	0.020	mg/L		11-FEB-20	R4994946
Nitrite (as N)	<0.0005	<W	0.010	mg/L		11-FEB-20	R4994946
Orthophosphate-Dissolved (as P)	0.0072		0.0030	mg/L		11-FEB-20	R4993667
Sulfate (SO4)	5.38		0.30	mg/L		11-FEB-20	R4994946
Cyanides							
Cyanide, Weak Acid Diss	0.0007	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Total	0.0010	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Free	0.0008	<DL	0.0020	mg/L		12-FEB-20	R4996271
Organic / Inorganic Carbon							
Dissolved Organic Carbon	26.2		0.50	mg/L		12-FEB-20	R4995763
Total Organic Carbon	27.6		0.50	mg/L		12-FEB-20	R4995758
Total Metals							
Aluminum (Al)-Total	0.104		0.0050	mg/L		13-FEB-20	R4996534
Antimony (Sb)-Total	0.00008	<DL	0.00060	mg/L		13-FEB-20	R4996534
Arsenic (As)-Total	0.00091	<DL	0.0010	mg/L		13-FEB-20	R4996534
Barium (Ba)-Total	0.0172		0.010	mg/L		13-FEB-20	R4996534
Beryllium (Be)-Total	0.000011	<DL	0.0010	mg/L		13-FEB-20	R4996534
Bismuth (Bi)-Total	0.000006	<DL	0.0010	mg/L		13-FEB-20	R4996534
Boron (B)-Total	0.0090	<DL	0.050	mg/L		13-FEB-20	R4996534
Cadmium (Cd)-Total	0.000009	<DL	0.000017	mg/L		13-FEB-20	R4996534
Calcium (Ca)-Total	40.8		0.20	mg/L		13-FEB-20	R4996534
Cesium (Cs)-Total	0.0000155		0.000010	mg/L		13-FEB-20	R4996534
Chromium (Cr)-Total	0.00034	<DL	0.0010	mg/L		13-FEB-20	R4996534
Cobalt (Co)-Total	0.000266	<DL	0.00050	mg/L		13-FEB-20	R4996534
Copper (Cu)-Total	0.00192	<T	0.0010	mg/L		13-FEB-20	R4996534
Iron (Fe)-Total	0.614		0.020	mg/L		13-FEB-20	R4996534
Lead (Pb)-Total	0.000115	<T	0.000050	mg/L		13-FEB-20	R4996534
Lithium (Li)-Total	0.0044	<DL	0.050	mg/L		13-FEB-20	R4996534
Magnesium (Mg)-Total	15.9		0.020	mg/L		13-FEB-20	R4996534
Manganese (Mn)-Total	0.104		0.0010	mg/L		13-FEB-20	R4996534
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996032
Molybdenum (Mo)-Total	0.000540	<DL	0.0010	mg/L		13-FEB-20	R4996534
Nickel (Ni)-Total	0.00148	<DL	0.0020	mg/L		13-FEB-20	R4996534
Phosphorus (P)-Total	0.015	<DL	0.050	mg/L		13-FEB-20	R4996534
Potassium (K)-Total	1.46		0.50	mg/L		13-FEB-20	R4996534
Rubidium (Rb)-Total	0.00136		0.00020	mg/L		13-FEB-20	R4996534
Selenium (Se)-Total	0.000155	<T	0.000050	mg/L		13-FEB-20	R4996534
Silicon (Si)-Total	5.67		0.10	mg/L		13-FEB-20	R4996534
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		13-FEB-20	R4996534
Sodium (Na)-Total	3.15		0.10	mg/L		13-FEB-20	R4996534
Strontium (Sr)-Total	0.0823		0.0010	mg/L		13-FEB-20	R4996534

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-14 SW26							
Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 13:00							
Matrix: Water							
Total Metals							
Sulfur (S)-Total	1.8		0.50	mg/L		13-FEB-20	R4996534
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		13-FEB-20	R4996534
Thallium (Tl)-Total	0.0000034	<DL	0.00030	mg/L		13-FEB-20	R4996534
Thorium (Th)-Total	0.000052	<DL	0.00010	mg/L		13-FEB-20	R4996534
Tin (Sn)-Total	0.00006	<DL	0.0010	mg/L		13-FEB-20	R4996534
Titanium (Ti)-Total	0.00326		0.0020	mg/L		13-FEB-20	R4996534
Tungsten (W)-Total	0.000004	<DL	0.010	mg/L		13-FEB-20	R4996534
Uranium (U)-Total	0.00129	<DL	0.0050	mg/L		13-FEB-20	R4996534
Vanadium (V)-Total	0.00090	<DL	0.0010	mg/L		13-FEB-20	R4996534
Zinc (Zn)-Total	0.0332		0.0030	mg/L		13-FEB-20	R4996534
Zirconium (Zr)-Total	0.000360	<DL	0.0010	mg/L		13-FEB-20	R4996534
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					12-FEB-20	R4995501
Aluminum (Al)-Dissolved	0.0200	<T	0.0050	mg/L		13-FEB-20	R4996550
Antimony (Sb)-Dissolved	0.000110	<DL	0.00060	mg/L		13-FEB-20	R4996550
Arsenic (As)-Dissolved	0.000855	<DL	0.0010	mg/L		13-FEB-20	R4996550
Barium (Ba)-Dissolved	0.0165		0.010	mg/L		13-FEB-20	R4996550
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		13-FEB-20	R4996550
Bismuth (Bi)-Dissolved	0.000004	<DL	0.0010	mg/L		13-FEB-20	R4996550
Boron (B)-Dissolved	0.0090	<DL	0.050	mg/L		13-FEB-20	R4996550
Cadmium (Cd)-Dissolved	0.0000035	<DL	0.000017	mg/L		13-FEB-20	R4996550
Calcium (Ca)-Dissolved	40.9		0.20	mg/L		13-FEB-20	R4996550
Cesium (Cs)-Dissolved	0.0000025	<DL	0.000010	mg/L		13-FEB-20	R4996550
Chromium (Cr)-Dissolved	0.00018	<DL	0.0010	mg/L		13-FEB-20	R4996550
Cobalt (Co)-Dissolved	0.000221	<DL	0.00050	mg/L		13-FEB-20	R4996550
Copper (Cu)-Dissolved	0.00166	<T	0.0010	mg/L		13-FEB-20	R4996550
Iron (Fe)-Dissolved	0.401		0.020	mg/L		13-FEB-20	R4996550
Lead (Pb)-Dissolved	0.000045	<DL	0.000050	mg/L		13-FEB-20	R4996550
Lithium (Li)-Dissolved	0.0046	<DL	0.050	mg/L		13-FEB-20	R4996550
Magnesium (Mg)-Dissolved	16.0		0.020	mg/L		13-FEB-20	R4996550
Manganese (Mn)-Dissolved	0.0960		0.0010	mg/L		13-FEB-20	R4996550
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996059
Molybdenum (Mo)-Dissolved	0.000542	<DL	0.0010	mg/L		13-FEB-20	R4996550
Nickel (Ni)-Dissolved	0.00130	<DL	0.0020	mg/L		13-FEB-20	R4996550
Phosphorus (P)-Dissolved	0.006	<DL	0.050	mg/L		13-FEB-20	R4996550
Potassium (K)-Dissolved	1.52		0.50	mg/L		13-FEB-20	R4996550
Rubidium (Rb)-Dissolved	0.00132		0.00020	mg/L		13-FEB-20	R4996550
Selenium (Se)-Dissolved	0.000150	<T	0.000050	mg/L		13-FEB-20	R4996550
Silicon (Si)-Dissolved	5.56		0.050	mg/L		13-FEB-20	R4996550
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		13-FEB-20	R4996550
Sodium (Na)-Dissolved	3.21		0.10	mg/L		13-FEB-20	R4996550

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-14 SW26 Sampled By: NB/PR/MW/KL on 04-FEB-20 @ 13:00 Matrix: Water							
Dissolved Metals							
Strontium (Sr)-Dissolved	0.0825		0.0010	mg/L		13-FEB-20	R4996550
Sulfur (S)-Dissolved	1.9		0.50	mg/L		13-FEB-20	R4996550
Tellurium (Te)-Dissolved	0.000005	<DL	0.0010	mg/L		13-FEB-20	R4996550
Thallium (Tl)-Dissolved	0.0000011	<DL	0.00030	mg/L		13-FEB-20	R4996550
Thorium (Th)-Dissolved	0.000074	<DL	0.00010	mg/L		13-FEB-20	R4996550
Tin (Sn)-Dissolved	0.000015	<DL	0.0010	mg/L		13-FEB-20	R4996550
Titanium (Ti)-Dissolved	0.00194	<DL	0.0020	mg/L		13-FEB-20	R4996550
Tungsten (W)-Dissolved	0.000012	<DL	0.010	mg/L		13-FEB-20	R4996550
Uranium (U)-Dissolved	0.00124	<DL	0.0050	mg/L		13-FEB-20	R4996550
Vanadium (V)-Dissolved	0.00058	<DL	0.0010	mg/L		13-FEB-20	R4996550
Zinc (Zn)-Dissolved	0.0266		0.0030	mg/L		13-FEB-20	R4996550
Zirconium (Zr)-Dissolved	0.000520	<DL	0.0010	mg/L		13-FEB-20	R4996550
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		13-FEB-20	R4997855
Chemical Oxygen Demand	69		20	mg/L		11-FEB-20	R4993747
Oil and Grease, Total	0.2	<DL	1.0	mg/L	13-FEB-20	13-FEB-20	R4995905
Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2415374-15 SW27 Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 14:10 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	12.62		0	mg/L		13-FEB-20	R4995868
pH, Client Supplied	7.53		0.10	pH		13-FEB-20	R4995868
Temperature, Client Supplied	1.88		0	Degree C		13-FEB-20	R4995868
Physical Tests							
Color, True	80.7		2.0	CU		11-FEB-20	R4993875
Conductivity (EC)	342		1.0	uS/cm		12-FEB-20	R4995781
Hardness (as CaCO3)	183		0.51	mg/L		14-FEB-20	
pH	7.75		0.10	pH		12-FEB-20	R4995781
Total Suspended Solids	6.0		2.0	mg/L		11-FEB-20	R4995114
Total Dissolved Solids	248		20	mg/L		11-FEB-20	R4995442
Turbidity	8.94		0.10	NTU		12-FEB-20	R4995514
Anions and Nutrients							
Acidity (as CaCO3)	3.0		2.1	mg/L		14-FEB-20	R4997017
Alkalinity, Total (as CaCO3)	171		2.0	mg/L		12-FEB-20	R4995781
Ammonia, Total (as N)	0.052	<T	0.020	mg/L		12-FEB-20	R4995298
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		13-FEB-20	
Chloride (Cl)	8.57		0.10	mg/L		11-FEB-20	R4994946
Fluoride (F)	0.054		0.020	mg/L		11-FEB-20	R4994946
Nitrate (as N)	0.088	<T	0.020	mg/L		11-FEB-20	R4994946
Nitrite (as N)	0.0010	<DL	0.010	mg/L		11-FEB-20	R4994946
Orthophosphate-Dissolved (as P)	0.0075		0.0030	mg/L		11-FEB-20	R4993667

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-15 SW27							
Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 14:10							
Matrix: Water							
Anions and Nutrients							
Sulfate (SO4)	5.96		0.30	mg/L		11-FEB-20	R4994946
Cyanides							
Cyanide, Weak Acid Diss	0.0003	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Total	0.0006	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Free	0.0010	<DL	0.0020	mg/L		12-FEB-20	R4996271
Organic / Inorganic Carbon							
Dissolved Organic Carbon	24.9		0.50	mg/L		12-FEB-20	R4995763
Total Organic Carbon	25.7		0.50	mg/L		12-FEB-20	R4995758
Total Metals							
Aluminum (Al)-Total	0.216		0.0050	mg/L		13-FEB-20	R4996534
Antimony (Sb)-Total	0.00006	<DL	0.00060	mg/L		13-FEB-20	R4996534
Arsenic (As)-Total	0.00092	<DL	0.0010	mg/L		13-FEB-20	R4996534
Barium (Ba)-Total	0.0195		0.010	mg/L		13-FEB-20	R4996534
Beryllium (Be)-Total	0.000010	<DL	0.0010	mg/L		13-FEB-20	R4996534
Bismuth (Bi)-Total	0.000002	<DL	0.0010	mg/L		13-FEB-20	R4996534
Boron (B)-Total	0.0100	<DL	0.050	mg/L		13-FEB-20	R4996534
Cadmium (Cd)-Total	0.000011	<DL	0.000017	mg/L		13-FEB-20	R4996534
Calcium (Ca)-Total	44.4		0.20	mg/L		13-FEB-20	R4996534
Cesium (Cs)-Total	0.0000305		0.000010	mg/L		13-FEB-20	R4996534
Chromium (Cr)-Total	0.00056	<DL	0.0010	mg/L		13-FEB-20	R4996534
Cobalt (Co)-Total	0.000376	<DL	0.00050	mg/L		13-FEB-20	R4996534
Copper (Cu)-Total	0.00190	<T	0.0010	mg/L		13-FEB-20	R4996534
Iron (Fe)-Total	0.780		0.020	mg/L		13-FEB-20	R4996534
Lead (Pb)-Total	0.000180	<T	0.000050	mg/L		13-FEB-20	R4996534
Lithium (Li)-Total	0.0052	<DL	0.050	mg/L		13-FEB-20	R4996534
Magnesium (Mg)-Total	17.5		0.020	mg/L		13-FEB-20	R4996534
Manganese (Mn)-Total	0.181		0.0010	mg/L		13-FEB-20	R4996534
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996032
Molybdenum (Mo)-Total	0.000530	<DL	0.0010	mg/L		13-FEB-20	R4996534
Nickel (Ni)-Total	0.00168	<DL	0.0020	mg/L		13-FEB-20	R4996534
Phosphorus (P)-Total	0.020	<DL	0.050	mg/L		13-FEB-20	R4996534
Potassium (K)-Total	1.45		0.50	mg/L		13-FEB-20	R4996534
Rubidium (Rb)-Total	0.00167		0.00020	mg/L		13-FEB-20	R4996534
Selenium (Se)-Total	0.000170	<T	0.000050	mg/L		13-FEB-20	R4996534
Silicon (Si)-Total	6.06		0.10	mg/L		13-FEB-20	R4996534
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		13-FEB-20	R4996534
Sodium (Na)-Total	3.44		0.10	mg/L		13-FEB-20	R4996534
Strontium (Sr)-Total	0.0907		0.0010	mg/L		13-FEB-20	R4996534
Sulfur (S)-Total	2.2		0.50	mg/L		13-FEB-20	R4996534
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		13-FEB-20	R4996534
Thallium (Tl)-Total	0.0000034	<DL	0.00030	mg/L		13-FEB-20	R4996534
Thorium (Th)-Total	0.000063	<DL	0.00010	mg/L		13-FEB-20	R4996534

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-15 SW27							
Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 14:10							
Matrix: Water							
Total Metals							
Tin (Sn)-Total	0.00005	<DL	0.0010	mg/L		13-FEB-20	R4996534
Titanium (Ti)-Total	0.00686		0.0020	mg/L		13-FEB-20	R4996534
Tungsten (W)-Total	0.000002	<DL	0.010	mg/L		13-FEB-20	R4996534
Uranium (U)-Total	0.00153	<DL	0.0050	mg/L		13-FEB-20	R4996534
Vanadium (V)-Total	0.00120	<T	0.0010	mg/L		13-FEB-20	R4996534
Zinc (Zn)-Total	0.0244		0.0030	mg/L		13-FEB-20	R4996534
Zirconium (Zr)-Total	0.000414	<DL	0.0010	mg/L		13-FEB-20	R4996534
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					12-FEB-20	R4995501
Aluminum (Al)-Dissolved	0.0206	<T	0.0050	mg/L		12-FEB-20	R4995894
Antimony (Sb)-Dissolved	0.000055	<DL	0.00060	mg/L		12-FEB-20	R4995894
Arsenic (As)-Dissolved	0.000815	<DL	0.0010	mg/L		12-FEB-20	R4995894
Barium (Ba)-Dissolved	0.0175		0.010	mg/L		12-FEB-20	R4995894
Beryllium (Be)-Dissolved	0.000008	<DL	0.0010	mg/L		12-FEB-20	R4995894
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995894
Boron (B)-Dissolved	0.0100	<DL	0.050	mg/L		12-FEB-20	R4995894
Cadmium (Cd)-Dissolved	0.0000055	<DL	0.000017	mg/L		12-FEB-20	R4995894
Calcium (Ca)-Dissolved	43.5		0.20	mg/L		12-FEB-20	R4995894
Cesium (Cs)-Dissolved	0.0000020	<DL	0.000010	mg/L		12-FEB-20	R4995894
Chromium (Cr)-Dissolved	0.00016	<DL	0.0010	mg/L		12-FEB-20	R4995894
Cobalt (Co)-Dissolved	0.000252	<DL	0.00050	mg/L		12-FEB-20	R4995894
Copper (Cu)-Dissolved	0.00154	<T	0.0010	mg/L		12-FEB-20	R4995894
Iron (Fe)-Dissolved	0.386		0.020	mg/L		12-FEB-20	R4995894
Lead (Pb)-Dissolved	0.000045	<DL	0.000050	mg/L		12-FEB-20	R4995894
Lithium (Li)-Dissolved	0.0050	<DL	0.050	mg/L		12-FEB-20	R4995894
Magnesium (Mg)-Dissolved	18.0		0.020	mg/L		12-FEB-20	R4995894
Manganese (Mn)-Dissolved	0.157		0.0010	mg/L		12-FEB-20	R4995894
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996059
Molybdenum (Mo)-Dissolved	0.000530	<DL	0.0010	mg/L		12-FEB-20	R4995894
Nickel (Ni)-Dissolved	0.00132	<DL	0.0020	mg/L		12-FEB-20	R4995894
Phosphorus (P)-Dissolved	<0.002	<W	0.050	mg/L		12-FEB-20	R4995894
Potassium (K)-Dissolved	1.37		0.50	mg/L		12-FEB-20	R4995894
Rubidium (Rb)-Dissolved	0.00118		0.00020	mg/L		12-FEB-20	R4995894
Selenium (Se)-Dissolved	0.000130	<T	0.000050	mg/L		12-FEB-20	R4995894
Silicon (Si)-Dissolved	5.79		0.050	mg/L		12-FEB-20	R4995894
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		12-FEB-20	R4995894
Sodium (Na)-Dissolved	3.41		0.10	mg/L		12-FEB-20	R4995894
Strontium (Sr)-Dissolved	0.0890		0.0010	mg/L		12-FEB-20	R4995894
Sulfur (S)-Dissolved	2.5		0.50	mg/L		12-FEB-20	R4995894
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		12-FEB-20	R4995894
Thallium (Tl)-Dissolved	0.0000018	<DL	0.00030	mg/L		12-FEB-20	R4995894

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-15 SW27 Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 14:10 Matrix: Water							
Dissolved Metals							
Thorium (Th)-Dissolved	0.000048	<DL	0.00010	mg/L		12-FEB-20	R4995894
Tin (Sn)-Dissolved	0.000025	<DL	0.0010	mg/L		12-FEB-20	R4995894
Titanium (Ti)-Dissolved	0.00226		0.0020	mg/L		12-FEB-20	R4995894
Tungsten (W)-Dissolved	0.000004	<DL	0.010	mg/L		12-FEB-20	R4995894
Uranium (U)-Dissolved	0.00147	<DL	0.0050	mg/L		12-FEB-20	R4995894
Vanadium (V)-Dissolved	0.00056	<DL	0.0010	mg/L		12-FEB-20	R4995894
Zinc (Zn)-Dissolved	0.0206		0.0030	mg/L		12-FEB-20	R4995894
Zirconium (Zr)-Dissolved	0.000372	<DL	0.0010	mg/L		12-FEB-20	R4995894
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		13-FEB-20	R4997855
Chemical Oxygen Demand	63		20	mg/L		11-FEB-20	R4993747
Oil and Grease, Total	<0.2	<W	1.0	mg/L	13-FEB-20	13-FEB-20	R4995905
L2415374-16 SW28A Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 15:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	13.21		0	mg/L		13-FEB-20	R4995868
pH, Client Supplied	7.68		0.10	pH		13-FEB-20	R4995868
Temperature, Client Supplied	0		0	Degree C		13-FEB-20	R4995868
Physical Tests							
Color, True	190		2.0	CU		11-FEB-20	R4993875
Conductivity (EC)	298		1.0	uS/cm		12-FEB-20	R4995781
Hardness (as CaCO3)	172		0.51	mg/L		13-FEB-20	
pH	7.79		0.10	pH		12-FEB-20	R4995781
Total Suspended Solids	2.5	<T	2.0	mg/L		11-FEB-20	R4995114
Total Dissolved Solids	238		13	mg/L		11-FEB-20	R4995442
Turbidity	3.01		0.10	NTU		12-FEB-20	R4995514
Anions and Nutrients							
Acidity (as CaCO3)	2.0	<DL	2.1	mg/L		14-FEB-20	R4997017
Alkalinity, Total (as CaCO3)	151		2.0	mg/L		12-FEB-20	R4995781
Ammonia, Total (as N)	0.076	<T	0.020	mg/L		12-FEB-20	R4995298
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		13-FEB-20	
Chloride (Cl)	3.70		0.10	mg/L		11-FEB-20	R4994946
Fluoride (F)	0.048		0.020	mg/L		11-FEB-20	R4994946
Nitrate (as N)	0.089	<T	0.020	mg/L		11-FEB-20	R4994946
Nitrite (as N)	0.0030	<DL	0.010	mg/L		11-FEB-20	R4994946
Orthophosphate-Dissolved (as P)	0.0060		0.0030	mg/L		11-FEB-20	R4993667
Sulfate (SO4)	2.84	<T	0.30	mg/L		11-FEB-20	R4994946
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Total	0.0008	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Free	0.0010	<DL	0.0020	mg/L		12-FEB-20	R4996271

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-16 SW28A							
Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 15:00							
Matrix: Water							
Cyanides							
Organic / Inorganic Carbon							
Dissolved Organic Carbon	43.0		0.50	mg/L		12-FEB-20	R4995763
Total Organic Carbon	43.1		0.50	mg/L		12-FEB-20	R4995758
Total Metals							
Aluminum (Al)-Total	0.140		0.050	mg/L		12-FEB-20	R4995872
Antimony (Sb)-Total	0.00002	<DL	0.00060	mg/L		12-FEB-20	R4995872
Arsenic (As)-Total	0.00112	<T	0.0010	mg/L		12-FEB-20	R4995872
Barium (Ba)-Total	0.0139		0.010	mg/L		12-FEB-20	R4995872
Beryllium (Be)-Total	0.000016	<DL	0.0010	mg/L		12-FEB-20	R4995872
Bismuth (Bi)-Total	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995872
Boron (B)-Total	0.0110	<DL	0.050	mg/L		12-FEB-20	R4995872
Cadmium (Cd)-Total	0.000023	<T	0.000017	mg/L		12-FEB-20	R4995872
Calcium (Ca)-Total	40.7		0.20	mg/L		12-FEB-20	R4995872
Cesium (Cs)-Total	0.0000125		0.000010	mg/L		12-FEB-20	R4995872
Chromium (Cr)-Total	0.00038	<DL	0.0010	mg/L		12-FEB-20	R4995872
Cobalt (Co)-Total	0.000528	<T	0.00050	mg/L		12-FEB-20	R4995872
Copper (Cu)-Total	0.00098	<DL	0.0010	mg/L		12-FEB-20	R4995872
Iron (Fe)-Total	0.994		0.020	mg/L		12-FEB-20	R4995872
Lead (Pb)-Total	0.000080	<T	0.000050	mg/L		12-FEB-20	R4995872
Lithium (Li)-Total	0.0052	<DL	0.050	mg/L		12-FEB-20	R4995872
Magnesium (Mg)-Total	17.4		0.020	mg/L		12-FEB-20	R4995872
Manganese (Mn)-Total	0.141		0.0010	mg/L		12-FEB-20	R4995872
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		13-FEB-20	R4996032
Molybdenum (Mo)-Total	0.000410	<DL	0.0010	mg/L		12-FEB-20	R4995872
Nickel (Ni)-Total	0.00134	<DL	0.0020	mg/L		12-FEB-20	R4995872
Phosphorus (P)-Total	0.015	<DL	0.050	mg/L		12-FEB-20	R4995872
Potassium (K)-Total	1.33		0.50	mg/L		12-FEB-20	R4995872
Rubidium (Rb)-Total	0.00207		0.00020	mg/L		12-FEB-20	R4995872
Selenium (Se)-Total	0.000170	<T	0.000050	mg/L		12-FEB-20	R4995872
Silicon (Si)-Total	6.29		0.10	mg/L		12-FEB-20	R4995872
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		12-FEB-20	R4995872
Sodium (Na)-Total	2.68		0.10	mg/L		12-FEB-20	R4995872
Strontium (Sr)-Total	0.105		0.0010	mg/L		12-FEB-20	R4995872
Sulfur (S)-Total	1.4		0.50	mg/L		12-FEB-20	R4995872
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		12-FEB-20	R4995872
Thallium (Tl)-Total	0.0000044	<DL	0.00030	mg/L		12-FEB-20	R4995872
Thorium (Th)-Total	0.000048	<DL	0.00010	mg/L		12-FEB-20	R4995872
Tin (Sn)-Total	0.00026	<DL	0.0010	mg/L		12-FEB-20	R4995872
Titanium (Ti)-Total	0.00284		0.0020	mg/L		12-FEB-20	R4995872
Tungsten (W)-Total	<0.000002	<W	0.010	mg/L		12-FEB-20	R4995872
Uranium (U)-Total	0.00112	<DL	0.0050	mg/L		12-FEB-20	R4995872

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-16 SW28A							
Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 15:00							
Matrix: Water							
Total Metals							
Vanadium (V)-Total	0.00085	<DL	0.0010	mg/L		12-FEB-20	R4995872
Zinc (Zn)-Total	0.0002	<DL	0.0030	mg/L		12-FEB-20	R4995872
Zirconium (Zr)-Total	0.000358	<DL	0.0010	mg/L		12-FEB-20	R4995872
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					12-FEB-20	R4995501
Aluminum (Al)-Dissolved	0.0422		0.0050	mg/L		12-FEB-20	R4995894
Antimony (Sb)-Dissolved	0.000050	<DL	0.00060	mg/L		12-FEB-20	R4995894
Arsenic (As)-Dissolved	0.00113	<T	0.0010	mg/L		12-FEB-20	R4995894
Barium (Ba)-Dissolved	0.0134		0.010	mg/L		12-FEB-20	R4995894
Beryllium (Be)-Dissolved	0.000008	<DL	0.0010	mg/L		12-FEB-20	R4995894
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995894
Boron (B)-Dissolved	0.0105	<DL	0.050	mg/L		12-FEB-20	R4995894
Cadmium (Cd)-Dissolved	0.0000155	<DL	0.000017	mg/L		12-FEB-20	R4995894
Calcium (Ca)-Dissolved	40.1		0.20	mg/L		12-FEB-20	R4995894
Cesium (Cs)-Dissolved	0.0000015	<DL	0.000010	mg/L		12-FEB-20	R4995894
Chromium (Cr)-Dissolved	0.00024	<DL	0.0010	mg/L		12-FEB-20	R4995894
Cobalt (Co)-Dissolved	0.000464	<DL	0.00050	mg/L		12-FEB-20	R4995894
Copper (Cu)-Dissolved	0.00098	<DL	0.0010	mg/L		12-FEB-20	R4995894
Iron (Fe)-Dissolved	0.861		0.020	mg/L		12-FEB-20	R4995894
Lead (Pb)-Dissolved	0.000115	<T	0.000050	mg/L		12-FEB-20	R4995894
Lithium (Li)-Dissolved	0.0056	<DL	0.050	mg/L		12-FEB-20	R4995894
Magnesium (Mg)-Dissolved	17.4		0.020	mg/L		12-FEB-20	R4995894
Manganese (Mn)-Dissolved	0.134		0.0010	mg/L		12-FEB-20	R4995894
Mercury (Hg)-Dissolved	0.000005	<DL	0.000030	mg/L		13-FEB-20	R4996059
Molybdenum (Mo)-Dissolved	0.000394	<DL	0.0010	mg/L		12-FEB-20	R4995894
Nickel (Ni)-Dissolved	0.00122	<DL	0.0020	mg/L		12-FEB-20	R4995894
Phosphorus (P)-Dissolved	0.010	<DL	0.050	mg/L		12-FEB-20	R4995894
Potassium (K)-Dissolved	1.32		0.50	mg/L		12-FEB-20	R4995894
Rubidium (Rb)-Dissolved	0.00189		0.00020	mg/L		12-FEB-20	R4995894
Selenium (Se)-Dissolved	0.000195	<T	0.000050	mg/L		12-FEB-20	R4995894
Silicon (Si)-Dissolved	6.02		0.050	mg/L		12-FEB-20	R4995894
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		12-FEB-20	R4995894
Sodium (Na)-Dissolved	2.62		0.10	mg/L		12-FEB-20	R4995894
Strontium (Sr)-Dissolved	0.102		0.0010	mg/L		12-FEB-20	R4995894
Sulfur (S)-Dissolved	1.7		0.50	mg/L		12-FEB-20	R4995894
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		12-FEB-20	R4995894
Thallium (Tl)-Dissolved	0.0000025	<DL	0.00030	mg/L		12-FEB-20	R4995894
Thorium (Th)-Dissolved	0.000052	<DL	0.00010	mg/L		12-FEB-20	R4995894
Tin (Sn)-Dissolved	0.000065	<DL	0.0010	mg/L		12-FEB-20	R4995894
Titanium (Ti)-Dissolved	0.00132	<DL	0.0020	mg/L		12-FEB-20	R4995894
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		12-FEB-20	R4995894

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-16 SW28A Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 15:00 Matrix: Water							
Dissolved Metals							
Uranium (U)-Dissolved	0.00108	<DL	0.0050	mg/L		12-FEB-20	R4995894
Vanadium (V)-Dissolved	0.00060	<DL	0.0010	mg/L		12-FEB-20	R4995894
Zinc (Zn)-Dissolved	0.0018	<DL	0.0030	mg/L		12-FEB-20	R4995894
Zirconium (Zr)-Dissolved	0.000360	<DL	0.0010	mg/L		12-FEB-20	R4995894
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		13-FEB-20	R4997855
Chemical Oxygen Demand	108		20	mg/L		11-FEB-20	R4993747
Oil and Grease, Total	0.2	<DL	1.0	mg/L	13-FEB-20	13-FEB-20	R4995905
L2415374-17 SW29 Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 15:35 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	0		0	mg/L		13-FEB-20	R4995868
pH, Client Supplied	6.94		0.10	pH		13-FEB-20	R4995868
Temperature, Client Supplied	.61		0	Degree C		13-FEB-20	R4995868
Physical Tests							
Color, True	182		2.0	CU		11-FEB-20	R4993875
Conductivity (EC)	247		1.0	uS/cm		12-FEB-20	R4995781
Hardness (as CaCO3)	140		0.51	mg/L		14-FEB-20	
pH	7.29		0.10	pH		12-FEB-20	R4995781
Total Suspended Solids	3.0		2.0	mg/L		11-FEB-20	R4995114
Total Dissolved Solids	226		13	mg/L		11-FEB-20	R4995442
Turbidity	3.09		0.10	NTU		12-FEB-20	R4995514
Anions and Nutrients							
Acidity (as CaCO3)	8.8		2.1	mg/L		14-FEB-20	R4997017
Alkalinity, Total (as CaCO3)	132		2.0	mg/L		12-FEB-20	R4995781
Ammonia, Total (as N)	0.240	<T	0.020	mg/L		12-FEB-20	R4995298
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		13-FEB-20	
Chloride (Cl)	0.88		0.10	mg/L		11-FEB-20	R4994946
Fluoride (F)	0.027		0.020	mg/L		11-FEB-20	R4994946
Nitrate (as N)	0.025	<T	0.020	mg/L		11-FEB-20	R4994946
Nitrite (as N)	0.0015	<DL	0.010	mg/L		11-FEB-20	R4994946
Orthophosphate-Dissolved (as P)	0.0229		0.0030	mg/L		11-FEB-20	R4993667
Sulfate (SO4)	1.42	<T	0.30	mg/L		11-FEB-20	R4994946
Cyanides							
Cyanide, Weak Acid Diss	0.0007	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Total	0.0010	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Free	0.0012	<DL	0.0020	mg/L		12-FEB-20	R4996271
Organic / Inorganic Carbon							
Dissolved Organic Carbon	42.0		0.50	mg/L		12-FEB-20	R4995763
Total Organic Carbon	44.6		0.50	mg/L		12-FEB-20	R4995758
Total Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-17 SW29							
Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 15:35							
Matrix: Water							
Total Metals							
Aluminum (Al)-Total	0.170		0.0050	mg/L		13-FEB-20	R4996534
Antimony (Sb)-Total	0.00006	<DL	0.00060	mg/L		13-FEB-20	R4996534
Arsenic (As)-Total	0.00123	<T	0.0010	mg/L		13-FEB-20	R4996534
Barium (Ba)-Total	0.0184		0.010	mg/L		13-FEB-20	R4996534
Beryllium (Be)-Total	0.000014	<DL	0.0010	mg/L		13-FEB-20	R4996534
Bismuth (Bi)-Total	0.000052	<DL	0.0010	mg/L		13-FEB-20	R4996534
Boron (B)-Total	0.0090	<DL	0.050	mg/L		13-FEB-20	R4996534
Cadmium (Cd)-Total	0.000014	<DL	0.000017	mg/L		13-FEB-20	R4996534
Calcium (Ca)-Total	30.8		0.20	mg/L		13-FEB-20	R4996534
Cesium (Cs)-Total	0.0000200		0.000010	mg/L		13-FEB-20	R4996534
Chromium (Cr)-Total	0.00074	<DL	0.0010	mg/L		13-FEB-20	R4996534
Cobalt (Co)-Total	0.00153	<T	0.00050	mg/L		13-FEB-20	R4996534
Copper (Cu)-Total	0.00062	<DL	0.0010	mg/L		13-FEB-20	R4996534
Iron (Fe)-Total	1.63		0.020	mg/L		13-FEB-20	R4996534
Lead (Pb)-Total	0.000310	<T	0.000050	mg/L		13-FEB-20	R4996534
Lithium (Li)-Total	0.0052	<DL	0.050	mg/L		13-FEB-20	R4996534
Magnesium (Mg)-Total	14.8		0.020	mg/L		13-FEB-20	R4996534
Manganese (Mn)-Total	1.11		0.0010	mg/L		13-FEB-20	R4996534
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		13-FEB-20	R4996032
Molybdenum (Mo)-Total	0.000125	<DL	0.0010	mg/L		13-FEB-20	R4996534
Nickel (Ni)-Total	0.00144	<DL	0.0020	mg/L		13-FEB-20	R4996534
Phosphorus (P)-Total	0.075		0.050	mg/L		13-FEB-20	R4996534
Potassium (K)-Total	1.35		0.50	mg/L		13-FEB-20	R4996534
Rubidium (Rb)-Total	0.00230		0.00020	mg/L		13-FEB-20	R4996534
Selenium (Se)-Total	0.000155	<T	0.000050	mg/L		13-FEB-20	R4996534
Silicon (Si)-Total	8.93		0.10	mg/L		13-FEB-20	R4996534
Silver (Ag)-Total	0.000004	<DL	0.00010	mg/L		13-FEB-20	R4996534
Sodium (Na)-Total	2.50		0.10	mg/L		13-FEB-20	R4996534
Strontium (Sr)-Total	0.0659		0.0010	mg/L		13-FEB-20	R4996534
Sulfur (S)-Total	0.7		0.50	mg/L		13-FEB-20	R4996534
Tellurium (Te)-Total	0.00003	<DL	0.0010	mg/L		13-FEB-20	R4996534
Thallium (Tl)-Total	0.0000210	<DL	0.00030	mg/L		13-FEB-20	R4996534
Thorium (Th)-Total	0.000069	<DL	0.00010	mg/L		13-FEB-20	R4996534
Tin (Sn)-Total	0.00008	<DL	0.0010	mg/L		13-FEB-20	R4996534
Titanium (Ti)-Total	0.00472		0.0020	mg/L		13-FEB-20	R4996534
Tungsten (W)-Total	0.000002	<DL	0.010	mg/L		13-FEB-20	R4996534
Uranium (U)-Total	0.000125	<DL	0.0050	mg/L		13-FEB-20	R4996534
Vanadium (V)-Total	0.00080	<DL	0.0010	mg/L		13-FEB-20	R4996534
Zinc (Zn)-Total	0.0118		0.0030	mg/L		13-FEB-20	R4996534
Zirconium (Zr)-Total	0.000354	<DL	0.0010	mg/L		13-FEB-20	R4996534
Dissolved Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-17 SW29							
Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 15:35							
Matrix: Water							
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					12-FEB-20	R4995501
Aluminum (Al)-Dissolved	0.0532		0.0050	mg/L		12-FEB-20	R4995894
Antimony (Sb)-Dissolved	0.000040	<DL	0.00060	mg/L		12-FEB-20	R4995894
Arsenic (As)-Dissolved	0.00111	<T	0.0010	mg/L		12-FEB-20	R4995894
Barium (Ba)-Dissolved	0.0154		0.010	mg/L		12-FEB-20	R4995894
Beryllium (Be)-Dissolved	0.000012	<DL	0.0010	mg/L		12-FEB-20	R4995894
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		12-FEB-20	R4995894
Boron (B)-Dissolved	0.0080	<DL	0.050	mg/L		12-FEB-20	R4995894
Cadmium (Cd)-Dissolved	0.0000065	<DL	0.000017	mg/L		12-FEB-20	R4995894
Calcium (Ca)-Dissolved	31.3		0.20	mg/L		12-FEB-20	R4995894
Cesium (Cs)-Dissolved	0.0000020	<DL	0.000010	mg/L		12-FEB-20	R4995894
Chromium (Cr)-Dissolved	0.00024	<DL	0.0010	mg/L		12-FEB-20	R4995894
Cobalt (Co)-Dissolved	0.00125	<T	0.00050	mg/L		12-FEB-20	R4995894
Copper (Cu)-Dissolved	0.00030	<DL	0.0010	mg/L		12-FEB-20	R4995894
Iron (Fe)-Dissolved	1.15		0.020	mg/L		12-FEB-20	R4995894
Lead (Pb)-Dissolved	0.000125	<T	0.000050	mg/L		12-FEB-20	R4995894
Lithium (Li)-Dissolved	0.0052	<DL	0.050	mg/L		12-FEB-20	R4995894
Magnesium (Mg)-Dissolved	15.0		0.020	mg/L		12-FEB-20	R4995894
Manganese (Mn)-Dissolved	1.00		0.0010	mg/L		12-FEB-20	R4995894
Mercury (Hg)-Dissolved	0.000005	<DL	0.000030	mg/L		13-FEB-20	R4996059
Molybdenum (Mo)-Dissolved	0.000088	<DL	0.0010	mg/L		12-FEB-20	R4995894
Nickel (Ni)-Dissolved	0.00118	<DL	0.0020	mg/L		12-FEB-20	R4995894
Phosphorus (P)-Dissolved	0.036	<DL	0.050	mg/L		12-FEB-20	R4995894
Potassium (K)-Dissolved	1.21		0.50	mg/L		12-FEB-20	R4995894
Rubidium (Rb)-Dissolved	0.00194		0.00020	mg/L		12-FEB-20	R4995894
Selenium (Se)-Dissolved	0.000145	<T	0.000050	mg/L		12-FEB-20	R4995894
Silicon (Si)-Dissolved	8.89		0.050	mg/L		12-FEB-20	R4995894
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		12-FEB-20	R4995894
Sodium (Na)-Dissolved	2.43		0.10	mg/L		12-FEB-20	R4995894
Strontium (Sr)-Dissolved	0.0636		0.0010	mg/L		12-FEB-20	R4995894
Sulfur (S)-Dissolved	1.1		0.50	mg/L		12-FEB-20	R4995894
Tellurium (Te)-Dissolved	0.000005	<DL	0.0010	mg/L		12-FEB-20	R4995894
Thallium (Tl)-Dissolved	0.0000007	<DL	0.00030	mg/L		12-FEB-20	R4995894
Thorium (Th)-Dissolved	0.000044	<DL	0.00010	mg/L		12-FEB-20	R4995894
Tin (Sn)-Dissolved	0.000160	<DL	0.0010	mg/L		12-FEB-20	R4995894
Titanium (Ti)-Dissolved	0.00186	<DL	0.0020	mg/L		12-FEB-20	R4995894
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		12-FEB-20	R4995894
Uranium (U)-Dissolved	0.000112	<DL	0.0050	mg/L		12-FEB-20	R4995894
Vanadium (V)-Dissolved	0.00040	<DL	0.0010	mg/L		12-FEB-20	R4995894
Zinc (Zn)-Dissolved	0.0038	<T	0.0030	mg/L		12-FEB-20	R4995894
Zirconium (Zr)-Dissolved	0.000344	<DL	0.0010	mg/L		12-FEB-20	R4995894

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-17 SW29 Sampled By: NB/PR/MW/KL on 05-FEB-20 @ 15:35 Matrix: Water							
Dissolved Metals							
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		13-FEB-20	R4997855
Chemical Oxygen Demand	114		20	mg/L		11-FEB-20	R4993747
Oil and Grease, Total	1.0		1.0	mg/L	13-FEB-20	13-FEB-20	R4996046
L2415374-18 TRAVEL BLANK - SURFACE WATER Sampled By: NB/PR/MW/KL on 06-FEB-20 @ 12:00 Matrix: Water							
Physical Tests							
Color, True	<2.0		2.0	CU		11-FEB-20	R4993875
Conductivity (EC)	0.6	<DL	1.0	uS/cm		13-FEB-20	R4996455
Hardness (as CaCO3)	<0.51		0.51	mg/L		18-FEB-20	
pH	4.81		0.10	pH		12-FEB-20	R4995781
Total Suspended Solids	<0.5	<W	2.0	mg/L		11-FEB-20	R4995114
Total Dissolved Solids	<2	<W	10	mg/L		11-FEB-20	R4995442
Turbidity	<0.10		0.10	NTU		12-FEB-20	R4995514
Anions and Nutrients							
Acidity (as CaCO3)	1.4	<DL	2.1	mg/L		14-FEB-20	R4997017
Alkalinity, Total (as CaCO3)	<0.2	<W	2.0	mg/L		12-FEB-20	R4995781
Ammonia, Total (as N)	0.016	<DL	0.020	mg/L		12-FEB-20	R4995298
Chloride (Cl)	<0.10		0.10	mg/L		11-FEB-20	R4994946
Fluoride (F)	<0.020		0.020	mg/L		11-FEB-20	R4994946
Nitrate (as N)	<0.001	<W	0.020	mg/L		11-FEB-20	R4994946
Nitrite (as N)	<0.0005	<W	0.010	mg/L		11-FEB-20	R4994946
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		11-FEB-20	R4993667
Sulfate (SO4)	0.04	<DL	0.30	mg/L		11-FEB-20	R4994946
Cyanides							
Cyanide, Weak Acid Diss	0.0003	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Total	0.0002	<DL	0.0020	mg/L		12-FEB-20	R4996271
Cyanide, Free	0.0002	<DL	0.0020	mg/L		12-FEB-20	R4996271
Organic / Inorganic Carbon							
Dissolved Organic Carbon	<0.1	<W	0.50	mg/L		12-FEB-20	R4995763
Total Organic Carbon	<0.50		0.50	mg/L		13-FEB-20	R4996398
Total Metals							
Aluminum (Al)-Total	0.0004	<DL	0.0050	mg/L		13-FEB-20	R4996534
Antimony (Sb)-Total	<0.00002	<W	0.00060	mg/L		13-FEB-20	R4996534
Arsenic (As)-Total	0.00002	<DL	0.0010	mg/L		13-FEB-20	R4996534
Barium (Ba)-Total	0.00002	<DL	0.010	mg/L		13-FEB-20	R4996534
Beryllium (Be)-Total	<0.000001	<W	0.0010	mg/L		13-FEB-20	R4996534
Bismuth (Bi)-Total	0.000010	<DL	0.0010	mg/L		13-FEB-20	R4996534
Boron (B)-Total	<0.0005	<W	0.050	mg/L		13-FEB-20	R4996534
Cadmium (Cd)-Total	0.000001	<DL	0.000017	mg/L		13-FEB-20	R4996534
Calcium (Ca)-Total	0.010	<DL	0.20	mg/L		13-FEB-20	R4996534

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-18 TRAVEL BLANK - SURFACE WATER Sampled By: NB/PR/MW/KL on 06-FEB-20 @ 12:00 Matrix: Water							
Total Metals							
Cesium (Cs)-Total	0.0000010	<DL	0.000010	mg/L		13-FEB-20	R4996534
Chromium (Cr)-Total	0.00034	<DL	0.0010	mg/L		13-FEB-20	R4996534
Cobalt (Co)-Total	0.000001	<DL	0.00050	mg/L		13-FEB-20	R4996534
Copper (Cu)-Total	0.00004	<DL	0.0010	mg/L		13-FEB-20	R4996534
Iron (Fe)-Total	<0.0005	<W	0.020	mg/L		13-FEB-20	R4996534
Lead (Pb)-Total	<0.000005	<W	0.000050	mg/L		13-FEB-20	R4996534
Lithium (Li)-Total	<0.0002	<W	0.050	mg/L		13-FEB-20	R4996534
Magnesium (Mg)-Total	0.0020	<DL	0.020	mg/L		13-FEB-20	R4996534
Manganese (Mn)-Total	0.00014	<DL	0.0010	mg/L		13-FEB-20	R4996534
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996032
Molybdenum (Mo)-Total	<0.000005	<W	0.0010	mg/L		13-FEB-20	R4996534
Nickel (Ni)-Total	<0.00002	<W	0.0020	mg/L		13-FEB-20	R4996534
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		13-FEB-20	R4996534
Potassium (K)-Total	<0.005	<W	0.50	mg/L		13-FEB-20	R4996534
Rubidium (Rb)-Total	0.000002	<DL	0.00020	mg/L		13-FEB-20	R4996534
Selenium (Se)-Total	<0.000005	<W	0.000050	mg/L		13-FEB-20	R4996534
Silicon (Si)-Total	<0.002	<W	0.10	mg/L		13-FEB-20	R4996534
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		13-FEB-20	R4996534
Sodium (Na)-Total	<0.01	<W	0.10	mg/L		13-FEB-20	R4996534
Strontium (Sr)-Total	0.00002	<DL	0.0010	mg/L		13-FEB-20	R4996534
Sulfur (S)-Total	<0.1	<W	0.50	mg/L		13-FEB-20	R4996534
Tellurium (Te)-Total	<0.00001	<W	0.0010	mg/L		13-FEB-20	R4996534
Thallium (Tl)-Total	0.0000014	<DL	0.00030	mg/L		13-FEB-20	R4996534
Thorium (Th)-Total	<0.000001	<W	0.00010	mg/L		13-FEB-20	R4996534
Tin (Sn)-Total	0.00003	<DL	0.0010	mg/L		13-FEB-20	R4996534
Titanium (Ti)-Total	0.00004	<DL	0.0020	mg/L		13-FEB-20	R4996534
Tungsten (W)-Total	<0.000002	<W	0.010	mg/L		13-FEB-20	R4996534
Uranium (U)-Total	<0.000005	<W	0.0050	mg/L		13-FEB-20	R4996534
Vanadium (V)-Total	0.00005	<DL	0.0010	mg/L		13-FEB-20	R4996534
Zinc (Zn)-Total	0.0008	<DL	0.0030	mg/L		13-FEB-20	R4996534
Zirconium (Zr)-Total	<0.000002	<W	0.0010	mg/L		13-FEB-20	R4996534
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					14-FEB-20	R4996795
Aluminum (Al)-Dissolved	0.0002	<DL	0.0050	mg/L		14-FEB-20	R4997530
Antimony (Sb)-Dissolved	<0.000005	<W	0.00060	mg/L		14-FEB-20	R4997530
Arsenic (As)-Dissolved	<0.000005	<W	0.0010	mg/L		14-FEB-20	R4997530
Barium (Ba)-Dissolved	<0.000005	<W	0.010	mg/L		14-FEB-20	R4997530
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		14-FEB-20	R4997530
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		14-FEB-20	R4997530
Boron (B)-Dissolved	<0.0005	<W	0.050	mg/L		14-FEB-20	R4997530
Cadmium (Cd)-Dissolved	0.0000010	<DL	0.000017	mg/L		14-FEB-20	R4997530

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2415374-18 TRAVEL BLANK - SURFACE WATER Sampled By: NB/PR/MW/KL on 06-FEB-20 @ 12:00 Matrix: Water							
Dissolved Metals							
Calcium (Ca)-Dissolved	0.002	<DL	0.20	mg/L		14-FEB-20	R4997530
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		14-FEB-20	R4997530
Chromium (Cr)-Dissolved	0.00028	<DL	0.0010	mg/L		14-FEB-20	R4997530
Cobalt (Co)-Dissolved	<0.000001	<W	0.00050	mg/L		14-FEB-20	R4997530
Copper (Cu)-Dissolved	<0.00002	<W	0.0010	mg/L		14-FEB-20	R4997530
Iron (Fe)-Dissolved	<0.0002	<W	0.020	mg/L		14-FEB-20	R4997530
Lead (Pb)-Dissolved	<0.000005	<W	0.000050	mg/L		14-FEB-20	R4997530
Lithium (Li)-Dissolved	<0.0002	<W	0.050	mg/L		14-FEB-20	R4997530
Magnesium (Mg)-Dissolved	0.0005	<DL	0.020	mg/L		14-FEB-20	R4997530
Manganese (Mn)-Dissolved	<0.00002	<W	0.0010	mg/L		14-FEB-20	R4997530
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		13-FEB-20	R4996059
Molybdenum (Mo)-Dissolved	<0.000002	<W	0.0010	mg/L		14-FEB-20	R4997530
Nickel (Ni)-Dissolved	<0.00002	<W	0.0020	mg/L		14-FEB-20	R4997530
Phosphorus (P)-Dissolved	<0.002	<W	0.050	mg/L		14-FEB-20	R4997530
Potassium (K)-Dissolved	<0.005	<W	0.50	mg/L		14-FEB-20	R4997530
Rubidium (Rb)-Dissolved	0.000002	<DL	0.00020	mg/L		14-FEB-20	R4997530
Selenium (Se)-Dissolved	<0.000005	<W	0.000050	mg/L		14-FEB-20	R4997530
Silicon (Si)-Dissolved	<0.001	<W	0.050	mg/L		14-FEB-20	R4997530
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		14-FEB-20	R4997530
Sodium (Na)-Dissolved	<0.005	<W	0.10	mg/L		14-FEB-20	R4997530
Strontium (Sr)-Dissolved	<0.000005	<W	0.0010	mg/L		14-FEB-20	R4997530
Sulfur (S)-Dissolved	<0.1	<W	0.50	mg/L		14-FEB-20	R4997530
Tellurium (Te)-Dissolved	<0.000005	<W	0.0010	mg/L		14-FEB-20	R4997530
Thallium (Tl)-Dissolved	<0.0000001	<W	0.00030	mg/L		14-FEB-20	R4997530
Thorium (Th)-Dissolved	<0.000002	<W	0.00010	mg/L		14-FEB-20	R4997530
Tin (Sn)-Dissolved	0.000015	<DL	0.0010	mg/L		14-FEB-20	R4997530
Titanium (Ti)-Dissolved	<0.00002	<W	0.0020	mg/L		14-FEB-20	R4997530
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		14-FEB-20	R4997530
Uranium (U)-Dissolved	<0.0000002	<W	0.0050	mg/L		14-FEB-20	R4997530
Vanadium (V)-Dissolved	<0.00002	<W	0.0010	mg/L		14-FEB-20	R4997530
Zinc (Zn)-Dissolved	<0.0002	<W	0.0030	mg/L		14-FEB-20	R4997530
Zirconium (Zr)-Dissolved	<0.000002	<W	0.0010	mg/L		14-FEB-20	R4997530
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		13-FEB-20	R4997855
Chemical Oxygen Demand	<20		20	mg/L		11-FEB-20	R4993747
Oil and Grease, Total	<0.2	<W	1.0	mg/L	13-FEB-20	13-FEB-20	R4996046

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Method Blank	Conductivity (EC)	B	L2415374-10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9
Method Blank	Conductivity (EC)	B	L2415374-1, -18
Method Blank	Acidity (as CaCO3)	MB-LOR	L2415374-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Chemical Oxygen Demand	MS-B	L2415374-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2415374-10, -11, -12, -13, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2415374-10, -11, -12, -13, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L2415374-10, -11, -12, -13, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2415374-10, -11, -12, -13, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2415374-10, -11, -12, -13, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Total	MS-B	L2415374-1, -10, -12, -13, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2415374-1, -10, -12, -13, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Total	MS-B	L2415374-1, -10, -12, -13, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Total	MS-B	L2415374-1, -10, -12, -13, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Total	MS-B	L2415374-1, -10, -12, -13, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Total Organic Carbon	MS-B	L2415374-10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9

Sample Parameter Qualifier key listed:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
MB-LOR	Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RRV	Reported Result Verified By Repeat Analysis

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-MISA-TB	Effluent	Acidity (as CaCO3)	APHA 2310 B-POTENTIOMETRIC TITRATION
Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample.			
ALK-MISA-TB	Effluent	Alkalinity, Total (as CaCO3)	APHA 2320 B-Auto-Pot. Titration
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
BOD-TB	Water	Biochemical Oxygen Demand (BOD)	APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND
All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation.			
CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
CN-FREE-MISA-CFA-WT	Effluent	Free Cyanide by Continuous Flow Analyzer	ASTM D7237-10 (modified)
This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis.			
CN-T-MISA-CFA-WT	Effluent	Total Cyanide by CFA	ISO 14403-2:2012 (modified)
This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis.			
Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive			

Reference Information

interference with this method, but it would be less than 1% and could be as low as zero.

CN-WAD-MISA-CFA-WT	Effluent	Weak Acid Dissociable Cyanide by CFA	APHA 4500-CN CYANIDE (modified)
--------------------	----------	--------------------------------------	---------------------------------

This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.

COD-TB	Water	Chemical Oxygen Demand	APHA 5220D
--------	-------	------------------------	------------

This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.

COLOUR-TB	Water	Colour, True	APHA 2120 C
-----------	-------	--------------	-------------

True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard.

DO-CLIENT-TB	Water	Dissolved Oxygen, Client Supplied	Result supplied by Client
--------------	-------	-----------------------------------	---------------------------

DOC-MISA-TB	Effluent	Dissolved Organic Carbon (DOC)	APHA 5310 B modified
-------------	----------	--------------------------------	----------------------

Water samples are determined by filtering the sample through a 0.45 micron membrane filter prior to analysis. Analyzed by converting all carbonaceous material to carbon dioxide (CO₂) by catalytic combustion at 850°C. The CO₂ generated is measured by an infrared detector and is directly proportional to concentration of carbonaceous material in the sample

EC-MISA-TB	Effluent	Conductivity (EC)	APHA 2510 B-ELECTRODE
------------	----------	-------------------	-----------------------

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)
-----------	-------	-------------------------	-----------------

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Effluent	Hardness (as CaCO ₃)	CALCULATION
------------------	----------	----------------------------------	-------------

HG-DIS-WT	Effluent	Mercury (Hg)-Dissolved for MISA	SW846 7470A
-----------	----------	---------------------------------	-------------

HG-TOT-WT	Effluent	Mercury (Hg)-Total for MISA	SW846 7470A
-----------	----------	-----------------------------	-------------

MET-D-MISA-TB	Effluent	Dissolved Metals in Water (MISA)	APHA 3030B/6020B (mod)
---------------	----------	----------------------------------	------------------------

Water samples are filtered (0.45 µm), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-MISA-TB	Effluent	Total Metals in Water (MISA)	EPA 200.2/6020B (mod)
---------------	----------	------------------------------	-----------------------

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-MISA-COL-TB	Effluent	Ammonia by Discrete Analyzer	APHA 4500-NH ₃ G. (modified)
-----------------	----------	------------------------------	---

Ammonia in aqueous matrices is analyzed using discrete analyzer with colourimetric detection.

NH3-UNION-CALC-TB	Effluent	Un-ionized ammonia	Calculation
-------------------	----------	--------------------	-------------

NO2-MISA-IC-TB	Effluent	Nitrite in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

NO3-MISA-IC-TB	Effluent	Nitrate in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

OGG-TOT-WT	Effluent	Oil and Grease, Total for MISA	APHA 5520 B-Hexane Gravimetric
------------	----------	--------------------------------	--------------------------------

PH-CLIENT-TB	Water	pH	Result supplied by Client
--------------	-------	----	---------------------------

PH-MISA-TB	Effluent	pH	APHA 4500-H-ELECTRODE
------------	----------	----	-----------------------

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

Reference Information

PO4-DO-COL-TB	Water	Dissolved Orthophosphate	APHA 4500-P B, F, G (modified)
Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.			
RA226-MMER-BE	Water	Radium 226	Radium Isotopes by Alpha Spectrometry
Determination of Gamma Emitting Radionuclides In Water and Solids by Gamma Spectrometry.			
SO4-MISA-IC-TB	Effluent	Sulfate in Water by IC	EPA 300.1 (mod)
Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.			
TDS-MISA-TB	Effluent	Total Dissolved Solids	APHA 2540 C (modified)
Aqueous matrices are analyzed using gravimetry and evaporation			
TEMP-CLIENT-TB	Water	Temperature	Result supplied by Client
TOC-TB	Water	Total Organic Carbon (TOC)	APHA 5310 B modified
Water samples are analyzed by converting all carbonaceous material to carbon dioxide (CO ₂) by catalytic combustion at 850°C. The CO ₂ generated is measured by an infrared detector and is directly proportional to concentration of carbonaceous material in the sample			
TSS-MISA-TB	Effluent	Total Suspended Solids	APHA 2540 D (modified)
Aqueous matrices are analyzed using gravimetry			
TURBIDITY-TB	Water	Turbidity	APHA 2130 B-Nephelometer
Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
BE	BECQUEREL LABORATORIES INC. - MISSISSAUGA, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 1 of 30

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BOD-TB								
Water								
Batch	R4997285							
WG3273419-8	DUP	L2415374-2						
Biochemical Oxygen Demand		<2.0	2.4	RPD-NA	mg/L	N/A	20	11-FEB-20
WG3273419-2	LCS							
Biochemical Oxygen Demand			101.0		%		85-115	11-FEB-20
WG3273419-6	LCS							
Biochemical Oxygen Demand			102.2		%		85-115	11-FEB-20
WG3273419-1	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	11-FEB-20
WG3273419-5	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	11-FEB-20
Batch	R4997379							
WG3274121-2	LCS							
Biochemical Oxygen Demand			100.1		%		85-115	12-FEB-20
WG3274121-1	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	12-FEB-20
Batch	R4997855							
WG3275125-3	DUP	L2416142-1						
Biochemical Oxygen Demand		140	160		mg/L	13	20	13-FEB-20
WG3275125-2	LCS							
Biochemical Oxygen Demand			94.5		%		85-115	13-FEB-20
WG3275125-1	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	13-FEB-20
CL-L-IC-N-TB								
Water								
Batch	R4994946							
WG3273425-3	DUP	L2415374-2						
Chloride (Cl)		0.57	0.40	J	mg/L	0.16	0.2	11-FEB-20
WG3273425-8	DUP	L2415374-13						
Chloride (Cl)		8.48	8.48		mg/L	0.1	20	11-FEB-20
WG3273425-2	LCS							
Chloride (Cl)			100.9		%		90-110	11-FEB-20
WG3273425-6	LCS							
Chloride (Cl)			96.7		%		90-110	11-FEB-20
WG3273425-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	11-FEB-20
WG3273425-5	MB							
Chloride (Cl)			<0.10		mg/L		0.1	11-FEB-20
WG3273425-7	MS	L2415374-14						
Chloride (Cl)			110.3		%		75-125	11-FEB-20

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 2 of 30

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
COD-TB								
	Water							
Batch	R4993747							
WG3273462-3	DUP	L2415374-16						
Chemical Oxygen Demand		108	109		mg/L	0.6	20	11-FEB-20
WG3273462-2	LCS							
Chemical Oxygen Demand			105.8		%		85-115	11-FEB-20
WG3273462-1	MB							
Chemical Oxygen Demand			<20		mg/L		20	11-FEB-20
WG3273462-4	MS	L2415374-17						
Chemical Oxygen Demand			N/A	MS-B	%		-	11-FEB-20
COLOUR-TB								
	Water							
Batch	R4993875							
WG3273731-3	DUP	L2415374-13						
Color, True		91.1	92.8		CU	1.8	20	11-FEB-20
WG3273731-2	LCS							
Color, True			100.5		%		85-115	11-FEB-20
WG3273731-1	MB							
Color, True			<2.0		CU		2	11-FEB-20
F-IC-N-TB								
	Water							
Batch	R4994946							
WG3273425-3	DUP	L2415374-2						
Fluoride (F)		<0.020	<0.020	RPD-NA	mg/L	N/A	20	11-FEB-20
WG3273425-8	DUP	L2415374-13						
Fluoride (F)		0.046	0.046		mg/L	0.5	20	11-FEB-20
WG3273425-2	LCS							
Fluoride (F)			94.8		%		90-110	11-FEB-20
WG3273425-6	LCS							
Fluoride (F)			96.9		%		90-110	11-FEB-20
WG3273425-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	11-FEB-20
WG3273425-5	MB							
Fluoride (F)			<0.020		mg/L		0.02	11-FEB-20
WG3273425-7	MS	L2415374-14						
Fluoride (F)			113.8		%		75-125	11-FEB-20
Batch	R4995751							
WG3274181-2	LCS							
Fluoride (F)			96.3		%		90-110	12-FEB-20
WG3274181-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	12-FEB-20

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 3 of 30

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PO4-DO-COL-TB		Water						
Batch	R4993667							
WG3273515-3	DUP	L2415374-4						
Orthophosphate-Dissolved (as P)		0.0447	0.0455		mg/L	1.8	20	11-FEB-20
WG3273515-2	LCS							
Orthophosphate-Dissolved (as P)			94.9		%		80-120	11-FEB-20
WG3273515-1	MB							
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	11-FEB-20
WG3273515-4	MS	L2415374-5						
Orthophosphate-Dissolved (as P)			90.7		%		70-130	11-FEB-20
TOC-TB		Water						
Batch	R4995758							
WG3274149-3	DUP	L2415374-3						
Total Organic Carbon		39.9	38.3		mg/L	4.1	20	12-FEB-20
WG3274149-2	LCS							
Total Organic Carbon			105.0		%		80-120	12-FEB-20
WG3274149-1	MB							
Total Organic Carbon			<0.50		mg/L		0.5	12-FEB-20
WG3274149-4	MS	L2415374-11						
Total Organic Carbon			N/A	MS-B	%		-	12-FEB-20
Batch	R4996398							
WG3274983-3	DUP	L2415208-1						
Total Organic Carbon		2.34	2.39		mg/L	1.9	20	13-FEB-20
WG3274983-2	LCS							
Total Organic Carbon			104.0		%		80-120	13-FEB-20
WG3274983-1	MB							
Total Organic Carbon			<0.50		mg/L		0.5	13-FEB-20
WG3274983-4	MS	L2415208-2						
Total Organic Carbon			103.6		%		70-130	13-FEB-20
TURBIDITY-TB		Water						
Batch	R4995514							
WG3274514-3	DUP	L2415374-15						
Turbidity		8.94	9.10		NTU	1.8	15	12-FEB-20
WG3274514-2	LCS							
Turbidity			99.5		%		85-115	12-FEB-20
WG3274514-1	MB							
Turbidity			<0.10		NTU		0.1	12-FEB-20
ACY-MISA-TB	Effluent							

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 4 of 30

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-MISA-TB								
	Effluent							
Batch	R4997017							
WG3276009-6	DUP	L2415374-13						
Acidity (as CaCO3)		2.6	2.4		mg/L	4.1	20	14-FEB-20
WG3276009-2	LCS							
Acidity (as CaCO3)			103.2		%		85-115	14-FEB-20
WG3276009-5	LCS							
Acidity (as CaCO3)			98.0		%		85-115	14-FEB-20
WG3276009-1	MB							
Acidity (as CaCO3)			1.6		mg/L		2	14-FEB-20
WG3276009-4	MB							
Acidity (as CaCO3)			2.0	MB-LOR	mg/L		2.1	14-FEB-20
ALK-MISA-TB								
	Effluent							
Batch	R4995781							
WG3274418-6	DUP	L2415374-6						
Alkalinity, Total (as CaCO3)		153	149		mg/L	2.9	20	12-FEB-20
Alkalinity, Phenolphthalein		<0.2	<0.2	RPD-NA	mg/L	N/A	25	12-FEB-20
WG3274418-5	LCS							
Alkalinity, Total (as CaCO3)			98.2		%		85-115	12-FEB-20
WG3274418-4	MB							
Alkalinity, Total (as CaCO3)			<0.2		mg/L		2	12-FEB-20
Alkalinity, Phenolphthalein			<0.2		mg/L		2	12-FEB-20
CN-FREE-MISA-CFA-WT								
	Effluent							
Batch	R4996271							
WG3274470-3	DUP	L2415374-13						
Cyanide, Free		0.0007	0.0009	RPD-NA	mg/L	N/A	20	12-FEB-20
WG3274470-2	LCS							
Cyanide, Free			102.2		%		80-120	12-FEB-20
WG3274470-1	MB							
Cyanide, Free			<0.0001		mg/L		0.002	12-FEB-20
WG3274470-4	MS	L2415374-13						
Cyanide, Free			96.0		%		75-125	12-FEB-20
CN-T-MISA-CFA-WT								
	Effluent							
Batch	R4996271							
WG3274470-3	DUP	L2415374-13						
Cyanide, Total		0.0018	0.0018	RPD-NA	mg/L	N/A	20	12-FEB-20
WG3274470-2	LCS							
Cyanide, Total			102.1		%		80-120	12-FEB-20
WG3274470-1	MB							

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 5 of 30

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CN-T-MISA-CFA-WT								
	Effluent							
Batch	R4996271							
WG3274470-1	MB							
Cyanide, Total			<0.0002		mg/L		0.002	12-FEB-20
WG3274470-4	MS	L2415374-13						
Cyanide, Total			96.7		%		75-125	12-FEB-20
CN-WAD-MISA-CFA-WT								
	Effluent							
Batch	R4996271							
WG3274470-3	DUP	L2415374-13						
Cyanide, Weak Acid Diss		0.0009	0.0010	RPD-NA	mg/L	N/A	20	12-FEB-20
WG3274470-2	LCS							
Cyanide, Weak Acid Diss			100.7		%		80-120	12-FEB-20
WG3274470-1	MB							
Cyanide, Weak Acid Diss			<0.0001		mg/L		0.002	12-FEB-20
WG3274470-4	MS	L2415374-13						
Cyanide, Weak Acid Diss			92.7		%		75-125	12-FEB-20
DOC-MISA-TB								
	Effluent							
Batch	R4995763							
WG3273721-3	DUP	L2415362-6						
Dissolved Organic Carbon		4.4	4.5		mg/L	1.1	20	12-FEB-20
WG3273721-2	LCS							
Dissolved Organic Carbon			104.1		%		80-120	12-FEB-20
WG3273721-1	MB							
Dissolved Organic Carbon			0.1		mg/L		0.5	12-FEB-20
WG3273721-4	MS	L2415362-7						
Dissolved Organic Carbon			100.9		%		70-130	12-FEB-20
Batch	R4996401							
WG3275314-2	LCS							
Dissolved Organic Carbon			104.4		%		80-120	13-FEB-20
WG3275314-1	MB							
Dissolved Organic Carbon			<0.1		mg/L		0.5	13-FEB-20
EC-MISA-TB								
	Effluent							
Batch	R4995781							
WG3274418-6	DUP	L2415374-6						
Conductivity (EC)		298	296		uS/cm	0.7	10	12-FEB-20
WG3274418-5	LCS							
Conductivity (EC)			96.2		%		90-110	12-FEB-20
WG3274418-4	MB							
Conductivity (EC)			1.2	B	uS/cm		1	12-FEB-20

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 6 of 30

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-MISA-TB		Effluent						
Batch R4996455								
WG3275018-3	DUP	L2416355-1						
Conductivity (EC)		1370	1380		uS/cm	0.3	10	13-FEB-20
WG3275018-2	LCS							
Conductivity (EC)			95.1		%		90-110	13-FEB-20
WG3275018-5	LCS							
Conductivity (EC)			96.2		%		90-110	13-FEB-20
WG3275018-1	MB							
Conductivity (EC)			0.8		uS/cm		1	13-FEB-20
WG3275018-4	MB							
Conductivity (EC)			1.4	B	uS/cm		1	13-FEB-20
HG-DIS-WT		Effluent						
Batch R4996059								
WG3274393-3	DUP	L2415374-2						
Mercury (Hg)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	13-FEB-20
WG3274393-2	LCS							
Mercury (Hg)-Dissolved			87.4		%		80-120	13-FEB-20
WG3274393-1	MB							
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.00003	13-FEB-20
WG3274393-4	MS	L2415374-3						
Mercury (Hg)-Dissolved			85.0		%		70-130	13-FEB-20
HG-TOT-WT		Effluent						
Batch R4996032								
WG3274392-3	DUP	L2415374-2						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	13-FEB-20
WG3274392-2	LCS							
Mercury (Hg)-Total			92.7		%		80-120	13-FEB-20
WG3274392-1	MB							
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	13-FEB-20
WG3274392-4	MS	L2415374-3						
Mercury (Hg)-Total			80.6		%		70-130	13-FEB-20
MET-D-MISA-TB		Effluent						
Batch R4995894								
WG3274452-3	DUP	L2415374-16						
Aluminum (Al)-Dissolved		0.0422	0.0410		mg/L	2.8	20	12-FEB-20
Antimony (Sb)-Dissolved		0.000050	0.000050	RPD-NA	mg/L	N/A	20	12-FEB-20
Arsenic (As)-Dissolved		0.00113	0.00107		mg/L	5.4	20	12-FEB-20
Barium (Ba)-Dissolved		0.0134	0.0135		mg/L	0.8	20	12-FEB-20

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 7 of 30

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R4995894							
WG3274452-3	DUP	L2415374-16						
Beryllium (Be)-Dissolved		0.000008	0.000010	RPD-NA	mg/L	N/A	20	12-FEB-20
Bismuth (Bi)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	12-FEB-20
Boron (B)-Dissolved		0.0105	0.0105	RPD-NA	mg/L	N/A	20	12-FEB-20
Cadmium (Cd)-Dissolved		0.0000155	0.0000185	RPD-NA	mg/L	N/A	20	12-FEB-20
Calcium (Ca)-Dissolved		40.1	40.0		mg/L	0.3	20	12-FEB-20
Cesium (Cs)-Dissolved		0.0000015	0.0000010	RPD-NA	mg/L	N/A	20	12-FEB-20
Chromium (Cr)-Dissolved		0.00024	0.00026	RPD-NA	mg/L	N/A	20	12-FEB-20
Cobalt (Co)-Dissolved		0.000464	0.000465	RPD-NA	mg/L	N/A	20	12-FEB-20
Copper (Cu)-Dissolved		0.00098	0.00096	RPD-NA	mg/L	N/A	20	12-FEB-20
Iron (Fe)-Dissolved		0.861	0.865		mg/L	0.5	20	12-FEB-20
Lead (Pb)-Dissolved		0.000115	0.000115		mg/L	0.5	20	12-FEB-20
Lithium (Li)-Dissolved		0.0056	0.0054	RPD-NA	mg/L	N/A	20	12-FEB-20
Magnesium (Mg)-Dissolved		17.4	17.6		mg/L	1.0	20	12-FEB-20
Manganese (Mn)-Dissolved		0.134	0.135		mg/L	1.4	20	12-FEB-20
Molybdenum (Mo)-Dissolved		0.000394	0.000412	RPD-NA	mg/L	N/A	20	12-FEB-20
Nickel (Ni)-Dissolved		0.00122	0.00122	RPD-NA	mg/L	N/A	20	12-FEB-20
Phosphorus (P)-Dissolved		0.010	0.012	RPD-NA	mg/L	N/A	20	12-FEB-20
Potassium (K)-Dissolved		1.32	1.35		mg/L	2.4	20	12-FEB-20
Rubidium (Rb)-Dissolved		0.00189	0.00196		mg/L	3.5	20	12-FEB-20
Selenium (Se)-Dissolved		0.000195	0.000225		mg/L	14	20	12-FEB-20
Silicon (Si)-Dissolved		6.02	6.17		mg/L	2.3	20	12-FEB-20
Silver (Ag)-Dissolved		<0.0000005	0.0000010	RPD-NA	mg/L	N/A	20	12-FEB-20
Sodium (Na)-Dissolved		2.62	2.61		mg/L	0.6	20	12-FEB-20
Strontium (Sr)-Dissolved		0.102	0.104		mg/L	1.6	20	12-FEB-20
Sulfur (S)-Dissolved		1.7	1.7		mg/L	3.0	20	12-FEB-20
Tellurium (Te)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	12-FEB-20
Thallium (Tl)-Dissolved		0.0000025	0.0000022	RPD-NA	mg/L	N/A	20	12-FEB-20
Thorium (Th)-Dissolved		0.000052	0.000056	RPD-NA	mg/L	N/A	20	12-FEB-20
Tin (Sn)-Dissolved		0.000065	0.000065	RPD-NA	mg/L	N/A	20	12-FEB-20
Titanium (Ti)-Dissolved		0.00132	0.00132	RPD-NA	mg/L	N/A	20	12-FEB-20
Tungsten (W)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	12-FEB-20
Uranium (U)-Dissolved		0.00108	0.00112	RPD-NA	mg/L	N/A	20	12-FEB-20
Vanadium (V)-Dissolved		0.00060	0.00058		mg/L			12-FEB-20

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 8 of 30

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB								
	Effluent							
Batch	R4995894							
WG3274452-3	DUP	L2415374-16						
Vanadium (V)-Dissolved		0.00060	0.00058	RPD-NA	mg/L	N/A	20	12-FEB-20
Zinc (Zn)-Dissolved		0.0018	0.0016	RPD-NA	mg/L	N/A	20	12-FEB-20
Zirconium (Zr)-Dissolved		0.000360	0.000376	RPD-NA	mg/L	N/A	20	12-FEB-20
WG3274452-2	LCS							
Aluminum (Al)-Dissolved			100.4		%		80-120	12-FEB-20
Antimony (Sb)-Dissolved			101.8		%		80-120	12-FEB-20
Arsenic (As)-Dissolved			99.0		%		80-120	12-FEB-20
Barium (Ba)-Dissolved			104.2		%		80-120	12-FEB-20
Beryllium (Be)-Dissolved			107.4		%		80-120	12-FEB-20
Bismuth (Bi)-Dissolved			100.7		%		80-120	12-FEB-20
Boron (B)-Dissolved			99.4		%		80-120	12-FEB-20
Cadmium (Cd)-Dissolved			100.2		%		80-120	12-FEB-20
Calcium (Ca)-Dissolved			100.7		%		80-120	12-FEB-20
Cesium (Cs)-Dissolved			102.7		%		80-120	12-FEB-20
Chromium (Cr)-Dissolved			104.0		%		80-120	12-FEB-20
Cobalt (Co)-Dissolved			102.0		%		80-120	12-FEB-20
Copper (Cu)-Dissolved			99.5		%		80-120	12-FEB-20
Iron (Fe)-Dissolved			104.1		%		80-120	12-FEB-20
Lead (Pb)-Dissolved			99.9		%		80-120	12-FEB-20
Lithium (Li)-Dissolved			102.2		%		80-120	12-FEB-20
Magnesium (Mg)-Dissolved			104.6		%		80-120	12-FEB-20
Manganese (Mn)-Dissolved			101.2		%		80-120	12-FEB-20
Molybdenum (Mo)-Dissolved			100.1		%		80-120	12-FEB-20
Nickel (Ni)-Dissolved			99.7		%		80-120	12-FEB-20
Phosphorus (P)-Dissolved			105.7		%		70-130	12-FEB-20
Potassium (K)-Dissolved			107.0		%		80-120	12-FEB-20
Rubidium (Rb)-Dissolved			104.7		%		80-120	12-FEB-20
Selenium (Se)-Dissolved			100.6		%		80-120	12-FEB-20
Silicon (Si)-Dissolved			101.6		%		60-140	12-FEB-20
Silver (Ag)-Dissolved			101.2		%		80-120	12-FEB-20
Sodium (Na)-Dissolved			103.9		%		80-120	12-FEB-20
Strontium (Sr)-Dissolved			101.1		%		80-120	12-FEB-20
Sulfur (S)-Dissolved			102.3		%		80-120	12-FEB-20
Tellurium (Te)-Dissolved			96.0				80-120	

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 9 of 30

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R4995894							
WG3274452-2 LCS								
Tellurium (Te)-Dissolved			96.0		%		80-120	12-FEB-20
Thallium (Tl)-Dissolved			99.9		%		80-120	12-FEB-20
Thorium (Th)-Dissolved			99.4		%		80-120	12-FEB-20
Tin (Sn)-Dissolved			99.4		%		80-120	12-FEB-20
Titanium (Ti)-Dissolved			97.7		%		80-120	12-FEB-20
Tungsten (W)-Dissolved			97.8		%		80-120	12-FEB-20
Uranium (U)-Dissolved			98.4		%		80-120	12-FEB-20
Vanadium (V)-Dissolved			103.0		%		80-120	12-FEB-20
Zinc (Zn)-Dissolved			97.0		%		80-120	12-FEB-20
Zirconium (Zr)-Dissolved			99.4		%		80-120	12-FEB-20
WG3274452-1 MB								
Aluminum (Al)-Dissolved			<0.0002		mg/L		0.005	12-FEB-20
Antimony (Sb)-Dissolved			<0.000005		mg/L		0.0006	12-FEB-20
Arsenic (As)-Dissolved			0.000010		mg/L		0.001	12-FEB-20
Barium (Ba)-Dissolved			<0.000005		mg/L		0.01	12-FEB-20
Beryllium (Be)-Dissolved			<0.000002		mg/L		0.001	12-FEB-20
Bismuth (Bi)-Dissolved			<0.000002		mg/L		0.001	12-FEB-20
Boron (B)-Dissolved			<0.0005		mg/L		0.05	12-FEB-20
Cadmium (Cd)-Dissolved			<0.0000005		mg/L		0.000017	12-FEB-20
Calcium (Ca)-Dissolved			<0.002		mg/L		0.2	12-FEB-20
Cesium (Cs)-Dissolved			<0.0000005		mg/L		0.00001	12-FEB-20
Chromium (Cr)-Dissolved			<0.00002		mg/L		0.001	12-FEB-20
Cobalt (Co)-Dissolved			<0.000001		mg/L		0.0005	12-FEB-20
Copper (Cu)-Dissolved			<0.00002		mg/L		0.001	12-FEB-20
Iron (Fe)-Dissolved			<0.0002		mg/L		0.02	12-FEB-20
Lead (Pb)-Dissolved			<0.000005		mg/L		0.00005	12-FEB-20
Lithium (Li)-Dissolved			<0.0002		mg/L		0.05	12-FEB-20
Magnesium (Mg)-Dissolved			<0.0005		mg/L		0.02	12-FEB-20
Manganese (Mn)-Dissolved			<0.00002		mg/L		0.001	12-FEB-20
Molybdenum (Mo)-Dissolved			<0.000002		mg/L		0.001	12-FEB-20
Nickel (Ni)-Dissolved			<0.00002		mg/L		0.002	12-FEB-20
Phosphorus (P)-Dissolved			<0.002		mg/L		0.05	12-FEB-20
Potassium (K)-Dissolved			<0.005		mg/L		0.5	12-FEB-20
Rubidium (Rb)-Dissolved			0.000004		mg/L		0.0002	12-FEB-20

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 10 of 30

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB								
	Effluent							
Batch	R4995894							
WG3274452-1	MB							
Selenium (Se)-Dissolved			<0.000005		mg/L		0.00005	12-FEB-20
Silicon (Si)-Dissolved			0.005		mg/L		0.05	12-FEB-20
Silver (Ag)-Dissolved			0.0000010		mg/L		0.0001	12-FEB-20
Sodium (Na)-Dissolved			<0.005		mg/L		0.1	12-FEB-20
Strontium (Sr)-Dissolved			<0.000005		mg/L		0.001	12-FEB-20
Sulfur (S)-Dissolved			<0.1		mg/L		0.5	12-FEB-20
Tellurium (Te)-Dissolved			<0.000005		mg/L		0.001	12-FEB-20
Thallium (Tl)-Dissolved			<0.0000001		mg/L		0.0003	12-FEB-20
Thorium (Th)-Dissolved			<0.000002		mg/L		0.0001	12-FEB-20
Tin (Sn)-Dissolved			<0.000005		mg/L		0.001	12-FEB-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.002	12-FEB-20
Tungsten (W)-Dissolved			<0.000002		mg/L		0.01	12-FEB-20
Uranium (U)-Dissolved			<0.0000002		mg/L		0.005	12-FEB-20
Vanadium (V)-Dissolved			0.00006		mg/L		0.001	12-FEB-20
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.003	12-FEB-20
Zirconium (Zr)-Dissolved			<0.000002		mg/L		0.001	12-FEB-20
WG3274452-4	MS	L2415374-17						
Aluminum (Al)-Dissolved			101.2		%		70-130	12-FEB-20
Antimony (Sb)-Dissolved			100.8		%		70-130	12-FEB-20
Arsenic (As)-Dissolved			103.0		%		70-130	12-FEB-20
Barium (Ba)-Dissolved			99.9		%		70-130	12-FEB-20
Beryllium (Be)-Dissolved			104.5		%		70-130	12-FEB-20
Bismuth (Bi)-Dissolved			94.6		%		70-130	12-FEB-20
Boron (B)-Dissolved			105.1		%		70-130	12-FEB-20
Cadmium (Cd)-Dissolved			99.4		%		70-130	12-FEB-20
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	12-FEB-20
Cesium (Cs)-Dissolved			101.6		%		70-130	12-FEB-20
Chromium (Cr)-Dissolved			100.7		%		70-130	12-FEB-20
Cobalt (Co)-Dissolved			99.3		%		70-130	12-FEB-20
Copper (Cu)-Dissolved			99.6		%		70-130	12-FEB-20
Iron (Fe)-Dissolved			98.7		%		70-130	12-FEB-20
Lead (Pb)-Dissolved			98.3		%		70-130	12-FEB-20
Lithium (Li)-Dissolved			103.9		%		70-130	12-FEB-20
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	12-FEB-20

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 11 of 30

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB								
	Effluent							
Batch	R4995894							
WG3274452-4 MS		L2415374-17						
Manganese (Mn)-Dissolved			N/A	MS-B	%		-	12-FEB-20
Molybdenum (Mo)-Dissolved			98.8		%		70-130	12-FEB-20
Nickel (Ni)-Dissolved			99.5		%		70-130	12-FEB-20
Phosphorus (P)-Dissolved			108.3		%		70-130	12-FEB-20
Potassium (K)-Dissolved			104.3		%		70-130	12-FEB-20
Rubidium (Rb)-Dissolved			101.9		%		70-130	12-FEB-20
Selenium (Se)-Dissolved			113.3		%		70-130	12-FEB-20
Silicon (Si)-Dissolved			85.7		%		70-130	12-FEB-20
Silver (Ag)-Dissolved			97.8		%		70-130	12-FEB-20
Sodium (Na)-Dissolved			N/A	MS-B	%		-	12-FEB-20
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	12-FEB-20
Sulfur (S)-Dissolved			101.2		%		70-130	12-FEB-20
Tellurium (Te)-Dissolved			101.6		%		70-130	12-FEB-20
Thallium (Tl)-Dissolved			99.0		%		70-130	12-FEB-20
Thorium (Th)-Dissolved			99.1		%		70-130	12-FEB-20
Tin (Sn)-Dissolved			99.4		%		70-130	12-FEB-20
Titanium (Ti)-Dissolved			101.2		%		70-130	12-FEB-20
Tungsten (W)-Dissolved			99.4		%		70-130	12-FEB-20
Uranium (U)-Dissolved			97.8		%		70-130	12-FEB-20
Vanadium (V)-Dissolved			100.9		%		70-130	12-FEB-20
Zinc (Zn)-Dissolved			101.5		%		70-130	12-FEB-20
Zirconium (Zr)-Dissolved			102.7		%		70-130	12-FEB-20
Batch	R4996550							
WG3275793-2 LCS								
Aluminum (Al)-Dissolved			99.9		%		80-120	13-FEB-20
Antimony (Sb)-Dissolved			96.2		%		80-120	13-FEB-20
Arsenic (As)-Dissolved			94.7		%		80-120	13-FEB-20
Barium (Ba)-Dissolved			101.5		%		80-120	13-FEB-20
Beryllium (Be)-Dissolved			99.6		%		80-120	13-FEB-20
Bismuth (Bi)-Dissolved			101.2		%		80-120	13-FEB-20
Boron (B)-Dissolved			91.3		%		80-120	13-FEB-20
Cadmium (Cd)-Dissolved			99.2		%		80-120	13-FEB-20
Calcium (Ca)-Dissolved			97.3		%		80-120	13-FEB-20
Cesium (Cs)-Dissolved			99.2		%		80-120	13-FEB-20

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 12 of 30

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R4996550							
WG3275793-2 LCS								
Chromium (Cr)-Dissolved			98.4		%		80-120	13-FEB-20
Cobalt (Co)-Dissolved			98.3		%		80-120	13-FEB-20
Copper (Cu)-Dissolved			95.7		%		80-120	13-FEB-20
Iron (Fe)-Dissolved			106.1		%		80-120	13-FEB-20
Lead (Pb)-Dissolved			100.8		%		80-120	13-FEB-20
Lithium (Li)-Dissolved			100.0		%		80-120	13-FEB-20
Magnesium (Mg)-Dissolved			102.0		%		80-120	13-FEB-20
Manganese (Mn)-Dissolved			98.7		%		80-120	13-FEB-20
Molybdenum (Mo)-Dissolved			98.2		%		80-120	13-FEB-20
Nickel (Ni)-Dissolved			97.2		%		80-120	13-FEB-20
Phosphorus (P)-Dissolved			97.7		%		70-130	13-FEB-20
Potassium (K)-Dissolved			106.8		%		80-120	13-FEB-20
Rubidium (Rb)-Dissolved			99.4		%		80-120	13-FEB-20
Selenium (Se)-Dissolved			99.0		%		80-120	13-FEB-20
Silicon (Si)-Dissolved			100.3		%		60-140	13-FEB-20
Silver (Ag)-Dissolved			99.9		%		80-120	13-FEB-20
Sodium (Na)-Dissolved			99.9		%		80-120	13-FEB-20
Strontium (Sr)-Dissolved			97.1		%		80-120	13-FEB-20
Sulfur (S)-Dissolved			93.6		%		80-120	13-FEB-20
Tellurium (Te)-Dissolved			98.5		%		80-120	13-FEB-20
Thallium (Tl)-Dissolved			101.3		%		80-120	13-FEB-20
Thorium (Th)-Dissolved			97.2		%		80-120	13-FEB-20
Tin (Sn)-Dissolved			96.8		%		80-120	13-FEB-20
Titanium (Ti)-Dissolved			90.2		%		80-120	13-FEB-20
Tungsten (W)-Dissolved			100.3		%		80-120	13-FEB-20
Uranium (U)-Dissolved			98.7		%		80-120	13-FEB-20
Vanadium (V)-Dissolved			99.5		%		80-120	13-FEB-20
Zinc (Zn)-Dissolved			94.8		%		80-120	13-FEB-20
Zirconium (Zr)-Dissolved			96.5		%		80-120	13-FEB-20
WG3275793-1 MB								
Aluminum (Al)-Dissolved			<0.0002		mg/L		0.005	13-FEB-20
Antimony (Sb)-Dissolved			<0.000005		mg/L		0.0006	13-FEB-20
Arsenic (As)-Dissolved			<0.000005		mg/L		0.001	13-FEB-20
Barium (Ba)-Dissolved			<0.000005		mg/L		0.01	13-FEB-20

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 13 of 30

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB	Effluent							
Batch	R4996550							
WG3275793-1 MB								
Beryllium (Be)-Dissolved			<0.000002		mg/L		0.001	13-FEB-20
Bismuth (Bi)-Dissolved			<0.000002		mg/L		0.001	13-FEB-20
Boron (B)-Dissolved			<0.0005		mg/L		0.05	13-FEB-20
Cadmium (Cd)-Dissolved			<0.0000005		mg/L		0.000017	13-FEB-20
Calcium (Ca)-Dissolved			0.008		mg/L		0.2	13-FEB-20
Cesium (Cs)-Dissolved			0.0000015		mg/L		0.00001	13-FEB-20
Chromium (Cr)-Dissolved			<0.00002		mg/L		0.001	13-FEB-20
Cobalt (Co)-Dissolved			<0.000001		mg/L		0.0005	13-FEB-20
Copper (Cu)-Dissolved			<0.00002		mg/L		0.001	13-FEB-20
Iron (Fe)-Dissolved			0.0008		mg/L		0.02	13-FEB-20
Lead (Pb)-Dissolved			<0.000005		mg/L		0.00005	13-FEB-20
Lithium (Li)-Dissolved			<0.0002		mg/L		0.05	13-FEB-20
Magnesium (Mg)-Dissolved			0.0015		mg/L		0.02	13-FEB-20
Manganese (Mn)-Dissolved			<0.00002		mg/L		0.001	13-FEB-20
Molybdenum (Mo)-Dissolved			0.000010		mg/L		0.001	13-FEB-20
Nickel (Ni)-Dissolved			<0.00002		mg/L		0.002	13-FEB-20
Phosphorus (P)-Dissolved			<0.002		mg/L		0.05	13-FEB-20
Potassium (K)-Dissolved			<0.005		mg/L		0.5	13-FEB-20
Rubidium (Rb)-Dissolved			0.000010		mg/L		0.0002	13-FEB-20
Selenium (Se)-Dissolved			0.000005		mg/L		0.00005	13-FEB-20
Silicon (Si)-Dissolved			0.006		mg/L		0.05	13-FEB-20
Silver (Ag)-Dissolved			<0.0000005		mg/L		0.0001	13-FEB-20
Sodium (Na)-Dissolved			0.015		mg/L		0.1	13-FEB-20
Strontium (Sr)-Dissolved			0.000120		mg/L		0.001	13-FEB-20
Sulfur (S)-Dissolved			<0.1		mg/L		0.5	13-FEB-20
Tellurium (Te)-Dissolved			<0.000005		mg/L		0.001	13-FEB-20
Thallium (Tl)-Dissolved			0.0000005		mg/L		0.0003	13-FEB-20
Thorium (Th)-Dissolved			<0.000002		mg/L		0.0001	13-FEB-20
Tin (Sn)-Dissolved			<0.000005		mg/L		0.001	13-FEB-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.002	13-FEB-20
Tungsten (W)-Dissolved			<0.000002		mg/L		0.01	13-FEB-20
Uranium (U)-Dissolved			<0.0000002		mg/L		0.005	13-FEB-20
Vanadium (V)-Dissolved			<0.00002		mg/L		0.001	13-FEB-20

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 14 of 30

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R4996550							
WG3275793-1	MB							
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.003	13-FEB-20
Zirconium (Zr)-Dissolved			<0.000002		mg/L		0.001	13-FEB-20
Batch	R4997530							
WG3276005-2	LCS							
Aluminum (Al)-Dissolved			107.2		%		80-120	14-FEB-20
Antimony (Sb)-Dissolved			105.5		%		80-120	14-FEB-20
Arsenic (As)-Dissolved			103.1		%		80-120	14-FEB-20
Barium (Ba)-Dissolved			108.9		%		80-120	14-FEB-20
Beryllium (Be)-Dissolved			107.9		%		80-120	14-FEB-20
Bismuth (Bi)-Dissolved			106.8		%		80-120	14-FEB-20
Boron (B)-Dissolved			99.2		%		80-120	14-FEB-20
Cadmium (Cd)-Dissolved			106.5		%		80-120	14-FEB-20
Calcium (Ca)-Dissolved			107.0		%		80-120	14-FEB-20
Cesium (Cs)-Dissolved			105.7		%		80-120	14-FEB-20
Chromium (Cr)-Dissolved			107.0		%		80-120	14-FEB-20
Cobalt (Co)-Dissolved			106.6		%		80-120	14-FEB-20
Copper (Cu)-Dissolved			104.8		%		80-120	14-FEB-20
Iron (Fe)-Dissolved			101.2		%		80-120	14-FEB-20
Lead (Pb)-Dissolved			107.0		%		80-120	14-FEB-20
Lithium (Li)-Dissolved			106.3		%		80-120	14-FEB-20
Magnesium (Mg)-Dissolved			111.5		%		80-120	14-FEB-20
Manganese (Mn)-Dissolved			108.5		%		80-120	14-FEB-20
Molybdenum (Mo)-Dissolved			107.4		%		80-120	14-FEB-20
Nickel (Ni)-Dissolved			106.3		%		80-120	14-FEB-20
Phosphorus (P)-Dissolved			109.0		%		70-130	14-FEB-20
Potassium (K)-Dissolved			109.4		%		80-120	14-FEB-20
Rubidium (Rb)-Dissolved			106.5		%		80-120	14-FEB-20
Selenium (Se)-Dissolved			94.3		%		80-120	14-FEB-20
Silicon (Si)-Dissolved			99.0		%		60-140	14-FEB-20
Silver (Ag)-Dissolved			105.9		%		80-120	14-FEB-20
Sodium (Na)-Dissolved			109.3		%		80-120	14-FEB-20
Strontium (Sr)-Dissolved			104.7		%		80-120	14-FEB-20
Sulfur (S)-Dissolved			94.4		%		80-120	14-FEB-20
Tellurium (Te)-Dissolved			105.4		%		80-120	14-FEB-20

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 15 of 30

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R4997530							
WG3276005-2	LCS							
Thallium (Tl)-Dissolved			109.4		%		80-120	14-FEB-20
Thorium (Th)-Dissolved			103.3		%		80-120	14-FEB-20
Tin (Sn)-Dissolved			106.2		%		80-120	14-FEB-20
Titanium (Ti)-Dissolved			99.4		%		80-120	14-FEB-20
Tungsten (W)-Dissolved			107.3		%		80-120	14-FEB-20
Uranium (U)-Dissolved			108.0		%		80-120	14-FEB-20
Vanadium (V)-Dissolved			109.6		%		80-120	14-FEB-20
Zinc (Zn)-Dissolved			103.1		%		80-120	14-FEB-20
Zirconium (Zr)-Dissolved			104.4		%		80-120	14-FEB-20
WG3276005-1	MB							
Aluminum (Al)-Dissolved			<0.0002		mg/L		0.005	14-FEB-20
Antimony (Sb)-Dissolved			<0.000005		mg/L		0.0006	14-FEB-20
Arsenic (As)-Dissolved			<0.000005		mg/L		0.001	14-FEB-20
Barium (Ba)-Dissolved			<0.000005		mg/L		0.01	14-FEB-20
Beryllium (Be)-Dissolved			0.000002		mg/L		0.001	14-FEB-20
Bismuth (Bi)-Dissolved			<0.000002		mg/L		0.001	14-FEB-20
Boron (B)-Dissolved			<0.0005		mg/L		0.05	14-FEB-20
Cadmium (Cd)-Dissolved			<0.0000005		mg/L		0.000017	14-FEB-20
Calcium (Ca)-Dissolved			<0.002		mg/L		0.2	14-FEB-20
Cesium (Cs)-Dissolved			<0.0000005		mg/L		0.00001	14-FEB-20
Chromium (Cr)-Dissolved			<0.00002		mg/L		0.001	14-FEB-20
Cobalt (Co)-Dissolved			<0.000001		mg/L		0.0005	14-FEB-20
Copper (Cu)-Dissolved			<0.00002		mg/L		0.001	14-FEB-20
Iron (Fe)-Dissolved			<0.0002		mg/L		0.02	14-FEB-20
Lead (Pb)-Dissolved			<0.000005		mg/L		0.00005	14-FEB-20
Lithium (Li)-Dissolved			<0.0002		mg/L		0.05	14-FEB-20
Magnesium (Mg)-Dissolved			<0.0005		mg/L		0.02	14-FEB-20
Manganese (Mn)-Dissolved			<0.00002		mg/L		0.001	14-FEB-20
Molybdenum (Mo)-Dissolved			<0.000002		mg/L		0.001	14-FEB-20
Nickel (Ni)-Dissolved			<0.00002		mg/L		0.002	14-FEB-20
Phosphorus (P)-Dissolved			<0.002		mg/L		0.05	14-FEB-20
Potassium (K)-Dissolved			<0.005		mg/L		0.5	14-FEB-20
Rubidium (Rb)-Dissolved			<0.000002		mg/L		0.0002	14-FEB-20
Selenium (Se)-Dissolved			0.000005		mg/L		0.00005	14-FEB-20

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 16 of 30

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R4997530							
WG3276005-1	MB							
Silicon (Si)-Dissolved			0.007		mg/L		0.05	14-FEB-20
Silver (Ag)-Dissolved			<0.0000005		mg/L		0.0001	14-FEB-20
Sodium (Na)-Dissolved			0.005		mg/L		0.1	14-FEB-20
Strontium (Sr)-Dissolved			<0.000005		mg/L		0.001	14-FEB-20
Sulfur (S)-Dissolved			<0.1		mg/L		0.5	14-FEB-20
Tellurium (Te)-Dissolved			<0.000005		mg/L		0.001	14-FEB-20
Thallium (Tl)-Dissolved			<0.0000001		mg/L		0.0003	14-FEB-20
Thorium (Th)-Dissolved			<0.000002		mg/L		0.0001	14-FEB-20
Tin (Sn)-Dissolved			<0.000005		mg/L		0.001	14-FEB-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.002	14-FEB-20
Tungsten (W)-Dissolved			<0.000002		mg/L		0.01	14-FEB-20
Uranium (U)-Dissolved			<0.0000002		mg/L		0.005	14-FEB-20
Vanadium (V)-Dissolved			<0.00002		mg/L		0.001	14-FEB-20
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.003	14-FEB-20
Zirconium (Zr)-Dissolved			<0.000002		mg/L		0.001	14-FEB-20
MET-T-MISA-TB		Effluent						
Batch	R4995872							
WG3274090-2	LCS							
Aluminum (Al)-Total			108.6		%		80-120	12-FEB-20
Antimony (Sb)-Total			108.5		%		80-120	12-FEB-20
Arsenic (As)-Total			102.0		%		80-120	12-FEB-20
Barium (Ba)-Total			107.8		%		80-120	12-FEB-20
Beryllium (Be)-Total			107.7		%		80-120	12-FEB-20
Bismuth (Bi)-Total			109.2		%		80-120	12-FEB-20
Boron (B)-Total			95.4		%		80-120	12-FEB-20
Cadmium (Cd)-Total			103.8		%		80-120	12-FEB-20
Calcium (Ca)-Total			106.3		%		80-120	12-FEB-20
Cesium (Cs)-Total			106.3		%		80-120	12-FEB-20
Chromium (Cr)-Total			106.3		%		80-120	12-FEB-20
Cobalt (Co)-Total			105.2		%		80-120	12-FEB-20
Copper (Cu)-Total			104.1		%		80-120	12-FEB-20
Iron (Fe)-Total			106.5		%		80-120	12-FEB-20
Lead (Pb)-Total			106.2		%		80-120	12-FEB-20
Lithium (Li)-Total			107.8		%		80-120	12-FEB-20

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 17 of 30

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R4995872							
WG3274090-2	LCS							
Lithium (Li)-Total			107.8		%		80-120	12-FEB-20
Magnesium (Mg)-Total			115.9		%		80-120	12-FEB-20
Manganese (Mn)-Total			104.9		%		80-120	12-FEB-20
Molybdenum (Mo)-Total			102.7		%		80-120	12-FEB-20
Nickel (Ni)-Total			105.0		%		80-120	12-FEB-20
Phosphorus (P)-Total			110.1		%		80-120	12-FEB-20
Potassium (K)-Total			109.3		%		80-120	12-FEB-20
Rubidium (Rb)-Total			104.3		%		80-120	12-FEB-20
Selenium (Se)-Total			106.0		%		80-120	12-FEB-20
Silicon (Si)-Total			108.6		%		80-120	12-FEB-20
Silver (Ag)-Total			106.5		%		80-120	12-FEB-20
Sodium (Na)-Total			107.7		%		80-120	12-FEB-20
Strontium (Sr)-Total			106.1		%		80-120	12-FEB-20
Sulfur (S)-Total			110.0		%		80-120	12-FEB-20
Tellurium (Te)-Total			101.8		%		80-120	12-FEB-20
Thallium (Tl)-Total			105.8		%		80-120	12-FEB-20
Thorium (Th)-Total			105.4		%		80-120	12-FEB-20
Tin (Sn)-Total			103.3		%		80-120	12-FEB-20
Titanium (Ti)-Total			103.1		%		80-120	12-FEB-20
Tungsten (W)-Total			102.3		%		80-120	12-FEB-20
Uranium (U)-Total			106.6		%		80-120	12-FEB-20
Vanadium (V)-Total			106.0		%		80-120	12-FEB-20
Zinc (Zn)-Total			101.2		%		80-120	12-FEB-20
Zirconium (Zr)-Total			103.7		%		80-120	12-FEB-20
WG3274090-1	MB							
Aluminum (Al)-Total			0.0012		mg/L		0.005	12-FEB-20
Antimony (Sb)-Total			0.00002		mg/L		0.0006	12-FEB-20
Arsenic (As)-Total			0.00003		mg/L		0.001	12-FEB-20
Barium (Ba)-Total			0.00007		mg/L		0.01	12-FEB-20
Beryllium (Be)-Total			<0.000001		mg/L		0.001	12-FEB-20
Bismuth (Bi)-Total			0.000006		mg/L		0.001	12-FEB-20
Boron (B)-Total			<0.0005		mg/L		0.05	12-FEB-20
Cadmium (Cd)-Total			<0.000001		mg/L		0.000017	12-FEB-20
Calcium (Ca)-Total			0.004		mg/L		0.2	12-FEB-20

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 18 of 30

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R4995872							
WG3274090-1	MB							
Cesium (Cs)-Total			<0.0000005		mg/L		0.00001	12-FEB-20
Chromium (Cr)-Total			<0.00002		mg/L		0.001	12-FEB-20
Cobalt (Co)-Total			0.000002		mg/L		0.0005	12-FEB-20
Copper (Cu)-Total			0.00004		mg/L		0.001	12-FEB-20
Iron (Fe)-Total			0.0020		mg/L		0.02	12-FEB-20
Lead (Pb)-Total			<0.000005		mg/L		0.00005	12-FEB-20
Lithium (Li)-Total			<0.0002		mg/L		0.05	12-FEB-20
Magnesium (Mg)-Total			0.0005		mg/L		0.02	12-FEB-20
Manganese (Mn)-Total			0.00004		mg/L		0.001	12-FEB-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.001	12-FEB-20
Nickel (Ni)-Total			<0.00002		mg/L		0.002	12-FEB-20
Phosphorus (P)-Total			<0.005		mg/L		0.05	12-FEB-20
Potassium (K)-Total			<0.005		mg/L		0.5	12-FEB-20
Rubidium (Rb)-Total			<0.000002		mg/L		0.0002	12-FEB-20
Selenium (Se)-Total			0.000015		mg/L		0.00005	12-FEB-20
Silicon (Si)-Total			0.022		mg/L		0.1	12-FEB-20
Silver (Ag)-Total			0.000001		mg/L		0.0001	12-FEB-20
Sodium (Na)-Total			0.01		mg/L		0.1	12-FEB-20
Strontium (Sr)-Total			<0.00001		mg/L		0.001	12-FEB-20
Sulfur (S)-Total			0.2		mg/L		0.5	12-FEB-20
Tellurium (Te)-Total			<0.00001		mg/L		0.001	12-FEB-20
Thallium (Tl)-Total			<0.0000002		mg/L		0.0003	12-FEB-20
Thorium (Th)-Total			0.000004		mg/L		0.0001	12-FEB-20
Tin (Sn)-Total			<0.00001		mg/L		0.001	12-FEB-20
Titanium (Ti)-Total			0.00006		mg/L		0.002	12-FEB-20
Tungsten (W)-Total			<0.000002		mg/L		0.01	12-FEB-20
Uranium (U)-Total			<0.000005		mg/L		0.005	12-FEB-20
Vanadium (V)-Total			0.00015		mg/L		0.001	12-FEB-20
Zinc (Zn)-Total			0.0020		mg/L		0.003	12-FEB-20
Zirconium (Zr)-Total			<0.000002		mg/L		0.001	12-FEB-20
WG3274090-4	MS	L2415374-16						
Antimony (Sb)-Total			103.7		%		70-130	12-FEB-20
Arsenic (As)-Total			99.0		%		70-130	12-FEB-20
Barium (Ba)-Total			103.2		%		70-130	12-FEB-20

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 19 of 30

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R4995872							
WG3274090-4 MS		L2415374-16						
Beryllium (Be)-Total			106.0		%		70-130	12-FEB-20
Bismuth (Bi)-Total			98.5		%		70-130	12-FEB-20
Boron (B)-Total			100.4		%		70-130	12-FEB-20
Cadmium (Cd)-Total			101.5		%		70-130	12-FEB-20
Calcium (Ca)-Total			N/A	MS-B	%		-	12-FEB-20
Cesium (Cs)-Total			103.1		%		70-130	12-FEB-20
Chromium (Cr)-Total			101.8		%		70-130	12-FEB-20
Cobalt (Co)-Total			101.1		%		70-130	12-FEB-20
Copper (Cu)-Total			98.5		%		70-130	12-FEB-20
Iron (Fe)-Total			97.4		%		70-130	12-FEB-20
Lead (Pb)-Total			99.2		%		70-130	12-FEB-20
Lithium (Li)-Total			111.4		%		70-130	12-FEB-20
Magnesium (Mg)-Total			N/A	MS-B	%		-	12-FEB-20
Manganese (Mn)-Total			N/A	MS-B	%		-	12-FEB-20
Molybdenum (Mo)-Total			102.1		%		70-130	12-FEB-20
Nickel (Ni)-Total			99.6		%		70-130	12-FEB-20
Phosphorus (P)-Total			106.8		%		70-130	12-FEB-20
Potassium (K)-Total			100.9		%		70-130	12-FEB-20
Rubidium (Rb)-Total			100.2		%		70-130	12-FEB-20
Selenium (Se)-Total			107.9		%		70-130	12-FEB-20
Silicon (Si)-Total			93.9		%		70-130	12-FEB-20
Silver (Ag)-Total			102.3		%		70-130	12-FEB-20
Sodium (Na)-Total			N/A	MS-B	%		-	12-FEB-20
Strontium (Sr)-Total			N/A	MS-B	%		-	12-FEB-20
Sulfur (S)-Total			103.2		%		70-130	12-FEB-20
Tellurium (Te)-Total			99.5		%		70-130	12-FEB-20
Thallium (Tl)-Total			100.0		%		70-130	12-FEB-20
Thorium (Th)-Total			100.8		%		70-130	12-FEB-20
Tin (Sn)-Total			99.99		%		70-130	12-FEB-20
Titanium (Ti)-Total			105.8		%		70-130	12-FEB-20
Tungsten (W)-Total			104.1		%		70-130	12-FEB-20
Uranium (U)-Total			99.4		%		70-130	12-FEB-20
Vanadium (V)-Total			102.4		%		70-130	12-FEB-20

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 20 of 30

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R4995872							
WG3274090-4	MS	L2415374-16						
Zinc (Zn)-Total			97.4		%		70-130	12-FEB-20
Zirconium (Zr)-Total			107.7		%		70-130	12-FEB-20
Batch	R4996534							
WG3274090-6	LCS							
Aluminum (Al)-Total			99.9		%		80-120	13-FEB-20
Antimony (Sb)-Total			97.6		%		80-120	13-FEB-20
Arsenic (As)-Total			94.3		%		80-120	13-FEB-20
Barium (Ba)-Total			101.0		%		80-120	13-FEB-20
Beryllium (Be)-Total			102.3		%		80-120	13-FEB-20
Bismuth (Bi)-Total			102.5		%		80-120	13-FEB-20
Boron (B)-Total			92.5		%		80-120	13-FEB-20
Cadmium (Cd)-Total			98.2		%		80-120	13-FEB-20
Calcium (Ca)-Total			98.8		%		80-120	13-FEB-20
Cesium (Cs)-Total			97.7		%		80-120	13-FEB-20
Chromium (Cr)-Total			101.0		%		80-120	13-FEB-20
Cobalt (Co)-Total			98.1		%		80-120	13-FEB-20
Copper (Cu)-Total			97.0		%		80-120	13-FEB-20
Iron (Fe)-Total			103.7		%		80-120	13-FEB-20
Lead (Pb)-Total			101.2		%		80-120	13-FEB-20
Lithium (Li)-Total			98.1		%		80-120	13-FEB-20
Magnesium (Mg)-Total			103.0		%		80-120	13-FEB-20
Manganese (Mn)-Total			99.1		%		80-120	13-FEB-20
Molybdenum (Mo)-Total			98.6		%		80-120	13-FEB-20
Nickel (Ni)-Total			97.0		%		80-120	13-FEB-20
Phosphorus (P)-Total			94.0		%		80-120	13-FEB-20
Potassium (K)-Total			105.5		%		80-120	13-FEB-20
Rubidium (Rb)-Total			100.3		%		80-120	13-FEB-20
Selenium (Se)-Total			99.8		%		80-120	13-FEB-20
Silicon (Si)-Total			101.4		%		80-120	13-FEB-20
Silver (Ag)-Total			99.2		%		80-120	13-FEB-20
Sodium (Na)-Total			98.7		%		80-120	13-FEB-20
Strontium (Sr)-Total			97.5		%		80-120	13-FEB-20
Sulfur (S)-Total			89.8		%		80-120	13-FEB-20
Tellurium (Te)-Total			95.5		%		80-120	13-FEB-20

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 21 of 30

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R4996534							
WG3274090-6	LCS							
Thallium (Tl)-Total			101.8		%		80-120	13-FEB-20
Thorium (Th)-Total			97.1		%		80-120	13-FEB-20
Tin (Sn)-Total			96.1		%		80-120	13-FEB-20
Titanium (Ti)-Total			93.2		%		80-120	13-FEB-20
Tungsten (W)-Total			99.6		%		80-120	13-FEB-20
Uranium (U)-Total			100.4		%		80-120	13-FEB-20
Vanadium (V)-Total			101.3		%		80-120	13-FEB-20
Zinc (Zn)-Total			98.6		%		80-120	13-FEB-20
Zirconium (Zr)-Total			99.3		%		80-120	13-FEB-20
WG3274090-5	MB							
Aluminum (Al)-Total			0.0006		mg/L		0.005	13-FEB-20
Antimony (Sb)-Total			<0.00002		mg/L		0.0006	13-FEB-20
Arsenic (As)-Total			<0.00001		mg/L		0.001	13-FEB-20
Barium (Ba)-Total			<0.00001		mg/L		0.01	13-FEB-20
Beryllium (Be)-Total			<0.000001		mg/L		0.001	13-FEB-20
Bismuth (Bi)-Total			<0.000002		mg/L		0.001	13-FEB-20
Boron (B)-Total			<0.0005		mg/L		0.05	13-FEB-20
Cadmium (Cd)-Total			<0.000001		mg/L		0.000017	13-FEB-20
Calcium (Ca)-Total			<0.002		mg/L		0.2	13-FEB-20
Cesium (Cs)-Total			<0.0000005		mg/L		0.00001	13-FEB-20
Chromium (Cr)-Total			<0.00002		mg/L		0.001	13-FEB-20
Cobalt (Co)-Total			<0.000001		mg/L		0.0005	13-FEB-20
Copper (Cu)-Total			<0.00002		mg/L		0.001	13-FEB-20
Iron (Fe)-Total			0.0010		mg/L		0.02	13-FEB-20
Lead (Pb)-Total			<0.000005		mg/L		0.00005	13-FEB-20
Lithium (Li)-Total			<0.0002		mg/L		0.05	13-FEB-20
Magnesium (Mg)-Total			0.0010		mg/L		0.02	13-FEB-20
Manganese (Mn)-Total			<0.00002		mg/L		0.001	13-FEB-20
Molybdenum (Mo)-Total			0.000005		mg/L		0.001	13-FEB-20
Nickel (Ni)-Total			<0.00002		mg/L		0.002	13-FEB-20
Phosphorus (P)-Total			<0.005		mg/L		0.05	13-FEB-20
Potassium (K)-Total			<0.005		mg/L		0.5	13-FEB-20
Rubidium (Rb)-Total			<0.000002		mg/L		0.0002	13-FEB-20
Selenium (Se)-Total			0.000010		mg/L		0.00005	13-FEB-20

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 22 of 30

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R4996534							
WG3274090-5 MB								
Silicon (Si)-Total			0.018		mg/L		0.1	13-FEB-20
Silver (Ag)-Total			<0.000001		mg/L		0.0001	13-FEB-20
Sodium (Na)-Total			<0.01		mg/L		0.1	13-FEB-20
Strontium (Sr)-Total			<0.00001		mg/L		0.001	13-FEB-20
Sulfur (S)-Total			<0.1		mg/L		0.5	13-FEB-20
Tellurium (Te)-Total			<0.00001		mg/L		0.001	13-FEB-20
Thallium (Tl)-Total			<0.0000002		mg/L		0.0003	13-FEB-20
Thorium (Th)-Total			<0.000001		mg/L		0.0001	13-FEB-20
Tin (Sn)-Total			<0.00001		mg/L		0.001	13-FEB-20
Titanium (Ti)-Total			<0.00002		mg/L		0.002	13-FEB-20
Tungsten (W)-Total			0.000004		mg/L		0.01	13-FEB-20
Uranium (U)-Total			<0.000005		mg/L		0.005	13-FEB-20
Vanadium (V)-Total			0.00005		mg/L		0.001	13-FEB-20
Zinc (Zn)-Total			<0.0002		mg/L		0.003	13-FEB-20
Zirconium (Zr)-Total			<0.000002		mg/L		0.001	13-FEB-20
NH3-MISA-COL-TB		Effluent						
Batch	R4995298							
WG3274132-3 DUP		L2415374-2						
Ammonia, Total (as N)		0.178	0.184		mg/L	3.5	20	12-FEB-20
WG3274132-8 DUP		L2415374-15						
Ammonia, Total (as N)		0.052	0.050		mg/L	3.4	20	12-FEB-20
WG3274132-2 LCS								
Ammonia, Total (as N)			104.0		%		85-115	12-FEB-20
WG3274132-6 LCS								
Ammonia, Total (as N)			102.3		%		85-115	12-FEB-20
WG3274132-1 MB								
Ammonia, Total (as N)			<0.002		mg/L		0.02	12-FEB-20
WG3274132-5 MB								
Ammonia, Total (as N)			<0.002		mg/L		0.02	12-FEB-20
WG3274132-7 MS		L2415374-16						
Ammonia, Total (as N)			85.1		%		75-125	12-FEB-20
NO2-MISA-IC-TB		Effluent						

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 23 of 30

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO2-MISA-IC-TB		Effluent						
Batch	R4994946							
WG3273425-3	DUP	L2415374-2						
Nitrite (as N)		0.0040	0.0020	RPD-NA	mg/L	N/A	20	11-FEB-20
WG3273425-8	DUP	L2415374-13						
Nitrite (as N)		0.0010	0.0010	RPD-NA	mg/L	N/A	20	11-FEB-20
WG3273425-2	LCS							
Nitrite (as N)			99.6		%		90-110	11-FEB-20
WG3273425-6	LCS							
Nitrite (as N)			97.3		%		90-110	11-FEB-20
WG3273425-1	MB							
Nitrite (as N)			0.0005		mg/L		0.01	11-FEB-20
WG3273425-5	MB							
Nitrite (as N)			0.0050		mg/L		0.01	11-FEB-20
WG3273425-4	MS	L2415362-8						
Nitrite (as N)			104.1		%		75-125	11-FEB-20
WG3273425-7	MS	L2415374-14						
Nitrite (as N)			109.7		%		75-125	11-FEB-20
NO3-MISA-IC-TB		Effluent						
Batch	R4994946							
WG3273425-3	DUP	L2415374-2						
Nitrate (as N)		0.014	0.015	RPD-NA	mg/L	N/A	20	11-FEB-20
WG3273425-8	DUP	L2415374-13						
Nitrate (as N)		0.062	0.063		mg/L	1.2	20	11-FEB-20
WG3273425-2	LCS							
Nitrate (as N)			101.2		%		90-110	11-FEB-20
WG3273425-6	LCS							
Nitrate (as N)			97.7		%		90-110	11-FEB-20
WG3273425-1	MB							
Nitrate (as N)			0.004		mg/L		0.02	11-FEB-20
WG3273425-5	MB							
Nitrate (as N)			0.008		mg/L		0.02	11-FEB-20
WG3273425-4	MS	L2415362-8						
Nitrate (as N)			107.9		%		75-125	11-FEB-20
WG3273425-7	MS	L2415374-14						
Nitrate (as N)			108.4		%		75-125	11-FEB-20

OGG-TOT-WT **Effluent**

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 24 of 30

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OGG-TOT-WT		Effluent						
Batch	R4995905							
WG3274797-2	LCS							
Oil and Grease, Total			91.4		%		50-150	13-FEB-20
WG3274797-1	MB							
Oil and Grease, Total			0.8		mg/L		1	13-FEB-20
Batch	R4996046							
WG3274921-2	LCS							
Oil and Grease, Total			80.8		%		50-150	13-FEB-20
WG3274921-1	MB							
Oil and Grease, Total			<0.2		mg/L		1	13-FEB-20
PH-MISA-TB		Effluent						
Batch	R4995781							
WG3274418-6	DUP	L2415374-6						
pH		7.43	7.44	J	pH	0.01	0.2	12-FEB-20
WG3274418-5	LCS							
pH			6.97		pH		6.9-7.1	12-FEB-20
SO4-MISA-IC-TB		Effluent						
Batch	R4994946							
WG3273425-3	DUP	L2415374-2						
Sulfate (SO4)		0.52	0.42		mg/L	20	20	11-FEB-20
WG3273425-8	DUP	L2415374-13						
Sulfate (SO4)		3.84	3.80		mg/L	0.9	20	11-FEB-20
WG3273425-2	LCS							
Sulfate (SO4)			101.8		%		90-110	11-FEB-20
WG3273425-6	LCS							
Sulfate (SO4)			97.3		%		90-110	11-FEB-20
WG3273425-1	MB							
Sulfate (SO4)			<0.02		mg/L		0.3	11-FEB-20
WG3273425-5	MB							
Sulfate (SO4)			<0.02		mg/L		0.3	11-FEB-20
WG3273425-7	MS	L2415374-14						
Sulfate (SO4)			110.0		%		75-125	11-FEB-20
TDS-MISA-TB		Effluent						
Batch	R4995442							
WG3273523-3	DUP	L2415374-13						
Total Dissolved Solids		208	208		mg/L	0.6	20	11-FEB-20
WG3273523-2	LCS							
Total Dissolved Solids			96.2		%		85-115	11-FEB-20

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Page 25 of 30

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TDS-MISA-TB								
	Effluent							
Batch	R4995442							
WG3273523-1	MB							
Total Dissolved Solids			<2		mg/L		10	11-FEB-20
TSS-MISA-TB								
	Effluent							
Batch	R4995114							
WG3273516-3	DUP	L2415516-2						
Total Suspended Solids		53.0	53.0		mg/L	0.0	20	11-FEB-20
WG3273516-2	LCS							
Total Suspended Solids			95.9		%		85-115	11-FEB-20
WG3273516-1	MB							
Total Suspended Solids			<0.5		mg/L		2	11-FEB-20

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Amanda Jacobs

Page 26 of 30

Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
J	Duplicate results and limits are expressed in terms of absolute difference.
MB-LOR	Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Colour, True							
	1	06-FEB-20 12:00	11-FEB-20 15:55	48	124	hours	EHTR
	2	05-FEB-20 16:00	11-FEB-20 15:55	48	144	hours	EHTR
	3	04-FEB-20 09:55	11-FEB-20 15:55	48	174	hours	EHTR
	4	05-FEB-20 12:00	11-FEB-20 15:55	48	148	hours	EHTR
	5	05-FEB-20 13:30	11-FEB-20 15:55	48	146	hours	EHTR
	6	04-FEB-20 11:50	11-FEB-20 15:55	48	172	hours	EHTR
	7	04-FEB-20 12:20	11-FEB-20 15:55	48	172	hours	EHTR
	8	05-FEB-20 14:00	11-FEB-20 15:55	48	146	hours	EHTR
	9	05-FEB-20 13:55	11-FEB-20 15:55	48	146	hours	EHTR
	10	05-FEB-20 14:45	11-FEB-20 15:55	48	145	hours	EHTR
	11	04-FEB-20 10:45	11-FEB-20 15:55	48	173	hours	EHTR
	12	04-FEB-20 11:00	11-FEB-20 15:55	48	173	hours	EHTR
	13	04-FEB-20 12:30	11-FEB-20 15:55	48	171	hours	EHTR
	14	04-FEB-20 13:00	11-FEB-20 15:55	48	171	hours	EHTR
	15	05-FEB-20 14:10	11-FEB-20 15:55	48	146	hours	EHTR
	16	05-FEB-20 15:00	11-FEB-20 15:55	48	145	hours	EHTR
	17	05-FEB-20 15:35	11-FEB-20 15:55	48	144	hours	EHTR
	18	06-FEB-20 12:00	11-FEB-20 15:55	48	124	hours	EHTR
Conductivity (EC)							
	1	06-FEB-20 12:00	13-FEB-20 13:55	4	7	days	EHTR
	2	05-FEB-20 16:00	12-FEB-20 15:03	4	7	days	EHTR
	3	04-FEB-20 09:55	12-FEB-20 15:03	4	8	days	EHTR
	4	05-FEB-20 12:00	12-FEB-20 15:03	4	7	days	EHTR
	5	05-FEB-20 13:30	12-FEB-20 15:03	4	7	days	EHTR
	6	04-FEB-20 11:50	12-FEB-20 15:03	4	8	days	EHTR
	7	04-FEB-20 12:20	12-FEB-20 15:03	4	8	days	EHTR
	8	05-FEB-20 14:00	12-FEB-20 15:03	4	7	days	EHTR
	9	05-FEB-20 13:55	12-FEB-20 15:03	4	7	days	EHTR
	10	05-FEB-20 14:45	12-FEB-20 15:03	4	7	days	EHTR
	11	04-FEB-20 10:45	12-FEB-20 15:03	4	8	days	EHTR
	12	04-FEB-20 11:00	12-FEB-20 15:03	4	8	days	EHTR
	13	04-FEB-20 12:30	12-FEB-20 15:03	4	8	days	EHTR
	14	04-FEB-20 13:00	12-FEB-20 15:03	4	8	days	EHTR
	15	05-FEB-20 14:10	12-FEB-20 15:03	4	7	days	EHTR
	16	05-FEB-20 15:00	12-FEB-20 15:03	4	7	days	EHTR
	17	05-FEB-20 15:35	12-FEB-20 15:03	4	7	days	EHTR
	18	06-FEB-20 12:00	13-FEB-20 13:55	4	7	days	EHTR
Turbidity							
	1	06-FEB-20 12:00	12-FEB-20 15:50	48	148	hours	EHTR
	2	05-FEB-20 16:00	12-FEB-20 15:50	48	168	hours	EHTR
	3	04-FEB-20 09:55	12-FEB-20 15:50	48	198	hours	EHTR
	4	05-FEB-20 12:00	12-FEB-20 15:50	48	172	hours	EHTR
	5	05-FEB-20 13:30	12-FEB-20 15:50	48	170	hours	EHTR
	6	04-FEB-20 11:50	12-FEB-20 15:50	48	196	hours	EHTR
	7	04-FEB-20 12:20	12-FEB-20 15:50	48	196	hours	EHTR
	8	05-FEB-20 14:00	12-FEB-20 15:50	48	170	hours	EHTR
	9	05-FEB-20 13:55	12-FEB-20 15:50	48	170	hours	EHTR
	10	05-FEB-20 14:45	12-FEB-20 15:50	48	169	hours	EHTR
	11	04-FEB-20 10:45	12-FEB-20 15:50	48	197	hours	EHTR
	12	04-FEB-20 11:00	12-FEB-20 15:50	48	197	hours	EHTR
	13	04-FEB-20 12:30	12-FEB-20 15:50	48	195	hours	EHTR
	14	04-FEB-20 13:00	12-FEB-20 15:50	48	195	hours	EHTR

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Page 28 of 30

Contact: Amanda Jacobs

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Turbidity							
	15	05-FEB-20 14:10	12-FEB-20 15:50	48	170	hours	EHTR
	16	05-FEB-20 15:00	12-FEB-20 15:50	48	169	hours	EHTR
	17	05-FEB-20 15:35	12-FEB-20 15:50	48	168	hours	EHTR
	18	06-FEB-20 12:00	12-FEB-20 15:50	48	148	hours	EHTR
pH							
	1	06-FEB-20 12:00	12-FEB-20 15:03	4	6	days	EHTR
	2	05-FEB-20 16:00	12-FEB-20 15:03	4	7	days	EHTR
	3	04-FEB-20 09:55	12-FEB-20 15:03	4	8	days	EHTR
	4	05-FEB-20 12:00	12-FEB-20 15:03	4	7	days	EHTR
	5	05-FEB-20 13:30	12-FEB-20 15:03	4	7	days	EHTR
	6	04-FEB-20 11:50	12-FEB-20 15:03	4	8	days	EHTR
	7	04-FEB-20 12:20	12-FEB-20 15:03	4	8	days	EHTR
	8	05-FEB-20 14:00	12-FEB-20 15:03	4	7	days	EHTR
	9	05-FEB-20 13:55	12-FEB-20 15:03	4	7	days	EHTR
	10	05-FEB-20 14:45	12-FEB-20 15:03	4	7	days	EHTR
	11	04-FEB-20 10:45	12-FEB-20 15:03	4	8	days	EHTR
	12	04-FEB-20 11:00	12-FEB-20 15:03	4	8	days	EHTR
	13	04-FEB-20 12:30	12-FEB-20 15:03	4	8	days	EHTR
	14	04-FEB-20 13:00	12-FEB-20 15:03	4	8	days	EHTR
	15	05-FEB-20 14:10	12-FEB-20 15:03	4	7	days	EHTR
	16	05-FEB-20 15:00	12-FEB-20 15:03	4	7	days	EHTR
	17	05-FEB-20 15:35	12-FEB-20 15:03	4	7	days	EHTR
	18	06-FEB-20 12:00	12-FEB-20 15:03	4	6	days	EHTR
Leachable Anions & Nutrients							
Nitrate in Water by IC							
	2	05-FEB-20 16:00	11-FEB-20 16:10	5	6	days	EHTL
	3	04-FEB-20 09:55	11-FEB-20 16:10	5	7	days	EHTR
	4	05-FEB-20 12:00	11-FEB-20 16:10	5	6	days	EHTR
	5	05-FEB-20 13:30	11-FEB-20 16:10	5	6	days	EHTR
	6	04-FEB-20 11:50	11-FEB-20 16:10	5	7	days	EHTR
	7	04-FEB-20 12:20	11-FEB-20 16:10	5	7	days	EHTR
	8	05-FEB-20 14:00	11-FEB-20 16:10	5	6	days	EHTR
	9	05-FEB-20 13:55	11-FEB-20 16:10	5	6	days	EHTR
	10	05-FEB-20 14:45	11-FEB-20 16:10	5	6	days	EHTR
	11	04-FEB-20 10:45	11-FEB-20 16:10	5	7	days	EHTR
	12	04-FEB-20 11:00	11-FEB-20 16:10	5	7	days	EHTR
	13	04-FEB-20 12:30	11-FEB-20 16:10	5	7	days	EHTR
	14	04-FEB-20 13:00	11-FEB-20 16:10	5	7	days	EHTR
	15	05-FEB-20 14:10	11-FEB-20 16:10	5	6	days	EHTR
	16	05-FEB-20 15:00	11-FEB-20 16:10	5	6	days	EHTR
	17	05-FEB-20 15:35	11-FEB-20 16:10	5	6	days	EHTL
Nitrite in Water by IC							
	2	05-FEB-20 16:00	11-FEB-20 16:10	5	6	days	EHTL
	3	04-FEB-20 09:55	11-FEB-20 16:10	5	7	days	EHTR
	4	05-FEB-20 12:00	11-FEB-20 16:10	5	6	days	EHTR
	5	05-FEB-20 13:30	11-FEB-20 16:10	5	6	days	EHTR
	6	04-FEB-20 11:50	11-FEB-20 16:10	5	7	days	EHTR
	7	04-FEB-20 12:20	11-FEB-20 16:10	5	7	days	EHTR
	8	05-FEB-20 14:00	11-FEB-20 16:10	5	6	days	EHTR
	9	05-FEB-20 13:55	11-FEB-20 16:10	5	6	days	EHTR
	10	05-FEB-20 14:45	11-FEB-20 16:10	5	6	days	EHTR

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Page 29 of 30

Contact: Amanda Jacobs

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Leachable Anions & Nutrients							
Nitrite in Water by IC							
	11	04-FEB-20 10:45	11-FEB-20 16:10	5	7	days	EHTR
	12	04-FEB-20 11:00	11-FEB-20 16:10	5	7	days	EHTR
	13	04-FEB-20 12:30	11-FEB-20 16:10	5	7	days	EHTR
	14	04-FEB-20 13:00	11-FEB-20 16:10	5	7	days	EHTR
	15	05-FEB-20 14:10	11-FEB-20 16:10	5	6	days	EHTR
	16	05-FEB-20 15:00	11-FEB-20 16:10	5	6	days	EHTR
	17	05-FEB-20 15:35	11-FEB-20 16:10	5	6	days	EHTL
Anions and Nutrients							
Filtr./Pres. for carbons and nutrients							
	2	05-FEB-20 16:00	11-FEB-20 15:00	3	6	days	EHTR
	3	04-FEB-20 09:55	11-FEB-20 15:00	3	7	days	EHTR
	4	05-FEB-20 12:00	11-FEB-20 15:00	3	6	days	EHTR
	5	05-FEB-20 13:30	11-FEB-20 15:00	3	6	days	EHTR
	6	04-FEB-20 11:50	11-FEB-20 15:00	3	7	days	EHTR
	7	04-FEB-20 12:20	11-FEB-20 15:00	3	7	days	EHTR
	8	05-FEB-20 14:00	11-FEB-20 15:00	3	6	days	EHTR
	9	05-FEB-20 13:55	11-FEB-20 15:00	3	6	days	EHTR
	10	05-FEB-20 14:45	11-FEB-20 15:00	3	6	days	EHTR
	11	04-FEB-20 10:45	11-FEB-20 15:00	3	7	days	EHTR
	12	04-FEB-20 11:00	11-FEB-20 15:00	3	7	days	EHTR
	13	04-FEB-20 12:30	11-FEB-20 15:00	3	7	days	EHTR
	14	04-FEB-20 13:00	11-FEB-20 15:00	3	7	days	EHTR
	15	05-FEB-20 14:10	11-FEB-20 15:00	3	6	days	EHTR
	16	05-FEB-20 15:00	11-FEB-20 15:00	3	6	days	EHTR
	17	05-FEB-20 15:35	11-FEB-20 15:00	3	6	days	EHTR
Cyanides							
Free Cyanide by Continuous Flow Analyzer							
	3	04-FEB-20 09:55	12-FEB-20 00:00	7	8	days	EHTL
	6	04-FEB-20 11:50	12-FEB-20 00:00	7	8	days	EHTL
	11	04-FEB-20 10:45	12-FEB-20 00:00	7	8	days	EHTL
	12	04-FEB-20 11:00	12-FEB-20 00:00	7	8	days	EHTL
Aggregate Organics							
Biochemical Oxygen Demand (BOD)							
	1	06-FEB-20 12:00	11-FEB-20 14:25	4	5	days	EHTR
	2	05-FEB-20 16:00	11-FEB-20 14:25	4	6	days	EHTR
	3	04-FEB-20 09:55	11-FEB-20 14:25	4	7	days	EHTR
	4	05-FEB-20 12:00	11-FEB-20 14:25	4	6	days	EHTR
	5	05-FEB-20 13:30	12-FEB-20 14:12	4	7	days	EHTR
	6	04-FEB-20 11:50	12-FEB-20 14:12	4	8	days	EHTR
	7	04-FEB-20 12:20	12-FEB-20 14:12	4	8	days	EHTR
	8	05-FEB-20 14:00	12-FEB-20 14:12	4	7	days	EHTR
	9	05-FEB-20 13:55	12-FEB-20 14:12	4	7	days	EHTR
	10	05-FEB-20 14:45	12-FEB-20 14:12	4	7	days	EHTR
	11	04-FEB-20 10:45	12-FEB-20 14:12	4	8	days	EHTR
	12	04-FEB-20 11:00	13-FEB-20 14:00	4	9	days	EHTR
	13	04-FEB-20 12:30	13-FEB-20 14:00	4	9	days	EHTR
	14	04-FEB-20 13:00	13-FEB-20 14:00	4	9	days	EHTR
	15	05-FEB-20 14:10	13-FEB-20 14:00	4	8	days	EHTR
	16	05-FEB-20 15:00	13-FEB-20 14:00	4	8	days	EHTR
	17	05-FEB-20 15:35	13-FEB-20 14:00	4	8	days	EHTR
	18	06-FEB-20 12:00	13-FEB-20 14:00	4	7	days	EHTR

Quality Control Report

Workorder: L2415374

Report Date: 28-FEB-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Page 30 of 30

Contact: Amanda Jacobs

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2415374 were received on 10-FEB-20 15:57.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Your P.O. #: L2415374
Your C.O.C. #: N/A

Attention: Christine Paradis

ALS Laboratory Group
Environmental Div.
1081 Barton St.
Thunder Bay, ON
Canada P7B 5N3

Report Date: 2020/02/27
Report #: R6090416
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C039050

Received: 2020/02/12, 14:30

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Radium Isotopes by Alpha Spectrometry (1)	1	N/A	2020/02/26	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by BV Labs, unless otherwise agreed in writing. BV Labs is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by BV Labs, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Radium-226 results have not been corrected for blanks.



Your P.O. #: L2415374
Your C.O.C. #: N/A

Attention: Christine Paradis

ALS Laboratory Group
Environmental Div.
1081 Barton St.
Thunder Bay, ON
Canada P7B 5N3

Report Date: 2020/02/27
Report #: R6090416
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C039050
Received: 2020/02/12, 14:30

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Mayank Nigam, Project Manager
Email: Mayank.Nigam@bvlab.com
Phone# (905) 826-3080

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



**BUREAU
VERITAS**

BV Labs Job #: C039050
Report Date: 2020/02/27

ALS Laboratory Group
Your P.O. #: L2415374

RESULTS OF ANALYSES OF WATER

BV Labs ID		LZR390		
Sampling Date		2020/02/05		
COC Number		N/A		
	UNITS	L2415374-8 SW20	RDL	QC Batch
Radium-226	Bq/L	<0.010	0.010	6594730
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C039050
Report Date: 2020/02/27

ALS Laboratory Group
Your P.O. #: L2415374

TEST SUMMARY

BV Labs ID: LZR390
Sample ID: L2415374-8 SW20
Matrix: Water

Collected: 2020/02/05
Shipped:
Received: 2020/02/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6594730	N/A	2020/02/26	Priya Sharma



BUREAU
VERITAS

BV Labs Job #: C039050
Report Date: 2020/02/27

ALS Laboratory Group
Your P.O. #: L2415374

GENERAL COMMENTS

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C039050
Report Date: 2020/02/27

ALS Laboratory Group
Your P.O. #: L2415374

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
6594730	SHC	Spiked Blank	Radium-226	2020/02/26		94	%	85 - 115
6594730	SHC	Method Blank	Radium-226	2020/02/26	<0.010		Bq/L	
6594730	SHC	RPD	Radium-226	2020/02/26	NC		%	N/A

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference $\leq 2 \times$ RDL).



BUREAU
VERITAS

BV Labs Job #: C039050
Report Date: 2020/02/27

ALS Laboratory Group
Your P.O. #: L2415374

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

<original signed by>

—
Robert Allen, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

L2415374



L2415374-COFC

101



Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

Affix ALS barcode label here (lab use only)

COC Number: 14 -

Page ___ of ___



Report To				Report Format / Distribution				Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)																									
Company: New Gold Inc. Rainy River Project		Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel <input checked="" type="checkbox"/> EDD (Digital)		R <input checked="" type="checkbox"/> Regular (Standard TAT if received by 3pm - business days)		P <input type="checkbox"/> Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT						E <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT																					
Contact: Amanda Jacobs / Carolyn Winiak		Quality Control (QC) Report with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		E <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT		E2 <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT						Date and Time Required for all E&P TATs:																					
Address: 24 Marr Rd.		<input type="checkbox"/> Criteria on Report - provide details below if box checked		Select Distribution: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail <input type="checkbox"/> Fax		For tests that can not be performed according to the service level selected, you will be contacted.						Analysis Request																					
City/Province: Barwick ON		Email 1 or Fax: rainyriver.labresults@newgold.com		Invoice To Same as Report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below																											
Postal Code: POW 1A0		Email 2 yag.lnviron@newgold.com		Copy of Invoice with Report? <input type="checkbox"/> Yes <input type="checkbox"/> No																													
Phone: 807-482-0900 x8076 or x8046		Select Invoice Distribution: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail <input type="checkbox"/> Fax		Company:																													
		Email 1 or Fax: rainyriver.labresults@newgold.com		Contact:																													
		Email 2:		Project Information																													
		Oil and Gas Required Fields (client use)		ALS Quote #:																													
		Approver ID: Cost Center:		Job #: Surface Water																													
		GL Account: Routing Code:		PO / AFE: 4500038941																													
		Activity Code:		LSD:																													
		Location:		ALS Lab Work Order # (lab use only)																													
		ALS Contact: Kyle Watkins		Sampler: NB/PR/MW/KL																													
		Field DO (mg/L)		Date (dd-MMM-yy)		Time (hh:mm)		Sample Type		pH, TSS, NH3, Unionized NH3, Hardness		NO2, NO3, SO4, Chloride, Conductivity, Alkalinity		Acidity, BOD, COD, Colour, TOC, DOC		Fluoride, OGC, PO4, TDS, Turbidity		Total and Dissolved Metals		Total and Dissolved Mercury		Free Cyanide, Total Cyanide, WAD Cyanide		Reagents		Number of Containers							
Sample Ref (upload EDD)		Sample Identification and/or Coordinates (Description will appear on the report)		Temp		Field pH		Field DO (mg/L)		Date (dd-MMM-yy)		Time (hh:mm)		Sample Type		pH, TSS, NH3, Unionized NH3, Hardness		NO2, NO3, SO4, Chloride, Conductivity, Alkalinity		Acidity, BOD, COD, Colour, TOC, DOC		Fluoride, OGC, PO4, TDS, Turbidity		Total and Dissolved Metals		Total and Dissolved Mercury		Free Cyanide, Total Cyanide, WAD Cyanide		Reagents		Number of Containers	
124663		Field Blank - Surface Water								06-Feb-20		12:00		Water		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X			
124664		SW02		0		7.11		5.97		05-Feb-20		04:00		Water		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X			
124665		SW03		0.51		6.8		11.1		04-Feb-20		09:55		Water		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X	
124666		SW06		0		6.76		3.58		05-Feb-20		12:00		Water		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X		X X X X X X X X X X X X	

Y

Client: New Gold Rainy River



L2415374-COFC

Sample Layout Verification:

Verified By <u>Y</u>	Date <u>2020 Feb 10</u>	Time <u>NA.</u>
-------------------------	----------------------------	--------------------

Sample integrity issues
Enter information on back page

Labels Verification:

Verified By <u>MM</u>


Do any samples require prep?

NO P **F/P**

Sample #:																			
1L	Plastic																		
500mL	Plastic																		
250mL	Plastic																		
145mL	Plastic																		
60mL	Plastic																		
Micro																			
Toxicity Pail																			
1L	Glass																		
500mL	Glass																		
250mL	Glass																		
120mL	Glass																		
60mL	Glass																		
40mL	Vial (Glass)																		
40mL	Methanol Vials																		
Soil Jar (120, 250 or 500mL)																			
Other:																			
Other:																			
Total Number of Bottles																			

Trip/Travel/Field Blank Information			
Solids Batch#: <u>403</u>	Metals Batch#:	T: <u>401</u>	D: <u>401</u>
Routine Batch#: <u>403</u>	Mercury Batch#:	T: <u>402</u>	D: <u>402</u>
BOD Batch#: <u>404</u>	Cyanide Batch#: <u>104855</u>	T:	D:
Nutrients Batch#: <u>405</u>	OGG Batch#:		
DOC/Carbon Batch#:	Phenols Batch#:		
VOC Batch#:			
Other:			

COOLER TRACKING	
EPP	<u>Coleman</u>
Small	Micro (5QT) _____
Med	Sm(9QT) _____
Lrg	Med(16QT) _____
Micro Box	Lrg(28QT) _____
	Lrg(48QT) _____



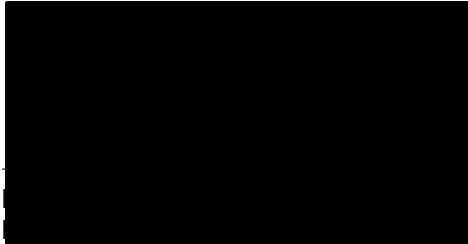
New Gold Inc. Rainy River Project
ATTN: Amanda Jacobs
24 Marr Rd
Barwick ON POW 1A0

Date Received: 13-MAR-20
Report Date: 08-APR-20 09:33 (MT)
Version: FINAL

Client Phone: 807-482-0931

Certificate of Analysis

Lab Work Order #: L2427833
Project P.O. #: 4500038941
Job Reference: SURFACE WATER
C of C Numbers:
Legal Site Desc:



[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3, Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598



ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-1 SW25							
Sampled By: Client on 10-MAR-20 @ 10:00							
Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	12.58		0	mg/L		16-MAR-20	R5027595
pH, Client Supplied	7.32		0.10	pH		16-MAR-20	R5027595
Temperature, Client Supplied	0		0	Degree C		16-MAR-20	R5027595
Physical Tests							
Color, True	87.0		2.0	CU		14-MAR-20	R5026053
Conductivity (EC)	371		1.0	uS/cm		13-MAR-20	R5025955
Hardness (as CaCO3)	193		0.51	mg/L		18-MAR-20	
pH	7.55		0.10	pH		13-MAR-20	R5025955
Total Suspended Solids	14.5		2.0	mg/L		14-MAR-20	R5026749
Total Dissolved Solids	258		20	mg/L		16-MAR-20	R5028404
Turbidity	7.74		0.10	NTU		14-MAR-20	R5025936
Anions and Nutrients							
Acidity (as CaCO3)	5.0		2.0	mg/L		15-MAR-20	R5026747
Alkalinity, Total (as CaCO3)	166		2.0	mg/L		13-MAR-20	R5025955
Ammonia, Total (as N)	0.114	<T	0.020	mg/L		16-MAR-20	R5028160
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		17-MAR-20	
Chloride (Cl)	22.0		0.10	mg/L		16-MAR-20	R5028082
Fluoride (F)	0.026		0.020	mg/L		16-MAR-20	R5028082
Nitrate (as N)	0.203	<T	0.020	mg/L		16-MAR-20	R5028082
Nitrite (as N)	0.0090	<DL	0.010	mg/L		16-MAR-20	R5028082
Total Kjeldahl Nitrogen	0.90		0.18	mg/L	18-MAR-20	18-MAR-20	R5029667
Orthophosphate-Dissolved (as P)	0.0084		0.0030	mg/L		16-MAR-20	R5027388
Sulfate (SO4)	9.12		0.30	mg/L		16-MAR-20	R5028082
Cyanides							
Cyanide, Weak Acid Diss	0.0008	<DL	0.0020	mg/L		18-MAR-20	R5029808
Cyanide, Total	0.0018	<DL	0.0020	mg/L		17-MAR-20	R5029808
Cyanide, Free	0.0005	<DL	0.0020	mg/L		17-MAR-20	R5029808
Organic / Inorganic Carbon							
Dissolved Organic Carbon	25.9		0.50	mg/L		17-MAR-20	R5029248
Total Organic Carbon	28.4		0.50	mg/L		17-MAR-20	R5029230
Total Metals							
Aluminum (Al)-Total	0.332		0.0050	mg/L		17-MAR-20	R5028753
Antimony (Sb)-Total	0.000080	<DL	0.00060	mg/L		17-MAR-20	R5028753
Arsenic (As)-Total	0.00088	<DL	0.0010	mg/L		17-MAR-20	R5028753
Barium (Ba)-Total	0.0261		0.010	mg/L		17-MAR-20	R5028753
Beryllium (Be)-Total	0.0000159	<DL	0.0010	mg/L		17-MAR-20	R5028753
Bismuth (Bi)-Total	0.00001	<DL	0.0010	mg/L		17-MAR-20	R5028753
Boron (B)-Total	0.0110	<DL	0.050	mg/L		17-MAR-20	R5028753
Cadmium (Cd)-Total	0.000016	<DL	0.000017	mg/L		17-MAR-20	R5028753
Calcium (Ca)-Total	50.1		0.20	mg/L		17-MAR-20	R5028753
Cesium (Cs)-Total	0.0000675		0.000010	mg/L		17-MAR-20	R5028753
Chromium (Cr)-Total	0.00066	<DL	0.0010	mg/L		17-MAR-20	R5028753

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-1 SW25							
Sampled By: Client on 10-MAR-20 @ 10:00							
Matrix: Water							
Total Metals							
Cobalt (Co)-Total	0.000905	<T	0.00050	mg/L		17-MAR-20	R5028753
Copper (Cu)-Total	0.00252	<T	0.0010	mg/L		17-MAR-20	R5028753
Iron (Fe)-Total	0.914		0.020	mg/L		17-MAR-20	R5028753
Lead (Pb)-Total	0.00032	<T	0.000050	mg/L		17-MAR-20	R5028753
Lithium (Li)-Total	0.0052	<DL	0.050	mg/L		17-MAR-20	R5028753
Magnesium (Mg)-Total	19.2		0.020	mg/L		17-MAR-20	R5028753
Manganese (Mn)-Total	0.631		0.0010	mg/L		17-MAR-20	R5028753
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031787
Molybdenum (Mo)-Total	0.000780	<DL	0.0010	mg/L		17-MAR-20	R5028753
Nickel (Ni)-Total	0.00202	<T	0.0020	mg/L		17-MAR-20	R5028753
Phosphorus (P)-Total	0.025	<DL	0.050	mg/L		17-MAR-20	R5028753
Potassium (K)-Total	2.14		0.50	mg/L		17-MAR-20	R5028753
Rubidium (Rb)-Total	0.00228		0.00020	mg/L		17-MAR-20	R5028753
Selenium (Se)-Total	0.000220	<T	0.000050	mg/L		17-MAR-20	R5028753
Silicon (Si)-Total	6.49		0.10	mg/L		17-MAR-20	R5028753
Silver (Ag)-Total	0.000017	<DL	0.00010	mg/L		17-MAR-20	R5028753
Sodium (Na)-Total	7.27		0.10	mg/L		17-MAR-20	R5028753
Strontium (Sr)-Total	0.100		0.0010	mg/L		17-MAR-20	R5028753
Sulfur (S)-Total	2.6		0.50	mg/L		17-MAR-20	R5028753
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		17-MAR-20	R5028753
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		17-MAR-20	R5028753
Thorium (Th)-Total	0.00005	<DL	0.00010	mg/L		17-MAR-20	R5028753
Tin (Sn)-Total	0.00005	<DL	0.0010	mg/L		17-MAR-20	R5028753
Titanium (Ti)-Total	0.0100		0.0020	mg/L		17-MAR-20	R5028753
Tungsten (W)-Total	0.00003	<DL	0.010	mg/L		17-MAR-20	R5028753
Uranium (U)-Total	0.00199	<DL	0.0050	mg/L		17-MAR-20	R5028753
Vanadium (V)-Total	0.00105	<T	0.0010	mg/L		17-MAR-20	R5028753
Zinc (Zn)-Total	0.0230		0.0030	mg/L		17-MAR-20	R5028753
Zirconium (Zr)-Total	0.000564	<DL	0.0010	mg/L		17-MAR-20	R5028753
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					17-MAR-20	R5028120
Aluminum (Al)-Dissolved	0.0156	<T	0.0050	mg/L		17-MAR-20	R5028792
Antimony (Sb)-Dissolved	0.000080	<DL	0.00060	mg/L		17-MAR-20	R5028792
Arsenic (As)-Dissolved	0.000808	<DL	0.0010	mg/L		17-MAR-20	R5028792
Barium (Ba)-Dissolved	0.0239		0.010	mg/L		17-MAR-20	R5028792
Beryllium (Be)-Dissolved	0.000006	<DL	0.0010	mg/L		17-MAR-20	R5028792
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Boron (B)-Dissolved	0.0090	<DL	0.050	mg/L		17-MAR-20	R5028792
Cadmium (Cd)-Dissolved	0.0000040	<DL	0.000017	mg/L		17-MAR-20	R5028792
Calcium (Ca)-Dissolved	46.7		0.20	mg/L		17-MAR-20	R5028792
Cesium (Cs)-Dissolved	0.0000075	<DL	0.000010	mg/L		17-MAR-20	R5028792

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-1 SW25 Sampled By: Client on 10-MAR-20 @ 10:00 Matrix: Water							
Dissolved Metals							
Chromium (Cr)-Dissolved	0.00019	<DL	0.0010	mg/L		17-MAR-20	R5028792
Cobalt (Co)-Dissolved	0.000672	<T	0.00050	mg/L		17-MAR-20	R5028792
Copper (Cu)-Dissolved	0.00174	<T	0.0010	mg/L		17-MAR-20	R5028792
Iron (Fe)-Dissolved	0.410		0.020	mg/L		17-MAR-20	R5028792
Lead (Pb)-Dissolved	0.00007	<T	0.000050	mg/L		17-MAR-20	R5028792
Lithium (Li)-Dissolved	0.0046	<DL	0.050	mg/L		17-MAR-20	R5028792
Magnesium (Mg)-Dissolved	18.6		0.020	mg/L		17-MAR-20	R5028792
Manganese (Mn)-Dissolved	0.567		0.0010	mg/L		17-MAR-20	R5028792
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031786
Molybdenum (Mo)-Dissolved	0.000764	<DL	0.0010	mg/L		17-MAR-20	R5028792
Nickel (Ni)-Dissolved	0.00160	<DL	0.0020	mg/L		17-MAR-20	R5028792
Phosphorus (P)-Dissolved	0.005	<DL	0.050	mg/L		17-MAR-20	R5028792
Potassium (K)-Dissolved	2.05		0.50	mg/L		17-MAR-20	R5028792
Rubidium (Rb)-Dissolved	0.00178		0.00020	mg/L		17-MAR-20	R5028792
Selenium (Se)-Dissolved	0.000170	<T	0.000050	mg/L		17-MAR-20	R5028792
Silicon (Si)-Dissolved	5.75		0.050	mg/L		17-MAR-20	R5028792
Silver (Ag)-Dissolved	0.0000015	<DL	0.00010	mg/L		17-MAR-20	R5028792
Sodium (Na)-Dissolved	6.98		0.10	mg/L		17-MAR-20	R5028792
Strontium (Sr)-Dissolved	0.0945		0.0010	mg/L		17-MAR-20	R5028792
Sulfur (S)-Dissolved	2.2		0.50	mg/L		17-MAR-20	R5028792
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028792
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-MAR-20	R5028792
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		17-MAR-20	R5028792
Tin (Sn)-Dissolved	0.000040	<DL	0.0010	mg/L		17-MAR-20	R5028792
Titanium (Ti)-Dissolved	0.00118	<DL	0.0020	mg/L		17-MAR-20	R5028792
Tungsten (W)-Dissolved	0.000008	<DL	0.010	mg/L		17-MAR-20	R5028792
Uranium (U)-Dissolved	0.00191	<DL	0.0050	mg/L		17-MAR-20	R5028792
Vanadium (V)-Dissolved	0.00052	<DL	0.0010	mg/L		17-MAR-20	R5028792
Zinc (Zn)-Dissolved	0.0178		0.0030	mg/L		17-MAR-20	R5028792
Zirconium (Zr)-Dissolved	0.000326	<DL	0.0010	mg/L		17-MAR-20	R5028792
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-MAR-20	R5031826
Chemical Oxygen Demand	65		20	mg/L		16-MAR-20	R5027631
Oil and Grease, Total	<0.2	<W	1.0	mg/L	17-MAR-20	17-MAR-20	R5028562
L2427833-2 SW26 Sampled By: Client on 10-MAR-20 @ 10:25 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	12.75		0	mg/L		16-MAR-20	R5027595
pH, Client Supplied	7.76		0.10	pH		16-MAR-20	R5027595
Temperature, Client Supplied	0		0	Degree C		16-MAR-20	R5027595
Physical Tests							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-2 SW26							
Sampled By: Client on 10-MAR-20 @ 10:25							
Matrix: Water							
Physical Tests							
Color, True	76.2		2.0	CU		14-MAR-20	R5026053
Conductivity (EC)	375		1.0	uS/cm		13-MAR-20	R5025955
Hardness (as CaCO3)	195		0.51	mg/L		18-MAR-20	
pH	7.58		0.10	pH		13-MAR-20	R5025955
Total Suspended Solids	8.0		2.0	mg/L		14-MAR-20	R5026749
Total Dissolved Solids	260		20	mg/L		16-MAR-20	R5028404
Turbidity	7.86		0.10	NTU		14-MAR-20	R5025936
Anions and Nutrients							
Acidity (as CaCO3)	4.8		2.0	mg/L		15-MAR-20	R5026747
Alkalinity, Total (as CaCO3)	164		2.0	mg/L		13-MAR-20	R5025955
Ammonia, Total (as N)	0.118	<T	0.020	mg/L		16-MAR-20	R5028160
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		17-MAR-20	
Chloride (Cl)	23.3		0.10	mg/L		16-MAR-20	R5028082
Fluoride (F)	0.026		0.020	mg/L		16-MAR-20	R5028082
Nitrate (as N)	0.219	<T	0.020	mg/L		16-MAR-20	R5028082
Nitrite (as N)	0.0030	<DL	0.010	mg/L		16-MAR-20	R5028082
Total Kjeldahl Nitrogen	0.85		0.18	mg/L	18-MAR-20	18-MAR-20	R5029667
Orthophosphate-Dissolved (as P)	0.0069		0.0030	mg/L		16-MAR-20	R5027388
Sulfate (SO4)	10.4		0.30	mg/L		16-MAR-20	R5028082
Cyanides							
Cyanide, Weak Acid Diss	0.0008	<DL	0.0020	mg/L		18-MAR-20	R5029808
Cyanide, Total	0.0012	<DL	0.0020	mg/L		17-MAR-20	R5029808
Cyanide, Free	0.0005	<DL	0.0020	mg/L		17-MAR-20	R5029808
Organic / Inorganic Carbon							
Dissolved Organic Carbon	22.5		0.50	mg/L		17-MAR-20	R5029248
Total Organic Carbon	25.1		0.50	mg/L		17-MAR-20	R5029230
Total Metals							
Aluminum (Al)-Total	0.332		0.0050	mg/L		17-MAR-20	R5028753
Antimony (Sb)-Total	0.000105	<DL	0.00060	mg/L		17-MAR-20	R5028753
Arsenic (As)-Total	0.00097	<DL	0.0010	mg/L		17-MAR-20	R5028753
Barium (Ba)-Total	0.0247		0.010	mg/L		17-MAR-20	R5028753
Beryllium (Be)-Total	0.0000165	<DL	0.0010	mg/L		17-MAR-20	R5028753
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028753
Boron (B)-Total	0.0120	<DL	0.050	mg/L		17-MAR-20	R5028753
Cadmium (Cd)-Total	0.000013	<DL	0.000017	mg/L		17-MAR-20	R5028753
Calcium (Ca)-Total	49.1		0.20	mg/L		17-MAR-20	R5028753
Cesium (Cs)-Total	0.0000480		0.000010	mg/L		17-MAR-20	R5028753
Chromium (Cr)-Total	0.00058	<DL	0.0010	mg/L		17-MAR-20	R5028753
Cobalt (Co)-Total	0.000580	<T	0.00050	mg/L		17-MAR-20	R5028753
Copper (Cu)-Total	0.00276	<T	0.0010	mg/L		17-MAR-20	R5028753
Iron (Fe)-Total	0.727		0.020	mg/L		17-MAR-20	R5028753
Lead (Pb)-Total	0.00025	<T	0.000050	mg/L		17-MAR-20	R5028753

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-2 SW26							
Sampled By: Client on 10-MAR-20 @ 10:25							
Matrix: Water							
Total Metals							
Lithium (Li)-Total	0.0058	<DL	0.050	mg/L		17-MAR-20	R5028753
Magnesium (Mg)-Total	18.8		0.020	mg/L		17-MAR-20	R5028753
Manganese (Mn)-Total	0.365		0.0010	mg/L		17-MAR-20	R5028753
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031787
Molybdenum (Mo)-Total	0.00101	<T	0.0010	mg/L		17-MAR-20	R5028753
Nickel (Ni)-Total	0.00178	<DL	0.0020	mg/L		17-MAR-20	R5028753
Phosphorus (P)-Total	0.015	<DL	0.050	mg/L		17-MAR-20	R5028753
Potassium (K)-Total	2.71		0.50	mg/L		17-MAR-20	R5028753
Rubidium (Rb)-Total	0.00250		0.00020	mg/L		17-MAR-20	R5028753
Selenium (Se)-Total	0.000170	<T	0.000050	mg/L		17-MAR-20	R5028753
Silicon (Si)-Total	6.32		0.10	mg/L		17-MAR-20	R5028753
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		17-MAR-20	R5028753
Sodium (Na)-Total	8.66		0.10	mg/L		17-MAR-20	R5028753
Strontium (Sr)-Total	0.106		0.0010	mg/L		17-MAR-20	R5028753
Sulfur (S)-Total	3.2		0.50	mg/L		17-MAR-20	R5028753
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		17-MAR-20	R5028753
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		17-MAR-20	R5028753
Thorium (Th)-Total	0.00006	<DL	0.00010	mg/L		17-MAR-20	R5028753
Tin (Sn)-Total	0.00021	<DL	0.0010	mg/L		17-MAR-20	R5028753
Titanium (Ti)-Total	0.0117		0.0020	mg/L		17-MAR-20	R5028753
Tungsten (W)-Total	0.00003	<DL	0.010	mg/L		17-MAR-20	R5028753
Uranium (U)-Total	0.00225	<DL	0.0050	mg/L		17-MAR-20	R5028753
Vanadium (V)-Total	0.00120	<T	0.0010	mg/L		17-MAR-20	R5028753
Zinc (Zn)-Total	0.0615		0.0030	mg/L		17-MAR-20	R5028753
Zirconium (Zr)-Total	0.000630	<DL	0.0010	mg/L		17-MAR-20	R5028753
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					17-MAR-20	R5028120
Aluminum (Al)-Dissolved	0.0182	<T	0.0050	mg/L		17-MAR-20	R5028792
Antimony (Sb)-Dissolved	0.000095	<DL	0.00060	mg/L		17-MAR-20	R5028792
Arsenic (As)-Dissolved	0.000863	<DL	0.0010	mg/L		17-MAR-20	R5028792
Barium (Ba)-Dissolved	0.0227		0.010	mg/L		17-MAR-20	R5028792
Beryllium (Be)-Dissolved	0.000008	<DL	0.0010	mg/L		17-MAR-20	R5028792
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Boron (B)-Dissolved	0.0100	<DL	0.050	mg/L		17-MAR-20	R5028792
Cadmium (Cd)-Dissolved	0.0000150	<DL	0.000017	mg/L		17-MAR-20	R5028792
Calcium (Ca)-Dissolved	47.5		0.20	mg/L		17-MAR-20	R5028792
Cesium (Cs)-Dissolved	0.0000045	<DL	0.000010	mg/L		17-MAR-20	R5028792
Chromium (Cr)-Dissolved	0.00015	<DL	0.0010	mg/L		17-MAR-20	R5028792
Cobalt (Co)-Dissolved	0.000436	<DL	0.00050	mg/L		17-MAR-20	R5028792
Copper (Cu)-Dissolved	0.00216	<T	0.0010	mg/L		17-MAR-20	R5028792
Iron (Fe)-Dissolved	0.318		0.020	mg/L		17-MAR-20	R5028792

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-2 SW26 Sampled By: Client on 10-MAR-20 @ 10:25 Matrix: Water							
Dissolved Metals							
Lead (Pb)-Dissolved	0.00006	<T	0.000050	mg/L		17-MAR-20	R5028792
Lithium (Li)-Dissolved	0.0056	<DL	0.050	mg/L		17-MAR-20	R5028792
Magnesium (Mg)-Dissolved	18.5		0.020	mg/L		17-MAR-20	R5028792
Manganese (Mn)-Dissolved	0.341		0.0010	mg/L		17-MAR-20	R5028792
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031786
Molybdenum (Mo)-Dissolved	0.000986	<DL	0.0010	mg/L		17-MAR-20	R5028792
Nickel (Ni)-Dissolved	0.00142	<DL	0.0020	mg/L		17-MAR-20	R5028792
Phosphorus (P)-Dissolved	0.015	<DL	0.050	mg/L		17-MAR-20	R5028792
Potassium (K)-Dissolved	2.66		0.50	mg/L		17-MAR-20	R5028792
Rubidium (Rb)-Dissolved	0.00203		0.00020	mg/L		17-MAR-20	R5028792
Selenium (Se)-Dissolved	0.000195	<T	0.000050	mg/L		17-MAR-20	R5028792
Silicon (Si)-Dissolved	5.37		0.050	mg/L		17-MAR-20	R5028792
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-MAR-20	R5028792
Sodium (Na)-Dissolved	8.60		0.10	mg/L		17-MAR-20	R5028792
Strontium (Sr)-Dissolved	0.0992		0.0010	mg/L		17-MAR-20	R5028792
Sulfur (S)-Dissolved	3.0		0.50	mg/L		17-MAR-20	R5028792
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028792
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-MAR-20	R5028792
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		17-MAR-20	R5028792
Tin (Sn)-Dissolved	0.000280	<DL	0.0010	mg/L		17-MAR-20	R5028792
Titanium (Ti)-Dissolved	0.00188	<DL	0.0020	mg/L		17-MAR-20	R5028792
Tungsten (W)-Dissolved	0.000018	<DL	0.010	mg/L		17-MAR-20	R5028792
Uranium (U)-Dissolved	0.00217	<DL	0.0050	mg/L		17-MAR-20	R5028792
Vanadium (V)-Dissolved	0.00056	<DL	0.0010	mg/L		17-MAR-20	R5028792
Zinc (Zn)-Dissolved	0.0570		0.0030	mg/L		17-MAR-20	R5028792
Zirconium (Zr)-Dissolved	0.000356	<DL	0.0010	mg/L		17-MAR-20	R5028792
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-MAR-20	R5031826
Chemical Oxygen Demand	66		20	mg/L		16-MAR-20	R5027631
Oil and Grease, Total	2.8		1.0	mg/L	17-MAR-20	17-MAR-20	R5028562
L2427833-3 SW10 Sampled By: Client on 10-MAR-20 @ 11:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	10.61		0	mg/L		16-MAR-20	R5027595
pH, Client Supplied	7.09		0.10	pH		16-MAR-20	R5027595
Temperature, Client Supplied	0		0	Degree C		16-MAR-20	R5027595
Physical Tests							
Color, True	102		2.0	CU		14-MAR-20	R5026053
Conductivity (EC)	368		1.0	uS/cm		13-MAR-20	R5025955
Hardness (as CaCO3)	203		0.51	mg/L		18-MAR-20	
pH	7.39		0.10	pH		13-MAR-20	R5025955

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-3 SW10							
Sampled By: Client on 10-MAR-20 @ 11:00							
Matrix: Water							
Physical Tests							
Total Suspended Solids	6.5		2.0	mg/L		14-MAR-20	R5026749
Total Dissolved Solids	266		20	mg/L		16-MAR-20	R5028404
Turbidity	5.59		0.10	NTU		14-MAR-20	R5025936
Anions and Nutrients							
Acidity (as CaCO3)	9.0		2.0	mg/L		15-MAR-20	R5026747
Alkalinity, Total (as CaCO3)	188		2.0	mg/L		13-MAR-20	R5025955
Ammonia, Total (as N)	0.074	<T	0.020	mg/L		16-MAR-20	R5028160
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		17-MAR-20	
Chloride (Cl)	8.15		0.10	mg/L		16-MAR-20	R5028082
Fluoride (F)	0.026		0.020	mg/L		16-MAR-20	R5028082
Nitrate (as N)	0.117	<T	0.020	mg/L		16-MAR-20	R5028082
Nitrite (as N)	0.0045	<DL	0.010	mg/L		16-MAR-20	R5028082
Total Kjeldahl Nitrogen	1.10		0.18	mg/L	18-MAR-20	18-MAR-20	R5029667
Orthophosphate-Dissolved (as P)	0.0387		0.0030	mg/L		16-MAR-20	R5027388
Sulfate (SO4)	7.88		0.30	mg/L		16-MAR-20	R5028082
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		18-MAR-20	R5029808
Cyanide, Total	0.0006	<DL	0.0020	mg/L		17-MAR-20	R5029808
Cyanide, Free	0.0006	<DL	0.0020	mg/L		17-MAR-20	R5029808
Organic / Inorganic Carbon							
Dissolved Organic Carbon	31.4		0.50	mg/L		17-MAR-20	R5029248
Total Organic Carbon	33.0		0.50	mg/L		17-MAR-20	R5029230
Total Metals							
Aluminum (Al)-Total	0.177		0.0050	mg/L		17-MAR-20	R5028753
Antimony (Sb)-Total	0.000040	<DL	0.00060	mg/L		17-MAR-20	R5028753
Arsenic (As)-Total	0.00094	<DL	0.0010	mg/L		17-MAR-20	R5028753
Barium (Ba)-Total	0.0142		0.010	mg/L		17-MAR-20	R5028753
Beryllium (Be)-Total	0.0000229	<DL	0.0010	mg/L		17-MAR-20	R5028753
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028753
Boron (B)-Total	0.0190	<DL	0.050	mg/L		17-MAR-20	R5028753
Cadmium (Cd)-Total	0.000014	<DL	0.000017	mg/L		17-MAR-20	R5028753
Calcium (Ca)-Total	50.1		0.20	mg/L		17-MAR-20	R5028753
Cesium (Cs)-Total	0.0000255		0.000010	mg/L		17-MAR-20	R5028753
Chromium (Cr)-Total	0.00050	<DL	0.0010	mg/L		17-MAR-20	R5028753
Cobalt (Co)-Total	0.000675	<T	0.00050	mg/L		17-MAR-20	R5028753
Copper (Cu)-Total	0.00104	<T	0.0010	mg/L		17-MAR-20	R5028753
Iron (Fe)-Total	1.25		0.020	mg/L		17-MAR-20	R5028753
Lead (Pb)-Total	0.00018	<T	0.000050	mg/L		17-MAR-20	R5028753
Lithium (Li)-Total	0.0082	<DL	0.050	mg/L		17-MAR-20	R5028753
Magnesium (Mg)-Total	20.8		0.020	mg/L		17-MAR-20	R5028753
Manganese (Mn)-Total	0.208		0.0010	mg/L		17-MAR-20	R5028753
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031787

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-3 SW10							
Sampled By: Client on 10-MAR-20 @ 11:00							
Matrix: Water							
Total Metals							
Molybdenum (Mo)-Total	0.000370	<DL	0.0010	mg/L		17-MAR-20	R5028753
Nickel (Ni)-Total	0.00190	<DL	0.0020	mg/L		17-MAR-20	R5028753
Phosphorus (P)-Total	0.065		0.050	mg/L		17-MAR-20	R5028753
Potassium (K)-Total	1.95		0.50	mg/L		17-MAR-20	R5028753
Rubidium (Rb)-Total	0.00193		0.00020	mg/L		17-MAR-20	R5028753
Selenium (Se)-Total	0.000160	<T	0.000050	mg/L		17-MAR-20	R5028753
Silicon (Si)-Total	8.39		0.10	mg/L		17-MAR-20	R5028753
Silver (Ag)-Total	0.000088	<DL	0.00010	mg/L		17-MAR-20	R5028753
Sodium (Na)-Total	7.24		0.10	mg/L		17-MAR-20	R5028753
Strontium (Sr)-Total	0.144		0.0010	mg/L		17-MAR-20	R5028753
Sulfur (S)-Total	2.4		0.50	mg/L		17-MAR-20	R5028753
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		17-MAR-20	R5028753
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		17-MAR-20	R5028753
Thorium (Th)-Total	0.00003	<DL	0.00010	mg/L		17-MAR-20	R5028753
Tin (Sn)-Total	0.00011	<DL	0.0010	mg/L		17-MAR-20	R5028753
Titanium (Ti)-Total	0.00761		0.0020	mg/L		17-MAR-20	R5028753
Tungsten (W)-Total	0.00004	<DL	0.010	mg/L		17-MAR-20	R5028753
Uranium (U)-Total	0.00105	<DL	0.0050	mg/L		17-MAR-20	R5028753
Vanadium (V)-Total	0.00085	<DL	0.0010	mg/L		17-MAR-20	R5028753
Zinc (Zn)-Total	0.0045	<T	0.0030	mg/L		17-MAR-20	R5028753
Zirconium (Zr)-Total	0.000510	<DL	0.0010	mg/L		17-MAR-20	R5028753
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					17-MAR-20	R5028120
Aluminum (Al)-Dissolved	0.0206	<T	0.0050	mg/L		17-MAR-20	R5028792
Antimony (Sb)-Dissolved	0.000045	<DL	0.00060	mg/L		17-MAR-20	R5028792
Arsenic (As)-Dissolved	0.000887	<DL	0.0010	mg/L		17-MAR-20	R5028792
Barium (Ba)-Dissolved	0.0127		0.010	mg/L		17-MAR-20	R5028792
Beryllium (Be)-Dissolved	0.000016	<DL	0.0010	mg/L		17-MAR-20	R5028792
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Boron (B)-Dissolved	0.0170	<DL	0.050	mg/L		17-MAR-20	R5028792
Cadmium (Cd)-Dissolved	0.0000070	<DL	0.000017	mg/L		17-MAR-20	R5028792
Calcium (Ca)-Dissolved	47.4		0.20	mg/L		17-MAR-20	R5028792
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		17-MAR-20	R5028792
Chromium (Cr)-Dissolved	0.00023	<DL	0.0010	mg/L		17-MAR-20	R5028792
Cobalt (Co)-Dissolved	0.000376	<DL	0.00050	mg/L		17-MAR-20	R5028792
Copper (Cu)-Dissolved	0.00070	<DL	0.0010	mg/L		17-MAR-20	R5028792
Iron (Fe)-Dissolved	0.752		0.020	mg/L		17-MAR-20	R5028792
Lead (Pb)-Dissolved	0.00007	<T	0.000050	mg/L		17-MAR-20	R5028792
Lithium (Li)-Dissolved	0.0084	<DL	0.050	mg/L		17-MAR-20	R5028792
Magnesium (Mg)-Dissolved	20.5		0.020	mg/L		17-MAR-20	R5028792
Manganese (Mn)-Dissolved	0.0910		0.0010	mg/L		17-MAR-20	R5028792

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-3 SW10 Sampled By: Client on 10-MAR-20 @ 11:00 Matrix: Water							
Dissolved Metals							
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031786
Molybdenum (Mo)-Dissolved	0.000288	<DL	0.0010	mg/L		17-MAR-20	R5028792
Nickel (Ni)-Dissolved	0.00168	<DL	0.0020	mg/L		17-MAR-20	R5028792
Phosphorus (P)-Dissolved	0.055		0.050	mg/L		17-MAR-20	R5028792
Potassium (K)-Dissolved	1.91		0.50	mg/L		17-MAR-20	R5028792
Rubidium (Rb)-Dissolved	0.00156		0.00020	mg/L		17-MAR-20	R5028792
Selenium (Se)-Dissolved	0.000165	<T	0.000050	mg/L		17-MAR-20	R5028792
Silicon (Si)-Dissolved	7.73		0.050	mg/L		17-MAR-20	R5028792
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-MAR-20	R5028792
Sodium (Na)-Dissolved	7.01		0.10	mg/L		17-MAR-20	R5028792
Strontium (Sr)-Dissolved	0.139		0.0010	mg/L		17-MAR-20	R5028792
Sulfur (S)-Dissolved	2.2		0.50	mg/L		17-MAR-20	R5028792
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028792
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-MAR-20	R5028792
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		17-MAR-20	R5028792
Tin (Sn)-Dissolved	0.000020	<DL	0.0010	mg/L		17-MAR-20	R5028792
Titanium (Ti)-Dissolved	0.00170	<DL	0.0020	mg/L		17-MAR-20	R5028792
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		17-MAR-20	R5028792
Uranium (U)-Dissolved	0.00101	<DL	0.0050	mg/L		17-MAR-20	R5028792
Vanadium (V)-Dissolved	0.00052	<DL	0.0010	mg/L		17-MAR-20	R5028792
Zinc (Zn)-Dissolved	0.0030	<T	0.0030	mg/L		17-MAR-20	R5028792
Zirconium (Zr)-Dissolved	0.000460	<DL	0.0010	mg/L		17-MAR-20	R5028792
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-MAR-20	R5031826
Chemical Oxygen Demand	77		20	mg/L		16-MAR-20	R5027631
Oil and Grease, Total	0.6	<DL	1.0	mg/L	17-MAR-20	17-MAR-20	R5028562
L2427833-4 SW28A Sampled By: Client on 10-MAR-20 @ 11:30 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	14.19		0	mg/L		16-MAR-20	R5027595
pH, Client Supplied	7.65		0.10	pH		16-MAR-20	R5027595
Temperature, Client Supplied	0		0	Degree C		16-MAR-20	R5027595
Physical Tests							
Color, True	190		2.0	CU		14-MAR-20	R5026053
Conductivity (EC)	332		1.0	uS/cm		13-MAR-20	R5025955
Hardness (as CaCO3)	194		0.51	mg/L		18-MAR-20	
pH	7.73		0.10	pH		13-MAR-20	R5025955
Total Suspended Solids	4.0		2.0	mg/L		14-MAR-20	R5026749
Total Dissolved Solids	264		20	mg/L		16-MAR-20	R5028404
Turbidity	2.46		0.10	NTU		14-MAR-20	R5025936
Anions and Nutrients							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-4 SW28A							
Sampled By: Client on 10-MAR-20 @ 11:30							
Matrix: Water							
Anions and Nutrients							
Acidity (as CaCO3)	4.0		2.0	mg/L		15-MAR-20	R5026747
Alkalinity, Total (as CaCO3)	170		2.0	mg/L		13-MAR-20	R5025955
Ammonia, Total (as N)	0.140	<T	0.020	mg/L		16-MAR-20	R5028160
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		17-MAR-20	
Chloride (Cl)	7.16		0.10	mg/L		16-MAR-20	R5028082
Fluoride (F)	0.025		0.020	mg/L		16-MAR-20	R5028082
Nitrate (as N)	0.192	<T	0.020	mg/L		16-MAR-20	R5028082
Nitrite (as N)	0.0050	<DL	0.010	mg/L		16-MAR-20	R5028082
Total Kjeldahl Nitrogen	1.40		0.18	mg/L	18-MAR-20	18-MAR-20	R5029667
Orthophosphate-Dissolved (as P)	0.0085		0.0030	mg/L		16-MAR-20	R5027388
Sulfate (SO4)	5.24		0.30	mg/L		16-MAR-20	R5028082
Cyanides							
Cyanide, Weak Acid Diss	0.0007	<DL	0.0020	mg/L		18-MAR-20	R5029808
Cyanide, Total	0.0008	<DL	0.0020	mg/L		17-MAR-20	R5029808
Cyanide, Free	0.0007	<DL	0.0020	mg/L		17-MAR-20	R5029808
Organic / Inorganic Carbon							
Dissolved Organic Carbon	42.1		0.50	mg/L		17-MAR-20	R5029248
Total Organic Carbon	43.1		0.50	mg/L		17-MAR-20	R5029230
Total Metals							
Aluminum (Al)-Total	0.120		0.0050	mg/L		17-MAR-20	R5028753
Antimony (Sb)-Total	0.000050	<DL	0.00060	mg/L		17-MAR-20	R5028753
Arsenic (As)-Total	0.00115	<T	0.0010	mg/L		17-MAR-20	R5028753
Barium (Ba)-Total	0.0158		0.010	mg/L		17-MAR-20	R5028753
Beryllium (Be)-Total	0.0000122	<DL	0.0010	mg/L		17-MAR-20	R5028753
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028753
Boron (B)-Total	0.0120	<DL	0.050	mg/L		17-MAR-20	R5028753
Cadmium (Cd)-Total	0.000013	<DL	0.000017	mg/L		17-MAR-20	R5028753
Calcium (Ca)-Total	46.6		0.20	mg/L		17-MAR-20	R5028753
Cesium (Cs)-Total	0.0000125		0.000010	mg/L		17-MAR-20	R5028753
Chromium (Cr)-Total	0.00034	<DL	0.0010	mg/L		17-MAR-20	R5028753
Cobalt (Co)-Total	0.000825	<T	0.00050	mg/L		17-MAR-20	R5028753
Copper (Cu)-Total	0.00108	<T	0.0010	mg/L		17-MAR-20	R5028753
Iron (Fe)-Total	1.05		0.020	mg/L		17-MAR-20	R5028753
Lead (Pb)-Total	0.00010	<T	0.000050	mg/L		17-MAR-20	R5028753
Lithium (Li)-Total	0.0060	<DL	0.050	mg/L		17-MAR-20	R5028753
Magnesium (Mg)-Total	19.9		0.020	mg/L		17-MAR-20	R5028753
Manganese (Mn)-Total	0.297		0.0010	mg/L		17-MAR-20	R5028753
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		19-MAR-20	R5031787
Molybdenum (Mo)-Total	0.000465	<DL	0.0010	mg/L		17-MAR-20	R5028753
Nickel (Ni)-Total	0.00148	<DL	0.0020	mg/L		17-MAR-20	R5028753
Phosphorus (P)-Total	0.010	<DL	0.050	mg/L		17-MAR-20	R5028753
Potassium (K)-Total	1.58		0.50	mg/L		17-MAR-20	R5028753

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-4 SW28A							
Sampled By: Client on 10-MAR-20 @ 11:30							
Matrix: Water							
Total Metals							
Rubidium (Rb)-Total	0.00254		0.00020	mg/L		17-MAR-20	R5028753
Selenium (Se)-Total	0.000175	<T	0.000050	mg/L		17-MAR-20	R5028753
Silicon (Si)-Total	7.06		0.10	mg/L		17-MAR-20	R5028753
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		17-MAR-20	R5028753
Sodium (Na)-Total	3.38		0.10	mg/L		17-MAR-20	R5028753
Strontium (Sr)-Total	0.116		0.0010	mg/L		17-MAR-20	R5028753
Sulfur (S)-Total	1.8		0.50	mg/L		17-MAR-20	R5028753
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		17-MAR-20	R5028753
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		17-MAR-20	R5028753
Thorium (Th)-Total	0.00001	<DL	0.00010	mg/L		17-MAR-20	R5028753
Tin (Sn)-Total	0.00008	<DL	0.0010	mg/L		17-MAR-20	R5028753
Titanium (Ti)-Total	0.00373		0.0020	mg/L		17-MAR-20	R5028753
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		17-MAR-20	R5028753
Uranium (U)-Total	0.00136	<DL	0.0050	mg/L		17-MAR-20	R5028753
Vanadium (V)-Total	0.00075	<DL	0.0010	mg/L		17-MAR-20	R5028753
Zinc (Zn)-Total	0.0025	<DL	0.0030	mg/L		17-MAR-20	R5028753
Zirconium (Zr)-Total	0.000396	<DL	0.0010	mg/L		17-MAR-20	R5028753
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					17-MAR-20	R5028120
Aluminum (Al)-Dissolved	0.0406		0.0050	mg/L		17-MAR-20	R5028792
Antimony (Sb)-Dissolved	0.000055	<DL	0.00060	mg/L		17-MAR-20	R5028792
Arsenic (As)-Dissolved	0.00119	<T	0.0010	mg/L		17-MAR-20	R5028792
Barium (Ba)-Dissolved	0.0156		0.010	mg/L		17-MAR-20	R5028792
Beryllium (Be)-Dissolved	0.000014	<DL	0.0010	mg/L		17-MAR-20	R5028792
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Boron (B)-Dissolved	0.0110	<DL	0.050	mg/L		17-MAR-20	R5028792
Cadmium (Cd)-Dissolved	0.0000125	<DL	0.000017	mg/L		17-MAR-20	R5028792
Calcium (Ca)-Dissolved	45.3		0.20	mg/L		17-MAR-20	R5028792
Cesium (Cs)-Dissolved	0.0000005	<DL	0.000010	mg/L		17-MAR-20	R5028792
Chromium (Cr)-Dissolved	0.00027	<DL	0.0010	mg/L		17-MAR-20	R5028792
Cobalt (Co)-Dissolved	0.000772	<T	0.00050	mg/L		17-MAR-20	R5028792
Copper (Cu)-Dissolved	0.00084	<DL	0.0010	mg/L		17-MAR-20	R5028792
Iron (Fe)-Dissolved	0.839		0.020	mg/L		17-MAR-20	R5028792
Lead (Pb)-Dissolved	0.00004	<DL	0.000050	mg/L		17-MAR-20	R5028792
Lithium (Li)-Dissolved	0.0060	<DL	0.050	mg/L		17-MAR-20	R5028792
Magnesium (Mg)-Dissolved	19.5		0.020	mg/L		17-MAR-20	R5028792
Manganese (Mn)-Dissolved	0.282		0.0010	mg/L		17-MAR-20	R5028792
Mercury (Hg)-Dissolved	0.000005	<DL	0.000030	mg/L		19-MAR-20	R5031786
Molybdenum (Mo)-Dissolved	0.000492	<DL	0.0010	mg/L		17-MAR-20	R5028792
Nickel (Ni)-Dissolved	0.00132	<DL	0.0020	mg/L		17-MAR-20	R5028792
Phosphorus (P)-Dissolved	0.015	<DL	0.050	mg/L		17-MAR-20	R5028792

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-4 SW28A Sampled By: Client on 10-MAR-20 @ 11:30 Matrix: Water							
Dissolved Metals							
Potassium (K)-Dissolved	1.58		0.50	mg/L		17-MAR-20	R5028792
Rubidium (Rb)-Dissolved	0.00221		0.00020	mg/L		17-MAR-20	R5028792
Selenium (Se)-Dissolved	0.000240	<T	0.000050	mg/L		17-MAR-20	R5028792
Silicon (Si)-Dissolved	6.55		0.050	mg/L		17-MAR-20	R5028792
Silver (Ag)-Dissolved	0.0000005	<DL	0.00010	mg/L		17-MAR-20	R5028792
Sodium (Na)-Dissolved	3.21		0.10	mg/L		17-MAR-20	R5028792
Strontium (Sr)-Dissolved	0.111		0.0010	mg/L		17-MAR-20	R5028792
Sulfur (S)-Dissolved	1.6		0.50	mg/L		17-MAR-20	R5028792
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028792
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-MAR-20	R5028792
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		17-MAR-20	R5028792
Tin (Sn)-Dissolved	0.000025	<DL	0.0010	mg/L		17-MAR-20	R5028792
Titanium (Ti)-Dissolved	0.00138	<DL	0.0020	mg/L		17-MAR-20	R5028792
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		17-MAR-20	R5028792
Uranium (U)-Dissolved	0.00136	<DL	0.0050	mg/L		17-MAR-20	R5028792
Vanadium (V)-Dissolved	0.00066	<DL	0.0010	mg/L		17-MAR-20	R5028792
Zinc (Zn)-Dissolved	0.0016	<DL	0.0030	mg/L		17-MAR-20	R5028792
Zirconium (Zr)-Dissolved	0.000400	<DL	0.0010	mg/L		17-MAR-20	R5028792
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-MAR-20	R5031826
Chemical Oxygen Demand	111		20	mg/L		16-MAR-20	R5027631
Oil and Grease, Total	0.8	<DL	1.0	mg/L	17-MAR-20	17-MAR-20	R5028562
L2427833-5 SW20 Sampled By: Client on 10-MAR-20 @ 12:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	7.29		0	mg/L		16-MAR-20	R5027595
pH, Client Supplied	7.53		0.10	pH		16-MAR-20	R5027595
Temperature, Client Supplied	0		0	Degree C		16-MAR-20	R5027595
Physical Tests							
Color, True	98.2		2.0	CU		14-MAR-20	R5026053
Conductivity (EC)	335		1.0	uS/cm		13-MAR-20	R5025955
Hardness (as CaCO3)	179		0.51	mg/L		18-MAR-20	
pH	7.31		0.10	pH		13-MAR-20	R5025955
Total Suspended Solids	6.0		2.0	mg/L		14-MAR-20	R5026749
Total Dissolved Solids	240		20	mg/L		16-MAR-20	R5028404
Turbidity	4.11		0.10	NTU		14-MAR-20	R5025936
Anions and Nutrients							
Acidity (as CaCO3)	8.6		2.0	mg/L		15-MAR-20	R5026747
Alkalinity, Total (as CaCO3)	156		2.0	mg/L		13-MAR-20	R5025955
Ammonia, Total (as N)	0.106	<T	0.020	mg/L		16-MAR-20	R5028160
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		17-MAR-20	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-5 SW20							
Sampled By: Client on 10-MAR-20 @ 12:00							
Matrix: Water							
Anions and Nutrients							
Chloride (Cl)	8.32		0.10	mg/L		16-MAR-20	R5028082
Fluoride (F)	<0.020		0.020	mg/L		16-MAR-20	R5028082
Nitrate (as N)	0.057	<T	0.020	mg/L		16-MAR-20	R5028082
Nitrite (as N)	0.0035	<DL	0.010	mg/L		16-MAR-20	R5028082
Total Kjeldahl Nitrogen	1.05		0.18	mg/L	18-MAR-20	18-MAR-20	R5029667
Orthophosphate-Dissolved (as P)	0.0231		0.0030	mg/L		16-MAR-20	R5027388
Sulfate (SO4)	7.78		0.30	mg/L		16-MAR-20	R5028082
Cyanides							
Cyanide, Weak Acid Diss	0.0003	<DL	0.0020	mg/L		18-MAR-20	R5029808
Cyanide, Total	0.0006	<DL	0.0020	mg/L		17-MAR-20	R5029808
Cyanide, Free	0.0005	<DL	0.0020	mg/L		17-MAR-20	R5029808
Organic / Inorganic Carbon							
Dissolved Organic Carbon	28.4		0.50	mg/L		17-MAR-20	R5029248
Total Organic Carbon	29.6		0.50	mg/L		17-MAR-20	R5029230
Total Metals							
Aluminum (Al)-Total	0.154		0.0050	mg/L		17-MAR-20	R5028753
Antimony (Sb)-Total	0.000045	<DL	0.00060	mg/L		17-MAR-20	R5028753
Arsenic (As)-Total	0.00085	<DL	0.0010	mg/L		17-MAR-20	R5028753
Barium (Ba)-Total	0.0171		0.010	mg/L		17-MAR-20	R5028753
Beryllium (Be)-Total	0.0000114	<DL	0.0010	mg/L		17-MAR-20	R5028753
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028753
Boron (B)-Total	0.0160	<DL	0.050	mg/L		17-MAR-20	R5028753
Cadmium (Cd)-Total	0.000011	<DL	0.000017	mg/L		17-MAR-20	R5028753
Calcium (Ca)-Total	44.0		0.20	mg/L		17-MAR-20	R5028753
Cesium (Cs)-Total	0.0000215		0.000010	mg/L		17-MAR-20	R5028753
Chromium (Cr)-Total	0.00050	<DL	0.0010	mg/L		17-MAR-20	R5028753
Cobalt (Co)-Total	0.000720	<T	0.00050	mg/L		17-MAR-20	R5028753
Copper (Cu)-Total	0.00098	<DL	0.0010	mg/L		17-MAR-20	R5028753
Iron (Fe)-Total	1.28		0.020	mg/L		17-MAR-20	R5028753
Lead (Pb)-Total	0.00019	<T	0.000050	mg/L		17-MAR-20	R5028753
Lithium (Li)-Total	0.0072	<DL	0.050	mg/L		17-MAR-20	R5028753
Magnesium (Mg)-Total	18.2		0.020	mg/L		17-MAR-20	R5028753
Manganese (Mn)-Total	0.310		0.0010	mg/L		17-MAR-20	R5028753
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031787
Molybdenum (Mo)-Total	0.000215	<DL	0.0010	mg/L		17-MAR-20	R5028753
Nickel (Ni)-Total	0.00148	<DL	0.0020	mg/L		17-MAR-20	R5028753
Phosphorus (P)-Total	0.055		0.050	mg/L		17-MAR-20	R5028753
Potassium (K)-Total	1.86		0.50	mg/L		17-MAR-20	R5028753
Rubidium (Rb)-Total	0.00178		0.00020	mg/L		17-MAR-20	R5028753
Selenium (Se)-Total	0.000130	<T	0.000050	mg/L		17-MAR-20	R5028753
Silicon (Si)-Total	7.88		0.10	mg/L		17-MAR-20	R5028753
Silver (Ag)-Total	0.000006	<DL	0.00010	mg/L		17-MAR-20	R5028753

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-5 SW20							
Sampled By: Client on 10-MAR-20 @ 12:00							
Matrix: Water							
Total Metals							
Sodium (Na)-Total	6.84		0.10	mg/L		17-MAR-20	R5028753
Strontium (Sr)-Total	0.113		0.0010	mg/L		17-MAR-20	R5028753
Sulfur (S)-Total	2.4		0.50	mg/L		17-MAR-20	R5028753
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		17-MAR-20	R5028753
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		17-MAR-20	R5028753
Thorium (Th)-Total	<0.00001	<W	0.00010	mg/L		17-MAR-20	R5028753
Tin (Sn)-Total	0.00018	<DL	0.0010	mg/L		17-MAR-20	R5028753
Titanium (Ti)-Total	0.00526		0.0020	mg/L		17-MAR-20	R5028753
Tungsten (W)-Total	0.00003	<DL	0.010	mg/L		17-MAR-20	R5028753
Uranium (U)-Total	0.000535	<DL	0.0050	mg/L		17-MAR-20	R5028753
Vanadium (V)-Total	0.00065	<DL	0.0010	mg/L		17-MAR-20	R5028753
Zinc (Zn)-Total	0.0120		0.0030	mg/L		17-MAR-20	R5028753
Zirconium (Zr)-Total	0.000454	<DL	0.0010	mg/L		17-MAR-20	R5028753
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					17-MAR-20	R5028120
Aluminum (Al)-Dissolved	0.0232	<T	0.0050	mg/L		17-MAR-20	R5028792
Antimony (Sb)-Dissolved	0.000050	<DL	0.00060	mg/L		17-MAR-20	R5028792
Arsenic (As)-Dissolved	0.000783	<DL	0.0010	mg/L		17-MAR-20	R5028792
Barium (Ba)-Dissolved	0.0149		0.010	mg/L		17-MAR-20	R5028792
Beryllium (Be)-Dissolved	0.000016	<DL	0.0010	mg/L		17-MAR-20	R5028792
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Boron (B)-Dissolved	0.0145	<DL	0.050	mg/L		17-MAR-20	R5028792
Cadmium (Cd)-Dissolved	0.0000050	<DL	0.000017	mg/L		17-MAR-20	R5028792
Calcium (Ca)-Dissolved	41.9		0.20	mg/L		17-MAR-20	R5028792
Cesium (Cs)-Dissolved	0.0000005	<DL	0.000010	mg/L		17-MAR-20	R5028792
Chromium (Cr)-Dissolved	0.00025	<DL	0.0010	mg/L		17-MAR-20	R5028792
Cobalt (Co)-Dissolved	0.000352	<DL	0.00050	mg/L		17-MAR-20	R5028792
Copper (Cu)-Dissolved	0.00062	<DL	0.0010	mg/L		17-MAR-20	R5028792
Iron (Fe)-Dissolved	0.786		0.020	mg/L		17-MAR-20	R5028792
Lead (Pb)-Dissolved	0.00007	<T	0.000050	mg/L		17-MAR-20	R5028792
Lithium (Li)-Dissolved	0.0076	<DL	0.050	mg/L		17-MAR-20	R5028792
Magnesium (Mg)-Dissolved	18.1		0.020	mg/L		17-MAR-20	R5028792
Manganese (Mn)-Dissolved	0.138		0.0010	mg/L		17-MAR-20	R5028792
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031786
Molybdenum (Mo)-Dissolved	0.000192	<DL	0.0010	mg/L		17-MAR-20	R5028792
Nickel (Ni)-Dissolved	0.00128	<DL	0.0020	mg/L		17-MAR-20	R5028792
Phosphorus (P)-Dissolved	0.035	<DL	0.050	mg/L		17-MAR-20	R5028792
Potassium (K)-Dissolved	1.83		0.50	mg/L		17-MAR-20	R5028792
Rubidium (Rb)-Dissolved	0.00166		0.00020	mg/L		17-MAR-20	R5028792
Selenium (Se)-Dissolved	0.000155	<T	0.000050	mg/L		17-MAR-20	R5028792
Silicon (Si)-Dissolved	7.60		0.050	mg/L		17-MAR-20	R5028792

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-5 SW20 Sampled By: Client on 10-MAR-20 @ 12:00 Matrix: Water							
Dissolved Metals							
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-MAR-20	R5028792
Sodium (Na)-Dissolved	6.69		0.10	mg/L		17-MAR-20	R5028792
Strontium (Sr)-Dissolved	0.110		0.0010	mg/L		17-MAR-20	R5028792
Sulfur (S)-Dissolved	2.2		0.50	mg/L		17-MAR-20	R5028792
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028792
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-MAR-20	R5028792
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		17-MAR-20	R5028792
Tin (Sn)-Dissolved	0.000090	<DL	0.0010	mg/L		17-MAR-20	R5028792
Titanium (Ti)-Dissolved	0.00152	<DL	0.0020	mg/L		17-MAR-20	R5028792
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		17-MAR-20	R5028792
Uranium (U)-Dissolved	0.000516	<DL	0.0050	mg/L		17-MAR-20	R5028792
Vanadium (V)-Dissolved	0.00044	<DL	0.0010	mg/L		17-MAR-20	R5028792
Zinc (Zn)-Dissolved	0.0080	<T	0.0030	mg/L		17-MAR-20	R5028792
Zirconium (Zr)-Dissolved	0.000418	<DL	0.0010	mg/L		17-MAR-20	R5028792
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-MAR-20	R5031826
Chemical Oxygen Demand	77		20	mg/L		16-MAR-20	R5027631
Oil and Grease, Total	<0.2	<W	1.0	mg/L	17-MAR-20	17-MAR-20	R5028562
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		01-APR-20	R5051188
L2427833-6 SW02 Sampled By: Client on 10-MAR-20 @ 12:30 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	7.63		0	mg/L		16-MAR-20	R5027595
pH, Client Supplied	7.47		0.10	pH		16-MAR-20	R5027595
Temperature, Client Supplied	0		0	Degree C		16-MAR-20	R5027595
Physical Tests							
Color, True	118		2.0	CU		14-MAR-20	R5026053
Conductivity (EC)	171		1.0	uS/cm		13-MAR-20	R5025955
Hardness (as CaCO3)	103		0.51	mg/L		18-MAR-20	
pH	7.07		0.10	pH		13-MAR-20	R5025955
Total Suspended Solids	4.0		2.0	mg/L		16-MAR-20	R5028320
Total Dissolved Solids	154		13	mg/L		16-MAR-20	R5028404
Turbidity	2.19		0.10	NTU		14-MAR-20	R5025936
Anions and Nutrients							
Acidity (as CaCO3)	11.2		2.0	mg/L		15-MAR-20	R5026747
Alkalinity, Total (as CaCO3)	90.2		2.0	mg/L		13-MAR-20	R5025955
Ammonia, Total (as N)	0.290		0.020	mg/L		16-MAR-20	R5028160
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		17-MAR-20	
Chloride (Cl)	0.44		0.10	mg/L		16-MAR-20	R5028082
Fluoride (F)	<0.020		0.020	mg/L		16-MAR-20	R5028082

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-6 SW02							
Sampled By: Client on 10-MAR-20 @ 12:30							
Matrix: Water							
Anions and Nutrients							
Nitrate (as N)	0.072	<T	0.020	mg/L		16-MAR-20	R5028082
Nitrite (as N)	0.0035	<DL	0.010	mg/L		16-MAR-20	R5028082
Total Kjeldahl Nitrogen	1.15		0.18	mg/L	18-MAR-20	18-MAR-20	R5029667
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		16-MAR-20	R5027388
Sulfate (SO4)	2.44	<T	0.30	mg/L		16-MAR-20	R5028082
Cyanides							
Cyanide, Weak Acid Diss	0.0003	<DL	0.0020	mg/L		18-MAR-20	R5029808
Cyanide, Total	0.0006	<DL	0.0020	mg/L		17-MAR-20	R5029808
Cyanide, Free	0.0017	<DL	0.0020	mg/L		17-MAR-20	R5029808
Organic / Inorganic Carbon							
Dissolved Organic Carbon	29.1		0.50	mg/L		17-MAR-20	R5029248
Total Organic Carbon	30.5		0.50	mg/L		17-MAR-20	R5029230
Total Metals							
Aluminum (Al)-Total	0.153		0.0050	mg/L		17-MAR-20	R5028753
Antimony (Sb)-Total	0.000030	<DL	0.00060	mg/L		17-MAR-20	R5028753
Arsenic (As)-Total	0.00056	<DL	0.0010	mg/L		17-MAR-20	R5028753
Barium (Ba)-Total	0.0141		0.010	mg/L		17-MAR-20	R5028753
Beryllium (Be)-Total	0.0000045	<DL	0.0010	mg/L		17-MAR-20	R5028753
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028753
Boron (B)-Total	0.0045	<DL	0.050	mg/L		17-MAR-20	R5028753
Cadmium (Cd)-Total	0.000014	<DL	0.000017	mg/L		17-MAR-20	R5028753
Calcium (Ca)-Total	25.6		0.20	mg/L		17-MAR-20	R5028753
Cesium (Cs)-Total	0.0000325		0.000010	mg/L		17-MAR-20	R5028753
Chromium (Cr)-Total	0.00036	<DL	0.0010	mg/L		17-MAR-20	R5028753
Cobalt (Co)-Total	0.000695	<T	0.00050	mg/L		17-MAR-20	R5028753
Copper (Cu)-Total	0.00070	<DL	0.0010	mg/L		17-MAR-20	R5028753
Iron (Fe)-Total	0.945		0.020	mg/L		17-MAR-20	R5028753
Lead (Pb)-Total	0.00034	<T	0.000050	mg/L		17-MAR-20	R5028753
Lithium (Li)-Total	0.0024	<DL	0.050	mg/L		17-MAR-20	R5028753
Magnesium (Mg)-Total	10.4		0.020	mg/L		17-MAR-20	R5028753
Manganese (Mn)-Total	0.270		0.0010	mg/L		17-MAR-20	R5028753
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031787
Molybdenum (Mo)-Total	0.000080	<DL	0.0010	mg/L		17-MAR-20	R5028753
Nickel (Ni)-Total	0.00072	<DL	0.0020	mg/L		17-MAR-20	R5028753
Phosphorus (P)-Total	0.005	<DL	0.050	mg/L		17-MAR-20	R5028753
Potassium (K)-Total	0.64		0.50	mg/L		17-MAR-20	R5028753
Rubidium (Rb)-Total	0.00166		0.00020	mg/L		17-MAR-20	R5028753
Selenium (Se)-Total	0.000105	<T	0.000050	mg/L		17-MAR-20	R5028753
Silicon (Si)-Total	7.97		0.10	mg/L		17-MAR-20	R5028753
Silver (Ag)-Total	0.000011	<DL	0.00010	mg/L		17-MAR-20	R5028753
Sodium (Na)-Total	1.73		0.10	mg/L		17-MAR-20	R5028753
Strontium (Sr)-Total	0.0426		0.0010	mg/L		17-MAR-20	R5028753

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-6 SW02							
Sampled By: Client on 10-MAR-20 @ 12:30							
Matrix: Water							
Total Metals							
Sulfur (S)-Total	<0.2	<W	0.50	mg/L		17-MAR-20	R5028753
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		17-MAR-20	R5028753
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		17-MAR-20	R5028753
Thorium (Th)-Total	<0.00001	<W	0.00010	mg/L		17-MAR-20	R5028753
Tin (Sn)-Total	0.00008	<DL	0.0010	mg/L		17-MAR-20	R5028753
Titanium (Ti)-Total	0.00325		0.0020	mg/L		17-MAR-20	R5028753
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		17-MAR-20	R5028753
Uranium (U)-Total	0.0000860	<DL	0.0050	mg/L		17-MAR-20	R5028753
Vanadium (V)-Total	0.00030	<DL	0.0010	mg/L		17-MAR-20	R5028753
Zinc (Zn)-Total	0.0060	<T	0.0030	mg/L		17-MAR-20	R5028753
Zirconium (Zr)-Total	0.000176	<DL	0.0010	mg/L		17-MAR-20	R5028753
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					17-MAR-20	R5028120
Aluminum (Al)-Dissolved	0.0334		0.0050	mg/L		17-MAR-20	R5028792
Antimony (Sb)-Dissolved	0.000045	<DL	0.00060	mg/L		17-MAR-20	R5028792
Arsenic (As)-Dissolved	0.000502	<DL	0.0010	mg/L		17-MAR-20	R5028792
Barium (Ba)-Dissolved	0.0123		0.010	mg/L		17-MAR-20	R5028792
Beryllium (Be)-Dissolved	0.000006	<DL	0.0010	mg/L		17-MAR-20	R5028792
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Boron (B)-Dissolved	0.0035	<DL	0.050	mg/L		17-MAR-20	R5028792
Cadmium (Cd)-Dissolved	0.0000065	<DL	0.000017	mg/L		17-MAR-20	R5028792
Calcium (Ca)-Dissolved	24.7		0.20	mg/L		17-MAR-20	R5028792
Cesium (Cs)-Dissolved	0.0000035	<DL	0.000010	mg/L		17-MAR-20	R5028792
Chromium (Cr)-Dissolved	0.00018	<DL	0.0010	mg/L		17-MAR-20	R5028792
Cobalt (Co)-Dissolved	0.000478	<DL	0.00050	mg/L		17-MAR-20	R5028792
Copper (Cu)-Dissolved	0.00024	<DL	0.0010	mg/L		17-MAR-20	R5028792
Iron (Fe)-Dissolved	0.604		0.020	mg/L		17-MAR-20	R5028792
Lead (Pb)-Dissolved	0.00008	<T	0.000050	mg/L		17-MAR-20	R5028792
Lithium (Li)-Dissolved	0.0022	<DL	0.050	mg/L		17-MAR-20	R5028792
Magnesium (Mg)-Dissolved	10.1		0.020	mg/L		17-MAR-20	R5028792
Manganese (Mn)-Dissolved	0.201		0.0010	mg/L		17-MAR-20	R5028792
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031786
Molybdenum (Mo)-Dissolved	0.000076	<DL	0.0010	mg/L		17-MAR-20	R5028792
Nickel (Ni)-Dissolved	0.00058	<DL	0.0020	mg/L		17-MAR-20	R5028792
Phosphorus (P)-Dissolved	0.005	<DL	0.050	mg/L		17-MAR-20	R5028792
Potassium (K)-Dissolved	0.60		0.50	mg/L		17-MAR-20	R5028792
Rubidium (Rb)-Dissolved	0.00150		0.00020	mg/L		17-MAR-20	R5028792
Selenium (Se)-Dissolved	0.000115	<T	0.000050	mg/L		17-MAR-20	R5028792
Silicon (Si)-Dissolved	7.78		0.050	mg/L		17-MAR-20	R5028792
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-MAR-20	R5028792
Sodium (Na)-Dissolved	1.64		0.10	mg/L		17-MAR-20	R5028792

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-6 SW02 Sampled By: Client on 10-MAR-20 @ 12:30 Matrix: Water							
Dissolved Metals							
Strontium (Sr)-Dissolved	0.0409		0.0010	mg/L		17-MAR-20	R5028792
Sulfur (S)-Dissolved	<0.2	<W	0.50	mg/L		17-MAR-20	R5028792
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028792
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-MAR-20	R5028792
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		17-MAR-20	R5028792
Tin (Sn)-Dissolved	0.000080	<DL	0.0010	mg/L		17-MAR-20	R5028792
Titanium (Ti)-Dissolved	0.00064	<DL	0.0020	mg/L		17-MAR-20	R5028792
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		17-MAR-20	R5028792
Uranium (U)-Dissolved	0.0000705	<DL	0.0050	mg/L		17-MAR-20	R5028792
Vanadium (V)-Dissolved	0.00018	<DL	0.0010	mg/L		17-MAR-20	R5028792
Zinc (Zn)-Dissolved	0.0032	<T	0.0030	mg/L		17-MAR-20	R5028792
Zirconium (Zr)-Dissolved	0.000164	<DL	0.0010	mg/L		17-MAR-20	R5028792
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-MAR-20	R5031826
Chemical Oxygen Demand	83		20	mg/L		16-MAR-20	R5027631
Oil and Grease, Total	1.2		1.0	mg/L	17-MAR-20	17-MAR-20	R5028562
L2427833-7 SW03 Sampled By: Client on 10-MAR-20 @ 10:30 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	7.27		0	mg/L		16-MAR-20	R5027595
pH, Client Supplied	6.96		0.10	pH		16-MAR-20	R5027595
Temperature, Client Supplied	0		0	Degree C		16-MAR-20	R5027595
Physical Tests							
Color, True	85.0		2.0	CU		14-MAR-20	R5026053
Conductivity (EC)	413		1.0	uS/cm		13-MAR-20	R5025955
Hardness (as CaCO3)	225		0.51	mg/L		18-MAR-20	
pH	7.36		0.10	pH		13-MAR-20	R5025955
Total Suspended Solids	20.5		2.0	mg/L		14-MAR-20	R5026749
Total Dissolved Solids	276		20	mg/L		16-MAR-20	R5028404
Turbidity	16.3		0.10	NTU		14-MAR-20	R5025936
Anions and Nutrients							
Acidity (as CaCO3)	10.8		2.0	mg/L		15-MAR-20	R5026747
Alkalinity, Total (as CaCO3)	214		2.0	mg/L		13-MAR-20	R5025955
Ammonia, Total (as N)	0.118	<T	0.020	mg/L		16-MAR-20	R5028160
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		17-MAR-20	
Chloride (Cl)	11.6		0.10	mg/L		16-MAR-20	R5028082
Fluoride (F)	0.026		0.020	mg/L		16-MAR-20	R5028082
Nitrate (as N)	0.129	<T	0.020	mg/L		16-MAR-20	R5028082
Nitrite (as N)	0.0040	<DL	0.010	mg/L		16-MAR-20	R5028082
Total Kjeldahl Nitrogen	1.15		0.18	mg/L	18-MAR-20	18-MAR-20	R5029667
Orthophosphate-Dissolved (as P)	0.0380		0.0030	mg/L		16-MAR-20	R5027388

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-7 SW03							
Sampled By: Client on 10-MAR-20 @ 10:30							
Matrix: Water							
Anions and Nutrients							
Sulfate (SO4)	9.22		0.30	mg/L		16-MAR-20	R5028082
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		18-MAR-20	R5029808
Cyanide, Total	0.0004	<DL	0.0020	mg/L		17-MAR-20	R5029808
Cyanide, Free	0.0005	<DL	0.0020	mg/L		17-MAR-20	R5029808
Organic / Inorganic Carbon							
Dissolved Organic Carbon	27.4		0.50	mg/L		17-MAR-20	R5029248
Total Organic Carbon	33.0		0.50	mg/L		17-MAR-20	R5029230
Total Metals							
Aluminum (Al)-Total	0.611		0.0050	mg/L		17-MAR-20	R5028753
Antimony (Sb)-Total	0.000070	<DL	0.00060	mg/L		17-MAR-20	R5028753
Arsenic (As)-Total	0.00108	<T	0.0010	mg/L		17-MAR-20	R5028753
Barium (Ba)-Total	0.0243		0.010	mg/L		17-MAR-20	R5028753
Beryllium (Be)-Total	0.0000413	<DL	0.0010	mg/L		17-MAR-20	R5028753
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028753
Boron (B)-Total	0.0150	<DL	0.050	mg/L		17-MAR-20	R5028753
Cadmium (Cd)-Total	0.000023	<T	0.000017	mg/L		17-MAR-20	R5028753
Calcium (Ca)-Total	54.4		0.20	mg/L		17-MAR-20	R5028753
Cesium (Cs)-Total	0.0000775		0.000010	mg/L		17-MAR-20	R5028753
Chromium (Cr)-Total	0.00128		0.0010	mg/L		17-MAR-20	R5028753
Cobalt (Co)-Total	0.000875	<T	0.00050	mg/L		17-MAR-20	R5028753
Copper (Cu)-Total	0.00196	<T	0.0010	mg/L		17-MAR-20	R5028753
Iron (Fe)-Total	1.70		0.020	mg/L		17-MAR-20	R5028753
Lead (Pb)-Total	0.00051	<T	0.000050	mg/L		17-MAR-20	R5028753
Lithium (Li)-Total	0.0078	<DL	0.050	mg/L		17-MAR-20	R5028753
Magnesium (Mg)-Total	22.8		0.020	mg/L		17-MAR-20	R5028753
Manganese (Mn)-Total	0.303		0.0010	mg/L		17-MAR-20	R5028753
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		19-MAR-20	R5031787
Molybdenum (Mo)-Total	0.000375	<DL	0.0010	mg/L		17-MAR-20	R5028753
Nickel (Ni)-Total	0.00274	<T	0.0020	mg/L		17-MAR-20	R5028753
Phosphorus (P)-Total	0.085		0.050	mg/L		17-MAR-20	R5028753
Potassium (K)-Total	2.13		0.50	mg/L		17-MAR-20	R5028753
Rubidium (Rb)-Total	0.00277		0.00020	mg/L		17-MAR-20	R5028753
Selenium (Se)-Total	0.000195	<T	0.000050	mg/L		17-MAR-20	R5028753
Silicon (Si)-Total	9.30		0.10	mg/L		17-MAR-20	R5028753
Silver (Ag)-Total	0.000004	<DL	0.00010	mg/L		17-MAR-20	R5028753
Sodium (Na)-Total	7.32		0.10	mg/L		17-MAR-20	R5028753
Strontium (Sr)-Total	0.129		0.0010	mg/L		17-MAR-20	R5028753
Sulfur (S)-Total	2.8		0.50	mg/L		17-MAR-20	R5028753
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		17-MAR-20	R5028753
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		17-MAR-20	R5028753
Thorium (Th)-Total	0.00009	<DL	0.00010	mg/L		17-MAR-20	R5028753

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-7 SW03							
Sampled By: Client on 10-MAR-20 @ 10:30							
Matrix: Water							
Total Metals							
Tin (Sn)-Total	0.00029	<DL	0.0010	mg/L		17-MAR-20	R5028753
Titanium (Ti)-Total	0.0218		0.0020	mg/L		17-MAR-20	R5028753
Tungsten (W)-Total	0.00002	<DL	0.010	mg/L		17-MAR-20	R5028753
Uranium (U)-Total	0.00148	<DL	0.0050	mg/L		17-MAR-20	R5028753
Vanadium (V)-Total	0.00210	<T	0.0010	mg/L		17-MAR-20	R5028753
Zinc (Zn)-Total	0.0155		0.0030	mg/L		17-MAR-20	R5028753
Zirconium (Zr)-Total	0.000866	<DL	0.0010	mg/L		17-MAR-20	R5028753
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					17-MAR-20	R5028120
Aluminum (Al)-Dissolved	0.0174	<T	0.0050	mg/L		17-MAR-20	R5028792
Antimony (Sb)-Dissolved	0.000070	<DL	0.00060	mg/L		17-MAR-20	R5028792
Arsenic (As)-Dissolved	0.000906	<DL	0.0010	mg/L		17-MAR-20	R5028792
Barium (Ba)-Dissolved	0.0196		0.010	mg/L		17-MAR-20	R5028792
Beryllium (Be)-Dissolved	0.000008	<DL	0.0010	mg/L		17-MAR-20	R5028792
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Boron (B)-Dissolved	0.0135	<DL	0.050	mg/L		17-MAR-20	R5028792
Cadmium (Cd)-Dissolved	0.0000110	<DL	0.000017	mg/L		17-MAR-20	R5028792
Calcium (Ca)-Dissolved	53.3		0.20	mg/L		17-MAR-20	R5028792
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		17-MAR-20	R5028792
Chromium (Cr)-Dissolved	0.00022	<DL	0.0010	mg/L		17-MAR-20	R5028792
Cobalt (Co)-Dissolved	0.000414	<DL	0.00050	mg/L		17-MAR-20	R5028792
Copper (Cu)-Dissolved	0.00128	<T	0.0010	mg/L		17-MAR-20	R5028792
Iron (Fe)-Dissolved	0.647		0.020	mg/L		17-MAR-20	R5028792
Lead (Pb)-Dissolved	0.00015	<T	0.000050	mg/L		17-MAR-20	R5028792
Lithium (Li)-Dissolved	0.0076	<DL	0.050	mg/L		17-MAR-20	R5028792
Magnesium (Mg)-Dissolved	22.4		0.020	mg/L		17-MAR-20	R5028792
Manganese (Mn)-Dissolved	0.176		0.0010	mg/L		17-MAR-20	R5028792
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031786
Molybdenum (Mo)-Dissolved	0.000374	<DL	0.0010	mg/L		17-MAR-20	R5028792
Nickel (Ni)-Dissolved	0.00200	<T	0.0020	mg/L		17-MAR-20	R5028792
Phosphorus (P)-Dissolved	0.040	<DL	0.050	mg/L		17-MAR-20	R5028792
Potassium (K)-Dissolved	2.02		0.50	mg/L		17-MAR-20	R5028792
Rubidium (Rb)-Dissolved	0.00148		0.00020	mg/L		17-MAR-20	R5028792
Selenium (Se)-Dissolved	0.000195	<T	0.000050	mg/L		17-MAR-20	R5028792
Silicon (Si)-Dissolved	7.81		0.050	mg/L		17-MAR-20	R5028792
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-MAR-20	R5028792
Sodium (Na)-Dissolved	7.24		0.10	mg/L		17-MAR-20	R5028792
Strontium (Sr)-Dissolved	0.124		0.0010	mg/L		17-MAR-20	R5028792
Sulfur (S)-Dissolved	2.8		0.50	mg/L		17-MAR-20	R5028792
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028792
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-MAR-20	R5028792

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-7 SW03 Sampled By: Client on 10-MAR-20 @ 10:30 Matrix: Water							
Dissolved Metals							
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		17-MAR-20	R5028792
Tin (Sn)-Dissolved	0.000075	<DL	0.0010	mg/L		17-MAR-20	R5028792
Titanium (Ti)-Dissolved	0.00236		0.0020	mg/L		17-MAR-20	R5028792
Tungsten (W)-Dissolved	0.000004	<DL	0.010	mg/L		17-MAR-20	R5028792
Uranium (U)-Dissolved	0.00140	<DL	0.0050	mg/L		17-MAR-20	R5028792
Vanadium (V)-Dissolved	0.00072	<DL	0.0010	mg/L		17-MAR-20	R5028792
Zinc (Zn)-Dissolved	0.0100		0.0030	mg/L		17-MAR-20	R5028792
Zirconium (Zr)-Dissolved	0.000588	<DL	0.0010	mg/L		17-MAR-20	R5028792
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-MAR-20	R5031826
Chemical Oxygen Demand	79		20	mg/L		16-MAR-20	R5027631
Oil and Grease, Total	<0.2	<W	1.0	mg/L	17-MAR-20	17-MAR-20	R5028562
L2427833-8 SW23 Sampled By: Client on 10-MAR-20 @ 11:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	5.82		0	mg/L		16-MAR-20	R5027595
pH, Client Supplied	6.95		0.10	pH		16-MAR-20	R5027595
Temperature, Client Supplied	0		0	Degree C		16-MAR-20	R5027595
Physical Tests							
Color, True	87.9		2.0	CU		14-MAR-20	R5026053
Conductivity (EC)	392		1.0	uS/cm		13-MAR-20	R5025955
Hardness (as CaCO3)	219		0.51	mg/L		18-MAR-20	
pH	7.33		0.10	pH		13-MAR-20	R5025955
Total Suspended Solids	16.5		2.0	mg/L		14-MAR-20	R5026749
Total Dissolved Solids	262		20	mg/L		16-MAR-20	R5028404
Turbidity	16.4		0.10	NTU		14-MAR-20	R5025936
Anions and Nutrients							
Acidity (as CaCO3)	11.8		2.0	mg/L		15-MAR-20	R5026747
Alkalinity, Total (as CaCO3)	195		2.0	mg/L		13-MAR-20	R5025955
Ammonia, Total (as N)	0.114	<T	0.020	mg/L		16-MAR-20	R5028160
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		17-MAR-20	
Chloride (Cl)	6.76		0.10	mg/L		16-MAR-20	R5028082
Fluoride (F)	0.023		0.020	mg/L		16-MAR-20	R5028082
Nitrate (as N)	0.171	<T	0.020	mg/L		16-MAR-20	R5028082
Nitrite (as N)	0.0060	<DL	0.010	mg/L		16-MAR-20	R5028082
Total Kjeldahl Nitrogen	1.20		0.18	mg/L	18-MAR-20	18-MAR-20	R5029667
Orthophosphate-Dissolved (as P)	0.0391		0.0030	mg/L		16-MAR-20	R5027388
Sulfate (SO4)	6.90		0.30	mg/L		16-MAR-20	R5028082
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		18-MAR-20	R5029808
Cyanide, Total	0.0004	<DL	0.0020	mg/L		17-MAR-20	R5029808

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-8 SW23							
Sampled By: Client on 10-MAR-20 @ 11:00							
Matrix: Water							
Cyanides							
Cyanide, Free	0.0006	<DL	0.0020	mg/L		17-MAR-20	R5029808
Organic / Inorganic Carbon							
Dissolved Organic Carbon	26.8		0.50	mg/L		17-MAR-20	R5029248
Total Organic Carbon	31.5		0.50	mg/L		17-MAR-20	R5029230
Total Metals							
Aluminum (Al)-Total	0.632		0.0050	mg/L		17-MAR-20	R5028753
Antimony (Sb)-Total	0.000060	<DL	0.00060	mg/L		17-MAR-20	R5028753
Arsenic (As)-Total	0.00114	<T	0.0010	mg/L		17-MAR-20	R5028753
Barium (Ba)-Total	0.0224		0.010	mg/L		17-MAR-20	R5028753
Beryllium (Be)-Total	0.0000385	<DL	0.0010	mg/L		17-MAR-20	R5028753
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028753
Boron (B)-Total	0.0125	<DL	0.050	mg/L		17-MAR-20	R5028753
Cadmium (Cd)-Total	0.000014	<DL	0.000017	mg/L		17-MAR-20	R5028753
Calcium (Ca)-Total	53.9		0.20	mg/L		17-MAR-20	R5028753
Cesium (Cs)-Total	0.0000790		0.000010	mg/L		17-MAR-20	R5028753
Chromium (Cr)-Total	0.00120		0.0010	mg/L		17-MAR-20	R5028753
Cobalt (Co)-Total	0.000875	<T	0.00050	mg/L		17-MAR-20	R5028753
Copper (Cu)-Total	0.00182	<T	0.0010	mg/L		17-MAR-20	R5028753
Iron (Fe)-Total	1.97		0.020	mg/L		17-MAR-20	R5028753
Lead (Pb)-Total	0.00050	<T	0.000050	mg/L		17-MAR-20	R5028753
Lithium (Li)-Total	0.0068	<DL	0.050	mg/L		17-MAR-20	R5028753
Magnesium (Mg)-Total	22.1		0.020	mg/L		17-MAR-20	R5028753
Manganese (Mn)-Total	0.304		0.0010	mg/L		17-MAR-20	R5028753
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031787
Molybdenum (Mo)-Total	0.000295	<DL	0.0010	mg/L		17-MAR-20	R5028753
Nickel (Ni)-Total	0.00270	<T	0.0020	mg/L		17-MAR-20	R5028753
Phosphorus (P)-Total	0.090		0.050	mg/L		17-MAR-20	R5028753
Potassium (K)-Total	1.84		0.50	mg/L		17-MAR-20	R5028753
Rubidium (Rb)-Total	0.00284		0.00020	mg/L		17-MAR-20	R5028753
Selenium (Se)-Total	0.000175	<T	0.000050	mg/L		17-MAR-20	R5028753
Silicon (Si)-Total	9.48		0.10	mg/L		17-MAR-20	R5028753
Silver (Ag)-Total	0.000005	<DL	0.00010	mg/L		17-MAR-20	R5028753
Sodium (Na)-Total	5.64		0.10	mg/L		17-MAR-20	R5028753
Strontium (Sr)-Total	0.112		0.0010	mg/L		17-MAR-20	R5028753
Sulfur (S)-Total	2.2		0.50	mg/L		17-MAR-20	R5028753
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		17-MAR-20	R5028753
Thallium (Tl)-Total	0.000005	<DL	0.00030	mg/L		17-MAR-20	R5028753
Thorium (Th)-Total	0.00010		0.00010	mg/L		17-MAR-20	R5028753
Tin (Sn)-Total	0.00019	<DL	0.0010	mg/L		17-MAR-20	R5028753
Titanium (Ti)-Total	0.0226		0.0020	mg/L		17-MAR-20	R5028753
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		17-MAR-20	R5028753

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-8 SW23							
Sampled By: Client on 10-MAR-20 @ 11:00							
Matrix: Water							
Total Metals							
Uranium (U)-Total	0.00131	<DL	0.0050	mg/L		17-MAR-20	R5028753
Vanadium (V)-Total	0.00215	<T	0.0010	mg/L		17-MAR-20	R5028753
Zinc (Zn)-Total	0.0080	<T	0.0030	mg/L		17-MAR-20	R5028753
Zirconium (Zr)-Total	0.000914	<DL	0.0010	mg/L		17-MAR-20	R5028753
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					17-MAR-20	R5028120
Aluminum (Al)-Dissolved	0.0222	<T	0.0050	mg/L		17-MAR-20	R5028792
Antimony (Sb)-Dissolved	0.000060	<DL	0.00060	mg/L		17-MAR-20	R5028792
Arsenic (As)-Dissolved	0.000890	<DL	0.0010	mg/L		17-MAR-20	R5028792
Barium (Ba)-Dissolved	0.0170		0.010	mg/L		17-MAR-20	R5028792
Beryllium (Be)-Dissolved	0.000010	<DL	0.0010	mg/L		17-MAR-20	R5028792
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Boron (B)-Dissolved	0.0110	<DL	0.050	mg/L		17-MAR-20	R5028792
Cadmium (Cd)-Dissolved	0.0000060	<DL	0.000017	mg/L		17-MAR-20	R5028792
Calcium (Ca)-Dissolved	51.8		0.20	mg/L		17-MAR-20	R5028792
Cesium (Cs)-Dissolved	0.0000005	<DL	0.000010	mg/L		17-MAR-20	R5028792
Chromium (Cr)-Dissolved	0.00021	<DL	0.0010	mg/L		17-MAR-20	R5028792
Cobalt (Co)-Dissolved	0.000390	<DL	0.00050	mg/L		17-MAR-20	R5028792
Copper (Cu)-Dissolved	0.00118	<T	0.0010	mg/L		17-MAR-20	R5028792
Iron (Fe)-Dissolved	0.825		0.020	mg/L		17-MAR-20	R5028792
Lead (Pb)-Dissolved	0.00016	<T	0.000050	mg/L		17-MAR-20	R5028792
Lithium (Li)-Dissolved	0.0060	<DL	0.050	mg/L		17-MAR-20	R5028792
Magnesium (Mg)-Dissolved	21.7		0.020	mg/L		17-MAR-20	R5028792
Manganese (Mn)-Dissolved	0.139		0.0010	mg/L		17-MAR-20	R5028792
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031786
Molybdenum (Mo)-Dissolved	0.000274	<DL	0.0010	mg/L		17-MAR-20	R5028792
Nickel (Ni)-Dissolved	0.00188	<DL	0.0020	mg/L		17-MAR-20	R5028792
Phosphorus (P)-Dissolved	0.040	<DL	0.050	mg/L		17-MAR-20	R5028792
Potassium (K)-Dissolved	1.69		0.50	mg/L		17-MAR-20	R5028792
Rubidium (Rb)-Dissolved	0.00143		0.00020	mg/L		17-MAR-20	R5028792
Selenium (Se)-Dissolved	0.000195	<T	0.000050	mg/L		17-MAR-20	R5028792
Silicon (Si)-Dissolved	8.02		0.050	mg/L		17-MAR-20	R5028792
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-MAR-20	R5028792
Sodium (Na)-Dissolved	5.49		0.10	mg/L		17-MAR-20	R5028792
Strontium (Sr)-Dissolved	0.109		0.0010	mg/L		17-MAR-20	R5028792
Sulfur (S)-Dissolved	1.8		0.50	mg/L		17-MAR-20	R5028792
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028792
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-MAR-20	R5028792
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		17-MAR-20	R5028792
Tin (Sn)-Dissolved	0.000050	<DL	0.0010	mg/L		17-MAR-20	R5028792
Titanium (Ti)-Dissolved	0.00302		0.0020	mg/L		17-MAR-20	R5028792

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-8 SW23 Sampled By: Client on 10-MAR-20 @ 11:00 Matrix: Water							
Dissolved Metals							
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		17-MAR-20	R5028792
Uranium (U)-Dissolved	0.00129	<DL	0.0050	mg/L		17-MAR-20	R5028792
Vanadium (V)-Dissolved	0.00066	<DL	0.0010	mg/L		17-MAR-20	R5028792
Zinc (Zn)-Dissolved	0.0024	<DL	0.0030	mg/L		17-MAR-20	R5028792
Zirconium (Zr)-Dissolved	0.000540	<DL	0.0010	mg/L		17-MAR-20	R5028792
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-MAR-20	R5031826
Chemical Oxygen Demand	81		20	mg/L		16-MAR-20	R5027631
Oil and Grease, Total	<0.2	<W	1.0	mg/L	17-MAR-20	17-MAR-20	R5028562
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		01-APR-20	R5051188
L2427833-9 SW24 Sampled By: Client on 10-MAR-20 @ 11:30 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	5.17		0	mg/L		16-MAR-20	R5027595
pH, Client Supplied	7.26		0.10	pH		16-MAR-20	R5027595
Temperature, Client Supplied	0		0	Degree C		16-MAR-20	R5027595
Physical Tests							
Color, True	87.4		2.0	CU		14-MAR-20	R5026053
Conductivity (EC)	389		1.0	uS/cm		13-MAR-20	R5025955
Hardness (as CaCO3)	216		0.51	mg/L		18-MAR-20	
pH	7.35		0.10	pH		13-MAR-20	R5025955
Total Suspended Solids	22.0		2.0	mg/L		14-MAR-20	R5026749
Total Dissolved Solids	264		20	mg/L		16-MAR-20	R5028404
Turbidity	18.4		0.10	NTU		14-MAR-20	R5025936
Anions and Nutrients							
Acidity (as CaCO3)	11.6		2.0	mg/L		15-MAR-20	R5026747
Alkalinity, Total (as CaCO3)	196		2.0	mg/L		13-MAR-20	R5025955
Ammonia, Total (as N)	0.120	<T	0.020	mg/L		16-MAR-20	R5028160
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		17-MAR-20	
Chloride (Cl)	7.40		0.10	mg/L		16-MAR-20	R5028082
Fluoride (F)	0.023		0.020	mg/L		16-MAR-20	R5028082
Nitrate (as N)	0.191	<T	0.020	mg/L		16-MAR-20	R5028082
Nitrite (as N)	0.0080	<DL	0.010	mg/L		16-MAR-20	R5028082
Total Kjeldahl Nitrogen	1.20		0.18	mg/L	18-MAR-20	18-MAR-20	R5029667
Orthophosphate-Dissolved (as P)	0.0386		0.0030	mg/L		16-MAR-20	R5027388
Sulfate (SO4)	6.88		0.30	mg/L		16-MAR-20	R5028082
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		18-MAR-20	R5029808
Cyanide, Total	0.0008	<DL	0.0020	mg/L		17-MAR-20	R5029808
Cyanide, Free	0.0008	<DL	0.0020	mg/L		17-MAR-20	R5029808

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-9 SW24							
Sampled By: Client on 10-MAR-20 @ 11:30							
Matrix: Water							
Organic / Inorganic Carbon							
Dissolved Organic Carbon	27.9		0.50	mg/L		17-MAR-20	R5029248
Total Organic Carbon	29.5		0.50	mg/L		17-MAR-20	R5029230
Total Metals							
Aluminum (Al)-Total	0.622		0.0050	mg/L		17-MAR-20	R5028753
Antimony (Sb)-Total	0.000055	<DL	0.00060	mg/L		17-MAR-20	R5028753
Arsenic (As)-Total	0.00108	<T	0.0010	mg/L		17-MAR-20	R5028753
Barium (Ba)-Total	0.0217		0.010	mg/L		17-MAR-20	R5028753
Beryllium (Be)-Total	0.0000287	<DL	0.0010	mg/L		17-MAR-20	R5028753
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028753
Boron (B)-Total	0.0130	<DL	0.050	mg/L		17-MAR-20	R5028753
Cadmium (Cd)-Total	0.000010	<DL	0.000017	mg/L		17-MAR-20	R5028753
Calcium (Ca)-Total	53.9		0.20	mg/L		17-MAR-20	R5028753
Cesium (Cs)-Total	0.0000835		0.000010	mg/L		17-MAR-20	R5028753
Chromium (Cr)-Total	0.00120		0.0010	mg/L		17-MAR-20	R5028753
Cobalt (Co)-Total	0.000865	<T	0.00050	mg/L		17-MAR-20	R5028753
Copper (Cu)-Total	0.00160	<T	0.0010	mg/L		17-MAR-20	R5028753
Iron (Fe)-Total	1.93		0.020	mg/L		17-MAR-20	R5028753
Lead (Pb)-Total	0.00051	<T	0.000050	mg/L		17-MAR-20	R5028753
Lithium (Li)-Total	0.0068	<DL	0.050	mg/L		17-MAR-20	R5028753
Magnesium (Mg)-Total	21.9		0.020	mg/L		17-MAR-20	R5028753
Manganese (Mn)-Total	0.293		0.0010	mg/L		17-MAR-20	R5028753
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031787
Molybdenum (Mo)-Total	0.000310	<DL	0.0010	mg/L		17-MAR-20	R5028753
Nickel (Ni)-Total	0.00262	<T	0.0020	mg/L		17-MAR-20	R5028753
Phosphorus (P)-Total	0.085		0.050	mg/L		17-MAR-20	R5028753
Potassium (K)-Total	1.83		0.50	mg/L		17-MAR-20	R5028753
Rubidium (Rb)-Total	0.00279		0.00020	mg/L		17-MAR-20	R5028753
Selenium (Se)-Total	0.000180	<T	0.000050	mg/L		17-MAR-20	R5028753
Silicon (Si)-Total	9.40		0.10	mg/L		17-MAR-20	R5028753
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		17-MAR-20	R5028753
Sodium (Na)-Total	5.58		0.10	mg/L		17-MAR-20	R5028753
Strontium (Sr)-Total	0.112		0.0010	mg/L		17-MAR-20	R5028753
Sulfur (S)-Total	2.0		0.50	mg/L		17-MAR-20	R5028753
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		17-MAR-20	R5028753
Thallium (Tl)-Total	0.000005	<DL	0.00030	mg/L		17-MAR-20	R5028753
Thorium (Th)-Total	0.00009	<DL	0.00010	mg/L		17-MAR-20	R5028753
Tin (Sn)-Total	0.00016	<DL	0.0010	mg/L		17-MAR-20	R5028753
Titanium (Ti)-Total	0.0226		0.0020	mg/L		17-MAR-20	R5028753
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		17-MAR-20	R5028753
Uranium (U)-Total	0.00131	<DL	0.0050	mg/L		17-MAR-20	R5028753
Vanadium (V)-Total	0.00215	<T	0.0010	mg/L		17-MAR-20	R5028753

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-9 SW24							
Sampled By: Client on 10-MAR-20 @ 11:30							
Matrix: Water							
Total Metals							
Zinc (Zn)-Total	0.0075	<T	0.0030	mg/L		17-MAR-20	R5028753
Zirconium (Zr)-Total	0.00103		0.0010	mg/L		17-MAR-20	R5028753
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					17-MAR-20	R5028120
Aluminum (Al)-Dissolved	0.0232	<T	0.0050	mg/L		17-MAR-20	R5028792
Antimony (Sb)-Dissolved	0.000055	<DL	0.00060	mg/L		17-MAR-20	R5028792
Arsenic (As)-Dissolved	0.000888	<DL	0.0010	mg/L		17-MAR-20	R5028792
Barium (Ba)-Dissolved	0.0167		0.010	mg/L		17-MAR-20	R5028792
Beryllium (Be)-Dissolved	0.000008	<DL	0.0010	mg/L		17-MAR-20	R5028792
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Boron (B)-Dissolved	0.0115	<DL	0.050	mg/L		17-MAR-20	R5028792
Cadmium (Cd)-Dissolved	0.0000055	<DL	0.000017	mg/L		17-MAR-20	R5028792
Calcium (Ca)-Dissolved	51.0		0.20	mg/L		17-MAR-20	R5028792
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		17-MAR-20	R5028792
Chromium (Cr)-Dissolved	0.00023	<DL	0.0010	mg/L		17-MAR-20	R5028792
Cobalt (Co)-Dissolved	0.000346	<DL	0.00050	mg/L		17-MAR-20	R5028792
Copper (Cu)-Dissolved	0.00118	<T	0.0010	mg/L		17-MAR-20	R5028792
Iron (Fe)-Dissolved	0.803		0.020	mg/L		17-MAR-20	R5028792
Lead (Pb)-Dissolved	0.00016	<T	0.000050	mg/L		17-MAR-20	R5028792
Lithium (Li)-Dissolved	0.0062	<DL	0.050	mg/L		17-MAR-20	R5028792
Magnesium (Mg)-Dissolved	21.6		0.020	mg/L		17-MAR-20	R5028792
Manganese (Mn)-Dissolved	0.104		0.0010	mg/L		17-MAR-20	R5028792
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031786
Molybdenum (Mo)-Dissolved	0.000302	<DL	0.0010	mg/L		17-MAR-20	R5028792
Nickel (Ni)-Dissolved	0.00188	<DL	0.0020	mg/L		17-MAR-20	R5028792
Phosphorus (P)-Dissolved	0.040	<DL	0.050	mg/L		17-MAR-20	R5028792
Potassium (K)-Dissolved	1.70		0.50	mg/L		17-MAR-20	R5028792
Rubidium (Rb)-Dissolved	0.00150		0.00020	mg/L		17-MAR-20	R5028792
Selenium (Se)-Dissolved	0.000175	<T	0.000050	mg/L		17-MAR-20	R5028792
Silicon (Si)-Dissolved	8.19		0.050	mg/L		17-MAR-20	R5028792
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-MAR-20	R5028792
Sodium (Na)-Dissolved	5.70		0.10	mg/L		17-MAR-20	R5028792
Strontium (Sr)-Dissolved	0.107		0.0010	mg/L		17-MAR-20	R5028792
Sulfur (S)-Dissolved	2.0		0.50	mg/L		17-MAR-20	R5028792
Tellurium (Te)-Dissolved	0.00002	<DL	0.0010	mg/L		17-MAR-20	R5028792
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-MAR-20	R5028792
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		17-MAR-20	R5028792
Tin (Sn)-Dissolved	0.000015	<DL	0.0010	mg/L		17-MAR-20	R5028792
Titanium (Ti)-Dissolved	0.00288		0.0020	mg/L		17-MAR-20	R5028792
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		17-MAR-20	R5028792
Uranium (U)-Dissolved	0.00129	<DL	0.0050	mg/L		17-MAR-20	R5028792

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-9 SW24 Sampled By: Client on 10-MAR-20 @ 11:30 Matrix: Water							
Dissolved Metals							
Vanadium (V)-Dissolved	0.00068	<DL	0.0010	mg/L		17-MAR-20	R5028792
Zinc (Zn)-Dissolved	0.0038	<T	0.0030	mg/L		17-MAR-20	R5028792
Zirconium (Zr)-Dissolved	0.000542	<DL	0.0010	mg/L		17-MAR-20	R5028792
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-MAR-20	R5031826
Chemical Oxygen Demand	74		20	mg/L		16-MAR-20	R5027631
Oil and Grease, Total	<0.2	<W	1.0	mg/L	17-MAR-20	17-MAR-20	R5028562
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		01-APR-20	R5051188
L2427833-10 SW15 Sampled By: Client on 10-MAR-20 @ 12:30 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	6.13		0	mg/L		16-MAR-20	R5027595
pH, Client Supplied	7.05		0.10	pH		16-MAR-20	R5027595
Temperature, Client Supplied	.07		0	Degree C		16-MAR-20	R5027595
Physical Tests							
Color, True	94.3		2.0	CU		14-MAR-20	R5026053
Conductivity (EC)	258		1.0	uS/cm		13-MAR-20	R5025955
Hardness (as CaCO3)	154		0.51	mg/L		18-MAR-20	
pH	7.44		0.10	pH		13-MAR-20	R5025955
Total Suspended Solids	9.5		2.0	mg/L		16-MAR-20	R5028320
Total Dissolved Solids	188		13	mg/L		16-MAR-20	R5028404
Turbidity	10.9		0.10	NTU		14-MAR-20	R5025936
Anions and Nutrients							
Acidity (as CaCO3)	5.6		2.0	mg/L		15-MAR-20	R5026747
Alkalinity, Total (as CaCO3)	125		2.0	mg/L		13-MAR-20	R5025955
Ammonia, Total (as N)	0.044	<T	0.020	mg/L		16-MAR-20	R5028160
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		17-MAR-20	
Chloride (Cl)	4.21		0.10	mg/L		16-MAR-20	R5028082
Fluoride (F)	<0.020		0.020	mg/L		16-MAR-20	R5028082
Nitrate (as N)	0.224	<T	0.020	mg/L		16-MAR-20	R5028082
Nitrite (as N)	0.0035	<DL	0.010	mg/L		16-MAR-20	R5028082
Total Kjeldahl Nitrogen	0.75		0.18	mg/L	18-MAR-20	18-MAR-20	R5029667
Orthophosphate-Dissolved (as P)	0.0178		0.0030	mg/L		16-MAR-20	R5027388
Sulfate (SO4)	9.08		0.30	mg/L		16-MAR-20	R5028082
Cyanides							
Cyanide, Weak Acid Diss	0.0002	<DL	0.0020	mg/L		18-MAR-20	R5029808
Cyanide, Total	0.0004	<DL	0.0020	mg/L		17-MAR-20	R5029808
Cyanide, Free	0.0020		0.0020	mg/L		17-MAR-20	R5029808
Organic / Inorganic Carbon							
Dissolved Organic Carbon	24.3		0.50	mg/L		17-MAR-20	R5029248

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-10 SW15							
Sampled By: Client on 10-MAR-20 @ 12:30							
Matrix: Water							
Organic / Inorganic Carbon							
Total Organic Carbon	27.4		0.50	mg/L		17-MAR-20	R5029230
Total Metals							
Aluminum (Al)-Total	0.545		0.0050	mg/L		17-MAR-20	R5028753
Antimony (Sb)-Total	0.000050	<DL	0.00060	mg/L		17-MAR-20	R5028753
Arsenic (As)-Total	0.00100	<T	0.0010	mg/L		17-MAR-20	R5028753
Barium (Ba)-Total	0.0191		0.010	mg/L		17-MAR-20	R5028753
Beryllium (Be)-Total	0.0000333	<DL	0.0010	mg/L		17-MAR-20	R5028753
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028753
Boron (B)-Total	0.0125	<DL	0.050	mg/L		17-MAR-20	R5028753
Cadmium (Cd)-Total	0.000013	<DL	0.000017	mg/L		17-MAR-20	R5028753
Calcium (Ca)-Total	36.2		0.20	mg/L		17-MAR-20	R5028753
Cesium (Cs)-Total	0.0000760		0.000010	mg/L		17-MAR-20	R5028753
Chromium (Cr)-Total	0.00112		0.0010	mg/L		17-MAR-20	R5028753
Cobalt (Co)-Total	0.000465	<DL	0.00050	mg/L		17-MAR-20	R5028753
Copper (Cu)-Total	0.00202	<T	0.0010	mg/L		17-MAR-20	R5028753
Iron (Fe)-Total	1.24		0.020	mg/L		17-MAR-20	R5028753
Lead (Pb)-Total	0.00041	<T	0.000050	mg/L		17-MAR-20	R5028753
Lithium (Li)-Total	0.0062	<DL	0.050	mg/L		17-MAR-20	R5028753
Magnesium (Mg)-Total	16.2		0.020	mg/L		17-MAR-20	R5028753
Manganese (Mn)-Total	0.0946		0.0010	mg/L		17-MAR-20	R5028753
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031787
Molybdenum (Mo)-Total	0.000260	<DL	0.0010	mg/L		17-MAR-20	R5028753
Nickel (Ni)-Total	0.00210	<T	0.0020	mg/L		17-MAR-20	R5028753
Phosphorus (P)-Total	0.050		0.050	mg/L		17-MAR-20	R5028753
Potassium (K)-Total	1.49		0.50	mg/L		17-MAR-20	R5028753
Rubidium (Rb)-Total	0.00266		0.00020	mg/L		17-MAR-20	R5028753
Selenium (Se)-Total	0.000120	<T	0.000050	mg/L		17-MAR-20	R5028753
Silicon (Si)-Total	7.28		0.10	mg/L		17-MAR-20	R5028753
Silver (Ag)-Total	0.000004	<DL	0.00010	mg/L		17-MAR-20	R5028753
Sodium (Na)-Total	5.11		0.10	mg/L		17-MAR-20	R5028753
Strontium (Sr)-Total	0.0813		0.0010	mg/L		17-MAR-20	R5028753
Sulfur (S)-Total	2.8		0.50	mg/L		17-MAR-20	R5028753
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		17-MAR-20	R5028753
Thallium (Tl)-Total	0.000005	<DL	0.00030	mg/L		17-MAR-20	R5028753
Thorium (Th)-Total	0.00010		0.00010	mg/L		17-MAR-20	R5028753
Tin (Sn)-Total	0.00024	<DL	0.0010	mg/L		17-MAR-20	R5028753
Titanium (Ti)-Total	0.0208		0.0020	mg/L		17-MAR-20	R5028753
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		17-MAR-20	R5028753
Uranium (U)-Total	0.000885	<DL	0.0050	mg/L		17-MAR-20	R5028753
Vanadium (V)-Total	0.00180	<T	0.0010	mg/L		17-MAR-20	R5028753
Zinc (Zn)-Total	0.0080	<T	0.0030	mg/L		17-MAR-20	R5028753

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-10 SW15							
Sampled By: Client on 10-MAR-20 @ 12:30							
Matrix: Water							
Total Metals							
Zirconium (Zr)-Total	0.000790	<DL	0.0010	mg/L		17-MAR-20	R5028753
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					17-MAR-20	R5028120
Aluminum (Al)-Dissolved	0.0350		0.0050	mg/L		17-MAR-20	R5028792
Antimony (Sb)-Dissolved	0.000055	<DL	0.00060	mg/L		17-MAR-20	R5028792
Arsenic (As)-Dissolved	0.000781	<DL	0.0010	mg/L		17-MAR-20	R5028792
Barium (Ba)-Dissolved	0.0160		0.010	mg/L		17-MAR-20	R5028792
Beryllium (Be)-Dissolved	0.000008	<DL	0.0010	mg/L		17-MAR-20	R5028792
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Boron (B)-Dissolved	0.0115	<DL	0.050	mg/L		17-MAR-20	R5028792
Cadmium (Cd)-Dissolved	0.0000075	<DL	0.000017	mg/L		17-MAR-20	R5028792
Calcium (Ca)-Dissolved	35.9		0.20	mg/L		17-MAR-20	R5028792
Cesium (Cs)-Dissolved	0.0000005	<DL	0.000010	mg/L		17-MAR-20	R5028792
Chromium (Cr)-Dissolved	0.00024	<DL	0.0010	mg/L		17-MAR-20	R5028792
Cobalt (Co)-Dissolved	0.000238	<DL	0.00050	mg/L		17-MAR-20	R5028792
Copper (Cu)-Dissolved	0.00138	<T	0.0010	mg/L		17-MAR-20	R5028792
Iron (Fe)-Dissolved	0.511		0.020	mg/L		17-MAR-20	R5028792
Lead (Pb)-Dissolved	0.00015	<T	0.000050	mg/L		17-MAR-20	R5028792
Lithium (Li)-Dissolved	0.0060	<DL	0.050	mg/L		17-MAR-20	R5028792
Magnesium (Mg)-Dissolved	15.6		0.020	mg/L		17-MAR-20	R5028792
Manganese (Mn)-Dissolved	0.0775		0.0010	mg/L		17-MAR-20	R5028792
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031786
Molybdenum (Mo)-Dissolved	0.000236	<DL	0.0010	mg/L		17-MAR-20	R5028792
Nickel (Ni)-Dissolved	0.00144	<DL	0.0020	mg/L		17-MAR-20	R5028792
Phosphorus (P)-Dissolved	0.020	<DL	0.050	mg/L		17-MAR-20	R5028792
Potassium (K)-Dissolved	1.34		0.50	mg/L		17-MAR-20	R5028792
Rubidium (Rb)-Dissolved	0.00158		0.00020	mg/L		17-MAR-20	R5028792
Selenium (Se)-Dissolved	0.000135	<T	0.000050	mg/L		17-MAR-20	R5028792
Silicon (Si)-Dissolved	6.24		0.050	mg/L		17-MAR-20	R5028792
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-MAR-20	R5028792
Sodium (Na)-Dissolved	5.05		0.10	mg/L		17-MAR-20	R5028792
Strontium (Sr)-Dissolved	0.0783		0.0010	mg/L		17-MAR-20	R5028792
Sulfur (S)-Dissolved	2.4		0.50	mg/L		17-MAR-20	R5028792
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028792
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-MAR-20	R5028792
Thorium (Th)-Dissolved	0.00002	<DL	0.00010	mg/L		17-MAR-20	R5028792
Tin (Sn)-Dissolved	0.000025	<DL	0.0010	mg/L		17-MAR-20	R5028792
Titanium (Ti)-Dissolved	0.00408		0.0020	mg/L		17-MAR-20	R5028792
Tungsten (W)-Dissolved	0.000006	<DL	0.010	mg/L		17-MAR-20	R5028792
Uranium (U)-Dissolved	0.000860	<DL	0.0050	mg/L		17-MAR-20	R5028792
Vanadium (V)-Dissolved	0.00062	<DL	0.0010	mg/L		17-MAR-20	R5028792

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-10 SW15 Sampled By: Client on 10-MAR-20 @ 12:30 Matrix: Water							
Dissolved Metals							
Zinc (Zn)-Dissolved	0.0050	<T	0.0030	mg/L		17-MAR-20	R5028792
Zirconium (Zr)-Dissolved	0.000480	<DL	0.0010	mg/L		17-MAR-20	R5028792
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-MAR-20	R5031826
Chemical Oxygen Demand	72		20	mg/L		16-MAR-20	R5027631
Oil and Grease, Total	1.0		1.0	mg/L	17-MAR-20	17-MAR-20	R5028562
L2427833-11 SW17 Sampled By: Client on 10-MAR-20 @ 14:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	11.49		0	mg/L		16-MAR-20	R5027595
pH, Client Supplied	6.69		0.10	pH		16-MAR-20	R5027595
Temperature, Client Supplied	0		0	Degree C		16-MAR-20	R5027595
Physical Tests							
Color, True	44.5		2.0	CU		14-MAR-20	R5026053
Conductivity (EC)	85.8		1.0	uS/cm		13-MAR-20	R5025955
Hardness (as CaCO3)	39.4		0.51	mg/L		18-MAR-20	
pH	7.26		0.10	pH		13-MAR-20	R5025955
Total Suspended Solids	2.5	<T	2.0	mg/L		16-MAR-20	R5028320
Total Dissolved Solids	64		13	mg/L		16-MAR-20	R5028417
Turbidity	1.77		0.10	NTU		14-MAR-20	R5025936
Anions and Nutrients							
Acidity (as CaCO3)	1.8	<DL	2.0	mg/L		15-MAR-20	R5026747
Alkalinity, Total (as CaCO3)	36.2		2.0	mg/L		13-MAR-20	R5025955
Ammonia, Total (as N)	0.020	<T	0.020	mg/L		16-MAR-20	R5028160
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		17-MAR-20	
Chloride (Cl)	2.37		0.10	mg/L		16-MAR-20	R5028082
Fluoride (F)	0.040		0.020	mg/L		16-MAR-20	R5028082
Nitrate (as N)	0.102	<T	0.020	mg/L		16-MAR-20	R5028082
Nitrite (as N)	0.0010	<DL	0.010	mg/L		16-MAR-20	R5028082
Total Kjeldahl Nitrogen	0.40		0.18	mg/L	18-MAR-20	18-MAR-20	R5029667
Orthophosphate-Dissolved (as P)	0.0037		0.0030	mg/L		16-MAR-20	R5027388
Sulfate (SO4)	4.30	<T	0.30	mg/L		16-MAR-20	R5028082
Cyanides							
Cyanide, Weak Acid Diss	0.0003	<DL	0.0020	mg/L		18-MAR-20	R5029808
Cyanide, Total	<0.0002	<W	0.0020	mg/L		17-MAR-20	R5029808
Cyanide, Free	0.0008	<DL	0.0020	mg/L		17-MAR-20	R5029808
Organic / Inorganic Carbon							
Dissolved Organic Carbon	12.9		0.50	mg/L		20-MAR-20	R5034009
Total Organic Carbon	14.1		0.50	mg/L		20-MAR-20	R5033997
Total Metals							
Aluminum (Al)-Total	0.0986		0.0050	mg/L		17-MAR-20	R5028753

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-11 SW17							
Sampled By: Client on 10-MAR-20 @ 14:00							
Matrix: Water							
Total Metals							
Antimony (Sb)-Total	0.000035	<DL	0.00060	mg/L		17-MAR-20	R5028753
Arsenic (As)-Total	0.00041	<DL	0.0010	mg/L		17-MAR-20	R5028753
Barium (Ba)-Total	0.0108		0.010	mg/L		17-MAR-20	R5028753
Beryllium (Be)-Total	0.0000041	<DL	0.0010	mg/L		17-MAR-20	R5028753
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028753
Boron (B)-Total	0.0065	<DL	0.050	mg/L		17-MAR-20	R5028753
Cadmium (Cd)-Total	0.000004	<DL	0.000017	mg/L		17-MAR-20	R5028753
Calcium (Ca)-Total	10.2		0.20	mg/L		17-MAR-20	R5028753
Cesium (Cs)-Total	0.0000110		0.000010	mg/L		17-MAR-20	R5028753
Chromium (Cr)-Total	0.00034	<DL	0.0010	mg/L		17-MAR-20	R5028753
Cobalt (Co)-Total	0.000070	<DL	0.00050	mg/L		17-MAR-20	R5028753
Copper (Cu)-Total	0.00088	<DL	0.0010	mg/L		17-MAR-20	R5028753
Iron (Fe)-Total	0.246		0.020	mg/L		17-MAR-20	R5028753
Lead (Pb)-Total	0.00007	<T	0.000050	mg/L		17-MAR-20	R5028753
Lithium (Li)-Total	0.0012	<DL	0.050	mg/L		17-MAR-20	R5028753
Magnesium (Mg)-Total	3.45		0.020	mg/L		17-MAR-20	R5028753
Manganese (Mn)-Total	0.0166		0.0010	mg/L		17-MAR-20	R5028753
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031787
Molybdenum (Mo)-Total	0.000175	<DL	0.0010	mg/L		17-MAR-20	R5028753
Nickel (Ni)-Total	0.00088	<DL	0.0020	mg/L		17-MAR-20	R5028753
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		17-MAR-20	R5028753
Potassium (K)-Total	0.91		0.50	mg/L		17-MAR-20	R5028753
Rubidium (Rb)-Total	0.00185		0.00020	mg/L		17-MAR-20	R5028753
Selenium (Se)-Total	0.000095	<T	0.000050	mg/L		17-MAR-20	R5028753
Silicon (Si)-Total	2.77		0.10	mg/L		17-MAR-20	R5028753
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		17-MAR-20	R5028753
Sodium (Na)-Total	3.49		0.10	mg/L		17-MAR-20	R5028753
Strontium (Sr)-Total	0.0272		0.0010	mg/L		17-MAR-20	R5028753
Sulfur (S)-Total	1.4		0.50	mg/L		17-MAR-20	R5028753
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		17-MAR-20	R5028753
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		17-MAR-20	R5028753
Thorium (Th)-Total	<0.00001	<W	0.00010	mg/L		17-MAR-20	R5028753
Tin (Sn)-Total	0.00006	<DL	0.0010	mg/L		17-MAR-20	R5028753
Titanium (Ti)-Total	0.00248	<DL	0.0034	mg/L		17-MAR-20	R5028753
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		17-MAR-20	R5028753
Uranium (U)-Total	0.0000990	<DL	0.0050	mg/L		17-MAR-20	R5028753
Vanadium (V)-Total	0.00030	<DL	0.0010	mg/L		17-MAR-20	R5028753
Zinc (Zn)-Total	0.0030	<T	0.0030	mg/L		17-MAR-20	R5028753
Zirconium (Zr)-Total	0.000178	<DL	0.0010	mg/L		17-MAR-20	R5028753
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					17-MAR-20	R5028120

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-11 SW17							
Sampled By: Client on 10-MAR-20 @ 14:00							
Matrix: Water							
Dissolved Metals							
Aluminum (Al)-Dissolved	0.0330		0.0050	mg/L		17-MAR-20	R5028792
Antimony (Sb)-Dissolved	0.000035	<DL	0.00060	mg/L		17-MAR-20	R5028792
Arsenic (As)-Dissolved	0.000419	<DL	0.0010	mg/L		17-MAR-20	R5028792
Barium (Ba)-Dissolved	0.0103		0.010	mg/L		17-MAR-20	R5028792
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Boron (B)-Dissolved	0.0055	<DL	0.050	mg/L		17-MAR-20	R5028792
Cadmium (Cd)-Dissolved	0.0000030	<DL	0.000017	mg/L		17-MAR-20	R5028792
Calcium (Ca)-Dissolved	10.1		0.20	mg/L		17-MAR-20	R5028792
Cesium (Cs)-Dissolved	0.0000015	<DL	0.000010	mg/L		17-MAR-20	R5028792
Chromium (Cr)-Dissolved	0.00024	<DL	0.0010	mg/L		17-MAR-20	R5028792
Cobalt (Co)-Dissolved	0.000036	<DL	0.00050	mg/L		17-MAR-20	R5028792
Copper (Cu)-Dissolved	0.00086	<DL	0.0010	mg/L		17-MAR-20	R5028792
Iron (Fe)-Dissolved	0.140		0.020	mg/L		17-MAR-20	R5028792
Lead (Pb)-Dissolved	0.00003	<DL	0.000050	mg/L		17-MAR-20	R5028792
Lithium (Li)-Dissolved	0.0012	<DL	0.050	mg/L		17-MAR-20	R5028792
Magnesium (Mg)-Dissolved	3.45		0.020	mg/L		17-MAR-20	R5028792
Manganese (Mn)-Dissolved	0.0103		0.0010	mg/L		17-MAR-20	R5028792
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031786
Molybdenum (Mo)-Dissolved	0.000150	<DL	0.0010	mg/L		17-MAR-20	R5028792
Nickel (Ni)-Dissolved	0.00076	<DL	0.0020	mg/L		17-MAR-20	R5028792
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		17-MAR-20	R5028792
Potassium (K)-Dissolved	0.90		0.50	mg/L		17-MAR-20	R5028792
Rubidium (Rb)-Dissolved	0.00182		0.00020	mg/L		17-MAR-20	R5028792
Selenium (Se)-Dissolved	0.000100	<T	0.000050	mg/L		17-MAR-20	R5028792
Silicon (Si)-Dissolved	2.67		0.050	mg/L		17-MAR-20	R5028792
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-MAR-20	R5028792
Sodium (Na)-Dissolved	3.45		0.10	mg/L		17-MAR-20	R5028792
Strontium (Sr)-Dissolved	0.0277		0.0010	mg/L		17-MAR-20	R5028792
Sulfur (S)-Dissolved	1.2		0.50	mg/L		17-MAR-20	R5028792
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028792
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-MAR-20	R5028792
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		17-MAR-20	R5028792
Tin (Sn)-Dissolved	0.000020	<DL	0.0010	mg/L		17-MAR-20	R5028792
Titanium (Ti)-Dissolved	0.00066	<DL	0.0020	mg/L		17-MAR-20	R5028792
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		17-MAR-20	R5028792
Uranium (U)-Dissolved	0.000100	<DL	0.0050	mg/L		17-MAR-20	R5028792
Vanadium (V)-Dissolved	0.00024	<DL	0.0010	mg/L		17-MAR-20	R5028792
Zinc (Zn)-Dissolved	0.0018	<DL	0.0030	mg/L		17-MAR-20	R5028792
Zirconium (Zr)-Dissolved	0.000156	<DL	0.0010	mg/L		17-MAR-20	R5028792
Aggregate Organics							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-11 SW17 Sampled By: Client on 10-MAR-20 @ 14:00 Matrix: Water							
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-MAR-20	R5031826
Chemical Oxygen Demand	33		20	mg/L		16-MAR-20	R5027631
Oil and Grease, Total	0.4	<DL	1.0	mg/L	17-MAR-20	17-MAR-20	R5028562
L2427833-12 SW29 Sampled By: Client on 11-MAR-20 @ 12:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	.7		0	mg/L		16-MAR-20	R5027595
pH, Client Supplied	6.38		0.10	pH		16-MAR-20	R5027595
Temperature, Client Supplied	.06		0	Degree C		16-MAR-20	R5027595
Physical Tests							
Color, True	189		2.0	CU		14-MAR-20	R5026053
Conductivity (EC)	275		1.0	uS/cm		13-MAR-20	R5025955
Hardness (as CaCO3)	162		0.51	mg/L		18-MAR-20	
pH	7.00		0.10	pH		13-MAR-20	R5025955
Total Suspended Solids	7.0		2.0	mg/L		16-MAR-20	R5028320
Total Dissolved Solids	218		20	mg/L		16-MAR-20	R5028404
Turbidity	5.97		0.10	NTU		14-MAR-20	R5025936
Anions and Nutrients							
Acidity (as CaCO3)	16.4		2.0	mg/L		15-MAR-20	R5026747
Alkalinity, Total (as CaCO3)	147		2.0	mg/L		13-MAR-20	R5025955
Ammonia, Total (as N)	0.544		0.020	mg/L		16-MAR-20	R5028160
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		17-MAR-20	
Chloride (Cl)	0.84		0.10	mg/L		16-MAR-20	R5028082
Fluoride (F)	<0.020		0.020	mg/L		16-MAR-20	R5028082
Nitrate (as N)	0.015	<DL	0.020	mg/L		16-MAR-20	R5028082
Nitrite (as N)	0.0030	<DL	0.010	mg/L		16-MAR-20	R5028082
Total Kjeldahl Nitrogen	2.00		0.18	mg/L	18-MAR-20	18-MAR-20	R5029667
Orthophosphate-Dissolved (as P)	0.0620		0.0030	mg/L		16-MAR-20	R5027388
Sulfate (SO4)	2.98	<T	0.30	mg/L		16-MAR-20	R5028082
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		18-MAR-20	R5029808
Cyanide, Total	0.0008	<DL	0.0020	mg/L		17-MAR-20	R5029808
Cyanide, Free	0.0011	<DL	0.0020	mg/L		17-MAR-20	R5029808
Organic / Inorganic Carbon							
Dissolved Organic Carbon	40.0		0.50	mg/L		17-MAR-20	R5029248
Total Organic Carbon	35.8		0.50	mg/L		25-MAR-20	R5040493
Total Metals							
Aluminum (Al)-Total	0.203		0.0050	mg/L		17-MAR-20	R5028753
Antimony (Sb)-Total	0.000045	<DL	0.00060	mg/L		17-MAR-20	R5028753
Arsenic (As)-Total	0.00133	<T	0.0010	mg/L		17-MAR-20	R5028753
Barium (Ba)-Total	0.0240		0.010	mg/L		17-MAR-20	R5028753

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-12 SW29							
Sampled By: Client on 11-MAR-20 @ 12:00							
Matrix: Water							
Total Metals							
Beryllium (Be)-Total	0.0000130	<DL	0.0010	mg/L		17-MAR-20	R5028753
Bismuth (Bi)-Total	0.00002	<DL	0.0010	mg/L		17-MAR-20	R5028753
Boron (B)-Total	0.0085	<DL	0.050	mg/L		17-MAR-20	R5028753
Cadmium (Cd)-Total	0.000007	<DL	0.000017	mg/L		17-MAR-20	R5028753
Calcium (Ca)-Total	37.6		0.20	mg/L		17-MAR-20	R5028753
Cesium (Cs)-Total	0.0000225		0.000010	mg/L		17-MAR-20	R5028753
Chromium (Cr)-Total	0.00042	<DL	0.0010	mg/L		17-MAR-20	R5028753
Cobalt (Co)-Total	0.00205	<T	0.00050	mg/L		17-MAR-20	R5028753
Copper (Cu)-Total	0.00042	<DL	0.0010	mg/L		17-MAR-20	R5028753
Iron (Fe)-Total	2.56		0.020	mg/L		17-MAR-20	R5028753
Lead (Pb)-Total	0.00024	<T	0.000050	mg/L		17-MAR-20	R5028753
Lithium (Li)-Total	0.0056	<DL	0.050	mg/L		17-MAR-20	R5028753
Magnesium (Mg)-Total	16.7		0.020	mg/L		17-MAR-20	R5028753
Manganese (Mn)-Total	1.51		0.0010	mg/L		17-MAR-20	R5028753
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031787
Molybdenum (Mo)-Total	0.000115	<DL	0.0010	mg/L		17-MAR-20	R5028753
Nickel (Ni)-Total	0.00152	<DL	0.0020	mg/L		17-MAR-20	R5028753
Phosphorus (P)-Total	0.125		0.050	mg/L		17-MAR-20	R5028753
Potassium (K)-Total	1.43		0.50	mg/L		17-MAR-20	R5028753
Rubidium (Rb)-Total	0.00224		0.00020	mg/L		17-MAR-20	R5028753
Selenium (Se)-Total	0.000145	<T	0.000050	mg/L		17-MAR-20	R5028753
Silicon (Si)-Total	9.85		0.10	mg/L		17-MAR-20	R5028753
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		17-MAR-20	R5028753
Sodium (Na)-Total	2.74		0.10	mg/L		17-MAR-20	R5028753
Strontium (Sr)-Total	0.0712		0.0010	mg/L		17-MAR-20	R5028753
Sulfur (S)-Total	0.8		0.50	mg/L		17-MAR-20	R5028753
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		17-MAR-20	R5028753
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		17-MAR-20	R5028753
Thorium (Th)-Total	0.00003	<DL	0.00010	mg/L		17-MAR-20	R5028753
Tin (Sn)-Total	0.00012	<DL	0.0010	mg/L		17-MAR-20	R5028753
Titanium (Ti)-Total	0.00652		0.0020	mg/L		17-MAR-20	R5028753
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		17-MAR-20	R5028753
Uranium (U)-Total	0.000154	<DL	0.0050	mg/L		17-MAR-20	R5028753
Vanadium (V)-Total	0.00075	<DL	0.0010	mg/L		17-MAR-20	R5028753
Zinc (Zn)-Total	0.0090	<T	0.0030	mg/L		17-MAR-20	R5028753
Zirconium (Zr)-Total	0.000452	<DL	0.0010	mg/L		17-MAR-20	R5028753
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					17-MAR-20	R5028120
Aluminum (Al)-Dissolved	0.0536		0.0050	mg/L		17-MAR-20	R5028792
Antimony (Sb)-Dissolved	0.000035	<DL	0.00060	mg/L		17-MAR-20	R5028792
Arsenic (As)-Dissolved	0.00140	<T	0.0010	mg/L		17-MAR-20	R5028792

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-12 SW29							
Sampled By: Client on 11-MAR-20 @ 12:00							
Matrix: Water							
Dissolved Metals							
Barium (Ba)-Dissolved	0.0182		0.010	mg/L		17-MAR-20	R5028792
Beryllium (Be)-Dissolved	0.000012	<DL	0.0010	mg/L		17-MAR-20	R5028792
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Boron (B)-Dissolved	0.0080	<DL	0.050	mg/L		17-MAR-20	R5028792
Cadmium (Cd)-Dissolved	0.0000045	<DL	0.000017	mg/L		17-MAR-20	R5028792
Calcium (Ca)-Dissolved	37.3		0.20	mg/L		17-MAR-20	R5028792
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		17-MAR-20	R5028792
Chromium (Cr)-Dissolved	0.00026	<DL	0.0010	mg/L		17-MAR-20	R5028792
Cobalt (Co)-Dissolved	0.00169	<T	0.00050	mg/L		17-MAR-20	R5028792
Copper (Cu)-Dissolved	0.00022	<DL	0.0010	mg/L		17-MAR-20	R5028792
Iron (Fe)-Dissolved	2.01		0.020	mg/L		17-MAR-20	R5028792
Lead (Pb)-Dissolved	0.00015	<T	0.000050	mg/L		17-MAR-20	R5028792
Lithium (Li)-Dissolved	0.0058	<DL	0.050	mg/L		17-MAR-20	R5028792
Magnesium (Mg)-Dissolved	16.7		0.020	mg/L		17-MAR-20	R5028792
Manganese (Mn)-Dissolved	1.28		0.0010	mg/L		17-MAR-20	R5028792
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031786
Molybdenum (Mo)-Dissolved	0.000102	<DL	0.0010	mg/L		17-MAR-20	R5028792
Nickel (Ni)-Dissolved	0.00138	<DL	0.0020	mg/L		17-MAR-20	R5028792
Phosphorus (P)-Dissolved	0.085		0.050	mg/L		17-MAR-20	R5028792
Potassium (K)-Dissolved	1.37		0.50	mg/L		17-MAR-20	R5028792
Rubidium (Rb)-Dissolved	0.00188		0.00020	mg/L		17-MAR-20	R5028792
Selenium (Se)-Dissolved	0.000145	<T	0.000050	mg/L		17-MAR-20	R5028792
Silicon (Si)-Dissolved	9.85		0.050	mg/L		17-MAR-20	R5028792
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-MAR-20	R5028792
Sodium (Na)-Dissolved	2.67		0.10	mg/L		17-MAR-20	R5028792
Strontium (Sr)-Dissolved	0.0660		0.0010	mg/L		17-MAR-20	R5028792
Sulfur (S)-Dissolved	0.6		0.50	mg/L		17-MAR-20	R5028792
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028792
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-MAR-20	R5028792
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		17-MAR-20	R5028792
Tin (Sn)-Dissolved	0.000020	<DL	0.0010	mg/L		17-MAR-20	R5028792
Titanium (Ti)-Dissolved	0.00240		0.0020	mg/L		17-MAR-20	R5028792
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		17-MAR-20	R5028792
Uranium (U)-Dissolved	0.000143	<DL	0.0050	mg/L		17-MAR-20	R5028792
Vanadium (V)-Dissolved	0.00050	<DL	0.0010	mg/L		17-MAR-20	R5028792
Zinc (Zn)-Dissolved	0.0080	<T	0.0030	mg/L		17-MAR-20	R5028792
Zirconium (Zr)-Dissolved	0.000420	<DL	0.0010	mg/L		17-MAR-20	R5028792
Aggregate Organics							
Biochemical Oxygen Demand	3.3		2.0	mg/L		14-MAR-20	R5031826
Chemical Oxygen Demand	113		20	mg/L		16-MAR-20	R5027631
Oil and Grease, Total	<0.2	<W	1.0	mg/L	17-MAR-20	17-MAR-20	R5028562

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-13 SW21A							
Sampled By: Client on 11-MAR-20 @ 12:45							
Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	4.97		0	mg/L		16-MAR-20	R5027595
pH, Client Supplied	6.92		0.10	pH		16-MAR-20	R5027595
Temperature, Client Supplied	0		0	Degree C		16-MAR-20	R5027595
Physical Tests							
Color, True	91.0		2.0	CU		14-MAR-20	R5026053
Conductivity (EC)	421		1.0	uS/cm		13-MAR-20	R5025955
Hardness (as CaCO3)	225		0.51	mg/L		18-MAR-20	
pH	7.34		0.10	pH		13-MAR-20	R5025955
Total Suspended Solids	8.0		2.0	mg/L		16-MAR-20	R5028320
Total Dissolved Solids	284		20	mg/L		16-MAR-20	R5028417
Turbidity	6.14		0.10	NTU		14-MAR-20	R5025936
Anions and Nutrients							
Acidity (as CaCO3)	12.0		2.0	mg/L		15-MAR-20	R5026747
Alkalinity, Total (as CaCO3)	218		2.0	mg/L		13-MAR-20	R5025955
Ammonia, Total (as N)	0.090	<T	0.020	mg/L		16-MAR-20	R5028160
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		17-MAR-20	
Chloride (Cl)	9.87		0.10	mg/L		16-MAR-20	R5028082
Fluoride (F)	0.023		0.020	mg/L		16-MAR-20	R5028082
Nitrate (as N)	0.064	<T	0.020	mg/L		16-MAR-20	R5028082
Nitrite (as N)	0.0025	<DL	0.010	mg/L		16-MAR-20	R5028082
Total Kjeldahl Nitrogen	1.05		0.18	mg/L	18-MAR-20	18-MAR-20	R5029667
Orthophosphate-Dissolved (as P)	0.0584		0.0030	mg/L		16-MAR-20	R5027388
Sulfate (SO4)	7.90		0.30	mg/L		16-MAR-20	R5028082
Cyanides							
Cyanide, Weak Acid Diss	0.0003	<DL	0.0020	mg/L		18-MAR-20	R5029808
Cyanide, Total	0.0004	<DL	0.0020	mg/L		17-MAR-20	R5029808
Cyanide, Free	0.0020		0.0020	mg/L		17-MAR-20	R5029808
Organic / Inorganic Carbon							
Dissolved Organic Carbon	27.8		0.50	mg/L		17-MAR-20	R5029248
Total Organic Carbon	30.4		0.50	mg/L		17-MAR-20	R5029230
Total Metals							
Aluminum (Al)-Total	0.209		0.0050	mg/L		17-MAR-20	R5028753
Antimony (Sb)-Total	0.000050	<DL	0.00060	mg/L		17-MAR-20	R5028753
Arsenic (As)-Total	0.00094	<DL	0.0010	mg/L		17-MAR-20	R5028753
Barium (Ba)-Total	0.0166		0.010	mg/L		17-MAR-20	R5028753
Beryllium (Be)-Total	0.0000199	<DL	0.0010	mg/L		17-MAR-20	R5028753
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028753
Boron (B)-Total	0.0150	<DL	0.050	mg/L		17-MAR-20	R5028753
Cadmium (Cd)-Total	0.000008	<DL	0.000017	mg/L		17-MAR-20	R5028753
Calcium (Ca)-Total	54.0		0.20	mg/L		17-MAR-20	R5028753
Cesium (Cs)-Total	0.0000260		0.000010	mg/L		17-MAR-20	R5028753
Chromium (Cr)-Total	0.00052	<DL	0.0010	mg/L		17-MAR-20	R5028753

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-13 SW21A							
Sampled By: Client on 11-MAR-20 @ 12:45							
Matrix: Water							
Total Metals							
Cobalt (Co)-Total	0.000665	<T	0.00050	mg/L		17-MAR-20	R5028753
Copper (Cu)-Total	0.00068	<DL	0.0010	mg/L		17-MAR-20	R5028753
Iron (Fe)-Total	1.35		0.020	mg/L		17-MAR-20	R5028753
Lead (Pb)-Total	0.00018	<T	0.000050	mg/L		17-MAR-20	R5028753
Lithium (Li)-Total	0.0080	<DL	0.050	mg/L		17-MAR-20	R5028753
Magnesium (Mg)-Total	22.0		0.020	mg/L		17-MAR-20	R5028753
Manganese (Mn)-Total	0.287		0.0010	mg/L		17-MAR-20	R5028753
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031787
Molybdenum (Mo)-Total	0.000235	<DL	0.0010	mg/L		17-MAR-20	R5028753
Nickel (Ni)-Total	0.00208	<T	0.0020	mg/L		17-MAR-20	R5028753
Phosphorus (P)-Total	0.090		0.050	mg/L		17-MAR-20	R5028753
Potassium (K)-Total	1.95		0.50	mg/L		17-MAR-20	R5028753
Rubidium (Rb)-Total	0.00183		0.00020	mg/L		17-MAR-20	R5028753
Selenium (Se)-Total	0.000180	<T	0.000050	mg/L		17-MAR-20	R5028753
Silicon (Si)-Total	8.36		0.10	mg/L		17-MAR-20	R5028753
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		17-MAR-20	R5028753
Sodium (Na)-Total	7.42		0.10	mg/L		17-MAR-20	R5028753
Strontium (Sr)-Total	0.135		0.0010	mg/L		17-MAR-20	R5028753
Sulfur (S)-Total	2.6		0.50	mg/L		17-MAR-20	R5028753
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		17-MAR-20	R5028753
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		17-MAR-20	R5028753
Thorium (Th)-Total	0.00002	<DL	0.00010	mg/L		17-MAR-20	R5028753
Tin (Sn)-Total	0.00008	<DL	0.0010	mg/L		17-MAR-20	R5028753
Titanium (Ti)-Total	0.00759		0.0020	mg/L		17-MAR-20	R5028753
Tungsten (W)-Total	0.00002	<DL	0.010	mg/L		17-MAR-20	R5028753
Uranium (U)-Total	0.00116	<DL	0.0050	mg/L		17-MAR-20	R5028753
Vanadium (V)-Total	0.00095	<DL	0.0010	mg/L		17-MAR-20	R5028753
Zinc (Zn)-Total	0.0020	<DL	0.0030	mg/L		17-MAR-20	R5028753
Zirconium (Zr)-Total	0.000738	<DL	0.0010	mg/L		17-MAR-20	R5028753
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					17-MAR-20	R5028120
Aluminum (Al)-Dissolved	0.0150	<T	0.0050	mg/L		17-MAR-20	R5028792
Antimony (Sb)-Dissolved	0.000050	<DL	0.00060	mg/L		17-MAR-20	R5028792
Arsenic (As)-Dissolved	0.000889	<DL	0.0010	mg/L		17-MAR-20	R5028792
Barium (Ba)-Dissolved	0.0144		0.010	mg/L		17-MAR-20	R5028792
Beryllium (Be)-Dissolved	0.000010	<DL	0.0010	mg/L		17-MAR-20	R5028792
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Boron (B)-Dissolved	0.0145	<DL	0.050	mg/L		17-MAR-20	R5028792
Cadmium (Cd)-Dissolved	0.0000035	<DL	0.000017	mg/L		17-MAR-20	R5028792
Calcium (Ca)-Dissolved	52.8		0.20	mg/L		17-MAR-20	R5028792
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		17-MAR-20	R5028792

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-13 SW21A Sampled By: Client on 11-MAR-20 @ 12:45 Matrix: Water							
Dissolved Metals							
Chromium (Cr)-Dissolved	0.00021	<DL	0.0010	mg/L		17-MAR-20	R5028792
Cobalt (Co)-Dissolved	0.000310	<DL	0.00050	mg/L		17-MAR-20	R5028792
Copper (Cu)-Dissolved	0.00058	<DL	0.0010	mg/L		17-MAR-20	R5028792
Iron (Fe)-Dissolved	0.752		0.020	mg/L		17-MAR-20	R5028792
Lead (Pb)-Dissolved	0.00007	<T	0.000050	mg/L		17-MAR-20	R5028792
Lithium (Li)-Dissolved	0.0076	<DL	0.050	mg/L		17-MAR-20	R5028792
Magnesium (Mg)-Dissolved	22.6		0.020	mg/L		17-MAR-20	R5028792
Manganese (Mn)-Dissolved	0.0934		0.0010	mg/L		17-MAR-20	R5028792
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031786
Molybdenum (Mo)-Dissolved	0.000222	<DL	0.0010	mg/L		17-MAR-20	R5028792
Nickel (Ni)-Dissolved	0.00180	<DL	0.0020	mg/L		17-MAR-20	R5028792
Phosphorus (P)-Dissolved	0.070		0.050	mg/L		17-MAR-20	R5028792
Potassium (K)-Dissolved	1.96		0.50	mg/L		17-MAR-20	R5028792
Rubidium (Rb)-Dissolved	0.00138		0.00020	mg/L		17-MAR-20	R5028792
Selenium (Se)-Dissolved	0.000190	<T	0.000050	mg/L		17-MAR-20	R5028792
Silicon (Si)-Dissolved	8.27		0.050	mg/L		17-MAR-20	R5028792
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-MAR-20	R5028792
Sodium (Na)-Dissolved	7.53		0.10	mg/L		17-MAR-20	R5028792
Strontium (Sr)-Dissolved	0.133		0.0010	mg/L		17-MAR-20	R5028792
Sulfur (S)-Dissolved	2.6		0.50	mg/L		17-MAR-20	R5028792
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028792
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-MAR-20	R5028792
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		17-MAR-20	R5028792
Tin (Sn)-Dissolved	0.000015	<DL	0.0010	mg/L		17-MAR-20	R5028792
Titanium (Ti)-Dissolved	0.00140	<DL	0.0020	mg/L		17-MAR-20	R5028792
Tungsten (W)-Dissolved	0.000006	<DL	0.010	mg/L		17-MAR-20	R5028792
Uranium (U)-Dissolved	0.00115	<DL	0.0050	mg/L		17-MAR-20	R5028792
Vanadium (V)-Dissolved	0.00054	<DL	0.0010	mg/L		17-MAR-20	R5028792
Zinc (Zn)-Dissolved	0.0006	<DL	0.0030	mg/L		17-MAR-20	R5028792
Zirconium (Zr)-Dissolved	0.000470	<DL	0.0010	mg/L		17-MAR-20	R5028792
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-MAR-20	R5031826
Chemical Oxygen Demand	76		20	mg/L		16-MAR-20	R5027631
Oil and Grease, Total	0.6	<DL	1.0	mg/L	17-MAR-20	17-MAR-20	R5028562
L2427833-14 SW27 Sampled By: Client on 11-MAR-20 @ 12:55 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	11.61		0	mg/L		16-MAR-20	R5027595
pH, Client Supplied	7.31		0.10	pH		16-MAR-20	R5027595
Temperature, Client Supplied	0		0	Degree C		16-MAR-20	R5027595
Physical Tests							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-14 SW27							
Sampled By: Client on 11-MAR-20 @ 12:55							
Matrix: Water							
Physical Tests							
Color, True	74.2		2.0	CU		14-MAR-20	R5026053
Conductivity (EC)	407		1.0	uS/cm		13-MAR-20	R5025955
Hardness (as CaCO3)	204		0.51	mg/L		18-MAR-20	
pH	7.66		0.10	pH		13-MAR-20	R5025955
Total Suspended Solids	10.5		2.0	mg/L		16-MAR-20	R5028320
Total Dissolved Solids	258		20	mg/L		16-MAR-20	R5028417
Turbidity	10.7		0.10	NTU		14-MAR-20	R5025936
Anions and Nutrients							
Acidity (as CaCO3)	4.0		2.0	mg/L		15-MAR-20	R5026747
Alkalinity, Total (as CaCO3)	164		2.0	mg/L		13-MAR-20	R5025955
Ammonia, Total (as N)	0.088	<T	0.020	mg/L		16-MAR-20	R5028160
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		17-MAR-20	
Chloride (Cl)	20.1		0.10	mg/L		16-MAR-20	R5028082
Fluoride (F)	0.026		0.020	mg/L		16-MAR-20	R5028082
Nitrate (as N)	0.184	<T	0.020	mg/L		16-MAR-20	R5028082
Nitrite (as N)	0.0025	<DL	0.010	mg/L		16-MAR-20	R5028082
Total Kjeldahl Nitrogen	0.80		0.18	mg/L	18-MAR-20	18-MAR-20	R5029667
Orthophosphate-Dissolved (as P)	0.0070		0.0030	mg/L		16-MAR-20	R5027388
Sulfate (SO4)	11.5		0.30	mg/L		16-MAR-20	R5028082
Cyanides							
Cyanide, Weak Acid Diss	0.0006	<DL	0.0020	mg/L		18-MAR-20	R5029808
Cyanide, Total	0.0006	<DL	0.0020	mg/L		17-MAR-20	R5029808
Cyanide, Free	0.0020		0.0020	mg/L		17-MAR-20	R5029808
Organic / Inorganic Carbon							
Dissolved Organic Carbon	21.9		0.50	mg/L		17-MAR-20	R5029248
Total Organic Carbon	23.3		0.50	mg/L		17-MAR-20	R5029230
Total Metals							
Aluminum (Al)-Total	0.491		0.0050	mg/L		17-MAR-20	R5028753
Antimony (Sb)-Total	0.000085	<DL	0.00060	mg/L		17-MAR-20	R5028753
Arsenic (As)-Total	0.00095	<DL	0.0010	mg/L		17-MAR-20	R5028753
Barium (Ba)-Total	0.0259		0.010	mg/L		17-MAR-20	R5028753
Beryllium (Be)-Total	0.0000234	<DL	0.0010	mg/L		17-MAR-20	R5028753
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028753
Boron (B)-Total	0.0120	<DL	0.050	mg/L		17-MAR-20	R5028753
Cadmium (Cd)-Total	0.000016	<DL	0.000017	mg/L		17-MAR-20	R5028753
Calcium (Ca)-Total	50.6		0.20	mg/L		17-MAR-20	R5028753
Cesium (Cs)-Total	0.0000595		0.000010	mg/L		17-MAR-20	R5028753
Chromium (Cr)-Total	0.00080	<DL	0.0010	mg/L		17-MAR-20	R5028753
Cobalt (Co)-Total	0.000600	<T	0.00050	mg/L		17-MAR-20	R5028753
Copper (Cu)-Total	0.00244	<T	0.0010	mg/L		17-MAR-20	R5028753
Iron (Fe)-Total	0.882		0.020	mg/L		17-MAR-20	R5028753
Lead (Pb)-Total	0.00026	<T	0.000050	mg/L		17-MAR-20	R5028753

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-14 SW27							
Sampled By: Client on 11-MAR-20 @ 12:55							
Matrix: Water							
Total Metals							
Lithium (Li)-Total	0.0066	<DL	0.050	mg/L		17-MAR-20	R5028753
Magnesium (Mg)-Total	19.4		0.020	mg/L		17-MAR-20	R5028753
Manganese (Mn)-Total	0.342		0.0010	mg/L		17-MAR-20	R5028753
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		19-MAR-20	R5031787
Molybdenum (Mo)-Total	0.000915	<DL	0.0010	mg/L		17-MAR-20	R5028753
Nickel (Ni)-Total	0.00198	<DL	0.0020	mg/L		17-MAR-20	R5028753
Phosphorus (P)-Total	0.020	<DL	0.050	mg/L		17-MAR-20	R5028753
Potassium (K)-Total	2.38		0.50	mg/L		17-MAR-20	R5028753
Rubidium (Rb)-Total	0.00241		0.00020	mg/L		17-MAR-20	R5028753
Selenium (Se)-Total	0.000140	<T	0.000050	mg/L		17-MAR-20	R5028753
Silicon (Si)-Total	6.64		0.10	mg/L		17-MAR-20	R5028753
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		17-MAR-20	R5028753
Sodium (Na)-Total	7.22		0.10	mg/L		17-MAR-20	R5028753
Strontium (Sr)-Total	0.106		0.0010	mg/L		17-MAR-20	R5028753
Sulfur (S)-Total	3.6		0.50	mg/L		17-MAR-20	R5028753
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		17-MAR-20	R5028753
Thallium (Tl)-Total	0.000005	<DL	0.00030	mg/L		17-MAR-20	R5028753
Thorium (Th)-Total	0.00005	<DL	0.00010	mg/L		17-MAR-20	R5028753
Tin (Sn)-Total	0.00004	<DL	0.0010	mg/L		17-MAR-20	R5028753
Titanium (Ti)-Total	0.0161		0.0020	mg/L		17-MAR-20	R5028753
Tungsten (W)-Total	0.00002	<DL	0.010	mg/L		17-MAR-20	R5028753
Uranium (U)-Total	0.00234	<DL	0.0050	mg/L		17-MAR-20	R5028753
Vanadium (V)-Total	0.00170	<T	0.0010	mg/L		17-MAR-20	R5028753
Zinc (Zn)-Total	0.0515		0.0030	mg/L		17-MAR-20	R5028753
Zirconium (Zr)-Total	0.000618	<DL	0.0010	mg/L		17-MAR-20	R5028753
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					17-MAR-20	R5028120
Aluminum (Al)-Dissolved	0.0174	<T	0.0050	mg/L		17-MAR-20	R5028792
Antimony (Sb)-Dissolved	0.000090	<DL	0.00060	mg/L		17-MAR-20	R5028792
Arsenic (As)-Dissolved	0.000841	<DL	0.0010	mg/L		17-MAR-20	R5028792
Barium (Ba)-Dissolved	0.0227		0.010	mg/L		17-MAR-20	R5028792
Beryllium (Be)-Dissolved	0.000008	<DL	0.0010	mg/L		17-MAR-20	R5028792
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Boron (B)-Dissolved	0.0110	<DL	0.050	mg/L		17-MAR-20	R5028792
Cadmium (Cd)-Dissolved	0.0000100	<DL	0.000017	mg/L		17-MAR-20	R5028792
Calcium (Ca)-Dissolved	49.4		0.20	mg/L		17-MAR-20	R5028792
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		17-MAR-20	R5028792
Chromium (Cr)-Dissolved	0.00016	<DL	0.0010	mg/L		17-MAR-20	R5028792
Cobalt (Co)-Dissolved	0.000414	<DL	0.00050	mg/L		17-MAR-20	R5028792
Copper (Cu)-Dissolved	0.00180	<T	0.0010	mg/L		17-MAR-20	R5028792
Iron (Fe)-Dissolved	0.333		0.020	mg/L		17-MAR-20	R5028792

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-14 SW27 Sampled By: Client on 11-MAR-20 @ 12:55 Matrix: Water							
Dissolved Metals							
Lead (Pb)-Dissolved	0.00006	<T	0.000050	mg/L		17-MAR-20	R5028792
Lithium (Li)-Dissolved	0.0060	<DL	0.050	mg/L		17-MAR-20	R5028792
Magnesium (Mg)-Dissolved	19.6		0.020	mg/L		17-MAR-20	R5028792
Manganese (Mn)-Dissolved	0.317		0.0010	mg/L		17-MAR-20	R5028792
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031786
Molybdenum (Mo)-Dissolved	0.000912	<DL	0.0010	mg/L		17-MAR-20	R5028792
Nickel (Ni)-Dissolved	0.00140	<DL	0.0020	mg/L		17-MAR-20	R5028792
Phosphorus (P)-Dissolved	0.010	<DL	0.050	mg/L		17-MAR-20	R5028792
Potassium (K)-Dissolved	2.34		0.50	mg/L		17-MAR-20	R5028792
Rubidium (Rb)-Dissolved	0.00169		0.00020	mg/L		17-MAR-20	R5028792
Selenium (Se)-Dissolved	0.000175	<T	0.000050	mg/L		17-MAR-20	R5028792
Silicon (Si)-Dissolved	5.68		0.050	mg/L		17-MAR-20	R5028792
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-MAR-20	R5028792
Sodium (Na)-Dissolved	7.30		0.10	mg/L		17-MAR-20	R5028792
Strontium (Sr)-Dissolved	0.102		0.0010	mg/L		17-MAR-20	R5028792
Sulfur (S)-Dissolved	3.2		0.50	mg/L		17-MAR-20	R5028792
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028792
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-MAR-20	R5028792
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		17-MAR-20	R5028792
Tin (Sn)-Dissolved	0.000085	<DL	0.0010	mg/L		17-MAR-20	R5028792
Titanium (Ti)-Dissolved	0.00216		0.0020	mg/L		17-MAR-20	R5028792
Tungsten (W)-Dissolved	0.000006	<DL	0.010	mg/L		17-MAR-20	R5028792
Uranium (U)-Dissolved	0.00230	<DL	0.0050	mg/L		17-MAR-20	R5028792
Vanadium (V)-Dissolved	0.00066	<DL	0.0010	mg/L		17-MAR-20	R5028792
Zinc (Zn)-Dissolved	0.0442		0.0030	mg/L		17-MAR-20	R5028792
Zirconium (Zr)-Dissolved	0.000354	<DL	0.0010	mg/L		17-MAR-20	R5028792
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-MAR-20	R5031826
Chemical Oxygen Demand	59		20	mg/L		16-MAR-20	R5027631
Oil and Grease, Total	0.4	<DL	1.0	mg/L	17-MAR-20	17-MAR-20	R5028562
L2427833-15 SW22A Sampled By: Client on 11-MAR-20 @ 13:15 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	5.71		0	mg/L		16-MAR-20	R5027595
pH, Client Supplied	7.13		0.10	pH		16-MAR-20	R5027595
Temperature, Client Supplied	0		0	Degree C		16-MAR-20	R5027595
Physical Tests							
Color, True	88.7		2.0	CU		14-MAR-20	R5026053
Conductivity (EC)	435		1.0	uS/cm		13-MAR-20	R5025955
Hardness (as CaCO3)	229		0.51	mg/L		18-MAR-20	
pH	7.52		0.10	pH		13-MAR-20	R5025955

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-15 SW22A							
Sampled By: Client on 11-MAR-20 @ 13:15							
Matrix: Water							
Physical Tests							
Total Suspended Solids	8.5		2.0	mg/L		16-MAR-20	R5028320
Total Dissolved Solids	274		20	mg/L		16-MAR-20	R5028417
Turbidity	7.42		0.10	NTU		14-MAR-20	R5025936
Anions and Nutrients							
Acidity (as CaCO3)	7.2		2.0	mg/L		15-MAR-20	R5026747
Alkalinity, Total (as CaCO3)	205		2.0	mg/L		13-MAR-20	R5025955
Ammonia, Total (as N)	0.088	<T	0.020	mg/L		16-MAR-20	R5028160
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		17-MAR-20	
Chloride (Cl)	14.4		0.10	mg/L		16-MAR-20	R5028082
Fluoride (F)	0.027		0.020	mg/L		16-MAR-20	R5028082
Nitrate (as N)	0.117	<T	0.020	mg/L		16-MAR-20	R5028082
Nitrite (as N)	0.0035	<DL	0.010	mg/L		16-MAR-20	R5028082
Total Kjeldahl Nitrogen	1.05		0.18	mg/L	18-MAR-20	18-MAR-20	R5029667
Orthophosphate-Dissolved (as P)	0.0409		0.0030	mg/L		16-MAR-20	R5027388
Sulfate (SO4)	9.86		0.30	mg/L		16-MAR-20	R5028082
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		18-MAR-20	R5029808
Cyanide, Total	0.0004	<DL	0.0020	mg/L		17-MAR-20	R5029808
Cyanide, Free	0.0013	<DL	0.0020	mg/L		17-MAR-20	R5029808
Organic / Inorganic Carbon							
Dissolved Organic Carbon	27.4		0.50	mg/L		20-MAR-20	R5034009
Total Organic Carbon	33.0		0.50	mg/L		20-MAR-20	R5033997
Total Metals							
Aluminum (Al)-Total	0.276		0.0050	mg/L		17-MAR-20	R5028753
Antimony (Sb)-Total	0.000075	<DL	0.00060	mg/L		17-MAR-20	R5028753
Arsenic (As)-Total	0.00097	<DL	0.0010	mg/L		17-MAR-20	R5028753
Barium (Ba)-Total	0.0210		0.010	mg/L		17-MAR-20	R5028753
Beryllium (Be)-Total	0.0000199	<DL	0.0010	mg/L		17-MAR-20	R5028753
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028753
Boron (B)-Total	0.0145	<DL	0.050	mg/L		17-MAR-20	R5028753
Cadmium (Cd)-Total	0.000013	<DL	0.000017	mg/L		17-MAR-20	R5028753
Calcium (Ca)-Total	55.6		0.20	mg/L		17-MAR-20	R5028753
Cesium (Cs)-Total	0.0000355		0.000010	mg/L		17-MAR-20	R5028753
Chromium (Cr)-Total	0.00066	<DL	0.0010	mg/L		17-MAR-20	R5028753
Cobalt (Co)-Total	0.000640	<T	0.00050	mg/L		17-MAR-20	R5028753
Copper (Cu)-Total	0.00144	<T	0.0010	mg/L		17-MAR-20	R5028753
Iron (Fe)-Total	1.18		0.020	mg/L		17-MAR-20	R5028753
Lead (Pb)-Total	0.00024	<T	0.000050	mg/L		17-MAR-20	R5028753
Lithium (Li)-Total	0.0074	<DL	0.050	mg/L		17-MAR-20	R5028753
Magnesium (Mg)-Total	22.1		0.020	mg/L		17-MAR-20	R5028753
Manganese (Mn)-Total	0.320		0.0010	mg/L		17-MAR-20	R5028753
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031787

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-15 SW22A							
Sampled By: Client on 11-MAR-20 @ 13:15							
Matrix: Water							
Total Metals							
Molybdenum (Mo)-Total	0.000495	<DL	0.0010	mg/L		17-MAR-20	R5028753
Nickel (Ni)-Total	0.00214	<T	0.0020	mg/L		17-MAR-20	R5028753
Phosphorus (P)-Total	0.080		0.050	mg/L		17-MAR-20	R5028753
Potassium (K)-Total	2.23		0.50	mg/L		17-MAR-20	R5028753
Rubidium (Rb)-Total	0.00205		0.00020	mg/L		17-MAR-20	R5028753
Selenium (Se)-Total	0.000190	<T	0.000050	mg/L		17-MAR-20	R5028753
Silicon (Si)-Total	7.87		0.10	mg/L		17-MAR-20	R5028753
Silver (Ag)-Total	0.000004	<DL	0.00010	mg/L		17-MAR-20	R5028753
Sodium (Na)-Total	7.77		0.10	mg/L		17-MAR-20	R5028753
Strontium (Sr)-Total	0.128		0.0010	mg/L		17-MAR-20	R5028753
Sulfur (S)-Total	3.0		0.50	mg/L		17-MAR-20	R5028753
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		17-MAR-20	R5028753
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		17-MAR-20	R5028753
Thorium (Th)-Total	0.00002	<DL	0.00010	mg/L		17-MAR-20	R5028753
Tin (Sn)-Total	0.00013	<DL	0.0010	mg/L		17-MAR-20	R5028753
Titanium (Ti)-Total	0.0103		0.0020	mg/L		17-MAR-20	R5028753
Tungsten (W)-Total	0.00002	<DL	0.010	mg/L		17-MAR-20	R5028753
Uranium (U)-Total	0.00160	<DL	0.0050	mg/L		17-MAR-20	R5028753
Vanadium (V)-Total	0.00115	<T	0.0010	mg/L		17-MAR-20	R5028753
Zinc (Zn)-Total	0.0230		0.0030	mg/L		17-MAR-20	R5028753
Zirconium (Zr)-Total	0.000616	<DL	0.0010	mg/L		17-MAR-20	R5028753
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					17-MAR-20	R5028120
Aluminum (Al)-Dissolved	0.0158	<T	0.0050	mg/L		17-MAR-20	R5028792
Antimony (Sb)-Dissolved	0.000070	<DL	0.00060	mg/L		17-MAR-20	R5028792
Arsenic (As)-Dissolved	0.000894	<DL	0.0010	mg/L		17-MAR-20	R5028792
Barium (Ba)-Dissolved	0.0178		0.010	mg/L		17-MAR-20	R5028792
Beryllium (Be)-Dissolved	0.000008	<DL	0.0010	mg/L		17-MAR-20	R5028792
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Boron (B)-Dissolved	0.0145	<DL	0.050	mg/L		17-MAR-20	R5028792
Cadmium (Cd)-Dissolved	0.0000060	<DL	0.000017	mg/L		17-MAR-20	R5028792
Calcium (Ca)-Dissolved	54.6		0.20	mg/L		17-MAR-20	R5028792
Cesium (Cs)-Dissolved	0.0000005	<DL	0.000010	mg/L		17-MAR-20	R5028792
Chromium (Cr)-Dissolved	0.00023	<DL	0.0010	mg/L		17-MAR-20	R5028792
Cobalt (Co)-Dissolved	0.000298	<DL	0.00050	mg/L		17-MAR-20	R5028792
Copper (Cu)-Dissolved	0.00116	<T	0.0010	mg/L		17-MAR-20	R5028792
Iron (Fe)-Dissolved	0.601		0.020	mg/L		17-MAR-20	R5028792
Lead (Pb)-Dissolved	0.00008	<T	0.000050	mg/L		17-MAR-20	R5028792
Lithium (Li)-Dissolved	0.0074	<DL	0.050	mg/L		17-MAR-20	R5028792
Magnesium (Mg)-Dissolved	22.5		0.020	mg/L		17-MAR-20	R5028792
Manganese (Mn)-Dissolved	0.111		0.0010	mg/L		17-MAR-20	R5028792

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-15 SW22A Sampled By: Client on 11-MAR-20 @ 13:15 Matrix: Water							
Dissolved Metals							
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031786
Molybdenum (Mo)-Dissolved	0.000476	<DL	0.0010	mg/L		17-MAR-20	R5028792
Nickel (Ni)-Dissolved	0.00176	<DL	0.0020	mg/L		17-MAR-20	R5028792
Phosphorus (P)-Dissolved	0.045	<DL	0.050	mg/L		17-MAR-20	R5028792
Potassium (K)-Dissolved	2.19		0.50	mg/L		17-MAR-20	R5028792
Rubidium (Rb)-Dissolved	0.00159		0.00020	mg/L		17-MAR-20	R5028792
Selenium (Se)-Dissolved	0.000185	<T	0.000050	mg/L		17-MAR-20	R5028792
Silicon (Si)-Dissolved	7.72		0.050	mg/L		17-MAR-20	R5028792
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-MAR-20	R5028792
Sodium (Na)-Dissolved	7.88		0.10	mg/L		17-MAR-20	R5028792
Strontium (Sr)-Dissolved	0.126		0.0010	mg/L		17-MAR-20	R5028792
Sulfur (S)-Dissolved	3.0		0.50	mg/L		17-MAR-20	R5028792
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028792
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-MAR-20	R5028792
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		17-MAR-20	R5028792
Tin (Sn)-Dissolved	0.000090	<DL	0.0010	mg/L		17-MAR-20	R5028792
Titanium (Ti)-Dissolved	0.00168	<DL	0.0020	mg/L		17-MAR-20	R5028792
Tungsten (W)-Dissolved	0.000004	<DL	0.010	mg/L		17-MAR-20	R5028792
Uranium (U)-Dissolved	0.00160	<DL	0.0050	mg/L		17-MAR-20	R5028792
Vanadium (V)-Dissolved	0.00058	<DL	0.0010	mg/L		17-MAR-20	R5028792
Zinc (Zn)-Dissolved	0.0160		0.0030	mg/L		17-MAR-20	R5028792
Zirconium (Zr)-Dissolved	0.000468	<DL	0.0010	mg/L		17-MAR-20	R5028792
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-MAR-20	R5031826
Chemical Oxygen Demand	73		20	mg/L		16-MAR-20	R5027631
Oil and Grease, Total	0.4	<DL	1.0	mg/L	17-MAR-20	17-MAR-20	R5028562
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		01-APR-20	R5051188
L2427833-16 FIELD BLANK - SURFACE WATER Sampled By: Client on 10-MAR-20 @ 14:00 Matrix: Water							
Physical Tests							
Color, True	<2.0		2.0	CU		14-MAR-20	R5026053
Conductivity (EC)	0.6	<DL	1.0	uS/cm		13-MAR-20	R5025955
Hardness (as CaCO3)	<0.51		0.51	mg/L		18-MAR-20	
pH	5.52		0.10	pH		13-MAR-20	R5025955
Total Suspended Solids	<0.5	<W	2.0	mg/L		16-MAR-20	R5028320
Total Dissolved Solids	<2	<W	10	mg/L		16-MAR-20	R5028417
Turbidity	<0.10		0.10	NTU		14-MAR-20	R5025936
Anions and Nutrients							
Acidity (as CaCO3)	0.2	<DL	2.0	mg/L		15-MAR-20	R5026747
Alkalinity, Total (as CaCO3)	0.6	<DL	2.0	mg/L		13-MAR-20	R5025955

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-16 FIELD BLANK - SURFACE WATER Sampled By: Client on 10-MAR-20 @ 14:00 Matrix: Water							
Anions and Nutrients							
Ammonia, Total (as N)	0.004	<DL	0.020	mg/L		16-MAR-20	R5028160
Chloride (Cl)	<0.10		0.10	mg/L		22-MAR-20	R5033913
Fluoride (F)	0.042	RRV	0.020	mg/L		16-MAR-20	R5028082
Nitrate (as N)	0.004	<DL	0.020	mg/L		16-MAR-20	R5028082
Nitrite (as N)	0.0010	<DL	0.010	mg/L		16-MAR-20	R5028082
Total Kjeldahl Nitrogen	<0.05	<W	0.18	mg/L	18-MAR-20	18-MAR-20	R5029667
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		16-MAR-20	R5027388
Sulfate (SO4)	0.08	<DL	0.30	mg/L		16-MAR-20	R5028082
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		18-MAR-20	R5029808
Cyanide, Total	<0.0002	<W	0.0020	mg/L		17-MAR-20	R5029808
Cyanide, Free	<0.0001	<W	0.0020	mg/L		17-MAR-20	R5029808
Organic / Inorganic Carbon							
Dissolved Organic Carbon	0.4	<DL	0.50	mg/L		20-MAR-20	R5034009
Total Organic Carbon	0.95		0.50	mg/L		20-MAR-20	R5033997
Total Metals							
Aluminum (Al)-Total	0.0024	<DL	0.0050	mg/L		17-MAR-20	R5028753
Antimony (Sb)-Total	0.000005	<DL	0.00060	mg/L		17-MAR-20	R5028753
Arsenic (As)-Total	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028753
Barium (Ba)-Total	0.00009	<DL	0.010	mg/L		17-MAR-20	R5028753
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		17-MAR-20	R5028753
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028753
Boron (B)-Total	<0.0005	<W	0.050	mg/L		17-MAR-20	R5028753
Cadmium (Cd)-Total	<0.000001	<W	0.000017	mg/L		17-MAR-20	R5028753
Calcium (Ca)-Total	0.120	<DL	0.20	mg/L		17-MAR-20	R5028753
Cesium (Cs)-Total	<0.0000005	<W	0.000010	mg/L		17-MAR-20	R5028753
Chromium (Cr)-Total	<0.00002	<W	0.0010	mg/L		17-MAR-20	R5028753
Cobalt (Co)-Total	<0.000005	<W	0.00050	mg/L		17-MAR-20	R5028753
Copper (Cu)-Total	0.00004	<DL	0.0010	mg/L		17-MAR-20	R5028753
Iron (Fe)-Total	0.0040	<DL	0.020	mg/L		17-MAR-20	R5028753
Lead (Pb)-Total	<0.00001	<W	0.000050	mg/L		17-MAR-20	R5028753
Lithium (Li)-Total	<0.0002	<W	0.050	mg/L		17-MAR-20	R5028753
Magnesium (Mg)-Total	0.0024	<DL	0.020	mg/L		17-MAR-20	R5028753
Manganese (Mn)-Total	<0.0002	<W	0.0010	mg/L		17-MAR-20	R5028753
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031787
Molybdenum (Mo)-Total	0.000010	<DL	0.0010	mg/L		17-MAR-20	R5028753
Nickel (Ni)-Total	<0.00002	<W	0.0020	mg/L		17-MAR-20	R5028753
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		17-MAR-20	R5028753
Potassium (K)-Total	<0.01	<W	0.50	mg/L		17-MAR-20	R5028753
Rubidium (Rb)-Total	0.000008	<DL	0.00020	mg/L		17-MAR-20	R5028753
Selenium (Se)-Total	<0.000005	<W	0.000050	mg/L		17-MAR-20	R5028753
Silicon (Si)-Total	0.420		0.10	mg/L		17-MAR-20	R5028753

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-16 FIELD BLANK - SURFACE WATER							
Sampled By: Client on 10-MAR-20 @ 14:00							
Matrix: Water							
Total Metals							
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		17-MAR-20	R5028753
Sodium (Na)-Total	0.155		0.10	mg/L		17-MAR-20	R5028753
Strontium (Sr)-Total	0.000150	<DL	0.0010	mg/L		17-MAR-20	R5028753
Sulfur (S)-Total	<0.2	<W	0.50	mg/L		17-MAR-20	R5028753
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		17-MAR-20	R5028753
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		17-MAR-20	R5028753
Thorium (Th)-Total	<0.00001	<W	0.00010	mg/L		17-MAR-20	R5028753
Tin (Sn)-Total	0.00050	<DL	0.0010	mg/L		17-MAR-20	R5028753
Titanium (Ti)-Total	0.00002	<DL	0.0020	mg/L		17-MAR-20	R5028753
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		17-MAR-20	R5028753
Uranium (U)-Total	<0.0000005	<W	0.0050	mg/L		17-MAR-20	R5028753
Vanadium (V)-Total	<0.00005	<W	0.0010	mg/L		17-MAR-20	R5028753
Zinc (Zn)-Total	<0.0005	<W	0.0030	mg/L		17-MAR-20	R5028753
Zirconium (Zr)-Total	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028753
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					17-MAR-20	R5028120
Aluminum (Al)-Dissolved	0.0018	<DL	0.0050	mg/L		17-MAR-20	R5028792
Antimony (Sb)-Dissolved	<0.000005	<W	0.00060	mg/L		17-MAR-20	R5028792
Arsenic (As)-Dissolved	0.0000062	<DL	0.0010	mg/L		17-MAR-20	R5028792
Barium (Ba)-Dissolved	0.000065	<DL	0.010	mg/L		17-MAR-20	R5028792
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Boron (B)-Dissolved	<0.0005	<W	0.050	mg/L		17-MAR-20	R5028792
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		17-MAR-20	R5028792
Calcium (Ca)-Dissolved	0.112	<DL	0.20	mg/L		17-MAR-20	R5028792
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		17-MAR-20	R5028792
Chromium (Cr)-Dissolved	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028792
Cobalt (Co)-Dissolved	<0.000002	<W	0.00050	mg/L		17-MAR-20	R5028792
Copper (Cu)-Dissolved	<0.00002	<W	0.0010	mg/L		17-MAR-20	R5028792
Iron (Fe)-Dissolved	<0.0005	<W	0.020	mg/L		17-MAR-20	R5028792
Lead (Pb)-Dissolved	<0.00001	<W	0.000050	mg/L		17-MAR-20	R5028792
Lithium (Li)-Dissolved	<0.0002	<W	0.050	mg/L		17-MAR-20	R5028792
Magnesium (Mg)-Dissolved	0.0040	<DL	0.020	mg/L		17-MAR-20	R5028792
Manganese (Mn)-Dissolved	<0.00002	<W	0.0010	mg/L		17-MAR-20	R5028792
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031786
Molybdenum (Mo)-Dissolved	0.000004	<DL	0.0010	mg/L		17-MAR-20	R5028792
Nickel (Ni)-Dissolved	0.00002	<DL	0.0020	mg/L		17-MAR-20	R5028792
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		17-MAR-20	R5028792
Potassium (K)-Dissolved	<0.01	<W	0.50	mg/L		17-MAR-20	R5028792
Rubidium (Rb)-Dissolved	0.000004	<DL	0.00020	mg/L		17-MAR-20	R5028792
Selenium (Se)-Dissolved	<0.000005	<W	0.000050	mg/L		17-MAR-20	R5028792

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-16 FIELD BLANK - SURFACE WATER Sampled By: Client on 10-MAR-20 @ 14:00 Matrix: Water							
Dissolved Metals							
Silicon (Si)-Dissolved	0.420		0.050	mg/L		17-MAR-20	R5028792
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-MAR-20	R5028792
Sodium (Na)-Dissolved	0.150		0.10	mg/L		17-MAR-20	R5028792
Strontium (Sr)-Dissolved	0.00014	<DL	0.0010	mg/L		17-MAR-20	R5028792
Sulfur (S)-Dissolved	<0.2	<W	0.50	mg/L		17-MAR-20	R5028792
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028792
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-MAR-20	R5028792
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		17-MAR-20	R5028792
Tin (Sn)-Dissolved	0.000025	<DL	0.0010	mg/L		17-MAR-20	R5028792
Titanium (Ti)-Dissolved	<0.00002	<W	0.0020	mg/L		17-MAR-20	R5028792
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		17-MAR-20	R5028792
Uranium (U)-Dissolved	<0.0000005	<W	0.0050	mg/L		17-MAR-20	R5028792
Vanadium (V)-Dissolved	0.00006	<DL	0.0010	mg/L		17-MAR-20	R5028792
Zinc (Zn)-Dissolved	<0.0002	<W	0.0030	mg/L		17-MAR-20	R5028792
Zirconium (Zr)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-MAR-20	R5031826
Chemical Oxygen Demand	<20		20	mg/L		16-MAR-20	R5027631
Oil and Grease, Total	<0.2	<W	1.0	mg/L	17-MAR-20	17-MAR-20	R5028562
L2427833-17 TRAVEL BLANK - SURFACE WATER Sampled By: Client on 10-MAR-20 @ 12:00 Matrix: Water							
Physical Tests							
Color, True	<2.0		2.0	CU		14-MAR-20	R5026053
Conductivity (EC)	0.2	<DL	1.0	uS/cm		13-MAR-20	R5025955
Hardness (as CaCO3)	<0.51		0.51	mg/L		18-MAR-20	
pH	5.46		0.10	pH		13-MAR-20	R5025955
Total Suspended Solids	<0.5	<W	2.0	mg/L		16-MAR-20	R5028320
Total Dissolved Solids	<2	<W	10	mg/L		16-MAR-20	R5028404
Turbidity	<0.10		0.10	NTU		14-MAR-20	R5025936
Anions and Nutrients							
Acidity (as CaCO3)	0.8	<DL	2.0	mg/L		15-MAR-20	R5026747
Alkalinity, Total (as CaCO3)	0.4	<DL	2.0	mg/L		13-MAR-20	R5025955
Ammonia, Total (as N)	0.006	<DL	0.020	mg/L		16-MAR-20	R5028160
Chloride (Cl)	<0.10		0.10	mg/L		16-MAR-20	R5028082
Fluoride (F)	<0.020		0.020	mg/L		16-MAR-20	R5028082
Nitrate (as N)	<0.001	<W	0.020	mg/L		16-MAR-20	R5028082
Nitrite (as N)	<0.0005	<W	0.010	mg/L		16-MAR-20	R5028082
Total Kjeldahl Nitrogen	<0.05	<W	0.18	mg/L	18-MAR-20	18-MAR-20	R5029667
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		16-MAR-20	R5027388
Sulfate (SO4)	<0.02	<W	0.30	mg/L		16-MAR-20	R5028082
Cyanides							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-17 TRAVEL BLANK - SURFACE WATER							
Sampled By: Client on 10-MAR-20 @ 12:00							
Matrix: Water							
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		18-MAR-20	R5029808
Cyanide, Total	<0.0002	<W	0.0020	mg/L		17-MAR-20	R5029808
Cyanide, Free	0.0007	<DL	0.0020	mg/L		17-MAR-20	R5029808
Organic / Inorganic Carbon							
Dissolved Organic Carbon	<0.1	<W	0.50	mg/L		17-MAR-20	R5029248
Total Organic Carbon	<0.50		0.50	mg/L		17-MAR-20	R5029230
Total Metals							
Aluminum (Al)-Total	<0.0002	<W	0.0050	mg/L		17-MAR-20	R5028753
Antimony (Sb)-Total	<0.000005	<W	0.00060	mg/L		17-MAR-20	R5028753
Arsenic (As)-Total	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028753
Barium (Ba)-Total	<0.00001	<W	0.010	mg/L		17-MAR-20	R5028753
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		17-MAR-20	R5028753
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028753
Boron (B)-Total	<0.0005	<W	0.050	mg/L		17-MAR-20	R5028753
Cadmium (Cd)-Total	<0.000001	<W	0.000017	mg/L		17-MAR-20	R5028753
Calcium (Ca)-Total	<0.002	<W	0.20	mg/L		17-MAR-20	R5028753
Cesium (Cs)-Total	<0.0000005	<W	0.000010	mg/L		17-MAR-20	R5028753
Chromium (Cr)-Total	<0.00002	<W	0.0010	mg/L		17-MAR-20	R5028753
Cobalt (Co)-Total	<0.000005	<W	0.00050	mg/L		17-MAR-20	R5028753
Copper (Cu)-Total	<0.00002	<W	0.0010	mg/L		17-MAR-20	R5028753
Iron (Fe)-Total	<0.0005	<W	0.020	mg/L		17-MAR-20	R5028753
Lead (Pb)-Total	<0.00001	<W	0.000050	mg/L		17-MAR-20	R5028753
Lithium (Li)-Total	<0.0002	<W	0.050	mg/L		17-MAR-20	R5028753
Magnesium (Mg)-Total	0.0002	<DL	0.020	mg/L		17-MAR-20	R5028753
Manganese (Mn)-Total	<0.0002	<W	0.0010	mg/L		17-MAR-20	R5028753
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031787
Molybdenum (Mo)-Total	<0.000005	<W	0.0010	mg/L		17-MAR-20	R5028753
Nickel (Ni)-Total	<0.00002	<W	0.0020	mg/L		17-MAR-20	R5028753
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		17-MAR-20	R5028753
Potassium (K)-Total	<0.01	<W	0.50	mg/L		17-MAR-20	R5028753
Rubidium (Rb)-Total	<0.000002	<W	0.00020	mg/L		17-MAR-20	R5028753
Selenium (Se)-Total	<0.000005	<W	0.000050	mg/L		17-MAR-20	R5028753
Silicon (Si)-Total	<0.002	<W	0.10	mg/L		17-MAR-20	R5028753
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		17-MAR-20	R5028753
Sodium (Na)-Total	<0.005	<W	0.10	mg/L		17-MAR-20	R5028753
Strontium (Sr)-Total	<0.000005	<W	0.0010	mg/L		17-MAR-20	R5028753
Sulfur (S)-Total	<0.2	<W	0.50	mg/L		17-MAR-20	R5028753
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		17-MAR-20	R5028753
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		17-MAR-20	R5028753
Thorium (Th)-Total	<0.00001	<W	0.00010	mg/L		17-MAR-20	R5028753
Tin (Sn)-Total	0.00007	<DL	0.0010	mg/L		17-MAR-20	R5028753

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-17 TRAVEL BLANK - SURFACE WATER							
Sampled By: Client on 10-MAR-20 @ 12:00							
Matrix: Water							
Total Metals							
Titanium (Ti)-Total	<0.00001	<W	0.0020	mg/L		17-MAR-20	R5028753
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		17-MAR-20	R5028753
Uranium (U)-Total	<0.0000005	<W	0.0050	mg/L		17-MAR-20	R5028753
Vanadium (V)-Total	<0.00005	<W	0.0010	mg/L		17-MAR-20	R5028753
Zinc (Zn)-Total	<0.0005	<W	0.0030	mg/L		17-MAR-20	R5028753
Zirconium (Zr)-Total	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028753
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					17-MAR-20	R5028120
Aluminum (Al)-Dissolved	<0.0002	<W	0.0050	mg/L		17-MAR-20	R5028792
Antimony (Sb)-Dissolved	<0.000005	<W	0.00060	mg/L		17-MAR-20	R5028792
Arsenic (As)-Dissolved	0.0000074	<DL	0.0010	mg/L		17-MAR-20	R5028792
Barium (Ba)-Dissolved	<0.000005	<W	0.010	mg/L		17-MAR-20	R5028792
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Boron (B)-Dissolved	<0.0005	<W	0.050	mg/L		17-MAR-20	R5028792
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		17-MAR-20	R5028792
Calcium (Ca)-Dissolved	<0.002	<W	0.20	mg/L		17-MAR-20	R5028792
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		17-MAR-20	R5028792
Chromium (Cr)-Dissolved	0.00001	<DL	0.0010	mg/L		17-MAR-20	R5028792
Cobalt (Co)-Dissolved	<0.000002	<W	0.00050	mg/L		17-MAR-20	R5028792
Copper (Cu)-Dissolved	<0.00002	<W	0.0010	mg/L		17-MAR-20	R5028792
Iron (Fe)-Dissolved	<0.0005	<W	0.020	mg/L		17-MAR-20	R5028792
Lead (Pb)-Dissolved	<0.00001	<W	0.000050	mg/L		17-MAR-20	R5028792
Lithium (Li)-Dissolved	<0.0002	<W	0.050	mg/L		17-MAR-20	R5028792
Magnesium (Mg)-Dissolved	0.0010	<DL	0.020	mg/L		17-MAR-20	R5028792
Manganese (Mn)-Dissolved	<0.00002	<W	0.0010	mg/L		17-MAR-20	R5028792
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031786
Molybdenum (Mo)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Nickel (Ni)-Dissolved	0.00002	<DL	0.0020	mg/L		17-MAR-20	R5028792
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		17-MAR-20	R5028792
Potassium (K)-Dissolved	<0.01	<W	0.50	mg/L		17-MAR-20	R5028792
Rubidium (Rb)-Dissolved	<0.000002	<W	0.00020	mg/L		17-MAR-20	R5028792
Selenium (Se)-Dissolved	<0.000005	<W	0.000050	mg/L		17-MAR-20	R5028792
Silicon (Si)-Dissolved	<0.005	<W	0.050	mg/L		17-MAR-20	R5028792
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-MAR-20	R5028792
Sodium (Na)-Dissolved	<0.005	<W	0.10	mg/L		17-MAR-20	R5028792
Strontium (Sr)-Dissolved	<0.00002	<W	0.0010	mg/L		17-MAR-20	R5028792
Sulfur (S)-Dissolved	<0.2	<W	0.50	mg/L		17-MAR-20	R5028792
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028792
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-MAR-20	R5028792
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		17-MAR-20	R5028792

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-17 TRAVEL BLANK - SURFACE WATER Sampled By: Client on 10-MAR-20 @ 12:00 Matrix: Water							
Dissolved Metals							
Tin (Sn)-Dissolved	0.000040	<DL	0.0010	mg/L		17-MAR-20	R5028792
Titanium (Ti)-Dissolved	<0.00002	<W	0.0020	mg/L		17-MAR-20	R5028792
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		17-MAR-20	R5028792
Uranium (U)-Dissolved	<0.0000005	<W	0.0050	mg/L		17-MAR-20	R5028792
Vanadium (V)-Dissolved	0.00006	<DL	0.0010	mg/L		17-MAR-20	R5028792
Zinc (Zn)-Dissolved	0.0002	<DL	0.0030	mg/L		17-MAR-20	R5028792
Zirconium (Zr)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-MAR-20	R5031826
Chemical Oxygen Demand	<20		20	mg/L		16-MAR-20	R5027631
Oil and Grease, Total	1.8		1.0	mg/L	18-MAR-20	18-MAR-20	R5029649
L2427833-18 SW06 Sampled By: Client on 10-MAR-20 @ 11:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	10.6		0	mg/L		16-MAR-20	R5027595
pH, Client Supplied	7.09		0.10	pH		16-MAR-20	R5027595
Temperature, Client Supplied	0		0	Degree C		16-MAR-20	R5027595
Physical Tests							
Color, True	102		2.0	CU		14-MAR-20	R5026053
Conductivity (EC)	383		1.0	uS/cm		13-MAR-20	R5025955
Hardness (as CaCO3)	206		0.51	mg/L		18-MAR-20	
pH	7.42		0.10	pH		13-MAR-20	R5025955
Total Suspended Solids	10.0		2.0	mg/L		14-MAR-20	R5026749
Total Dissolved Solids	254		20	mg/L		16-MAR-20	R5028404
Turbidity	6.47		0.10	NTU		14-MAR-20	R5025936
Anions and Nutrients							
Acidity (as CaCO3)	8.2		2.0	mg/L		15-MAR-20	R5026747
Alkalinity, Total (as CaCO3)	184		2.0	mg/L		13-MAR-20	R5025955
Ammonia, Total (as N)	0.078	<T	0.020	mg/L		16-MAR-20	R5028160
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		17-MAR-20	
Chloride (Cl)	8.46		0.10	mg/L		16-MAR-20	R5028082
Fluoride (F)	0.024		0.020	mg/L		16-MAR-20	R5028082
Nitrate (as N)	0.145	<T	0.020	mg/L		16-MAR-20	R5028082
Nitrite (as N)	0.0065	<DL	0.010	mg/L		16-MAR-20	R5028082
Total Kjeldahl Nitrogen	1.05		0.18	mg/L	18-MAR-20	19-MAR-20	R5032087
Orthophosphate-Dissolved (as P)	0.0358		0.0030	mg/L		16-MAR-20	R5027388
Sulfate (SO4)	8.14		0.30	mg/L		16-MAR-20	R5028082
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		18-MAR-20	R5029808
Cyanide, Total	0.0004	<DL	0.0020	mg/L		17-MAR-20	R5029808
Cyanide, Free	0.0005	<DL	0.0020	mg/L		17-MAR-20	R5029808

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-18 SW06							
Sampled By: Client on 10-MAR-20 @ 11:00							
Matrix: Water							
Cyanides							
Organic / Inorganic Carbon							
Dissolved Organic Carbon	30.8		0.50	mg/L		17-MAR-20	R5029248
Total Organic Carbon	30.9		0.50	mg/L		17-MAR-20	R5029230
Total Metals							
Aluminum (Al)-Total	0.197		0.0050	mg/L		17-MAR-20	R5028753
Antimony (Sb)-Total	0.000040	<DL	0.00060	mg/L		17-MAR-20	R5028753
Arsenic (As)-Total	0.00097	<DL	0.0010	mg/L		17-MAR-20	R5028753
Barium (Ba)-Total	0.0147		0.010	mg/L		17-MAR-20	R5028753
Beryllium (Be)-Total	0.0000168	<DL	0.0010	mg/L		17-MAR-20	R5028753
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028753
Boron (B)-Total	0.0175	<DL	0.050	mg/L		17-MAR-20	R5028753
Cadmium (Cd)-Total	0.000018	<T	0.000017	mg/L		17-MAR-20	R5028753
Calcium (Ca)-Total	49.5		0.20	mg/L		17-MAR-20	R5028753
Cesium (Cs)-Total	0.0000295		0.000010	mg/L		17-MAR-20	R5028753
Chromium (Cr)-Total	0.00052	<DL	0.0010	mg/L		17-MAR-20	R5028753
Cobalt (Co)-Total	0.000670	<T	0.00050	mg/L		17-MAR-20	R5028753
Copper (Cu)-Total	0.00108	<T	0.0010	mg/L		17-MAR-20	R5028753
Iron (Fe)-Total	1.25		0.020	mg/L		17-MAR-20	R5028753
Lead (Pb)-Total	0.00020	<T	0.000050	mg/L		17-MAR-20	R5028753
Lithium (Li)-Total	0.0086	<DL	0.050	mg/L		17-MAR-20	R5028753
Magnesium (Mg)-Total	20.3		0.020	mg/L		17-MAR-20	R5028753
Manganese (Mn)-Total	0.207		0.0010	mg/L		17-MAR-20	R5028753
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031787
Molybdenum (Mo)-Total	0.000315	<DL	0.0010	mg/L		17-MAR-20	R5028753
Nickel (Ni)-Total	0.00190	<DL	0.0020	mg/L		17-MAR-20	R5028753
Phosphorus (P)-Total	0.080		0.050	mg/L		17-MAR-20	R5028753
Potassium (K)-Total	1.96		0.50	mg/L		17-MAR-20	R5028753
Rubidium (Rb)-Total	0.00190		0.00020	mg/L		17-MAR-20	R5028753
Selenium (Se)-Total	0.000170	<T	0.000050	mg/L		17-MAR-20	R5028753
Silicon (Si)-Total	7.99		0.10	mg/L		17-MAR-20	R5028753
Silver (Ag)-Total	0.000067	<DL	0.00010	mg/L		17-MAR-20	R5028753
Sodium (Na)-Total	7.09		0.10	mg/L		17-MAR-20	R5028753
Strontium (Sr)-Total	0.140		0.0010	mg/L		17-MAR-20	R5028753
Sulfur (S)-Total	2.6		0.50	mg/L		17-MAR-20	R5028753
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		17-MAR-20	R5028753
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		17-MAR-20	R5028753
Thorium (Th)-Total	0.00002	<DL	0.00010	mg/L		17-MAR-20	R5028753
Tin (Sn)-Total	0.00018	<DL	0.0010	mg/L		17-MAR-20	R5028753
Titanium (Ti)-Total	0.00845		0.0020	mg/L		17-MAR-20	R5028753
Tungsten (W)-Total	0.00004	<DL	0.010	mg/L		17-MAR-20	R5028753
Uranium (U)-Total	0.00104	<DL	0.0050	mg/L		17-MAR-20	R5028753

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-18 SW06							
Sampled By: Client on 10-MAR-20 @ 11:00							
Matrix: Water							
Total Metals							
Vanadium (V)-Total	0.00085	<DL	0.0010	mg/L		17-MAR-20	R5028753
Zinc (Zn)-Total	0.0050	<T	0.0030	mg/L		17-MAR-20	R5028753
Zirconium (Zr)-Total	0.000510	<DL	0.0010	mg/L		17-MAR-20	R5028753
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					17-MAR-20	R5028120
Aluminum (Al)-Dissolved	0.0206	<T	0.0050	mg/L		17-MAR-20	R5028792
Antimony (Sb)-Dissolved	0.000065	<DL	0.00060	mg/L		17-MAR-20	R5028792
Arsenic (As)-Dissolved	0.000897	<DL	0.0010	mg/L		17-MAR-20	R5028792
Barium (Ba)-Dissolved	0.0126		0.010	mg/L		17-MAR-20	R5028792
Beryllium (Be)-Dissolved	0.000020	<DL	0.0010	mg/L		17-MAR-20	R5028792
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-MAR-20	R5028792
Boron (B)-Dissolved	0.0170	<DL	0.050	mg/L		17-MAR-20	R5028792
Cadmium (Cd)-Dissolved	0.0000090	<DL	0.000017	mg/L		17-MAR-20	R5028792
Calcium (Ca)-Dissolved	48.6		0.20	mg/L		17-MAR-20	R5028792
Cesium (Cs)-Dissolved	0.0000025	<DL	0.000010	mg/L		17-MAR-20	R5028792
Chromium (Cr)-Dissolved	0.00024	<DL	0.0010	mg/L		17-MAR-20	R5028792
Cobalt (Co)-Dissolved	0.000438	<DL	0.00050	mg/L		17-MAR-20	R5028792
Copper (Cu)-Dissolved	0.00068	<DL	0.0010	mg/L		17-MAR-20	R5028792
Iron (Fe)-Dissolved	0.781		0.020	mg/L		17-MAR-20	R5028792
Lead (Pb)-Dissolved	0.00008	<T	0.000050	mg/L		17-MAR-20	R5028792
Lithium (Li)-Dissolved	0.0082	<DL	0.050	mg/L		17-MAR-20	R5028792
Magnesium (Mg)-Dissolved	20.6		0.020	mg/L		17-MAR-20	R5028792
Manganese (Mn)-Dissolved	0.126		0.0010	mg/L		17-MAR-20	R5028792
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		19-MAR-20	R5031786
Molybdenum (Mo)-Dissolved	0.000304	<DL	0.0010	mg/L		17-MAR-20	R5028792
Nickel (Ni)-Dissolved	0.00170	<DL	0.0020	mg/L		17-MAR-20	R5028792
Phosphorus (P)-Dissolved	0.045	<DL	0.050	mg/L		17-MAR-20	R5028792
Potassium (K)-Dissolved	1.92		0.50	mg/L		17-MAR-20	R5028792
Rubidium (Rb)-Dissolved	0.00160		0.00020	mg/L		17-MAR-20	R5028792
Selenium (Se)-Dissolved	0.000205	<T	0.000050	mg/L		17-MAR-20	R5028792
Silicon (Si)-Dissolved	7.72		0.050	mg/L		17-MAR-20	R5028792
Silver (Ag)-Dissolved	0.0000020	<DL	0.00010	mg/L		17-MAR-20	R5028792
Sodium (Na)-Dissolved	7.11		0.10	mg/L		17-MAR-20	R5028792
Strontium (Sr)-Dissolved	0.137		0.0010	mg/L		17-MAR-20	R5028792
Sulfur (S)-Dissolved	2.2		0.50	mg/L		17-MAR-20	R5028792
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-MAR-20	R5028792
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-MAR-20	R5028792
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		17-MAR-20	R5028792
Tin (Sn)-Dissolved	0.000055	<DL	0.0010	mg/L		17-MAR-20	R5028792
Titanium (Ti)-Dissolved	0.00164	<DL	0.0020	mg/L		17-MAR-20	R5028792
Tungsten (W)-Dissolved	0.000006	<DL	0.010	mg/L		17-MAR-20	R5028792

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2427833-18 SW06 Sampled By: Client on 10-MAR-20 @ 11:00 Matrix: Water							
Dissolved Metals							
Uranium (U)-Dissolved	0.00101	<DL	0.0050	mg/L		17-MAR-20	R5028792
Vanadium (V)-Dissolved	0.00054	<DL	0.0010	mg/L		17-MAR-20	R5028792
Zinc (Zn)-Dissolved	0.0034	<T	0.0030	mg/L		17-MAR-20	R5028792
Zirconium (Zr)-Dissolved	0.000444	<DL	0.0010	mg/L		17-MAR-20	R5028792
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-MAR-20	R5031826
Chemical Oxygen Demand	79		20	mg/L		16-MAR-20	R5027631
Oil and Grease, Total	1.8		1.0	mg/L	18-MAR-20	18-MAR-20	R5029649

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2427833-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2427833-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L2427833-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2427833-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2427833-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Total Organic Carbon	MS-B	L2427833-11, -15, -16

Sample Parameter Qualifier key listed:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RRV	Reported Result Verified By Repeat Analysis

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-MISA-TB	Effluent	Acidity (as CaCO ₃)	APHA 2310 B-POTENTIOMETRIC TITRATION
Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample.			
ALK-MISA-TB	Effluent	Alkalinity, Total (as CaCO ₃)	APHA 2320 B-Auto-Pot. Titration
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
BOD-TB	Water	Biochemical Oxygen Demand (BOD)	APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND
All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation.			
CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
CN-FREE-MISA-CFA-WT	Effluent	Free Cyanide by Continuous Flow Analyzer	ASTM D7237-10 (modified)
This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis.			
CN-T-MISA-CFA-WT	Effluent	Total Cyanide by CFA	ISO 14403-2:2012 (modified)
This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis.			
Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.			
CN-WAD-MISA-CFA-WT	Effluent	Weak Acid Dissociable Cyanide by CFA	APHA 4500-CN CYANIDE (modified)
This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.			
COD-TB	Water	Chemical Oxygen Demand	APHA 5220D
This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.			
COLOUR-TB	Water	Colour, True	APHA 2120 C
True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard.			
DO-CLIENT-TB	Water	Dissolved Oxygen, Client Supplied	Result supplied by Client

Reference Information

DOC-MISA-TB	Effluent	Dissolved Organic Carbon (DOC)	APHA 5310 B modified
Water samples are determined by filtering the sample through a 0.45 micron membrane filter prior to analysis. Analyzed by converting all carbonaceous material to carbon dioxide (CO ₂) by catalytic combustion at 850°C. The CO ₂ generated is measured by an infrared detector and is directly proportional to concentration of carbonaceous material in the sample			
EC-MISA-TB	Effluent	Conductivity (EC)	APHA 2510 B-ELECTRODE
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
HARDNESS-CALC-TB	Effluent	Hardness (as CaCO ₃)	CALCULATION
HG-DIS-WT	Effluent	Mercury (Hg)-Dissolved for MISA	SW846 7470A
HG-TOT-WT	Effluent	Mercury (Hg)-Total for MISA	SW846 7470A
MET-D-MISA-TB	Effluent	Dissolved Metals in Water (MISA)	APHA 3030B/6020B (mod)
Water samples are filtered (0.45 µm), preserved with nitric acid, and analyzed by CRC ICPMS.			
Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.			
MET-T-MISA-TB	Effluent	Total Metals in Water (MISA)	EPA 200.2/6020B (mod)
Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.			
Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.			
NH3-MISA-COL-TB	Effluent	Ammonia by Discrete Analyzer	APHA 4500-NH ₃ G. (modified)
Ammonia in aqueous matrices is analyzed using discrete analyzer with colourimetric detection.			
NH3-UNION-CALC-TB	Effluent	Un-ionized ammonia	Calculation
NO2-MISA-IC-TB	Effluent	Nitrite in Water by IC	EPA 300.1 (mod)
Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.			
NO3-MISA-IC-TB	Effluent	Nitrate in Water by IC	EPA 300.1 (mod)
Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.			
OGG-TOT-WT	Effluent	Oil and Grease, Total for MISA	APHA 5520 B-Hexane Gravimetric
PH-CLIENT-TB	Water	pH	Result supplied by Client
PH-MISA-TB	Effluent	pH	APHA 4500-H-ELECTRODE
This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode			
PO4-DO-COL-TB	Water	Dissolved Orthophosphate	APHA 4500-P B, F, G (modified)
Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.			
RA226-MMER-BE	Water	Radium 226	Radium Isotopes by Alpha Spectrometry
Determination of Gamma Emitting Radionuclides In Water and Solids by Gamma Spectrometry.			
SO4-MISA-IC-TB	Effluent	Sulfate in Water by IC	EPA 300.1 (mod)
Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.			
TDS-MISA-TB	Effluent	Total Dissolved Solids	APHA 2540 C (modified)
Aqueous matrices are analyzed using gravimetry and evaporation			
TEMP-CLIENT-TB	Water	Temperature	Result supplied by Client
TKN-WT	Effluent	Total Kjeldahl Nitrogen for MISA	APHA 4500-N

Reference Information

TOC-MISA-WP	Effluent	Total Organic Carbon by Combustion (MISA)	APHA 5310 B-WP
-------------	----------	---	----------------

Sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon is oxidized to CO₂ which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.

TOC-TB	Water	Total Organic Carbon (TOC)	APHA 5310 B modified
--------	-------	----------------------------	----------------------

Water samples are analyzed by converting all carbonaceous material to carbon dioxide (CO₂) by catalytic combustion at 850°C. The CO₂ generated is measured by an infrared detector and is directly proportional to concentration of carbonaceous material in the sample

TSS-MISA-TB	Effluent	Total Suspended Solids	APHA 2540 D (modified)
-------------	----------	------------------------	------------------------

Aqueous matrices are analyzed using gravimetry

TURBIDITY-TB	Water	Turbidity	APHA 2130 B-Nephelometer
--------------	-------	-----------	--------------------------

Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA
BE	BECQUEREL LABORATORIES INC. - MISSISSAUGA, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2427833

Report Date: 08-APR-20

Page 1 of 22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BOD-TB		Water						
Batch	R5031826							
WG3292456-2	LCS							
Biochemical Oxygen Demand			97.6		%		85-115	14-MAR-20
WG3292456-1	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	14-MAR-20
CL-L-IC-N-TB		Water						
Batch	R5028082							
WG3293057-3	DUP	L2427833-14						
Chloride (Cl)		20.1	21.6		mg/L	6.9	20	16-MAR-20
WG3293057-2	LCS							
Chloride (Cl)			100.0		%		90-110	16-MAR-20
WG3293057-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	16-MAR-20
WG3293057-4	MS	L2427833-15						
Chloride (Cl)			107.5		%		75-125	16-MAR-20
Batch	R5033913							
WG3296761-7	DUP	L2430326-3						
Chloride (Cl)		0.37	0.35		mg/L	7.7	20	22-MAR-20
WG3296761-6	LCS							
Chloride (Cl)			101.5		%		90-110	22-MAR-20
WG3296761-5	MB							
Chloride (Cl)			<0.10		mg/L		0.1	22-MAR-20
WG3296761-8	MS	L2430326-1						
Chloride (Cl)			109.4		%		75-125	22-MAR-20
COD-TB		Water						
Batch	R5027631							
WG3292976-3	DUP	L2427833-15						
Chemical Oxygen Demand		73	75		mg/L	2.7	20	16-MAR-20
WG3292976-2	LCS							
Chemical Oxygen Demand			106.2		%		85-115	16-MAR-20
WG3292976-1	MB							
Chemical Oxygen Demand			<20		mg/L		20	16-MAR-20
WG3292976-4	MS	L2427833-11						
Chemical Oxygen Demand			104.8		%		75-125	16-MAR-20
COLOUR-TB		Water						

Quality Control Report

Workorder: L2427833

Report Date: 08-APR-20

Page 2 of 22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
COLOUR-TB		Water						
Batch	R5026053							
WG3292514-3	DUP	L2427833-1						
Color, True		87.0	88.1		CU	1.3	20	14-MAR-20
WG3292514-6	DUP	L2427833-18						
Color, True		102	102		CU	0.1	20	14-MAR-20
WG3292514-2	LCS							
Color, True			99.7		%		85-115	14-MAR-20
WG3292514-5	LCS							
Color, True			100.0		%		85-115	14-MAR-20
WG3292514-1	MB							
Color, True			<2.0		CU		2	14-MAR-20
WG3292514-4	MB							
Color, True			<2.0		CU		2	14-MAR-20
F-IC-N-TB		Water						
Batch	R5028082							
WG3293057-3	DUP	L2427833-14						
Fluoride (F)		0.026	0.040	J	mg/L	0.014	0.04	16-MAR-20
WG3293057-2	LCS							
Fluoride (F)			100.9		%		90-110	16-MAR-20
WG3293057-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	16-MAR-20
WG3293057-4	MS	L2427833-15						
Fluoride (F)			91.4		%		75-125	16-MAR-20
PO4-DO-COL-TB		Water						
Batch	R5027388							
WG3292981-3	DUP	L2427833-12						
Orthophosphate-Dissolved (as P)		0.0620	0.0619		mg/L	0.2	20	16-MAR-20
WG3292981-2	LCS							
Orthophosphate-Dissolved (as P)			94.8		%		80-120	16-MAR-20
WG3292981-1	MB							
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	16-MAR-20
WG3292981-4	MS	L2427833-6						
Orthophosphate-Dissolved (as P)			93.0		%		70-130	16-MAR-20
TOC-TB		Water						
Batch	R5029230							
WG3293551-3	DUP	L2427833-3						
Total Organic Carbon		33.0	31.6		mg/L	4.3	20	17-MAR-20
WG3293551-2	LCS							

Quality Control Report

Workorder: L2427833

Report Date: 08-APR-20

Page 3 of 22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TOC-TB		Water						
Batch	R5029230							
WG3293551-2	LCS							
Total Organic Carbon			105.5		%		80-120	17-MAR-20
WG3293551-1	MB							
Total Organic Carbon			<0.50		mg/L		0.5	17-MAR-20
Batch	R5033997							
WG3296266-3	DUP	L2427833-15						
Total Organic Carbon		33.0	34.7		mg/L	4.8	20	20-MAR-20
WG3296266-2	LCS							
Total Organic Carbon			108.3		%		80-120	20-MAR-20
WG3296266-1	MB							
Total Organic Carbon			<0.50		mg/L		0.5	20-MAR-20
WG3296266-4	MS	L2427833-11						
Total Organic Carbon			N/A	MS-B	%		-	20-MAR-20
TURBIDITY-TB		Water						
Batch	R5025936							
WG3292452-2	LCS							
Turbidity			106.5		%		85-115	14-MAR-20
WG3292452-1	MB							
Turbidity			<0.10		NTU		0.1	14-MAR-20
ACY-MISA-TB		Effluent						
Batch	R5026747							
WG3292672-6	DUP	L2427833-8						
Acidity (as CaCO3)		11.8	11.8		mg/L	0.9	20	15-MAR-20
WG3292672-2	LCS							
Acidity (as CaCO3)			94.0		%		85-115	15-MAR-20
WG3292672-5	LCS							
Acidity (as CaCO3)			90.4		%		85-115	15-MAR-20
WG3292672-1	MB							
Acidity (as CaCO3)			2.8		mg/L		4	15-MAR-20
WG3292672-4	MB							
Acidity (as CaCO3)			1.8		mg/L		4	15-MAR-20
ALK-MISA-TB		Effluent						
Batch	R5025955							
WG3292026-6	DUP	L2427833-1						
Alkalinity, Total (as CaCO3)		166	167		mg/L	0.5	20	13-MAR-20
Alkalinity, Phenolphthalein		<0.2	<0.2	RPD-NA	mg/L	N/A	25	13-MAR-20
WG3292026-5	LCS							

Quality Control Report

Workorder: L2427833

Report Date: 08-APR-20

Page 4 of 22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ALK-MISA-TB		Effluent						
Batch	R5025955							
WG3292026-5	LCS							
Alkalinity, Total (as CaCO3)			97.8		%		85-115	13-MAR-20
WG3292026-4	MB							
Alkalinity, Total (as CaCO3)			<0.2		mg/L		2	13-MAR-20
Alkalinity, Phenolphthalein			<0.2		mg/L		2	13-MAR-20
CN-FREE-MISA-CFA-WT		Effluent						
Batch	R5029808							
WG3294012-3	DUP	L2427833-1						
Cyanide, Free		0.0005	0.0006	RPD-NA	mg/L	N/A	20	17-MAR-20
WG3294012-2	LCS							
Cyanide, Free			89.3		%		80-120	17-MAR-20
WG3294012-1	MB							
Cyanide, Free			0.0001		mg/L		0.002	17-MAR-20
WG3294012-4	MS	L2427833-1						
Cyanide, Free			94.9		%		75-125	17-MAR-20
CN-T-MISA-CFA-WT		Effluent						
Batch	R5029808							
WG3294012-3	DUP	L2427833-1						
Cyanide, Total		0.0018	0.0018	RPD-NA	mg/L	N/A	20	17-MAR-20
WG3294012-2	LCS							
Cyanide, Total			96.8		%		80-120	17-MAR-20
WG3294012-1	MB							
Cyanide, Total			0.0002		mg/L		0.002	17-MAR-20
WG3294012-4	MS	L2427833-1						
Cyanide, Total			96.8		%		75-125	17-MAR-20
CN-WAD-MISA-CFA-WT		Effluent						
Batch	R5029808							
WG3294012-3	DUP	L2427833-1						
Cyanide, Weak Acid Diss		0.0008	0.0007	RPD-NA	mg/L	N/A	20	18-MAR-20
WG3294012-2	LCS							
Cyanide, Weak Acid Diss			96.7		%		80-120	18-MAR-20
WG3294012-1	MB							
Cyanide, Weak Acid Diss			<0.0001		mg/L		0.002	18-MAR-20
WG3294012-4	MS	L2427833-1						
Cyanide, Weak Acid Diss			93.6		%		75-125	18-MAR-20
DOC-MISA-TB		Effluent						

Quality Control Report

Workorder: L2427833

Report Date: 08-APR-20

Page 5 of 22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DOC-MISA-TB		Effluent						
Batch	R5029248							
WG3292318-2	LCS							
Dissolved Organic Carbon			106.6		%		80-120	17-MAR-20
WG3292318-1	MB							
Dissolved Organic Carbon			0.2		mg/L		0.5	17-MAR-20
Batch	R5034009							
WG3296049-2	LCS							
Dissolved Organic Carbon			108.0		%		80-120	20-MAR-20
WG3296049-1	MB							
Dissolved Organic Carbon			0.2		mg/L		0.5	20-MAR-20
EC-MISA-TB		Effluent						
Batch	R5025955							
WG3292026-6	DUP	L2427833-1						
Conductivity (EC)		371	373		uS/cm	0.5	10	13-MAR-20
WG3292026-5	LCS							
Conductivity (EC)			96.4		%		90-110	13-MAR-20
WG3292026-4	MB							
Conductivity (EC)			1.0		uS/cm		2	13-MAR-20
HG-DIS-WT		Effluent						
Batch	R5031786							
WG3293900-3	DUP	L2427833-1						
Mercury (Hg)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	19-MAR-20
WG3293900-2	LCS							
Mercury (Hg)-Dissolved			99.0		%		80-120	19-MAR-20
WG3293900-1	MB							
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.00003	19-MAR-20
WG3293900-4	MS	L2427833-2						
Mercury (Hg)-Dissolved			92.0		%		70-130	19-MAR-20
HG-TOT-WT		Effluent						
Batch	R5031787							
WG3293886-3	DUP	L2427833-1						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	19-MAR-20
WG3293886-2	LCS							
Mercury (Hg)-Total			95.8		%		80-120	19-MAR-20
WG3293886-1	MB							
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	19-MAR-20
WG3293886-4	MS	L2427833-2						
Mercury (Hg)-Total			96.7		%		70-130	19-MAR-20

Quality Control Report

Workorder: L2427833

Report Date: 08-APR-20

Page 6 of 22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R5028792							
WG3293218-3	DUP	L2427833-14						
Aluminum (Al)-Dissolved		0.0174	0.0204		mg/L	16	20	17-MAR-20
Antimony (Sb)-Dissolved		0.000090	0.000085	RPD-NA	mg/L	N/A	20	17-MAR-20
Arsenic (As)-Dissolved		0.000841	0.000872	RPD-NA	mg/L	N/A	20	17-MAR-20
Barium (Ba)-Dissolved		0.0227	0.0228		mg/L	0.4	20	17-MAR-20
Beryllium (Be)-Dissolved		0.000008	0.000004	RPD-NA	mg/L	N/A	20	17-MAR-20
Bismuth (Bi)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	17-MAR-20
Boron (B)-Dissolved		0.0110	0.0110	RPD-NA	mg/L	N/A	20	17-MAR-20
Cadmium (Cd)-Dissolved		0.0000100	0.0000085	RPD-NA	mg/L	N/A	20	17-MAR-20
Calcium (Ca)-Dissolved		49.4	50.1		mg/L	1.6	20	17-MAR-20
Cesium (Cs)-Dissolved		0.0000010	0.0000010	RPD-NA	mg/L	N/A	20	17-MAR-20
Chromium (Cr)-Dissolved		0.00016	0.00016	RPD-NA	mg/L	N/A	20	17-MAR-20
Cobalt (Co)-Dissolved		0.000414	0.000420	RPD-NA	mg/L	N/A	20	17-MAR-20
Copper (Cu)-Dissolved		0.00180	0.00180		mg/L	0.0	20	17-MAR-20
Iron (Fe)-Dissolved		0.333	0.336		mg/L	1.0	20	17-MAR-20
Lead (Pb)-Dissolved		0.00006	0.00006		mg/L	1.3	20	17-MAR-20
Lithium (Li)-Dissolved		0.0060	0.0064	RPD-NA	mg/L	N/A	20	17-MAR-20
Magnesium (Mg)-Dissolved		19.6	19.6		mg/L	0.1	20	17-MAR-20
Manganese (Mn)-Dissolved		0.317	0.315		mg/L	0.8	20	17-MAR-20
Molybdenum (Mo)-Dissolved		0.000912	0.000902	RPD-NA	mg/L	N/A	20	17-MAR-20
Nickel (Ni)-Dissolved		0.00140	0.00140	RPD-NA	mg/L	N/A	20	17-MAR-20
Phosphorus (P)-Dissolved		0.010	0.010	RPD-NA	mg/L	N/A	20	17-MAR-20
Potassium (K)-Dissolved		2.34	2.32		mg/L	1.0	20	17-MAR-20
Rubidium (Rb)-Dissolved		0.00169	0.00163		mg/L	3.7	20	17-MAR-20
Selenium (Se)-Dissolved		0.000175	0.000190		mg/L	9.3	20	17-MAR-20
Silicon (Si)-Dissolved		5.68	5.80		mg/L	2.1	20	17-MAR-20
Silver (Ag)-Dissolved		<0.0000005	<0.0000005	RPD-NA	mg/L	N/A	20	17-MAR-20
Sodium (Na)-Dissolved		7.30	7.28		mg/L	0.3	20	17-MAR-20
Strontium (Sr)-Dissolved		0.102	0.104		mg/L	1.6	20	17-MAR-20
Sulfur (S)-Dissolved		3.2	3.2		mg/L	2.1	20	17-MAR-20
Tellurium (Te)-Dissolved		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	17-MAR-20
Thallium (Tl)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	17-MAR-20
Thorium (Th)-Dissolved		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	17-MAR-20
Tin (Sn)-Dissolved		0.000085	0.000060		mg/L			17-MAR-20

Quality Control Report

Workorder: L2427833

Report Date: 08-APR-20

Page 7 of 22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R5028792							
WG3293218-3	DUP	L2427833-14						
Tin (Sn)-Dissolved		0.000085	0.000060	RPD-NA	mg/L	N/A	20	17-MAR-20
Titanium (Ti)-Dissolved		0.00216	0.00218		mg/L	0.7	20	17-MAR-20
Tungsten (W)-Dissolved		0.000006	0.000006	RPD-NA	mg/L	N/A	20	17-MAR-20
Uranium (U)-Dissolved		0.00230	0.00231	RPD-NA	mg/L	N/A	20	17-MAR-20
Vanadium (V)-Dissolved		0.00066	0.00064	RPD-NA	mg/L	N/A	20	17-MAR-20
Zinc (Zn)-Dissolved		0.0442	0.0436		mg/L	1.2	20	17-MAR-20
Zirconium (Zr)-Dissolved		0.000354	0.000404	RPD-NA	mg/L	N/A	20	17-MAR-20
WG3293218-2	LCS							
Aluminum (Al)-Dissolved			99.3		%		80-120	17-MAR-20
Antimony (Sb)-Dissolved			102.7		%		80-120	17-MAR-20
Arsenic (As)-Dissolved			100.2		%		80-120	17-MAR-20
Barium (Ba)-Dissolved			106.2		%		80-120	17-MAR-20
Beryllium (Be)-Dissolved			96.7		%		80-120	17-MAR-20
Bismuth (Bi)-Dissolved			101.1		%		80-120	17-MAR-20
Boron (B)-Dissolved			95.6		%		80-120	17-MAR-20
Cadmium (Cd)-Dissolved			101.8		%		80-120	17-MAR-20
Calcium (Ca)-Dissolved			100.8		%		80-120	17-MAR-20
Cesium (Cs)-Dissolved			102.8		%		80-120	17-MAR-20
Chromium (Cr)-Dissolved			100.5		%		80-120	17-MAR-20
Cobalt (Co)-Dissolved			99.5		%		80-120	17-MAR-20
Copper (Cu)-Dissolved			98.5		%		80-120	17-MAR-20
Iron (Fe)-Dissolved			101.8		%		80-120	17-MAR-20
Lead (Pb)-Dissolved			101.4		%		80-120	17-MAR-20
Lithium (Li)-Dissolved			109.0		%		80-120	17-MAR-20
Magnesium (Mg)-Dissolved			102.9		%		80-120	17-MAR-20
Manganese (Mn)-Dissolved			99.3		%		80-120	17-MAR-20
Molybdenum (Mo)-Dissolved			100.2		%		80-120	17-MAR-20
Nickel (Ni)-Dissolved			98.2		%		80-120	17-MAR-20
Phosphorus (P)-Dissolved			105.9		%		70-130	17-MAR-20
Potassium (K)-Dissolved			104.2		%		80-120	17-MAR-20
Rubidium (Rb)-Dissolved			101.6		%		80-120	17-MAR-20
Selenium (Se)-Dissolved			99.1		%		80-120	17-MAR-20
Silicon (Si)-Dissolved			103.1		%		60-140	17-MAR-20

Quality Control Report

Workorder: L2427833

Report Date: 08-APR-20

Page 8 of 22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB	Effluent							
Batch	R5028792							
WG3293218-2	LCS							
Silver (Ag)-Dissolved			102.8		%		80-120	17-MAR-20
Sodium (Na)-Dissolved			102.0		%		80-120	17-MAR-20
Strontium (Sr)-Dissolved			98.5		%		80-120	17-MAR-20
Sulfur (S)-Dissolved			95.8		%		80-120	17-MAR-20
Tellurium (Te)-Dissolved			101.1		%		80-120	17-MAR-20
Thallium (Tl)-Dissolved			101.2		%		80-120	17-MAR-20
Thorium (Th)-Dissolved			96.9		%		80-120	17-MAR-20
Tin (Sn)-Dissolved			100.6		%		80-120	17-MAR-20
Titanium (Ti)-Dissolved			97.5		%		80-120	17-MAR-20
Tungsten (W)-Dissolved			102.0		%		80-120	17-MAR-20
Uranium (U)-Dissolved			100.6		%		80-120	17-MAR-20
Vanadium (V)-Dissolved			101.2		%		80-120	17-MAR-20
Zinc (Zn)-Dissolved			99.2		%		80-120	17-MAR-20
Zirconium (Zr)-Dissolved			93.9		%		80-120	17-MAR-20
WG3293218-6	LCS							
Aluminum (Al)-Dissolved			100.6		%		80-120	17-MAR-20
Antimony (Sb)-Dissolved			103.4		%		80-120	17-MAR-20
Arsenic (As)-Dissolved			100.3		%		80-120	17-MAR-20
Barium (Ba)-Dissolved			102.8		%		80-120	17-MAR-20
Beryllium (Be)-Dissolved			100.7		%		80-120	17-MAR-20
Bismuth (Bi)-Dissolved			102.8		%		80-120	17-MAR-20
Boron (B)-Dissolved			97.0		%		80-120	17-MAR-20
Cadmium (Cd)-Dissolved			101.9		%		80-120	17-MAR-20
Calcium (Ca)-Dissolved			101.8		%		80-120	17-MAR-20
Cesium (Cs)-Dissolved			104.7		%		80-120	17-MAR-20
Chromium (Cr)-Dissolved			101.1		%		80-120	17-MAR-20
Cobalt (Co)-Dissolved			101.2		%		80-120	17-MAR-20
Copper (Cu)-Dissolved			100.8		%		80-120	17-MAR-20
Iron (Fe)-Dissolved			104.3		%		80-120	17-MAR-20
Lead (Pb)-Dissolved			101.7		%		80-120	17-MAR-20
Lithium (Li)-Dissolved			100.6		%		80-120	17-MAR-20
Magnesium (Mg)-Dissolved			106.7		%		80-120	17-MAR-20
Manganese (Mn)-Dissolved			102.3		%		80-120	17-MAR-20
Molybdenum (Mo)-Dissolved			103.3		%		80-120	17-MAR-20

Quality Control Report

Workorder: L2427833

Report Date: 08-APR-20

Page 9 of 22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R5028792							
WG3293218-6	LCS							
Nickel (Ni)-Dissolved			100.0		%		80-120	17-MAR-20
Phosphorus (P)-Dissolved			102.9		%		70-130	17-MAR-20
Potassium (K)-Dissolved			105.5		%		80-120	17-MAR-20
Rubidium (Rb)-Dissolved			102.4		%		80-120	17-MAR-20
Selenium (Se)-Dissolved			102.7		%		80-120	17-MAR-20
Silicon (Si)-Dissolved			104.0		%		60-140	17-MAR-20
Silver (Ag)-Dissolved			105.5		%		80-120	17-MAR-20
Sodium (Na)-Dissolved			107.4		%		80-120	17-MAR-20
Strontium (Sr)-Dissolved			100.0		%		80-120	17-MAR-20
Sulfur (S)-Dissolved			98.0		%		80-120	17-MAR-20
Tellurium (Te)-Dissolved			106.8		%		80-120	17-MAR-20
Thallium (Tl)-Dissolved			100.2		%		80-120	17-MAR-20
Thorium (Th)-Dissolved			99.9		%		80-120	17-MAR-20
Tin (Sn)-Dissolved			102.9		%		80-120	17-MAR-20
Titanium (Ti)-Dissolved			100.9		%		80-120	17-MAR-20
Tungsten (W)-Dissolved			100.5		%		80-120	17-MAR-20
Uranium (U)-Dissolved			99.96		%		80-120	17-MAR-20
Vanadium (V)-Dissolved			102.0		%		80-120	17-MAR-20
Zinc (Zn)-Dissolved			101.7		%		80-120	17-MAR-20
Zirconium (Zr)-Dissolved			97.7		%		80-120	17-MAR-20
WG3293218-1	MB							
Aluminum (Al)-Dissolved			<0.0002		mg/L		0.005	17-MAR-20
Antimony (Sb)-Dissolved			<0.000005		mg/L		0.0006	17-MAR-20
Arsenic (As)-Dissolved			<0.0000002		mg/L		0.001	17-MAR-20
Barium (Ba)-Dissolved			<0.000005		mg/L		0.01	17-MAR-20
Beryllium (Be)-Dissolved			<0.000002		mg/L		0.001	17-MAR-20
Bismuth (Bi)-Dissolved			<0.000002		mg/L		0.001	17-MAR-20
Boron (B)-Dissolved			<0.0005		mg/L		0.05	17-MAR-20
Cadmium (Cd)-Dissolved			<0.0000005		mg/L		0.000017	17-MAR-20
Calcium (Ca)-Dissolved			<0.002		mg/L		0.2	17-MAR-20
Cesium (Cs)-Dissolved			<0.0000005		mg/L		0.00001	17-MAR-20
Chromium (Cr)-Dissolved			<0.00001		mg/L		0.001	17-MAR-20
Cobalt (Co)-Dissolved			<0.000002		mg/L		0.0005	17-MAR-20
Copper (Cu)-Dissolved			<0.00002		mg/L		0.001	17-MAR-20

Quality Control Report

Workorder: L2427833

Report Date: 08-APR-20

Page 10 of 22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R5028792							
WG3293218-1 MB								
	Iron (Fe)-Dissolved		<0.0005		mg/L		0.02	17-MAR-20
	Lead (Pb)-Dissolved		<0.00001		mg/L		0.00005	17-MAR-20
	Lithium (Li)-Dissolved		<0.0002		mg/L		0.05	17-MAR-20
	Magnesium (Mg)-Dissolved		<0.0005		mg/L		0.02	17-MAR-20
	Manganese (Mn)-Dissolved		<0.00002		mg/L		0.001	17-MAR-20
	Molybdenum (Mo)-Dissolved		<0.000002		mg/L		0.001	17-MAR-20
	Nickel (Ni)-Dissolved		<0.00002		mg/L		0.002	17-MAR-20
	Phosphorus (P)-Dissolved		<0.005		mg/L		0.05	17-MAR-20
	Potassium (K)-Dissolved		<0.01		mg/L		0.5	17-MAR-20
	Rubidium (Rb)-Dissolved		<0.000002		mg/L		0.0002	17-MAR-20
	Selenium (Se)-Dissolved		0.000015		mg/L		0.00005	17-MAR-20
	Silicon (Si)-Dissolved		0.010		mg/L		0.05	17-MAR-20
	Silver (Ag)-Dissolved		<0.0000005		mg/L		0.0001	17-MAR-20
	Sodium (Na)-Dissolved		<0.005		mg/L		0.1	17-MAR-20
	Strontium (Sr)-Dissolved		<0.00002		mg/L		0.001	17-MAR-20
	Sulfur (S)-Dissolved		<0.2		mg/L		0.5	17-MAR-20
	Tellurium (Te)-Dissolved		<0.00001		mg/L		0.001	17-MAR-20
	Thallium (Tl)-Dissolved		<0.000002		mg/L		0.0003	17-MAR-20
	Thorium (Th)-Dissolved		<0.00001		mg/L		0.0001	17-MAR-20
	Tin (Sn)-Dissolved		<0.000005		mg/L		0.001	17-MAR-20
	Titanium (Ti)-Dissolved		<0.00002		mg/L		0.002	17-MAR-20
	Tungsten (W)-Dissolved		<0.000002		mg/L		0.01	17-MAR-20
	Uranium (U)-Dissolved		<0.0000005		mg/L		0.005	17-MAR-20
	Vanadium (V)-Dissolved		<0.00002		mg/L		0.001	17-MAR-20
	Zinc (Zn)-Dissolved		<0.0002		mg/L		0.003	17-MAR-20
	Zirconium (Zr)-Dissolved		<0.000002		mg/L		0.001	17-MAR-20
WG3293218-5 MB								
	Aluminum (Al)-Dissolved		<0.0002		mg/L		0.005	17-MAR-20
	Antimony (Sb)-Dissolved		<0.000005		mg/L		0.0006	17-MAR-20
	Arsenic (As)-Dissolved		<0.0000002		mg/L		0.001	17-MAR-20
	Barium (Ba)-Dissolved		<0.000005		mg/L		0.01	17-MAR-20
	Beryllium (Be)-Dissolved		<0.000002		mg/L		0.001	17-MAR-20
	Bismuth (Bi)-Dissolved		<0.000002		mg/L		0.001	17-MAR-20
	Boron (B)-Dissolved		<0.0005		mg/L		0.05	17-MAR-20

Quality Control Report

Workorder: L2427833

Report Date: 08-APR-20

Page 11 of 22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB								
	Effluent							
Batch	R5028792							
WG3293218-5	MB							
Cadmium (Cd)-Dissolved			<0.0000005		mg/L		0.000017	17-MAR-20
Calcium (Ca)-Dissolved			<0.002		mg/L		0.2	17-MAR-20
Cesium (Cs)-Dissolved			<0.0000005		mg/L		0.00001	17-MAR-20
Chromium (Cr)-Dissolved			<0.00001		mg/L		0.001	17-MAR-20
Cobalt (Co)-Dissolved			<0.000002		mg/L		0.0005	17-MAR-20
Copper (Cu)-Dissolved			<0.00002		mg/L		0.001	17-MAR-20
Iron (Fe)-Dissolved			<0.0005		mg/L		0.02	17-MAR-20
Lead (Pb)-Dissolved			<0.00001		mg/L		0.00005	17-MAR-20
Lithium (Li)-Dissolved			<0.0002		mg/L		0.05	17-MAR-20
Magnesium (Mg)-Dissolved			<0.0005		mg/L		0.02	17-MAR-20
Manganese (Mn)-Dissolved			<0.00002		mg/L		0.001	17-MAR-20
Molybdenum (Mo)-Dissolved			<0.000002		mg/L		0.001	17-MAR-20
Nickel (Ni)-Dissolved			<0.00002		mg/L		0.002	17-MAR-20
Phosphorus (P)-Dissolved			<0.005		mg/L		0.05	17-MAR-20
Potassium (K)-Dissolved			<0.01		mg/L		0.5	17-MAR-20
Rubidium (Rb)-Dissolved			<0.000002		mg/L		0.0002	17-MAR-20
Selenium (Se)-Dissolved			0.000005		mg/L		0.00005	17-MAR-20
Silicon (Si)-Dissolved			0.010		mg/L		0.05	17-MAR-20
Silver (Ag)-Dissolved			<0.0000005		mg/L		0.0001	17-MAR-20
Sodium (Na)-Dissolved			<0.005		mg/L		0.1	17-MAR-20
Strontium (Sr)-Dissolved			<0.00002		mg/L		0.001	17-MAR-20
Sulfur (S)-Dissolved			<0.2		mg/L		0.5	17-MAR-20
Tellurium (Te)-Dissolved			<0.00001		mg/L		0.001	17-MAR-20
Thallium (Tl)-Dissolved			<0.000002		mg/L		0.0003	17-MAR-20
Thorium (Th)-Dissolved			<0.00001		mg/L		0.0001	17-MAR-20
Tin (Sn)-Dissolved			<0.000005		mg/L		0.001	17-MAR-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.002	17-MAR-20
Tungsten (W)-Dissolved			<0.000002		mg/L		0.01	17-MAR-20
Uranium (U)-Dissolved			<0.0000005		mg/L		0.005	17-MAR-20
Vanadium (V)-Dissolved			<0.00002		mg/L		0.001	17-MAR-20
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.003	17-MAR-20
Zirconium (Zr)-Dissolved			<0.000002		mg/L		0.001	17-MAR-20
WG3293218-4	MS	L2427833-15						
Aluminum (Al)-Dissolved			102.4		%		70-130	17-MAR-20

Quality Control Report

Workorder: L2427833

Report Date: 08-APR-20

Page 12 of 22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB								
	Effluent							
Batch	R5028792							
WG3293218-4 MS		L2427833-15						
Antimony (Sb)-Dissolved			105.6		%		70-130	17-MAR-20
Arsenic (As)-Dissolved			109.0		%		70-130	17-MAR-20
Barium (Ba)-Dissolved			100.2		%		70-130	17-MAR-20
Beryllium (Be)-Dissolved			104.9		%		70-130	17-MAR-20
Bismuth (Bi)-Dissolved			94.1		%		70-130	17-MAR-20
Boron (B)-Dissolved			106.7		%		70-130	17-MAR-20
Cadmium (Cd)-Dissolved			106.4		%		70-130	17-MAR-20
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	17-MAR-20
Cesium (Cs)-Dissolved			110.0		%		70-130	17-MAR-20
Chromium (Cr)-Dissolved			105.1		%		70-130	17-MAR-20
Cobalt (Co)-Dissolved			103.9		%		70-130	17-MAR-20
Copper (Cu)-Dissolved			102.6		%		70-130	17-MAR-20
Iron (Fe)-Dissolved			103.0		%		70-130	17-MAR-20
Lead (Pb)-Dissolved			100.7		%		70-130	17-MAR-20
Lithium (Li)-Dissolved			123.2		%		70-130	17-MAR-20
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	17-MAR-20
Manganese (Mn)-Dissolved			N/A	MS-B	%		-	17-MAR-20
Molybdenum (Mo)-Dissolved			103.8		%		70-130	17-MAR-20
Nickel (Ni)-Dissolved			101.6		%		70-130	17-MAR-20
Phosphorus (P)-Dissolved			114.1		%		70-130	17-MAR-20
Potassium (K)-Dissolved			102.6		%		70-130	17-MAR-20
Rubidium (Rb)-Dissolved			106.6		%		70-130	17-MAR-20
Selenium (Se)-Dissolved			125.9		%		70-130	17-MAR-20
Silicon (Si)-Dissolved			82.4		%		70-130	17-MAR-20
Silver (Ag)-Dissolved			107.5		%		70-130	17-MAR-20
Sodium (Na)-Dissolved			N/A	MS-B	%		-	17-MAR-20
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	17-MAR-20
Sulfur (S)-Dissolved			106.5		%		70-130	17-MAR-20
Tellurium (Te)-Dissolved			111.2		%		70-130	17-MAR-20
Thallium (Tl)-Dissolved			99.7		%		70-130	17-MAR-20
Thorium (Th)-Dissolved			104.9		%		70-130	17-MAR-20
Tin (Sn)-Dissolved			106.1		%		70-130	17-MAR-20
Titanium (Ti)-Dissolved			105.1		%		70-130	17-MAR-20

Quality Control Report

Workorder: L2427833

Report Date: 08-APR-20

Page 13 of 22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB								
	Effluent							
Batch	R5028792							
WG3293218-4 MS		L2427833-15						
Tungsten (W)-Dissolved			103.7		%		70-130	17-MAR-20
Uranium (U)-Dissolved			99.3		%		70-130	17-MAR-20
Vanadium (V)-Dissolved			104.6		%		70-130	17-MAR-20
Zinc (Zn)-Dissolved			106.2		%		70-130	17-MAR-20
Zirconium (Zr)-Dissolved			108.6		%		70-130	17-MAR-20
MET-T-MISA-TB								
	Effluent							
Batch	R5028753							
WG3293260-7 DUP		L2427833-18						
Aluminum (Al)-Total		0.197	0.190		mg/L	3.8	20	17-MAR-20
Antimony (Sb)-Total		0.000040	0.000035	RPD-NA	mg/L	N/A	20	17-MAR-20
Arsenic (As)-Total		0.00097	0.00093	RPD-NA	mg/L	N/A	20	17-MAR-20
Barium (Ba)-Total		0.0147	0.0146		mg/L	1.0	20	17-MAR-20
Beryllium (Be)-Total		0.0000168	0.0000166	RPD-NA	mg/L	N/A	20	17-MAR-20
Bismuth (Bi)-Total		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	17-MAR-20
Boron (B)-Total		0.0175	0.0185	RPD-NA	mg/L	N/A	20	17-MAR-20
Cadmium (Cd)-Total		0.000018	0.000013	RPD-NA	mg/L	N/A	20	17-MAR-20
Calcium (Ca)-Total		49.5	48.0		mg/L	3.1	20	17-MAR-20
Cesium (Cs)-Total		0.0000295	0.0000270		mg/L	8.9	20	17-MAR-20
Chromium (Cr)-Total		0.00052	0.00048	RPD-NA	mg/L	N/A	20	17-MAR-20
Cobalt (Co)-Total		0.000670	0.000660		mg/L	1.4	20	17-MAR-20
Copper (Cu)-Total		0.00108	0.00102		mg/L	4.3	20	17-MAR-20
Iron (Fe)-Total		1.25	1.23		mg/L	1.9	20	17-MAR-20
Lead (Pb)-Total		0.00020	0.00019		mg/L	2.4	20	17-MAR-20
Lithium (Li)-Total		0.0086	0.0088	RPD-NA	mg/L	N/A	20	17-MAR-20
Magnesium (Mg)-Total		20.3	20.1		mg/L	1.2	20	17-MAR-20
Manganese (Mn)-Total		0.207	0.204		mg/L	1.1	20	17-MAR-20
Molybdenum (Mo)-Total		0.000315	0.000325	RPD-NA	mg/L	N/A	20	17-MAR-20
Nickel (Ni)-Total		0.00190	0.00186	RPD-NA	mg/L	N/A	20	17-MAR-20
Phosphorus (P)-Total		0.080	0.060	J	mg/L	0.020	0.1	17-MAR-20
Potassium (K)-Total		1.96	1.92		mg/L	2.0	20	17-MAR-20
Rubidium (Rb)-Total		0.00190	0.00190		mg/L	0.2	20	17-MAR-20
Selenium (Se)-Total		0.000170	0.000160		mg/L	7.5	20	17-MAR-20
Silicon (Si)-Total		7.99	7.94		mg/L	0.5	20	17-MAR-20

Quality Control Report

Workorder: L2427833

Report Date: 08-APR-20

Page 14 of 22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5028753							
WG3293260-7	DUP	L2427833-18						
Silver (Ag)-Total		0.000067	0.000037	RPD-NA	mg/L	N/A	20	17-MAR-20
Sodium (Na)-Total		7.09	6.98		mg/L	1.6	20	17-MAR-20
Strontium (Sr)-Total		0.140	0.140		mg/L	0.1	20	17-MAR-20
Sulfur (S)-Total		2.6	2.2		mg/L	13	20	17-MAR-20
Tellurium (Te)-Total		<0.00002	0.00002	RPD-NA	mg/L	N/A	20	17-MAR-20
Thallium (Tl)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	17-MAR-20
Thorium (Th)-Total		0.00002	0.00002	RPD-NA	mg/L	N/A	20	17-MAR-20
Tin (Sn)-Total		0.00018	0.00008	RPD-NA	mg/L	N/A	20	17-MAR-20
Titanium (Ti)-Total		0.00845	0.00758		mg/L	11	20	17-MAR-20
Tungsten (W)-Total		0.00004	0.00002	RPD-NA	mg/L	N/A	20	17-MAR-20
Uranium (U)-Total		0.00104	0.00104	RPD-NA	mg/L	N/A	20	17-MAR-20
Vanadium (V)-Total		0.00085	0.00085	RPD-NA	mg/L	N/A	20	17-MAR-20
Zinc (Zn)-Total		0.0050	0.0050		mg/L	0.7	20	17-MAR-20
Zirconium (Zr)-Total		0.000510	0.000536	RPD-NA	mg/L	N/A	20	17-MAR-20
WG3293260-6	LCS							
Aluminum (Al)-Total			100.2		%		80-120	17-MAR-20
Antimony (Sb)-Total			99.4		%		80-120	17-MAR-20
Arsenic (As)-Total			99.1		%		80-120	17-MAR-20
Barium (Ba)-Total			102.2		%		80-120	17-MAR-20
Beryllium (Be)-Total			96.3		%		80-120	17-MAR-20
Bismuth (Bi)-Total			100.1		%		80-120	17-MAR-20
Boron (B)-Total			90.5		%		80-120	17-MAR-20
Cadmium (Cd)-Total			100.3		%		80-120	17-MAR-20
Calcium (Ca)-Total			98.0		%		80-120	17-MAR-20
Cesium (Cs)-Total			100.5		%		80-120	17-MAR-20
Chromium (Cr)-Total			102.8		%		80-120	17-MAR-20
Cobalt (Co)-Total			102.6		%		80-120	17-MAR-20
Copper (Cu)-Total			100.6		%		80-120	17-MAR-20
Iron (Fe)-Total			103.9		%		80-120	17-MAR-20
Lead (Pb)-Total			96.4		%		80-120	17-MAR-20
Lithium (Li)-Total			94.9		%		80-120	17-MAR-20
Magnesium (Mg)-Total			107.6		%		80-120	17-MAR-20
Manganese (Mn)-Total			101.7		%		80-120	17-MAR-20

Quality Control Report

Workorder: L2427833

Report Date: 08-APR-20

Page 15 of 22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5028753							
WG3293260-6	LCS							
Molybdenum (Mo)-Total			98.8		%		80-120	17-MAR-20
Nickel (Ni)-Total			101.4		%		80-120	17-MAR-20
Phosphorus (P)-Total			108.3		%		80-120	17-MAR-20
Potassium (K)-Total			105.4		%		80-120	17-MAR-20
Rubidium (Rb)-Total			102.8		%		80-120	17-MAR-20
Selenium (Se)-Total			104.8		%		80-120	17-MAR-20
Silicon (Si)-Total			105.7		%		80-120	17-MAR-20
Silver (Ag)-Total			102.0		%		80-120	17-MAR-20
Sodium (Na)-Total			108.6		%		80-120	17-MAR-20
Strontium (Sr)-Total			96.0		%		80-120	17-MAR-20
Sulfur (S)-Total			97.8		%		80-120	17-MAR-20
Tellurium (Te)-Total			100.6		%		80-120	17-MAR-20
Thallium (Tl)-Total			96.4		%		80-120	17-MAR-20
Thorium (Th)-Total			93.2		%		80-120	17-MAR-20
Tin (Sn)-Total			98.6		%		80-120	17-MAR-20
Titanium (Ti)-Total			99.7		%		80-120	17-MAR-20
Tungsten (W)-Total			99.3		%		80-120	17-MAR-20
Uranium (U)-Total			93.2		%		80-120	17-MAR-20
Vanadium (V)-Total			101.7		%		80-120	17-MAR-20
Zinc (Zn)-Total			100.6		%		80-120	17-MAR-20
Zirconium (Zr)-Total			95.0		%		80-120	17-MAR-20
WG3293260-5	MB							
Aluminum (Al)-Total			0.0010		mg/L		0.005	17-MAR-20
Antimony (Sb)-Total			0.000020		mg/L		0.0006	17-MAR-20
Arsenic (As)-Total			0.00003		mg/L		0.001	17-MAR-20
Barium (Ba)-Total			<0.00001		mg/L		0.01	17-MAR-20
Beryllium (Be)-Total			<0.0000001		mg/L		0.001	17-MAR-20
Bismuth (Bi)-Total			<0.00001		mg/L		0.001	17-MAR-20
Boron (B)-Total			<0.0005		mg/L		0.05	17-MAR-20
Cadmium (Cd)-Total			<0.000001		mg/L		0.000017	17-MAR-20
Calcium (Ca)-Total			<0.002		mg/L		0.2	17-MAR-20
Cesium (Cs)-Total			<0.0000005		mg/L		0.00001	17-MAR-20
Chromium (Cr)-Total			<0.00002		mg/L		0.001	17-MAR-20
Cobalt (Co)-Total			<0.000005		mg/L		0.0005	17-MAR-20

Quality Control Report

Workorder: L2427833

Report Date: 08-APR-20

Page 16 of 22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R5028753							
WG3293260-5	MB							
Copper (Cu)-Total			<0.00002		mg/L		0.001	17-MAR-20
Iron (Fe)-Total			<0.0005		mg/L		0.02	17-MAR-20
Lead (Pb)-Total			<0.00001		mg/L		0.00005	17-MAR-20
Lithium (Li)-Total			<0.0002		mg/L		0.05	17-MAR-20
Magnesium (Mg)-Total			0.0004		mg/L		0.02	17-MAR-20
Manganese (Mn)-Total			<0.0002		mg/L		0.001	17-MAR-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.001	17-MAR-20
Nickel (Ni)-Total			<0.00002		mg/L		0.002	17-MAR-20
Phosphorus (P)-Total			<0.005		mg/L		0.05	17-MAR-20
Potassium (K)-Total			<0.01		mg/L		0.5	17-MAR-20
Rubidium (Rb)-Total			0.000004		mg/L		0.0002	17-MAR-20
Selenium (Se)-Total			0.000010		mg/L		0.00005	17-MAR-20
Silicon (Si)-Total			0.026		mg/L		0.1	17-MAR-20
Silver (Ag)-Total			<0.000001		mg/L		0.0001	17-MAR-20
Sodium (Na)-Total			<0.005		mg/L		0.1	17-MAR-20
Strontium (Sr)-Total			<0.000005		mg/L		0.001	17-MAR-20
Sulfur (S)-Total			<0.2		mg/L		0.5	17-MAR-20
Tellurium (Te)-Total			<0.00002		mg/L		0.001	17-MAR-20
Thallium (Tl)-Total			<0.000005		mg/L		0.0003	17-MAR-20
Thorium (Th)-Total			<0.00001		mg/L		0.0001	17-MAR-20
Tin (Sn)-Total			<0.00001		mg/L		0.001	17-MAR-20
Titanium (Ti)-Total			0.00005		mg/L		0.002	17-MAR-20
Tungsten (W)-Total			<0.00001		mg/L		0.01	17-MAR-20
Uranium (U)-Total			<0.0000005		mg/L		0.005	17-MAR-20
Vanadium (V)-Total			0.00010		mg/L		0.001	17-MAR-20
Zinc (Zn)-Total			<0.0005		mg/L		0.003	17-MAR-20
Zirconium (Zr)-Total			<0.000002		mg/L		0.001	17-MAR-20
NH3-MISA-COL-TB								
	Effluent							
Batch	R5028160							
WG3292884-7	DUP	L2427833-1						
Ammonia, Total (as N)		0.114	0.110		mg/L	3.9	20	16-MAR-20
WG3292884-6	LCS							
Ammonia, Total (as N)			95.2		%		85-115	16-MAR-20
WG3292884-5	MB							

Quality Control Report

Workorder: L2427833

Report Date: 08-APR-20

Page 17 of 22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-MISA-COL-TB								
	Effluent							
Batch	R5028160							
WG3292884-5	MB							
Ammonia, Total (as N)			<0.002		mg/L		0.02	16-MAR-20
WG3292884-8	MS	L2427833-2						
Ammonia, Total (as N)			88.4		%		75-125	16-MAR-20
NO2-MISA-IC-TB								
	Effluent							
Batch	R5028082							
WG3293057-3	DUP	L2427833-14						
Nitrite (as N)		0.0025	0.0025	RPD-NA	mg/L	N/A	20	16-MAR-20
WG3293057-2	LCS							
Nitrite (as N)			101.6		%		90-110	16-MAR-20
WG3293057-1	MB							
Nitrite (as N)			<0.0005		mg/L		0.01	16-MAR-20
WG3293057-4	MS	L2427833-15						
Nitrite (as N)			108.5		%		75-125	16-MAR-20
NO3-MISA-IC-TB								
	Effluent							
Batch	R5028082							
WG3293057-3	DUP	L2427833-14						
Nitrate (as N)		0.184	0.177		mg/L	3.9	20	16-MAR-20
WG3293057-2	LCS							
Nitrate (as N)			101.5		%		90-110	16-MAR-20
WG3293057-1	MB							
Nitrate (as N)			0.003		mg/L		0.02	16-MAR-20
WG3293057-4	MS	L2427833-15						
Nitrate (as N)			103.3		%		75-125	16-MAR-20
OGG-TOT-WT								
	Effluent							
Batch	R5028562							
WG3294039-2	LCS							
Oil and Grease, Total			86.7		%		50-150	17-MAR-20
WG3294039-1	MB							
Oil and Grease, Total			0.6		mg/L		1	17-MAR-20
Batch	R5029649							
WG3294302-2	LCS							
Oil and Grease, Total			99.6		%		50-150	18-MAR-20
WG3294302-1	MB							
Oil and Grease, Total			0.4		mg/L		1	18-MAR-20
PH-MISA-TB	Effluent							

Quality Control Report

Workorder: L2427833

Report Date: 08-APR-20

Page 18 of 22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-MISA-TB		Effluent						
Batch	R5025955							
WG3292026-6	DUP	L2427833-1						
pH		7.55	7.55	J	pH	0.00	0.2	13-MAR-20
WG3292026-5	LCS							
pH			7.02		pH		6.9-7.1	13-MAR-20
SO4-MISA-IC-TB		Effluent						
Batch	R5028082							
WG3293057-3	DUP	L2427833-14						
Sulfate (SO4)		11.5	10.2		mg/L	13	20	16-MAR-20
WG3293057-2	LCS							
Sulfate (SO4)			101.7		%		90-110	16-MAR-20
WG3293057-1	MB							
Sulfate (SO4)			<0.02		mg/L		0.3	16-MAR-20
WG3293057-4	MS	L2427833-15						
Sulfate (SO4)			106.2		%		75-125	16-MAR-20
TDS-MISA-TB		Effluent						
Batch	R5028404							
WG3292919-3	DUP	L2427833-10						
Total Dissolved Solids		188	184		mg/L	1.8	20	16-MAR-20
WG3292919-2	LCS							
Total Dissolved Solids			96.8		%		85-115	16-MAR-20
WG3292919-1	MB							
Total Dissolved Solids			6		mg/L		10	16-MAR-20
Batch	R5028417							
WG3292933-2	LCS							
Total Dissolved Solids			96.0		%		85-115	16-MAR-20
WG3292933-1	MB							
Total Dissolved Solids			8		mg/L		10	16-MAR-20
TKN-WT		Effluent						
Batch	R5029667							
WG3294257-7	LCS							
Total Kjeldahl Nitrogen			108.5		%		80-120	18-MAR-20
WG3294257-6	MB							
Total Kjeldahl Nitrogen			<0.05		mg/L		0.18	18-MAR-20
Batch	R5032087							
WG3294283-2	LCS							
Total Kjeldahl Nitrogen			101.2		%		80-120	19-MAR-20
WG3294283-1	MB							

Quality Control Report

Workorder: L2427833

Report Date: 08-APR-20

Page 19 of 22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TKN-WT		Effluent						
Batch	R5032087							
WG3294283-1	MB							
Total Kjeldahl Nitrogen			<0.05		mg/L		0.18	19-MAR-20
TOC-MISA-WP		Effluent						
Batch	R5040493							
WG3299422-3	DUP	L2428235-1						
Total Organic Carbon		8.5	8.2		mg/L	4.3	20	25-MAR-20
WG3299422-2	LCS							
Total Organic Carbon			96.2		%		80-120	25-MAR-20
WG3299422-1	MB							
Total Organic Carbon			<0.1		mg/L		0.5	25-MAR-20
WG3299422-4	MS	L2428235-2						
Total Organic Carbon			97.1		%		70-130	25-MAR-20
TSS-MISA-TB		Effluent						
Batch	R5026749							
WG3292266-2	LCS							
Total Suspended Solids			95.9		%		85-115	14-MAR-20
WG3292266-1	MB							
Total Suspended Solids			<0.5		mg/L		2	14-MAR-20
Batch	R5028320							
WG3292928-3	DUP	L2428015-1						
Total Suspended Solids		41.0	45.0		mg/L	8.4	20	16-MAR-20
WG3292928-2	LCS							
Total Suspended Solids			98.0		%		85-115	16-MAR-20
WG3292928-1	MB							
Total Suspended Solids			<0.5		mg/L		2	16-MAR-20

Quality Control Report

Workorder: L2427833

Report Date: 08-APR-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Page 20 of 22

Contact: Amanda Jacobs

Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L2427833

Report Date: 08-APR-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Amanda Jacobs

Page 21 of 22

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Colour, True							
	1	10-MAR-20 10:00	14-MAR-20 14:45	48	101	hours	EHTR
	2	10-MAR-20 10:25	14-MAR-20 14:45	48	100	hours	EHTR
	3	10-MAR-20 11:00	14-MAR-20 14:45	48	100	hours	EHTR
	4	10-MAR-20 11:30	14-MAR-20 14:45	48	99	hours	EHTR
	5	10-MAR-20 12:00	14-MAR-20 14:45	48	99	hours	EHTR
	6	10-MAR-20 12:30	14-MAR-20 14:45	48	98	hours	EHTR
	7	10-MAR-20 10:30	14-MAR-20 14:45	48	100	hours	EHTR
	8	10-MAR-20 11:00	14-MAR-20 14:45	48	100	hours	EHTR
	9	10-MAR-20 11:30	14-MAR-20 14:45	48	99	hours	EHTR
	10	10-MAR-20 12:30	14-MAR-20 14:45	48	98	hours	EHTR
	11	10-MAR-20 14:00	14-MAR-20 14:45	48	97	hours	EHTR
	12	11-MAR-20 12:00	14-MAR-20 14:45	48	75	hours	EHTR
	13	11-MAR-20 12:45	14-MAR-20 14:45	48	74	hours	EHTR
	14	11-MAR-20 12:55	14-MAR-20 14:45	48	74	hours	EHTR
	15	11-MAR-20 13:15	14-MAR-20 14:45	48	73	hours	EHTR
	16	10-MAR-20 14:00	14-MAR-20 14:45	48	97	hours	EHTR
	17	10-MAR-20 12:00	14-MAR-20 14:45	48	99	hours	EHTR
	18	10-MAR-20 11:00	14-MAR-20 14:45	48	100	hours	EHTR
Turbidity							
	1	10-MAR-20 10:00	14-MAR-20 10:35	48	96	hours	EHTR
	2	10-MAR-20 10:25	14-MAR-20 10:35	48	96	hours	EHTR
	3	10-MAR-20 11:00	14-MAR-20 10:35	48	96	hours	EHTR
	4	10-MAR-20 11:30	14-MAR-20 10:35	48	95	hours	EHTR
	5	10-MAR-20 12:00	14-MAR-20 10:35	48	95	hours	EHTR
	6	10-MAR-20 12:30	14-MAR-20 10:35	48	94	hours	EHTR
	7	10-MAR-20 10:30	14-MAR-20 10:35	48	96	hours	EHTR
	8	10-MAR-20 11:00	14-MAR-20 10:35	48	96	hours	EHTR
	9	10-MAR-20 11:30	14-MAR-20 10:35	48	95	hours	EHTR
	10	10-MAR-20 12:30	14-MAR-20 10:35	48	94	hours	EHTR
	11	10-MAR-20 14:00	14-MAR-20 10:35	48	93	hours	EHTR
	12	11-MAR-20 12:00	14-MAR-20 10:35	48	71	hours	EHTR
	13	11-MAR-20 12:45	14-MAR-20 10:35	48	70	hours	EHTR
	14	11-MAR-20 12:55	14-MAR-20 10:35	48	70	hours	EHTR
	15	11-MAR-20 13:15	14-MAR-20 10:35	48	69	hours	EHTR
	16	10-MAR-20 14:00	14-MAR-20 10:35	48	93	hours	EHTR
	17	10-MAR-20 12:00	14-MAR-20 10:35	48	95	hours	EHTR
	18	10-MAR-20 11:00	14-MAR-20 10:35	48	96	hours	EHTR
Leachable Anions & Nutrients							
Nitrate in Water by IC							
	1	10-MAR-20 10:00	16-MAR-20 19:02	5	6	days	EHT
	2	10-MAR-20 10:25	16-MAR-20 19:02	5	6	days	EHT
	3	10-MAR-20 11:00	16-MAR-20 19:02	5	6	days	EHT
	4	10-MAR-20 11:30	16-MAR-20 19:02	5	6	days	EHT
	5	10-MAR-20 12:00	16-MAR-20 19:02	5	6	days	EHT
	6	10-MAR-20 12:30	16-MAR-20 19:02	5	6	days	EHT
	7	10-MAR-20 10:30	16-MAR-20 19:02	5	6	days	EHT
	8	10-MAR-20 11:00	16-MAR-20 19:02	5	6	days	EHT
	9	10-MAR-20 11:30	16-MAR-20 19:02	5	6	days	EHT
	10	10-MAR-20 12:30	16-MAR-20 19:02	5	6	days	EHT
	11	10-MAR-20 14:00	16-MAR-20 19:02	5	6	days	EHT
	16	10-MAR-20 14:00	16-MAR-20 19:02	5	6	days	EHT
	17	10-MAR-20 12:00	16-MAR-20 19:02	5	6	days	EHT

Quality Control Report

Workorder: L2427833

Report Date: 08-APR-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Page 22 of 22

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Leachable Anions & Nutrients							
Nitrate in Water by IC	18	10-MAR-20 11:00	16-MAR-20 19:02	5	6	days	EHT
Nitrite in Water by IC	1	10-MAR-20 10:00	16-MAR-20 19:02	5	6	days	EHT
	2	10-MAR-20 10:25	16-MAR-20 19:02	5	6	days	EHT
	3	10-MAR-20 11:00	16-MAR-20 19:02	5	6	days	EHT
	4	10-MAR-20 11:30	16-MAR-20 19:02	5	6	days	EHT
	5	10-MAR-20 12:00	16-MAR-20 19:02	5	6	days	EHT
	6	10-MAR-20 12:30	16-MAR-20 19:02	5	6	days	EHT
	7	10-MAR-20 10:30	16-MAR-20 19:02	5	6	days	EHT
	8	10-MAR-20 11:00	16-MAR-20 19:02	5	6	days	EHT
	9	10-MAR-20 11:30	16-MAR-20 19:02	5	6	days	EHT
	10	10-MAR-20 12:30	16-MAR-20 19:02	5	6	days	EHT
	11	10-MAR-20 14:00	16-MAR-20 19:02	5	6	days	EHT
	16	10-MAR-20 14:00	16-MAR-20 19:02	5	6	days	EHT
	17	10-MAR-20 12:00	16-MAR-20 19:02	5	6	days	EHT
	18	10-MAR-20 11:00	16-MAR-20 19:02	5	6	days	EHT

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2427833 were received on 13-MAR-20 15:45.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Your P.O. #: L2427833
Your C.O.C. #: N/A

Attention: Christine Paradis

ALS Laboratory Group
Environmental Div.
1081 Barton St.
Thunder Bay, ON
Canada P7B 5N3

Report Date: 2020/04/03
Report #: R6134113
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C077357

Received: 2020/03/23, 08:30

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Radium Isotopes by Alpha Spectrometry (1)	4	N/A	2020/04/01	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by BV Labs, unless otherwise agreed in writing. BV Labs is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by BV Labs, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Radium-226 results have not been corrected for blanks.



Your P.O. #: L2427833
Your C.O.C. #: N/A

Attention: Christine Paradis

ALS Laboratory Group
Environmental Div.
1081 Barton St.
Thunder Bay, ON
Canada P7B 5N3

Report Date: 2020/04/03
Report #: R6134113
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C077357
Received: 2020/03/23, 08:30

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Mayank Nigam, Project Manager
Email: Mayank.Nigam@bvlab.com
Phone# (905) 826-3080

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

BV Labs Job #: C077357
Report Date: 2020/04/03

ALS Laboratory Group
Your P.O. #: L2427833

RESULTS OF ANALYSES OF WATER

BV Labs ID		MHV559	MHV560	MHV561	MHV562		
Sampling Date		2020/03/10	2020/03/10	2020/03/10	2020/03/10		
COC Number		N/A	N/A	N/A	N/A		
	UNITS	L2427833-5 SW20	L2427833-8 SW23	L2427833-9 SW24	L2427833-15 SW22A	RDL	QC Batch
Radium-226	Bq/L	<0.010	<0.010	<0.010	<0.010	0.010	6650632
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



BUREAU
VERITAS

BV Labs Job #: C077357
Report Date: 2020/04/03

ALS Laboratory Group
Your P.O. #: L2427833

TEST SUMMARY

BV Labs ID: MHV559
Sample ID: L2427833-5 SW20
Matrix: Water

Collected: 2020/03/10
Shipped:
Received: 2020/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6650632	N/A	2020/04/01	Priya Sharma

BV Labs ID: MHV560
Sample ID: L2427833-8 SW23
Matrix: Water

Collected: 2020/03/10
Shipped:
Received: 2020/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6650632	N/A	2020/04/01	Priya Sharma

BV Labs ID: MHV561
Sample ID: L2427833-9 SW24
Matrix: Water

Collected: 2020/03/10
Shipped:
Received: 2020/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6650632	N/A	2020/04/01	Priya Sharma

BV Labs ID: MHV562
Sample ID: L2427833-15 SW22A
Matrix: Water

Collected: 2020/03/10
Shipped:
Received: 2020/03/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6650632	N/A	2020/04/01	Priya Sharma



BUREAU
VERITAS

BV Labs Job #: C077357

Report Date: 2020/04/03

ALS Laboratory Group

Your P.O. #: L2427833

GENERAL COMMENTS

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C077357
Report Date: 2020/04/03

ALS Laboratory Group
Your P.O. #: L2427833

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
6650632	SHC	Spiked Blank	Radium-226	2020/03/30		88	%	85 - 115
6650632	SHC	Method Blank	Radium-226	2020/03/30	<0.010		Bq/L	
6650632	SHC	RPD	Radium-226	2020/03/30	NC		%	N/A

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference $\leq 2 \times$ RDL).



BUREAU
VERITAS

BV Labs Job #: C077357
Report Date: 2020/04/03

ALS Laboratory Group
Your P.O. #: L2427833

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

<original signed by>

Kurt Headrick, Ph.D., C. Chem., Laboratory Manager

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



L2427833-COFC

Sample ID	Location	Depth	Temp 1	Temp 2	Date	Time	Material	Filter	Preserved	Analysis	Notes
125800	SW20	0	7.53	7.29	10-Mar-20	12:00	water	X			X
125801	SW02	0	7.47	7.63	10-Mar-20	12:30	Water	X			
125802	SW03	0	6.96	7.27	10-Mar-20	10:30	Water	X			
125803	SW23	0	6.95	5.82	10-Mar-20	11:00	Water	X			X
125804	SW24	0	7.26	5.17	10-Mar-20	11:30	Water	X			X
125805	SW15	0.07	7.05	6.13	10-Mar-20	12:30	Water	X			
125806	SW17	0	6.69	11.49	10-Mar-20	02:00	Water	X			
125807	SW29	0.06	6.38	0.7	11-Mar-20	12:00	Water	X			
125808	SW21A	0	6.92	4.97	11-Mar-20	12:45	Water	X			
125809	SW27	0	7.31	11.61	11-Mar-20	12:55	Water	X			
125810	SW22A	0	7.13	5.71	11-Mar-20	01:15	Water	X			X
125811	Field Blank - Surface Water				10-Mar-20	02:00	Water	X			
125812	Travel Blank - Surface Water				10-Mar-20	12:00	Water	X			
125813	SW06	0	7.09	10.6	10-Mar-20	11:00	Water	X			


Drinking Water (DW) Samples* (client use)	Special Instructions / Specify Criteria to add on report (client Use)	SAMPLE CONDITION AS RECEIVED (lab use only)	
		Frozen <input type="checkbox"/>	SIF Observations <input type="checkbox"/> Yes <input type="checkbox"/> No
Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Ice packs <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody seal intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
Are samples for human drinking water use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Cooling Initiated <input checked="" type="checkbox"/>	
MISA [Template NGSWMISA] Samples not filtered or preserved please do so in lab		INITIAL COOLER TEMPERATURES °C	FINAL COOLER TEMPERATURES °C
		83	

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
<original signed by>	2020-03-12	1100	<i>Y</i>	2020 March 13	345 PM			

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION WHITE - LABORATORY COPY YELLOW - CLIENT COPY NA-FM-0326e v09 Front/04 January 2014

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.



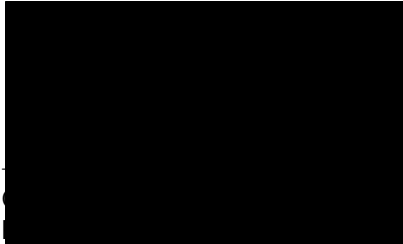
New Gold Inc. Rainy River Project
ATTN: Amanda Jacobs
24 Marr Rd
Barwick ON POW 1A0

Date Received: 11-APR-20
Report Date: 07-MAY-20 11:31 (MT)
Version: FINAL

Client Phone: 807-482-0931

Certificate of Analysis

Lab Work Order #: L2436089
Project P.O. #: 4500038941
Job Reference: SURFACE WATER
C of C Numbers:
Legal Site Desc:



[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3, Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598



ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-1 SW03							
Sampled By: NB, GC on 07-APR-20 @ 10:00							
Matrix: Water							
Field Tests							
pH, Client Supplied	7.03		0.10	pH		13-APR-20	R5056021
Temperature, Client Supplied	2.51		0	Degree C		13-APR-20	R5056021
Physical Tests							
Color, True	85.3		2.0	CU		13-APR-20	R5055985
Conductivity (EC)	174		1.0	uS/cm		13-APR-20	R5055940
Hardness (as CaCO3)	96.3		0.50	mg/L		21-APR-20	
pH	7.60		0.10	pH		13-APR-20	R5056271
Total Suspended Solids	17.0		2.0	mg/L		13-APR-20	R5056413
Total Dissolved Solids	132		13	mg/L		13-APR-20	R5056364
Turbidity	11.8		0.10	NTU		14-APR-20	R5056329
Anions and Nutrients							
Acidity (as CaCO3)	2.8		2.0	mg/L		15-APR-20	R5056949
Alkalinity, Total (as CaCO3)	87.2		2.0	mg/L		13-APR-20	R5056271
Ammonia, Total (as N)	0.045	<T	0.020	mg/L		15-APR-20	R5056963
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-APR-20	
Chloride (Cl)	5.85		0.10	mg/L		13-APR-20	R5056231
Fluoride (F)	0.035		0.020	mg/L		13-APR-20	R5056231
Nitrate (as N)	0.132	<T	0.020	mg/L		13-APR-20	R5056231
Nitrite (as N)	0.002	<DL	0.010	mg/L		13-APR-20	R5056231
Orthophosphate-Dissolved (as P)	0.0101	PEHT	0.0030	mg/L		15-APR-20	R5056878
Sulfate (SO4)	5.15		0.30	mg/L		13-APR-20	R5056231
Cyanides							
Cyanide, Weak Acid Diss	0.0006	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Total	0.0004	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Free	0.0006	<DL	0.0020	mg/L		14-APR-20	R5056752
Organic / Inorganic Carbon							
Dissolved Organic Carbon	14.5		0.50	mg/L		21-APR-20	R5059858
Total Organic Carbon	13.1		0.50	mg/L		15-APR-20	R5057467
Total Metals							
Aluminum (Al)-Total	0.646		0.0030	mg/L		17-APR-20	R5058646
Antimony (Sb)-Total	0.00004	<DL	0.00010	mg/L		17-APR-20	R5058646
Arsenic (As)-Total	0.00067	<T	0.00010	mg/L		17-APR-20	R5058646
Barium (Ba)-Total	0.0187		0.00010	mg/L		17-APR-20	R5058646
Beryllium (Be)-Total	0.000020	<DL	0.00010	mg/L		17-APR-20	R5058646
Bismuth (Bi)-Total	0.000010	<DL	0.000050	mg/L		17-APR-20	R5058646
Boron (B)-Total	0.0115	<T	0.010	mg/L		17-APR-20	R5058646
Cadmium (Cd)-Total	0.000016	<T	0.0000050	mg/L		17-APR-20	R5058646
Calcium (Ca)-Total	22.7		0.050	mg/L		17-APR-20	R5058646
Cesium (Cs)-Total	0.000080		0.000010	mg/L		17-APR-20	R5058646
Chromium (Cr)-Total	0.00112	<T	0.00010	mg/L		17-APR-20	R5058646
Cobalt (Co)-Total	0.000406	<T	0.00010	mg/L		17-APR-20	R5058646
Copper (Cu)-Total	0.00182	<T	0.00050	mg/L		17-APR-20	R5058646

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-1 SW03 Sampled By: NB, GC on 07-APR-20 @ 10:00 Matrix: Water							
Dissolved Metals							
Copper (Cu)-Dissolved	0.00108	<T	0.00020	mg/L		16-APR-20	R5057513
Iron (Fe)-Dissolved	0.125		0.010	mg/L		16-APR-20	R5057513
Lead (Pb)-Dissolved	0.000045	<DL	0.000050	mg/L		16-APR-20	R5057513
Lithium (Li)-Dissolved	0.00306	<T	0.0010	mg/L		16-APR-20	R5057513
Magnesium (Mg)-Dissolved	10.4		0.0050	mg/L		16-APR-20	R5057513
Manganese (Mn)-Dissolved	0.0369		0.00010	mg/L		16-APR-20	R5057513
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		14-APR-20	R5056605
Molybdenum (Mo)-Dissolved	0.000490	<T	0.000050	mg/L		16-APR-20	R5057513
Nickel (Ni)-Dissolved	0.00100	<T	0.00050	mg/L		16-APR-20	R5057513
Phosphorus (P)-Dissolved	0.024	<DL	0.050	mg/L		16-APR-20	R5057513
Potassium (K)-Dissolved	1.85		0.050	mg/L		16-APR-20	R5057513
Rubidium (Rb)-Dissolved	0.00162		0.00020	mg/L		16-APR-20	R5057513
Selenium (Se)-Dissolved	0.000140		0.000050	mg/L		16-APR-20	R5057513
Silicon (Si)-Dissolved	3.34		0.050	mg/L		16-APR-20	R5057513
Silver (Ag)-Dissolved	0.000002	<DL	0.000010	mg/L		16-APR-20	R5057513
Sodium (Na)-Dissolved	3.51		0.050	mg/L		16-APR-20	R5057513
Strontium (Sr)-Dissolved	0.0503		0.00010	mg/L		16-APR-20	R5057513
Sulfur (S)-Dissolved	2.0		0.50	mg/L		16-APR-20	R5057513
Tellurium (Te)-Dissolved	0.000010	<DL	0.00020	mg/L		16-APR-20	R5057513
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		16-APR-20	R5057513
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		16-APR-20	R5057513
Tin (Sn)-Dissolved	0.00005	<DL	0.00010	mg/L		16-APR-20	R5057513
Titanium (Ti)-Dissolved	0.00144		0.00030	mg/L		16-APR-20	R5057513
Tungsten (W)-Dissolved	0.000006	<DL	0.00010	mg/L		16-APR-20	R5057513
Uranium (U)-Dissolved	0.000475	<T	0.000010	mg/L		16-APR-20	R5057513
Vanadium (V)-Dissolved	0.00064	<T	0.00050	mg/L		16-APR-20	R5057513
Zinc (Zn)-Dissolved	0.0014	<T	0.0010	mg/L		16-APR-20	R5057513
Zirconium (Zr)-Dissolved	0.000314		0.000060	mg/L		16-APR-20	R5057513
Aggregate Organics							
Biochemical Oxygen Demand	<2.0	BODF	2.0	mg/L		19-APR-20	R5062796
COD	63		10	mg/L		20-APR-20	R5058625
Oil and Grease, Total	1.0		1.0	mg/L	15-APR-20	15-APR-20	R5056763
L2436089-2 SW23 Sampled By: NB, GC on 07-APR-20 @ 11:00 Matrix: Water							
Field Tests							
pH, Client Supplied	7.28		0.10	pH		13-APR-20	R5056021
Temperature, Client Supplied	2.37		0	Degree C		13-APR-20	R5056021
Physical Tests							
Color, True	93.4		2.0	CU		13-APR-20	R5055985
Conductivity (EC)	163		1.0	uS/cm		13-APR-20	R5055940
Hardness (as CaCO3)	89.7		0.50	mg/L		21-APR-20	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-2 SW23							
Sampled By: NB, GC on 07-APR-20 @ 11:00							
Matrix: Water							
Physical Tests							
pH	7.55		0.10	pH		13-APR-20	R5056271
Total Suspended Solids	18.5		2.0	mg/L		13-APR-20	R5056413
Total Dissolved Solids	122		13	mg/L		13-APR-20	R5056364
Turbidity	11.9		0.10	NTU		14-APR-20	R5056329
Anions and Nutrients							
Acidity (as CaCO3)	3.2		2.0	mg/L		15-APR-20	R5056949
Alkalinity, Total (as CaCO3)	81.2		2.0	mg/L		13-APR-20	R5056271
Ammonia, Total (as N)	0.040	<T	0.020	mg/L		15-APR-20	R5056963
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-APR-20	
Chloride (Cl)	3.90		0.10	mg/L		13-APR-20	R5056231
Fluoride (F)	0.035		0.020	mg/L		13-APR-20	R5056231
Nitrate (as N)	0.132	<T	0.020	mg/L		13-APR-20	R5056231
Nitrite (as N)	0.002	<DL	0.010	mg/L		13-APR-20	R5056231
Orthophosphate-Dissolved (as P)	0.0063	PEHT	0.0030	mg/L		15-APR-20	R5056878
Sulfate (SO4)	4.40	<T	0.30	mg/L		13-APR-20	R5056231
Cyanides							
Cyanide, Weak Acid Diss	0.0006	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Total	0.0004	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Free	0.0007	<DL	0.0020	mg/L		14-APR-20	R5056752
Organic / Inorganic Carbon							
Dissolved Organic Carbon	16.5		0.50	mg/L		21-APR-20	R5059858
Total Organic Carbon	14.4		0.50	mg/L		15-APR-20	R5057467
Total Metals							
Aluminum (Al)-Total	0.546		0.0030	mg/L		17-APR-20	R5058646
Antimony (Sb)-Total	0.00004	<DL	0.00010	mg/L		17-APR-20	R5058646
Arsenic (As)-Total	0.00072	<T	0.00010	mg/L		17-APR-20	R5058646
Barium (Ba)-Total	0.0177		0.00010	mg/L		17-APR-20	R5058646
Beryllium (Be)-Total	0.000010	<DL	0.00010	mg/L		17-APR-20	R5058646
Bismuth (Bi)-Total	0.000005	<DL	0.000050	mg/L		17-APR-20	R5058646
Boron (B)-Total	0.0105	<T	0.010	mg/L		17-APR-20	R5058646
Cadmium (Cd)-Total	0.000008	<T	0.0000050	mg/L		17-APR-20	R5058646
Calcium (Ca)-Total	21.8		0.050	mg/L		17-APR-20	R5058646
Cesium (Cs)-Total	0.000070		0.000010	mg/L		17-APR-20	R5058646
Chromium (Cr)-Total	0.00104	<T	0.00010	mg/L		17-APR-20	R5058646
Cobalt (Co)-Total	0.000446	<T	0.00010	mg/L		17-APR-20	R5058646
Copper (Cu)-Total	0.00156	<T	0.00050	mg/L		17-APR-20	R5058646
Iron (Fe)-Total	0.749		0.010	mg/L		17-APR-20	R5058646
Lead (Pb)-Total	0.000360	<T	0.000050	mg/L		17-APR-20	R5058646
Lithium (Li)-Total	0.00356	<T	0.0010	mg/L		17-APR-20	R5058646
Magnesium (Mg)-Total	10.1		0.0050	mg/L		17-APR-20	R5058646
Manganese (Mn)-Total	0.0662		0.00010	mg/L		17-APR-20	R5058646
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		14-APR-20	R5056604

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-2 SW23 Sampled By: NB, GC on 07-APR-20 @ 11:00 Matrix: Water							
Dissolved Metals							
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		14-APR-20	R5056605
Molybdenum (Mo)-Dissolved	0.000404	<T	0.000050	mg/L		16-APR-20	R5057513
Nickel (Ni)-Dissolved	0.00092	<T	0.00050	mg/L		16-APR-20	R5057513
Phosphorus (P)-Dissolved	0.026	<DL	0.050	mg/L		16-APR-20	R5057513
Potassium (K)-Dissolved	1.67		0.050	mg/L		16-APR-20	R5057513
Rubidium (Rb)-Dissolved	0.00165		0.00020	mg/L		16-APR-20	R5057513
Selenium (Se)-Dissolved	0.000185		0.000050	mg/L		16-APR-20	R5057513
Silicon (Si)-Dissolved	3.45		0.050	mg/L		16-APR-20	R5057513
Silver (Ag)-Dissolved	0.000005	<DL	0.000010	mg/L		16-APR-20	R5057513
Sodium (Na)-Dissolved	2.55		0.050	mg/L		16-APR-20	R5057513
Strontium (Sr)-Dissolved	0.0428		0.00010	mg/L		16-APR-20	R5057513
Sulfur (S)-Dissolved	1.4		0.50	mg/L		16-APR-20	R5057513
Tellurium (Te)-Dissolved	0.000075	<DL	0.00020	mg/L		16-APR-20	R5057513
Thallium (Tl)-Dissolved	0.000004	<DL	0.000010	mg/L		16-APR-20	R5057513
Thorium (Th)-Dissolved	0.00006	<DL	0.00010	mg/L		16-APR-20	R5057513
Tin (Sn)-Dissolved	0.00004	<DL	0.00010	mg/L		16-APR-20	R5057513
Titanium (Ti)-Dissolved	0.00158		0.00030	mg/L		16-APR-20	R5057513
Tungsten (W)-Dissolved	0.000026	<DL	0.00010	mg/L		16-APR-20	R5057513
Uranium (U)-Dissolved	0.000342	<T	0.000010	mg/L		16-APR-20	R5057513
Vanadium (V)-Dissolved	0.00068	<T	0.00050	mg/L		16-APR-20	R5057513
Zinc (Zn)-Dissolved	0.0014	<T	0.0010	mg/L		16-APR-20	R5057513
Zirconium (Zr)-Dissolved	0.000342		0.000060	mg/L		16-APR-20	R5057513
Aggregate Organics							
Biochemical Oxygen Demand	N.R	BODQ	2.0	mg/L		19-APR-20	R5062796
COD	66		10	mg/L		20-APR-20	R5058625
Oil and Grease, Total	1.4		1.0	mg/L	15-APR-20	15-APR-20	R5056763
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		22-APR-20	R5065722
L2436089-3 SW24 Sampled By: NB, GC on 07-APR-20 @ 11:15 Matrix: Water							
Field Tests							
pH, Client Supplied	7.31		0.10	pH		13-APR-20	R5056021
Temperature, Client Supplied	2.33		0	Degree C		13-APR-20	R5056021
Physical Tests							
Color, True	95.1		2.0	CU		13-APR-20	R5055985
Conductivity (EC)	161		1.0	uS/cm		13-APR-20	R5055940
Hardness (as CaCO3)	87.4		0.50	mg/L		21-APR-20	
pH	7.55		0.10	pH		13-APR-20	R5056271
Total Suspended Solids	19.0		2.0	mg/L		13-APR-20	R5056413
Total Dissolved Solids	120		13	mg/L		13-APR-20	R5056364
Turbidity	12.3		0.10	NTU		14-APR-20	R5056329

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-3 SW24							
Sampled By: NB, GC on 07-APR-20 @ 11:15							
Matrix: Water							
Physical Tests							
Anions and Nutrients							
Acidity (as CaCO3)	3.4		2.0	mg/L		15-APR-20	R5056949
Alkalinity, Total (as CaCO3)	82.2		2.0	mg/L		13-APR-20	R5056271
Ammonia, Total (as N)	0.040	<T	0.020	mg/L		15-APR-20	R5056963
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-APR-20	
Chloride (Cl)	3.85		0.10	mg/L		13-APR-20	R5056231
Fluoride (F)	0.035		0.020	mg/L		13-APR-20	R5056231
Nitrate (as N)	0.120	<T	0.020	mg/L		13-APR-20	R5056231
Nitrite (as N)	0.001	<DL	0.010	mg/L		13-APR-20	R5056231
Orthophosphate-Dissolved (as P)	0.0085	PEHT	0.0030	mg/L		15-APR-20	R5056878
Sulfate (SO4)	4.25	<T	0.30	mg/L		13-APR-20	R5056231
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Total	0.0004	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Free	0.0008	<DL	0.0020	mg/L		14-APR-20	R5056752
Organic / Inorganic Carbon							
Dissolved Organic Carbon	14.9		0.50	mg/L		22-APR-20	R5061360
Total Organic Carbon	15.3		0.50	mg/L		16-APR-20	R5058983
Total Metals							
Aluminum (Al)-Total	0.707		0.0030	mg/L		17-APR-20	R5058646
Antimony (Sb)-Total	0.00004	<DL	0.00010	mg/L		17-APR-20	R5058646
Arsenic (As)-Total	0.00071	<T	0.00010	mg/L		17-APR-20	R5058646
Barium (Ba)-Total	0.0179		0.00010	mg/L		17-APR-20	R5058646
Beryllium (Be)-Total	0.000022	<DL	0.00010	mg/L		17-APR-20	R5058646
Bismuth (Bi)-Total	0.000005	<DL	0.000050	mg/L		17-APR-20	R5058646
Boron (B)-Total	0.0105	<T	0.010	mg/L		17-APR-20	R5058646
Cadmium (Cd)-Total	0.000009	<T	0.0000050	mg/L		17-APR-20	R5058646
Calcium (Ca)-Total	21.0		0.050	mg/L		17-APR-20	R5058646
Cesium (Cs)-Total	0.000094		0.000010	mg/L		17-APR-20	R5058646
Chromium (Cr)-Total	0.00126	<T	0.00010	mg/L		17-APR-20	R5058646
Cobalt (Co)-Total	0.000482	<T	0.00010	mg/L		17-APR-20	R5058646
Copper (Cu)-Total	0.00166	<T	0.00050	mg/L		17-APR-20	R5058646
Iron (Fe)-Total	0.911		0.010	mg/L		17-APR-20	R5058646
Lead (Pb)-Total	0.000390	<T	0.000050	mg/L		17-APR-20	R5058646
Lithium (Li)-Total	0.00362	<T	0.0010	mg/L		17-APR-20	R5058646
Magnesium (Mg)-Total	10.4		0.0050	mg/L		17-APR-20	R5058646
Manganese (Mn)-Total	0.0674		0.00010	mg/L		17-APR-20	R5058646
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		14-APR-20	R5056604
Molybdenum (Mo)-Total	0.000410	<T	0.000050	mg/L		17-APR-20	R5058646
Nickel (Ni)-Total	0.00180	<T	0.00050	mg/L		17-APR-20	R5058646
Phosphorus (P)-Total	0.060		0.050	mg/L		17-APR-20	R5058646
Potassium (K)-Total	1.92		0.050	mg/L		17-APR-20	R5058646

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-3 SW24 Sampled By: NB, GC on 07-APR-20 @ 11:15 Matrix: Water							
Dissolved Metals							
Potassium (K)-Dissolved	1.66		0.050	mg/L		16-APR-20	R5057513
Rubidium (Rb)-Dissolved	0.00165		0.00020	mg/L		16-APR-20	R5057513
Selenium (Se)-Dissolved	0.000170		0.000050	mg/L		16-APR-20	R5057513
Silicon (Si)-Dissolved	3.45		0.050	mg/L		16-APR-20	R5057513
Silver (Ag)-Dissolved	0.000001	<DL	0.000010	mg/L		16-APR-20	R5057513
Sodium (Na)-Dissolved	2.50		0.050	mg/L		16-APR-20	R5057513
Strontium (Sr)-Dissolved	0.0435		0.00010	mg/L		16-APR-20	R5057513
Sulfur (S)-Dissolved	1.4		0.50	mg/L		16-APR-20	R5057513
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		16-APR-20	R5057513
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		16-APR-20	R5057513
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		16-APR-20	R5057513
Tin (Sn)-Dissolved	0.00017		0.00010	mg/L		16-APR-20	R5057513
Titanium (Ti)-Dissolved	0.00138		0.00030	mg/L		16-APR-20	R5057513
Tungsten (W)-Dissolved	0.000006	<DL	0.00010	mg/L		16-APR-20	R5057513
Uranium (U)-Dissolved	0.000344	<T	0.000010	mg/L		16-APR-20	R5057513
Vanadium (V)-Dissolved	0.00062	<T	0.00050	mg/L		16-APR-20	R5057513
Zinc (Zn)-Dissolved	0.0018	<T	0.0010	mg/L		16-APR-20	R5057513
Zirconium (Zr)-Dissolved	0.000306		0.000060	mg/L		16-APR-20	R5057513
Aggregate Organics							
Biochemical Oxygen Demand	<2.0	BODF	2.0	mg/L		19-APR-20	R5062796
COD	79		10	mg/L		20-APR-20	R5058625
Oil and Grease, Total	1.4		1.0	mg/L	15-APR-20	15-APR-20	R5056763
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		22-APR-20	R5065722
L2436089-4 SW16 Sampled By: NB, GC on 07-APR-20 @ 15:05 Matrix: Water							
Field Tests							
pH, Client Supplied	7.57		0.10	pH		13-APR-20	R5056021
Temperature, Client Supplied	2.29		0	Degree C		13-APR-20	R5056021
Physical Tests							
Color, True	80.6		2.0	CU		13-APR-20	R5055985
Conductivity (EC)	90.6		1.0	uS/cm		13-APR-20	R5055940
Hardness (as CaCO3)	44.5		0.50			11-APR-20	
pH	7.40		0.10	pH		13-APR-20	R5056271
Total Suspended Solids	24.5		2.0	mg/L		13-APR-20	R5056413
Total Dissolved Solids	92		13	mg/L		13-APR-20	R5056364
Turbidity	17.6		0.10	NTU		14-APR-20	R5056329
Anions and Nutrients							
Acidity (as CaCO3)	1.8	<DL	2.0	mg/L		15-APR-20	R5056949
Alkalinity, Total (as CaCO3)	40.6		2.0	mg/L		13-APR-20	R5056271
Ammonia, Total (as N)	0.035	<T	0.020	mg/L		15-APR-20	R5056963

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-4 SW16							
Sampled By: NB, GC on 07-APR-20 @ 15:05							
Matrix: Water							
Anions and Nutrients							
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-APR-20	
Chloride (Cl)	2.76		0.10	mg/L		13-APR-20	R5056231
Fluoride (F)	0.034		0.020	mg/L		13-APR-20	R5056231
Nitrate (as N)	0.162	<T	0.020	mg/L		13-APR-20	R5056231
Nitrite (as N)	<0.001	<W	0.010	mg/L		13-APR-20	R5056231
Orthophosphate-Dissolved (as P)	0.0042	PEHT	0.0030	mg/L		15-APR-20	R5056878
Sulfate (SO4)	4.00	<T	0.30	mg/L		13-APR-20	R5056231
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Total	0.0004	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Free	0.0009	<DL	0.0020	mg/L		14-APR-20	R5056752
Organic / Inorganic Carbon							
Dissolved Organic Carbon	13.2		0.50	mg/L		22-APR-20	R5061360
Total Organic Carbon	12.4		0.50	mg/L		15-APR-20	R5057467
Total Metals							
Aluminum (Al)-Total	0.812		0.0030	mg/L		17-APR-20	R5058646
Antimony (Sb)-Total	<0.00002	<W	0.00010	mg/L		17-APR-20	R5058646
Arsenic (As)-Total	0.00070	<T	0.00010	mg/L		17-APR-20	R5058646
Barium (Ba)-Total	0.0184		0.00010	mg/L		17-APR-20	R5058646
Beryllium (Be)-Total	0.000024	<DL	0.00010	mg/L		17-APR-20	R5058646
Bismuth (Bi)-Total	0.000010	<DL	0.000050	mg/L		17-APR-20	R5058646
Boron (B)-Total	0.0080	<DL	0.010	mg/L		17-APR-20	R5058646
Cadmium (Cd)-Total	0.000016	<T	0.000050	mg/L		17-APR-20	R5058646
Calcium (Ca)-Total	12.2		0.050	mg/L		17-APR-20	R5058646
Cesium (Cs)-Total	0.000125		0.000010	mg/L		17-APR-20	R5058646
Chromium (Cr)-Total	0.00172	<T	0.00010	mg/L		17-APR-20	R5058646
Cobalt (Co)-Total	0.000596	<T	0.00010	mg/L		17-APR-20	R5058646
Copper (Cu)-Total	0.00206	<T	0.00050	mg/L		17-APR-20	R5058646
Iron (Fe)-Total	1.11		0.010	mg/L		17-APR-20	R5058646
Lead (Pb)-Total	0.000535	<T	0.000050	mg/L		17-APR-20	R5058646
Lithium (Li)-Total	0.00230	<T	0.0010	mg/L		17-APR-20	R5058646
Magnesium (Mg)-Total	5.10		0.0050	mg/L		17-APR-20	R5058646
Manganese (Mn)-Total	0.0598		0.00010	mg/L		17-APR-20	R5058646
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		14-APR-20	R5056604
Molybdenum (Mo)-Total	0.000205	<T	0.000050	mg/L		17-APR-20	R5058646
Nickel (Ni)-Total	0.00212	<T	0.00050	mg/L		17-APR-20	R5058646
Phosphorus (P)-Total	0.054		0.050	mg/L		17-APR-20	R5058646
Potassium (K)-Total	1.48		0.050	mg/L		17-APR-20	R5058646
Rubidium (Rb)-Total	0.00367		0.00020	mg/L		17-APR-20	R5058646
Selenium (Se)-Total	0.000180		0.000050	mg/L		17-APR-20	R5058646
Silicon (Si)-Total	4.54		0.10	mg/L		17-APR-20	R5058646
Silver (Ag)-Total	0.000006	<DL	0.000010	mg/L		17-APR-20	R5058646

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-4 SW16							
Sampled By: NB, GC on 07-APR-20 @ 15:05							
Matrix: Water							
Total Metals							
Sodium (Na)-Total	2.94		0.050	mg/L		17-APR-20	R5058646
Strontium (Sr)-Total	0.0292		0.00020	mg/L		17-APR-20	R5058646
Sulfur (S)-Total	1.5		0.50	mg/L		17-APR-20	R5058646
Tellurium (Te)-Total	0.000020	<DL	0.00020	mg/L		17-APR-20	R5058646
Thallium (Tl)-Total	0.000007	<DL	0.00010	mg/L		17-APR-20	R5058646
Thorium (Th)-Total	0.000090	<DL	0.00010	mg/L		17-APR-20	R5058646
Tin (Sn)-Total	0.00014		0.00010	mg/L		17-APR-20	R5058646
Titanium (Ti)-Total	0.0220		0.00030	mg/L		17-APR-20	R5058646
Tungsten (W)-Total	0.000008	<DL	0.00010	mg/L		17-APR-20	R5058646
Uranium (U)-Total	0.000238	<T	0.00010	mg/L		17-APR-20	R5058646
Vanadium (V)-Total	0.00246	<T	0.00050	mg/L		17-APR-20	R5058646
Zinc (Zn)-Total	0.0050	<T	0.0030	mg/L		17-APR-20	R5058646
Zirconium (Zr)-Total	0.000460		0.000060	mg/L		17-APR-20	R5058646
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					16-APR-20	R5057216
Aluminum (Al)-Dissolved	0.0548		0.0010	mg/L		16-APR-20	R5057513
Antimony (Sb)-Dissolved	0.000065	<DL	0.00010	mg/L		16-APR-20	R5057513
Arsenic (As)-Dissolved	0.000500	<T	0.00010	mg/L		16-APR-20	R5057513
Barium (Ba)-Dissolved	0.0118		0.00010	mg/L		16-APR-20	R5057513
Beryllium (Be)-Dissolved	<0.000002	<W	0.00010	mg/L		16-APR-20	R5057513
Bismuth (Bi)-Dissolved	<0.000001	<W	0.000050	mg/L		16-APR-20	R5057513
Boron (B)-Dissolved	0.0070	<DL	0.010	mg/L		16-APR-20	R5057513
Cadmium (Cd)-Dissolved	0.0000084	<T	0.0000050	mg/L		16-APR-20	R5057513
Calcium (Ca)-Dissolved	10.4		0.050	mg/L		16-APR-20	R5057513
Cesium (Cs)-Dissolved	<0.000001	<W	0.000010	mg/L		16-APR-20	R5057513
Chromium (Cr)-Dissolved	0.00026	<T	0.00010	mg/L		16-APR-20	R5057513
Cobalt (Co)-Dissolved	0.000115	<T	0.00010	mg/L		16-APR-20	R5057513
Copper (Cu)-Dissolved	0.00116	<T	0.00020	mg/L		16-APR-20	R5057513
Iron (Fe)-Dissolved	0.160		0.010	mg/L		16-APR-20	R5057513
Lead (Pb)-Dissolved	0.000070	<T	0.000050	mg/L		16-APR-20	R5057513
Lithium (Li)-Dissolved	0.00134	<T	0.0010	mg/L		16-APR-20	R5057513
Magnesium (Mg)-Dissolved	4.50		0.0050	mg/L		16-APR-20	R5057513
Manganese (Mn)-Dissolved	0.0259		0.00010	mg/L		16-APR-20	R5057513
Mercury (Hg)-Dissolved	0.000005	<DL	0.000030	mg/L		14-APR-20	R5056605
Molybdenum (Mo)-Dissolved	0.000180	<T	0.000050	mg/L		16-APR-20	R5057513
Nickel (Ni)-Dissolved	0.00086	<T	0.00050	mg/L		16-APR-20	R5057513
Phosphorus (P)-Dissolved	0.022	<DL	0.050	mg/L		16-APR-20	R5057513
Potassium (K)-Dissolved	1.24		0.050	mg/L		16-APR-20	R5057513
Rubidium (Rb)-Dissolved	0.00173		0.00020	mg/L		16-APR-20	R5057513
Selenium (Se)-Dissolved	0.000145		0.000050	mg/L		16-APR-20	R5057513
Silicon (Si)-Dissolved	2.85		0.050	mg/L		16-APR-20	R5057513

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-4 SW16 Sampled By: NB, GC on 07-APR-20 @ 15:05 Matrix: Water							
Dissolved Metals							
Silver (Ag)-Dissolved	0.000001	<DL	0.000010	mg/L		16-APR-20	R5057513
Sodium (Na)-Dissolved	2.75		0.050	mg/L		16-APR-20	R5057513
Strontium (Sr)-Dissolved	0.0265		0.00010	mg/L		16-APR-20	R5057513
Sulfur (S)-Dissolved	1.2		0.50	mg/L		16-APR-20	R5057513
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		16-APR-20	R5057513
Thallium (Tl)-Dissolved	0.000001	<DL	0.000010	mg/L		16-APR-20	R5057513
Thorium (Th)-Dissolved	0.00008	<DL	0.00010	mg/L		16-APR-20	R5057513
Tin (Sn)-Dissolved	0.00006	<DL	0.00010	mg/L		16-APR-20	R5057513
Titanium (Ti)-Dissolved	0.00200		0.00030	mg/L		16-APR-20	R5057513
Tungsten (W)-Dissolved	0.000004	<DL	0.00010	mg/L		16-APR-20	R5057513
Uranium (U)-Dissolved	0.000194	<T	0.000010	mg/L		16-APR-20	R5057513
Vanadium (V)-Dissolved	0.00052	<T	0.00050	mg/L		16-APR-20	R5057513
Zinc (Zn)-Dissolved	0.0022	<T	0.0010	mg/L		16-APR-20	R5057513
Zirconium (Zr)-Dissolved	0.000280		0.000060	mg/L		16-APR-20	R5057513
Aggregate Organics							
Biochemical Oxygen Demand	2.7		2.0	mg/L		11-APR-20	R5057456
COD	61		10	mg/L		20-APR-20	R5058625
Oil and Grease, Total	1.0		1.0	mg/L	15-APR-20	15-APR-20	R5056763
L2436089-5 SW17 Sampled By: NB, GC on 07-APR-20 @ 13:20 Matrix: Water							
Field Tests							
pH, Client Supplied	7.37		0.10	pH		13-APR-20	R5056021
Temperature, Client Supplied	2.81		0	Degree C		13-APR-20	R5056021
Physical Tests							
Color, True	53.6		2.0	CU		13-APR-20	R5055985
Conductivity (EC)	199		1.0	uS/cm		13-APR-20	R5055940
Hardness (as CaCO3)	115		0.50	mg/L		22-APR-20	
pH	7.73		0.10	pH		13-APR-20	R5056271
Total Suspended Solids	16.0		2.0	mg/L		13-APR-20	R5056413
Total Dissolved Solids	118		13	mg/L		13-APR-20	R5056364
Turbidity	8.06		0.10	NTU		14-APR-20	R5056329
Anions and Nutrients							
Acidity (as CaCO3)	2.2		2.0	mg/L		15-APR-20	R5056949
Alkalinity, Total (as CaCO3)	115		2.0	mg/L		13-APR-20	R5056271
Ammonia, Total (as N)	0.025	<T	0.020	mg/L		15-APR-20	R5056963
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-APR-20	
Chloride (Cl)	1.10		0.10	mg/L		13-APR-20	R5056231
Fluoride (F)	0.038		0.020	mg/L		13-APR-20	R5056231
Nitrate (as N)	0.042	<T	0.020	mg/L		13-APR-20	R5056231
Nitrite (as N)	<0.001	<W	0.010	mg/L		13-APR-20	R5056231
Orthophosphate-Dissolved (as P)	0.0096	PEHT	0.0030	mg/L		15-APR-20	R5056878

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-5 SW17 Sampled By: NB, GC on 07-APR-20 @ 13:20 Matrix: Water							
Anions and Nutrients							
Sulfate (SO4)	2.90	<T	0.30	mg/L		13-APR-20	R5056231
Cyanides							
Cyanide, Weak Acid Diss	0.0001	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Total	0.0002	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Free	0.0006	<DL	0.0020	mg/L		14-APR-20	R5056752
Organic / Inorganic Carbon							
Dissolved Organic Carbon	9.10		0.50	mg/L		21-APR-20	R5059858
Total Organic Carbon	9.03		0.50	mg/L		15-APR-20	R5057467
Total Metals							
Aluminum (Al)-Total	0.442		0.0030	mg/L		17-APR-20	R5058646
Antimony (Sb)-Total	0.00002	<DL	0.00010	mg/L		17-APR-20	R5058646
Arsenic (As)-Total	0.00054	<T	0.00010	mg/L		17-APR-20	R5058646
Barium (Ba)-Total	0.0201		0.00010	mg/L		17-APR-20	R5058646
Beryllium (Be)-Total	0.000010	<DL	0.00010	mg/L		17-APR-20	R5058646
Bismuth (Bi)-Total	0.000005	<DL	0.000050	mg/L		17-APR-20	R5058646
Boron (B)-Total	0.0070	<DL	0.010	mg/L		17-APR-20	R5058646
Cadmium (Cd)-Total	0.000014	<T	0.000050	mg/L		17-APR-20	R5058646
Calcium (Ca)-Total	25.6		0.050	mg/L		17-APR-20	R5058646
Cesium (Cs)-Total	0.000068		0.000010	mg/L		17-APR-20	R5058646
Chromium (Cr)-Total	0.00094	<T	0.00010	mg/L		17-APR-20	R5058646
Cobalt (Co)-Total	0.000342	<T	0.00010	mg/L		17-APR-20	R5058646
Copper (Cu)-Total	0.00150	<T	0.00050	mg/L		17-APR-20	R5058646
Iron (Fe)-Total	0.570		0.010	mg/L		17-APR-20	R5058646
Lead (Pb)-Total	0.000300	<T	0.000050	mg/L		17-APR-20	R5058646
Lithium (Li)-Total	0.00318	<T	0.0010	mg/L		17-APR-20	R5058646
Magnesium (Mg)-Total	13.4		0.0050	mg/L		17-APR-20	R5058646
Manganese (Mn)-Total	0.0347		0.00010	mg/L		17-APR-20	R5058646
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		14-APR-20	R5056604
Molybdenum (Mo)-Total	0.000360	<T	0.000050	mg/L		17-APR-20	R5058646
Nickel (Ni)-Total	0.00150	<T	0.00050	mg/L		17-APR-20	R5058646
Phosphorus (P)-Total	0.040	<DL	0.050	mg/L		17-APR-20	R5058646
Potassium (K)-Total	1.51		0.050	mg/L		17-APR-20	R5058646
Rubidium (Rb)-Total	0.00205		0.00020	mg/L		17-APR-20	R5058646
Selenium (Se)-Total	0.000110		0.000050	mg/L		17-APR-20	R5058646
Silicon (Si)-Total	4.37		0.10	mg/L		17-APR-20	R5058646
Silver (Ag)-Total	0.000004	<DL	0.000010	mg/L		17-APR-20	R5058646
Sodium (Na)-Total	1.76		0.050	mg/L		17-APR-20	R5058646
Strontium (Sr)-Total	0.0533		0.00020	mg/L		17-APR-20	R5058646
Sulfur (S)-Total	1.1		0.50	mg/L		17-APR-20	R5058646
Tellurium (Te)-Total	<0.000005	<W	0.00020	mg/L		17-APR-20	R5058646
Thallium (Tl)-Total	0.000004	<DL	0.000010	mg/L		17-APR-20	R5058646
Thorium (Th)-Total	0.000040	<DL	0.00010	mg/L		17-APR-20	R5058646

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-5 SW17							
Sampled By: NB, GC on 07-APR-20 @ 13:20							
Matrix: Water							
Total Metals							
Tin (Sn)-Total	0.00016		0.00010	mg/L		17-APR-20	R5058646
Titanium (Ti)-Total	0.0127		0.00030	mg/L		17-APR-20	R5058646
Tungsten (W)-Total	0.000018	<DL	0.00010	mg/L		17-APR-20	R5058646
Uranium (U)-Total	0.000937	<T	0.000010	mg/L		17-APR-20	R5058646
Vanadium (V)-Total	0.00182	<T	0.00050	mg/L		17-APR-20	R5058646
Zinc (Zn)-Total	0.0055	<T	0.0030	mg/L		17-APR-20	R5058646
Zirconium (Zr)-Total	0.000334		0.000060	mg/L		17-APR-20	R5058646
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					16-APR-20	R5057216
Aluminum (Al)-Dissolved	0.0168	<T	0.0010	mg/L		16-APR-20	R5057513
Antimony (Sb)-Dissolved	0.000060	<DL	0.00010	mg/L		16-APR-20	R5057513
Arsenic (As)-Dissolved	0.000380	<T	0.00010	mg/L		16-APR-20	R5057513
Barium (Ba)-Dissolved	0.0164		0.00010	mg/L		16-APR-20	R5057513
Beryllium (Be)-Dissolved	<0.000002	<W	0.00010	mg/L		16-APR-20	R5057513
Bismuth (Bi)-Dissolved	<0.000001	<W	0.000050	mg/L		16-APR-20	R5057513
Boron (B)-Dissolved	0.0085	<DL	0.010	mg/L		16-APR-20	R5057513
Cadmium (Cd)-Dissolved	0.0000084	<T	0.0000050	mg/L		16-APR-20	R5057513
Calcium (Ca)-Dissolved	24.5		0.050	mg/L		16-APR-20	R5057513
Cesium (Cs)-Dissolved	0.000001	<DL	0.000010	mg/L		16-APR-20	R5057513
Chromium (Cr)-Dissolved	0.00012	<T	0.00010	mg/L		16-APR-20	R5057513
Cobalt (Co)-Dissolved	0.000099	<DL	0.00010	mg/L		16-APR-20	R5057513
Copper (Cu)-Dissolved	0.00088	<T	0.00020	mg/L		16-APR-20	R5057513
Iron (Fe)-Dissolved	0.0568		0.010	mg/L		16-APR-20	R5057513
Lead (Pb)-Dissolved	0.000020	<DL	0.000050	mg/L		16-APR-20	R5057513
Lithium (Li)-Dissolved	0.00248	<T	0.0010	mg/L		16-APR-20	R5057513
Magnesium (Mg)-Dissolved	13.0		0.0050	mg/L		16-APR-20	R5057513
Manganese (Mn)-Dissolved	0.0190		0.00010	mg/L		16-APR-20	R5057513
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		14-APR-20	R5056605
Molybdenum (Mo)-Dissolved	0.000304	<T	0.000050	mg/L		16-APR-20	R5057513
Nickel (Ni)-Dissolved	0.00080	<T	0.00050	mg/L		16-APR-20	R5057513
Phosphorus (P)-Dissolved	0.026	<DL	0.050	mg/L		16-APR-20	R5057513
Potassium (K)-Dissolved	1.36		0.050	mg/L		16-APR-20	R5057513
Rubidium (Rb)-Dissolved	0.00103		0.00020	mg/L		16-APR-20	R5057513
Selenium (Se)-Dissolved	0.000115		0.000050	mg/L		16-APR-20	R5057513
Silicon (Si)-Dissolved	3.26		0.050	mg/L		16-APR-20	R5057513
Silver (Ag)-Dissolved	<0.000001	<W	0.000010	mg/L		16-APR-20	R5057513
Sodium (Na)-Dissolved	1.60		0.050	mg/L		16-APR-20	R5057513
Strontium (Sr)-Dissolved	0.0489		0.00010	mg/L		16-APR-20	R5057513
Sulfur (S)-Dissolved	1.0		0.50	mg/L		16-APR-20	R5057513
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		16-APR-20	R5057513
Thallium (Tl)-Dissolved	0.000001	<DL	0.000010	mg/L		16-APR-20	R5057513

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-5 SW17 Sampled By: NB, GC on 07-APR-20 @ 13:20 Matrix: Water							
Dissolved Metals							
Thorium (Th)-Dissolved	0.00002	<DL	0.00010	mg/L		16-APR-20	R5057513
Tin (Sn)-Dissolved	0.00076	RRV	0.00010	mg/L		16-APR-20	R5057513
Titanium (Ti)-Dissolved	0.00068		0.00030	mg/L		16-APR-20	R5057513
Tungsten (W)-Dissolved	0.000004	<DL	0.00010	mg/L		16-APR-20	R5057513
Uranium (U)-Dissolved	0.000879	<T	0.000010	mg/L		16-APR-20	R5057513
Vanadium (V)-Dissolved	0.00072	<T	0.00050	mg/L		16-APR-20	R5057513
Zinc (Zn)-Dissolved	0.0026	<T	0.0010	mg/L		16-APR-20	R5057513
Zirconium (Zr)-Dissolved	0.000254		0.000060	mg/L		16-APR-20	R5057513
Aggregate Organics							
Biochemical Oxygen Demand	8.6		5.0	mg/L		11-APR-20	R5057456
COD	56		10	mg/L		20-APR-20	R5058625
Oil and Grease, Total	1.6		1.0	mg/L	15-APR-20	15-APR-20	R5056763
L2436089-6 SW22A Sampled By: NB, GC on 09-APR-20 @ 07:45 Matrix: Water							
Field Tests							
pH, Client Supplied	7.48		0.10	pH		13-APR-20	R5056021
Temperature, Client Supplied	2.03		0	Degree C		13-APR-20	R5056021
Physical Tests							
Color, True	89.4		2.0	CU		13-APR-20	R5055985
Conductivity (EC)	167		1.0	uS/cm		13-APR-20	R5055940
Hardness (as CaCO3)	94.6		0.50	mg/L		21-APR-20	
pH	7.55		0.10	pH		13-APR-20	R5056271
Total Suspended Solids	9.0		2.0	mg/L		14-APR-20	R5056894
Total Dissolved Solids	126		13	mg/L		15-APR-20	R5057412
Turbidity	8.58		0.10	NTU		14-APR-20	R5056329
Anions and Nutrients							
Acidity (as CaCO3)	3.4		2.0	mg/L		15-APR-20	R5056949
Alkalinity, Total (as CaCO3)	82.4		2.0	mg/L		13-APR-20	R5056271
Ammonia, Total (as N)	0.030	<T	0.020	mg/L		15-APR-20	R5056963
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-APR-20	
Chloride (Cl)	4.69		0.10	mg/L		13-APR-20	R5056231
Fluoride (F)	0.035		0.020	mg/L		13-APR-20	R5056231
Nitrate (as N)	0.088	<T	0.020	mg/L		13-APR-20	R5056231
Nitrite (as N)	0.002	<DL	0.010	mg/L		13-APR-20	R5056231
Orthophosphate-Dissolved (as P)	0.0083		0.0030	mg/L		15-APR-20	R5056878
Sulfate (SO4)	5.05		0.30	mg/L		13-APR-20	R5056231
Cyanides							
Cyanide, Weak Acid Diss	0.0002	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Total	0.0004	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Free	0.0006	<DL	0.0020	mg/L		14-APR-20	R5056752
Organic / Inorganic Carbon							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-6 SW22A							
Sampled By: NB, GC on 09-APR-20 @ 07:45							
Matrix: Water							
Organic / Inorganic Carbon							
Dissolved Organic Carbon	14.6		0.50	mg/L		21-APR-20	R5059858
Total Organic Carbon	13.9		0.50	mg/L		15-APR-20	R5057467
Total Metals							
Aluminum (Al)-Total	0.603		0.0030	mg/L		17-APR-20	R5058646
Antimony (Sb)-Total	0.00004	<DL	0.00010	mg/L		17-APR-20	R5058646
Arsenic (As)-Total	0.00068	<T	0.00010	mg/L		17-APR-20	R5058646
Barium (Ba)-Total	0.0173		0.00010	mg/L		17-APR-20	R5058646
Beryllium (Be)-Total	0.000008	<DL	0.00010	mg/L		17-APR-20	R5058646
Bismuth (Bi)-Total	0.000005	<DL	0.000050	mg/L		17-APR-20	R5058646
Boron (B)-Total	0.0115	<T	0.010	mg/L		17-APR-20	R5058646
Cadmium (Cd)-Total	0.000011	<T	0.0000050	mg/L		17-APR-20	R5058646
Calcium (Ca)-Total	21.1		0.050	mg/L		17-APR-20	R5058646
Cesium (Cs)-Total	0.000073		0.000010	mg/L		17-APR-20	R5058646
Chromium (Cr)-Total	0.00102	<T	0.00010	mg/L		17-APR-20	R5058646
Cobalt (Co)-Total	0.000316	<T	0.00010	mg/L		17-APR-20	R5058646
Copper (Cu)-Total	0.00166	<T	0.00050	mg/L		17-APR-20	R5058646
Iron (Fe)-Total	0.729		0.010	mg/L		17-APR-20	R5058646
Lead (Pb)-Total	0.000310	<T	0.000050	mg/L		17-APR-20	R5058646
Lithium (Li)-Total	0.00378	<T	0.0010	mg/L		17-APR-20	R5058646
Magnesium (Mg)-Total	9.91		0.0050	mg/L		17-APR-20	R5058646
Manganese (Mn)-Total	0.0231		0.00010	mg/L		17-APR-20	R5058646
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		14-APR-20	R5056604
Molybdenum (Mo)-Total	0.000540	<T	0.000050	mg/L		17-APR-20	R5058646
Nickel (Ni)-Total	0.00162	<T	0.00050	mg/L		17-APR-20	R5058646
Phosphorus (P)-Total	0.052		0.050	mg/L		17-APR-20	R5058646
Potassium (K)-Total	1.84		0.050	mg/L		17-APR-20	R5058646
Rubidium (Rb)-Total	0.00280		0.00020	mg/L		17-APR-20	R5058646
Selenium (Se)-Total	0.000145		0.000050	mg/L		17-APR-20	R5058646
Silicon (Si)-Total	4.71		0.10	mg/L		17-APR-20	R5058646
Silver (Ag)-Total	0.000006	<DL	0.000010	mg/L		17-APR-20	R5058646
Sodium (Na)-Total	3.44		0.050	mg/L		17-APR-20	R5058646
Strontium (Sr)-Total	0.0499		0.00020	mg/L		17-APR-20	R5058646
Sulfur (S)-Total	1.9		0.50	mg/L		17-APR-20	R5058646
Tellurium (Te)-Total	<0.000005	<W	0.00020	mg/L		17-APR-20	R5058646
Thallium (Tl)-Total	0.000001	<DL	0.000010	mg/L		17-APR-20	R5058646
Thorium (Th)-Total	0.000050	<DL	0.00010	mg/L		17-APR-20	R5058646
Tin (Sn)-Total	0.00024		0.00010	mg/L		17-APR-20	R5058646
Titanium (Ti)-Total	0.0131		0.00030	mg/L		17-APR-20	R5058646
Tungsten (W)-Total	0.000012	<DL	0.00010	mg/L		17-APR-20	R5058646
Uranium (U)-Total	0.000395	<T	0.000010	mg/L		17-APR-20	R5058646
Vanadium (V)-Total	0.00194	<T	0.00050	mg/L		17-APR-20	R5058646

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-6 SW22A							
Sampled By: NB, GC on 09-APR-20 @ 07:45							
Matrix: Water							
Total Metals							
Zinc (Zn)-Total	0.0040	<T	0.0030	mg/L		17-APR-20	R5058646
Zirconium (Zr)-Total	0.000438		0.000060	mg/L		17-APR-20	R5058646
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					16-APR-20	R5057216
Aluminum (Al)-Dissolved	0.102		0.0010	mg/L		16-APR-20	R5057513
Antimony (Sb)-Dissolved	0.000090	<DL	0.00010	mg/L		16-APR-20	R5057513
Arsenic (As)-Dissolved	0.000650	<T	0.00010	mg/L		16-APR-20	R5057513
Barium (Ba)-Dissolved	0.0140		0.00010	mg/L		16-APR-20	R5057513
Beryllium (Be)-Dissolved	0.000004	<DL	0.00010	mg/L		16-APR-20	R5057513
Bismuth (Bi)-Dissolved	<0.000001	<W	0.000050	mg/L		16-APR-20	R5057513
Boron (B)-Dissolved	0.0135	<T	0.010	mg/L		16-APR-20	R5057513
Cadmium (Cd)-Dissolved	0.0000078	<T	0.0000050	mg/L		16-APR-20	R5057513
Calcium (Ca)-Dissolved	21.3		0.050	mg/L		16-APR-20	R5057513
Cesium (Cs)-Dissolved	0.000007	<DL	0.000010	mg/L		16-APR-20	R5057513
Chromium (Cr)-Dissolved	0.00028	<T	0.00010	mg/L		16-APR-20	R5057513
Cobalt (Co)-Dissolved	0.000077	<DL	0.00010	mg/L		16-APR-20	R5057513
Copper (Cu)-Dissolved	0.00114	<T	0.00020	mg/L		16-APR-20	R5057513
Iron (Fe)-Dissolved	0.161		0.010	mg/L		16-APR-20	R5057513
Lead (Pb)-Dissolved	0.000080	<T	0.000050	mg/L		16-APR-20	R5057513
Lithium (Li)-Dissolved	0.00318	<T	0.0010	mg/L		16-APR-20	R5057513
Magnesium (Mg)-Dissolved	10.0		0.0050	mg/L		16-APR-20	R5057513
Manganese (Mn)-Dissolved	0.00120		0.00010	mg/L		16-APR-20	R5057513
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		14-APR-20	R5056605
Molybdenum (Mo)-Dissolved	0.000552	<T	0.000050	mg/L		16-APR-20	R5057513
Nickel (Ni)-Dissolved	0.00106	<T	0.00050	mg/L		16-APR-20	R5057513
Phosphorus (P)-Dissolved	0.018	<DL	0.050	mg/L		16-APR-20	R5057513
Potassium (K)-Dissolved	1.75		0.050	mg/L		16-APR-20	R5057513
Rubidium (Rb)-Dissolved	0.00174		0.00020	mg/L		16-APR-20	R5057513
Selenium (Se)-Dissolved	0.000190		0.000050	mg/L		16-APR-20	R5057513
Silicon (Si)-Dissolved	3.62		0.050	mg/L		16-APR-20	R5057513
Silver (Ag)-Dissolved	0.000002	<DL	0.000010	mg/L		16-APR-20	R5057513
Sodium (Na)-Dissolved	3.36		0.050	mg/L		16-APR-20	R5057513
Strontium (Sr)-Dissolved	0.0510		0.00010	mg/L		16-APR-20	R5057513
Sulfur (S)-Dissolved	2.0		0.50	mg/L		16-APR-20	R5057513
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		16-APR-20	R5057513
Thallium (Tl)-Dissolved	0.000002	<DL	0.000010	mg/L		16-APR-20	R5057513
Thorium (Th)-Dissolved	0.00008	<DL	0.00010	mg/L		16-APR-20	R5057513
Tin (Sn)-Dissolved	0.00005	<DL	0.00010	mg/L		16-APR-20	R5057513
Titanium (Ti)-Dissolved	0.00894		0.00030	mg/L		16-APR-20	R5057513
Tungsten (W)-Dissolved	0.000010	<DL	0.00010	mg/L		16-APR-20	R5057513
Uranium (U)-Dissolved	0.000394	<T	0.000010	mg/L		16-APR-20	R5057513

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-6 SW22A Sampled By: NB, GC on 09-APR-20 @ 07:45 Matrix: Water							
Dissolved Metals							
Vanadium (V)-Dissolved	0.00084	<T	0.00050	mg/L		16-APR-20	R5057513
Zinc (Zn)-Dissolved	0.0012	<T	0.0010	mg/L		16-APR-20	R5057513
Zirconium (Zr)-Dissolved	0.000538		0.000060	mg/L		16-APR-20	R5057513
Aggregate Organics							
Biochemical Oxygen Demand	<2.0	BODF	2.0	mg/L		19-APR-20	R5062796
COD	73		10	mg/L		20-APR-20	R5058625
Oil and Grease, Total	2.2		1.0	mg/L	15-APR-20	15-APR-20	R5056763
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		22-APR-20	R5065722
L2436089-7 SW21A Sampled By: NB, GC on 08-APR-20 @ 15:30 Matrix: Water							
Field Tests							
pH, Client Supplied	7.28		0.10	pH		13-APR-20	R5056021
Temperature, Client Supplied	5.74		0	Degree C		13-APR-20	R5056021
Physical Tests							
Color, True	92.2		2.0	CU		13-APR-20	R5055985
Conductivity (EC)	167		1.0	uS/cm		13-APR-20	R5055940
Hardness (as CaCO3)	91.0		0.50	mg/L		21-APR-20	
pH	7.52		0.10	pH		13-APR-20	R5056271
Total Suspended Solids	4.5		2.0	mg/L		14-APR-20	R5056894
Total Dissolved Solids	138		13	mg/L		15-APR-20	R5057412
Turbidity	8.78		0.10	NTU		14-APR-20	R5056329
Anions and Nutrients							
Acidity (as CaCO3)	2.8		2.0	mg/L		15-APR-20	R5056949
Alkalinity, Total (as CaCO3)	82.6		2.0	mg/L		13-APR-20	R5056271
Ammonia, Total (as N)	0.030	<T	0.020	mg/L		15-APR-20	R5056963
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-APR-20	
Chloride (Cl)	5.45		0.10	mg/L		13-APR-20	R5056231
Fluoride (F)	0.036		0.020	mg/L		13-APR-20	R5056231
Nitrate (as N)	0.100	<T	0.020	mg/L		13-APR-20	R5056231
Nitrite (as N)	0.002	<DL	0.010	mg/L		13-APR-20	R5056231
Orthophosphate-Dissolved (as P)	0.0105		0.0030	mg/L		15-APR-20	R5056878
Sulfate (SO4)	4.55	<T	0.30	mg/L		13-APR-20	R5056231
Cyanides							
Cyanide, Weak Acid Diss	0.0003	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Total	0.0004	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Free	0.0007	<DL	0.0020	mg/L		14-APR-20	R5056752
Organic / Inorganic Carbon							
Dissolved Organic Carbon	14.1		0.50	mg/L		21-APR-20	R5059858
Total Organic Carbon	14.3		0.50	mg/L		15-APR-20	R5057467
Total Metals							
Aluminum (Al)-Total	0.598		0.0030	mg/L		17-APR-20	R5058646

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-7 SW21A							
Sampled By: NB, GC on 08-APR-20 @ 15:30							
Matrix: Water							
Total Metals							
Antimony (Sb)-Total	0.00002	<DL	0.00010	mg/L		17-APR-20	R5058646
Arsenic (As)-Total	0.00072	<T	0.00010	mg/L		17-APR-20	R5058646
Barium (Ba)-Total	0.0173		0.00010	mg/L		17-APR-20	R5058646
Beryllium (Be)-Total	0.000008	<DL	0.00010	mg/L		17-APR-20	R5058646
Bismuth (Bi)-Total	0.000005	<DL	0.000050	mg/L		17-APR-20	R5058646
Boron (B)-Total	0.0115	<T	0.010	mg/L		17-APR-20	R5058646
Cadmium (Cd)-Total	0.000006	<T	0.0000050	mg/L		17-APR-20	R5058646
Calcium (Ca)-Total	20.7		0.050	mg/L		17-APR-20	R5058646
Cesium (Cs)-Total	0.000079		0.000010	mg/L		17-APR-20	R5058646
Chromium (Cr)-Total	0.00100	<T	0.00010	mg/L		17-APR-20	R5058646
Cobalt (Co)-Total	0.000288	<T	0.00010	mg/L		17-APR-20	R5058646
Copper (Cu)-Total	0.00158	<T	0.00050	mg/L		17-APR-20	R5058646
Iron (Fe)-Total	0.681		0.010	mg/L		17-APR-20	R5058646
Lead (Pb)-Total	0.000295	<T	0.000050	mg/L		17-APR-20	R5058646
Lithium (Li)-Total	0.00378	<T	0.0010	mg/L		17-APR-20	R5058646
Magnesium (Mg)-Total	10.1		0.0050	mg/L		17-APR-20	R5058646
Manganese (Mn)-Total	0.0247		0.00010	mg/L		17-APR-20	R5058646
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		14-APR-20	R5056604
Molybdenum (Mo)-Total	0.000565	<T	0.000050	mg/L		17-APR-20	R5058646
Nickel (Ni)-Total	0.00164	<T	0.00050	mg/L		17-APR-20	R5058646
Phosphorus (P)-Total	0.052		0.050	mg/L		17-APR-20	R5058646
Potassium (K)-Total	2.06		0.050	mg/L		17-APR-20	R5058646
Rubidium (Rb)-Total	0.00304		0.00020	mg/L		17-APR-20	R5058646
Selenium (Se)-Total	0.000175		0.000050	mg/L		17-APR-20	R5058646
Silicon (Si)-Total	4.76		0.10	mg/L		17-APR-20	R5058646
Silver (Ag)-Total	0.000006	<DL	0.000010	mg/L		17-APR-20	R5058646
Sodium (Na)-Total	3.83		0.050	mg/L		17-APR-20	R5058646
Strontium (Sr)-Total	0.0519		0.00020	mg/L		17-APR-20	R5058646
Sulfur (S)-Total	1.6		0.50	mg/L		17-APR-20	R5058646
Tellurium (Te)-Total	<0.000005	<W	0.00020	mg/L		17-APR-20	R5058646
Thallium (Tl)-Total	0.000001	<DL	0.000010	mg/L		17-APR-20	R5058646
Thorium (Th)-Total	0.000040	<DL	0.00010	mg/L		17-APR-20	R5058646
Tin (Sn)-Total	0.00018		0.00010	mg/L		17-APR-20	R5058646
Titanium (Ti)-Total	0.0128		0.00030	mg/L		17-APR-20	R5058646
Tungsten (W)-Total	0.000008	<DL	0.00010	mg/L		17-APR-20	R5058646
Uranium (U)-Total	0.000366	<T	0.000010	mg/L		17-APR-20	R5058646
Vanadium (V)-Total	0.00186	<T	0.00050	mg/L		17-APR-20	R5058646
Zinc (Zn)-Total	0.0035	<T	0.0030	mg/L		17-APR-20	R5058646
Zirconium (Zr)-Total	0.000378		0.000060	mg/L		17-APR-20	R5058646
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					16-APR-20	R5057216

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-7 SW21A							
Sampled By: NB, GC on 08-APR-20 @ 15:30							
Matrix: Water							
Dissolved Metals							
Aluminum (Al)-Dissolved	0.102		0.0010	mg/L		16-APR-20	R5057513
Antimony (Sb)-Dissolved	0.000070	<DL	0.00010	mg/L		16-APR-20	R5057513
Arsenic (As)-Dissolved	0.000620	<T	0.00010	mg/L		16-APR-20	R5057513
Barium (Ba)-Dissolved	0.0142		0.00010	mg/L		16-APR-20	R5057513
Beryllium (Be)-Dissolved	0.000004	<DL	0.00010	mg/L		16-APR-20	R5057513
Bismuth (Bi)-Dissolved	<0.000001	<W	0.000050	mg/L		16-APR-20	R5057513
Boron (B)-Dissolved	0.0130	<T	0.010	mg/L		16-APR-20	R5057513
Cadmium (Cd)-Dissolved	0.0000090	<T	0.0000050	mg/L		16-APR-20	R5057513
Calcium (Ca)-Dissolved	20.1		0.050	mg/L		16-APR-20	R5057513
Cesium (Cs)-Dissolved	0.000006	<DL	0.000010	mg/L		16-APR-20	R5057513
Chromium (Cr)-Dissolved	0.00024	<T	0.00010	mg/L		16-APR-20	R5057513
Cobalt (Co)-Dissolved	0.000071	<DL	0.00010	mg/L		16-APR-20	R5057513
Copper (Cu)-Dissolved	0.00118	<T	0.00020	mg/L		16-APR-20	R5057513
Iron (Fe)-Dissolved	0.154		0.010	mg/L		16-APR-20	R5057513
Lead (Pb)-Dissolved	0.000075	<T	0.000050	mg/L		16-APR-20	R5057513
Lithium (Li)-Dissolved	0.00312	<T	0.0010	mg/L		16-APR-20	R5057513
Magnesium (Mg)-Dissolved	9.90		0.0050	mg/L		16-APR-20	R5057513
Manganese (Mn)-Dissolved	0.00156		0.00010	mg/L		16-APR-20	R5057513
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		14-APR-20	R5056605
Molybdenum (Mo)-Dissolved	0.000518	<T	0.000050	mg/L		16-APR-20	R5057513
Nickel (Ni)-Dissolved	0.00110	<T	0.00050	mg/L		16-APR-20	R5057513
Phosphorus (P)-Dissolved	0.024	<DL	0.050	mg/L		16-APR-20	R5057513
Potassium (K)-Dissolved	1.91		0.050	mg/L		16-APR-20	R5057513
Rubidium (Rb)-Dissolved	0.00186		0.00020	mg/L		16-APR-20	R5057513
Selenium (Se)-Dissolved	0.000160		0.000050	mg/L		16-APR-20	R5057513
Silicon (Si)-Dissolved	3.70		0.050	mg/L		16-APR-20	R5057513
Silver (Ag)-Dissolved	0.000002	<DL	0.000010	mg/L		16-APR-20	R5057513
Sodium (Na)-Dissolved	3.87		0.050	mg/L		16-APR-20	R5057513
Strontium (Sr)-Dissolved	0.0508		0.00010	mg/L		16-APR-20	R5057513
Sulfur (S)-Dissolved	1.5		0.50	mg/L		16-APR-20	R5057513
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		16-APR-20	R5057513
Thallium (Tl)-Dissolved	0.000002	<DL	0.000010	mg/L		16-APR-20	R5057513
Thorium (Th)-Dissolved	0.00008	<DL	0.00010	mg/L		16-APR-20	R5057513
Tin (Sn)-Dissolved	0.00010		0.00010	mg/L		16-APR-20	R5057513
Titanium (Ti)-Dissolved	0.00892		0.00030	mg/L		16-APR-20	R5057513
Tungsten (W)-Dissolved	0.000010	<DL	0.00010	mg/L		16-APR-20	R5057513
Uranium (U)-Dissolved	0.000350	<T	0.000010	mg/L		16-APR-20	R5057513
Vanadium (V)-Dissolved	0.00088	<T	0.00050	mg/L		16-APR-20	R5057513
Zinc (Zn)-Dissolved	0.0012	<T	0.0010	mg/L		16-APR-20	R5057513
Zirconium (Zr)-Dissolved	0.000538	RRV	0.000060	mg/L		16-APR-20	R5057513
Aggregate Organics							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-7 SW21A Sampled By: NB, GC on 08-APR-20 @ 15:30 Matrix: Water							
Aggregate Organics							
Biochemical Oxygen Demand	<2.0	BODF	2.0	mg/L		19-APR-20	R5062796
COD	62		10	mg/L		20-APR-20	R5058625
Oil and Grease, Total	1.8		1.0	mg/L	15-APR-20	15-APR-20	R5056763
L2436089-8 SW06 Sampled By: NB, GC on 08-APR-20 @ 12:00 Matrix: Water							
Field Tests							
pH, Client Supplied	7.28		0.10	pH		13-APR-20	R5056021
Temperature, Client Supplied	5.74		0	Degree C		13-APR-20	R5056021
Physical Tests							
Color, True	92.3		2.0	CU		13-APR-20	R5055985
Conductivity (EC)	167		1.0	uS/cm		13-APR-20	R5055940
Hardness (as CaCO3)	88.3		0.50	mg/L		06-MAY-20	
pH	7.52		0.10	pH		13-APR-20	R5056271
Total Suspended Solids	6.0		2.0	mg/L		14-APR-20	R5056803
Total Dissolved Solids	134		13	mg/L		13-APR-20	R5056364
Turbidity	9.38		0.10	NTU		14-APR-20	R5056329
Anions and Nutrients							
Acidity (as CaCO3)	2.8		2.0	mg/L		15-APR-20	R5056949
Alkalinity, Total (as CaCO3)	82.4		2.0	mg/L		13-APR-20	R5056271
Ammonia, Total (as N)	0.030	<T	0.020	mg/L		15-APR-20	R5056963
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-APR-20	
Chloride (Cl)	5.44		0.10	mg/L		13-APR-20	R5056231
Fluoride (F)	0.036		0.020	mg/L		13-APR-20	R5056231
Nitrate (as N)	0.098	<T	0.020	mg/L		13-APR-20	R5056231
Nitrite (as N)	0.002	<DL	0.010	mg/L		13-APR-20	R5056231
Orthophosphate-Dissolved (as P)	0.0105		0.0030	mg/L		15-APR-20	R5056878
Sulfate (SO4)	4.55	<T	0.30	mg/L		13-APR-20	R5056231
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Total	0.0006	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Free	0.0007	<DL	0.0020	mg/L		14-APR-20	R5056752
Organic / Inorganic Carbon							
Dissolved Organic Carbon	14.3		0.50	mg/L		21-APR-20	R5059858
Total Organic Carbon	13.9		0.50	mg/L		15-APR-20	R5057467
Total Metals							
Aluminum (Al)-Total	0.633		0.0030	mg/L		17-APR-20	R5058646
Antimony (Sb)-Total	<0.00002	<W	0.00010	mg/L		17-APR-20	R5058646
Arsenic (As)-Total	0.00068	<T	0.00010	mg/L		17-APR-20	R5058646
Barium (Ba)-Total	0.0177		0.00010	mg/L		17-APR-20	R5058646
Beryllium (Be)-Total	0.000010	<DL	0.00010	mg/L		17-APR-20	R5058646
Bismuth (Bi)-Total	0.000005	<DL	0.000050	mg/L		17-APR-20	R5058646

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-8 SW06							
Sampled By: NB, GC on 08-APR-20 @ 12:00							
Matrix: Water							
Total Metals							
Boron (B)-Total	0.0120	<T	0.010	mg/L		17-APR-20	R5058646
Cadmium (Cd)-Total	0.000009	<T	0.0000050	mg/L		17-APR-20	R5058646
Calcium (Ca)-Total	20.7		0.050	mg/L		17-APR-20	R5058646
Cesium (Cs)-Total	0.000078		0.000010	mg/L		17-APR-20	R5058646
Chromium (Cr)-Total	0.00104	<T	0.00010	mg/L		17-APR-20	R5058646
Cobalt (Co)-Total	0.000290	<T	0.00010	mg/L		17-APR-20	R5058646
Copper (Cu)-Total	0.00166	<T	0.00050	mg/L		17-APR-20	R5058646
Iron (Fe)-Total	0.703		0.010	mg/L		17-APR-20	R5058646
Lead (Pb)-Total	0.000295	<T	0.000050	mg/L		17-APR-20	R5058646
Lithium (Li)-Total	0.00380	<T	0.0010	mg/L		17-APR-20	R5058646
Magnesium (Mg)-Total	10.1		0.0050	mg/L		17-APR-20	R5058646
Manganese (Mn)-Total	0.0259		0.00010	mg/L		17-APR-20	R5058646
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		14-APR-20	R5056604
Molybdenum (Mo)-Total	0.000545	<T	0.000050	mg/L		17-APR-20	R5058646
Nickel (Ni)-Total	0.00162	<T	0.00050	mg/L		17-APR-20	R5058646
Phosphorus (P)-Total	0.056		0.050	mg/L		17-APR-20	R5058646
Potassium (K)-Total	2.08		0.050	mg/L		17-APR-20	R5058646
Rubidium (Rb)-Total	0.00319		0.00020	mg/L		17-APR-20	R5058646
Selenium (Se)-Total	0.000115		0.000050	mg/L		17-APR-20	R5058646
Silicon (Si)-Total	4.89		0.10	mg/L		17-APR-20	R5058646
Silver (Ag)-Total	0.000004	<DL	0.000010	mg/L		17-APR-20	R5058646
Sodium (Na)-Total	3.81		0.050	mg/L		17-APR-20	R5058646
Strontium (Sr)-Total	0.0514		0.00020	mg/L		17-APR-20	R5058646
Sulfur (S)-Total	1.9		0.50	mg/L		17-APR-20	R5058646
Tellurium (Te)-Total	0.000015	<DL	0.00020	mg/L		17-APR-20	R5058646
Thallium (Tl)-Total	<0.000001	<W	0.000010	mg/L		17-APR-20	R5058646
Thorium (Th)-Total	0.000050	<DL	0.00010	mg/L		17-APR-20	R5058646
Tin (Sn)-Total	0.00026		0.00010	mg/L		17-APR-20	R5058646
Titanium (Ti)-Total	0.0139		0.00030	mg/L		17-APR-20	R5058646
Tungsten (W)-Total	0.000010	<DL	0.00010	mg/L		17-APR-20	R5058646
Uranium (U)-Total	0.000366	<T	0.000010	mg/L		17-APR-20	R5058646
Vanadium (V)-Total	0.00202	<T	0.00050	mg/L		17-APR-20	R5058646
Zinc (Zn)-Total	0.0050	<T	0.0030	mg/L		17-APR-20	R5058646
Zirconium (Zr)-Total	0.000404		0.000060	mg/L		17-APR-20	R5058646
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					16-APR-20	R5057216
Aluminum (Al)-Dissolved	0.113		0.0010	mg/L		16-APR-20	R5057513
Antimony (Sb)-Dissolved	0.000060	<DL	0.00010	mg/L		16-APR-20	R5057513
Arsenic (As)-Dissolved	0.000590	<T	0.00010	mg/L		16-APR-20	R5057513
Barium (Ba)-Dissolved	0.0140		0.00010	mg/L		16-APR-20	R5057513
Beryllium (Be)-Dissolved	0.000002	<DL	0.00010	mg/L		16-APR-20	R5057513

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-8 SW06 Sampled By: NB, GC on 08-APR-20 @ 12:00 Matrix: Water							
Dissolved Metals							
Bismuth (Bi)-Dissolved	<0.000001	<W	0.000050	mg/L		16-APR-20	R5057513
Boron (B)-Dissolved	0.0130	<T	0.010	mg/L		16-APR-20	R5057513
Cadmium (Cd)-Dissolved	0.0000060	<T	0.0000050	mg/L		16-APR-20	R5057513
Calcium (Ca)-Dissolved	19.1		0.050	mg/L		16-APR-20	R5057513
Cesium (Cs)-Dissolved	0.000008	<DL	0.000010	mg/L		16-APR-20	R5057513
Chromium (Cr)-Dissolved	0.00028	<T	0.00010	mg/L		16-APR-20	R5057513
Cobalt (Co)-Dissolved	0.000075	<DL	0.00010	mg/L		16-APR-20	R5057513
Copper (Cu)-Dissolved	0.00114	<T	0.00020	mg/L		16-APR-20	R5057513
Iron (Fe)-Dissolved	0.157		0.010	mg/L		16-APR-20	R5057513
Lead (Pb)-Dissolved	0.000075	<T	0.000050	mg/L		16-APR-20	R5057513
Lithium (Li)-Dissolved	0.00304	<T	0.0010	mg/L		16-APR-20	R5057513
Magnesium (Mg)-Dissolved	9.86		0.0050	mg/L		16-APR-20	R5057513
Manganese (Mn)-Dissolved	0.00154		0.00010	mg/L		16-APR-20	R5057513
Mercury (Hg)-Dissolved	0.000005	<DL	0.000030	mg/L		14-APR-20	R5056605
Molybdenum (Mo)-Dissolved	0.000498	<T	0.000050	mg/L		16-APR-20	R5057513
Nickel (Ni)-Dissolved	0.00108	<T	0.00050	mg/L		16-APR-20	R5057513
Phosphorus (P)-Dissolved	0.034	<DL	0.050	mg/L		16-APR-20	R5057513
Potassium (K)-Dissolved	1.87		0.050	mg/L		16-APR-20	R5057513
Rubidium (Rb)-Dissolved	0.00184		0.00020	mg/L		16-APR-20	R5057513
Selenium (Se)-Dissolved	0.000185		0.000050	mg/L		16-APR-20	R5057513
Silicon (Si)-Dissolved	3.68		0.050	mg/L		16-APR-20	R5057513
Silver (Ag)-Dissolved	0.000003	<DL	0.000010	mg/L		16-APR-20	R5057513
Sodium (Na)-Dissolved	3.63		0.050	mg/L		16-APR-20	R5057513
Strontium (Sr)-Dissolved	0.0491		0.00010	mg/L		16-APR-20	R5057513
Sulfur (S)-Dissolved	1.6		0.50	mg/L		16-APR-20	R5057513
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		16-APR-20	R5057513
Thallium (Tl)-Dissolved	0.000002	<DL	0.000010	mg/L		16-APR-20	R5057513
Thorium (Th)-Dissolved	0.00008	<DL	0.00010	mg/L		16-APR-20	R5057513
Tin (Sn)-Dissolved	0.00001	<DL	0.00010	mg/L		16-APR-20	R5057513
Titanium (Ti)-Dissolved	0.00956		0.00030	mg/L		16-APR-20	R5057513
Tungsten (W)-Dissolved	0.000010	<DL	0.00010	mg/L		16-APR-20	R5057513
Uranium (U)-Dissolved	0.000355	<T	0.000010	mg/L		16-APR-20	R5057513
Vanadium (V)-Dissolved	0.00090	<T	0.00050	mg/L		16-APR-20	R5057513
Zinc (Zn)-Dissolved	0.0012	<T	0.0010	mg/L		16-APR-20	R5057513
Zirconium (Zr)-Dissolved	0.000720	RRV	0.000060	mg/L		16-APR-20	R5057513
Aggregate Organics							
Biochemical Oxygen Demand	<2.0	BODF	2.0	mg/L		19-APR-20	R5062796
COD	64		10	mg/L		20-APR-20	R5058625
Oil and Grease, Total	1.6		1.0	mg/L	15-APR-20	15-APR-20	R5056763
L2436089-9 SW27 Sampled By: NB, GC on 08-APR-20 @ 15:20 Matrix: Water							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-9 SW27							
Sampled By: NB, GC on 08-APR-20 @ 15:20							
Matrix: Water							
Field Tests							
pH, Client Supplied	7.54		0.10	pH		13-APR-20	R5056021
Temperature, Client Supplied	7.18		0	Degree C		13-APR-20	R5056021
Physical Tests							
Color, True	71.2		2.0	CU		13-APR-20	R5055985
Conductivity (EC)	171		1.0	uS/cm		13-APR-20	R5055940
Hardness (as CaCO3)	97.6		0.50	mg/L		21-APR-20	
pH	7.67		0.10	pH		13-APR-20	R5056271
Total Suspended Solids	3.5		2.0	mg/L		14-APR-20	R5056894
Total Dissolved Solids	126		13	mg/L		13-APR-20	R5056364
Turbidity	5.53		0.10	NTU		14-APR-20	R5056329
Anions and Nutrients							
Acidity (as CaCO3)	2.4		2.0	mg/L		15-APR-20	R5056949
Alkalinity, Total (as CaCO3)	92.6		2.0	mg/L		13-APR-20	R5056271
Ammonia, Total (as N)	0.015	<DL	0.020	mg/L		15-APR-20	R5056963
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-APR-20	
Chloride (Cl)	3.54		0.10	mg/L		13-APR-20	R5056231
Fluoride (F)	0.037		0.020	mg/L		13-APR-20	R5056231
Nitrate (as N)	0.022	<T	0.020	mg/L		13-APR-20	R5056231
Nitrite (as N)	<0.001	<W	0.010	mg/L		13-APR-20	R5056231
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		15-APR-20	R5056878
Sulfate (SO4)	3.05	<T	0.30	mg/L		13-APR-20	R5056231
Cyanides							
Cyanide, Weak Acid Diss	0.0003	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Total	0.0006	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Free	0.0009	<DL	0.0020	mg/L		14-APR-20	R5056752
Organic / Inorganic Carbon							
Dissolved Organic Carbon	13.3		0.50	mg/L		22-APR-20	R5061360
Total Organic Carbon	11.6		0.50	mg/L		15-APR-20	R5057467
Total Metals							
Aluminum (Al)-Total	0.365		0.0030	mg/L		17-APR-20	R5058646
Antimony (Sb)-Total	<0.00002	<W	0.00010	mg/L		17-APR-20	R5058646
Arsenic (As)-Total	0.00054	<T	0.00010	mg/L		17-APR-20	R5058646
Barium (Ba)-Total	0.0149		0.00010	mg/L		17-APR-20	R5058646
Beryllium (Be)-Total	<0.000002	<W	0.00010	mg/L		17-APR-20	R5058646
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		17-APR-20	R5058646
Boron (B)-Total	0.0080	<DL	0.010	mg/L		17-APR-20	R5058646
Cadmium (Cd)-Total	0.000006	<T	0.000050	mg/L		17-APR-20	R5058646
Calcium (Ca)-Total	23.3		0.050	mg/L		17-APR-20	R5058646
Cesium (Cs)-Total	0.000047		0.000010	mg/L		17-APR-20	R5058646
Chromium (Cr)-Total	0.00064	<T	0.00010	mg/L		17-APR-20	R5058646
Cobalt (Co)-Total	0.000196	<T	0.00010	mg/L		17-APR-20	R5058646
Copper (Cu)-Total	0.00144	<T	0.00050	mg/L		17-APR-20	R5058646

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-9 SW27							
Sampled By: NB, GC on 08-APR-20 @ 15:20							
Matrix: Water							
Total Metals							
Iron (Fe)-Total	0.440		0.010	mg/L		17-APR-20	R5058646
Lead (Pb)-Total	0.000205	<T	0.000050	mg/L		17-APR-20	R5058646
Lithium (Li)-Total	0.00264	<T	0.0010	mg/L		17-APR-20	R5058646
Magnesium (Mg)-Total	10.2		0.0050	mg/L		17-APR-20	R5058646
Manganese (Mn)-Total	0.0271		0.00010	mg/L		17-APR-20	R5058646
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		14-APR-20	R5056604
Molybdenum (Mo)-Total	0.000390	<T	0.000050	mg/L		17-APR-20	R5058646
Nickel (Ni)-Total	0.00116	<T	0.00050	mg/L		17-APR-20	R5058646
Phosphorus (P)-Total	0.028	<DL	0.050	mg/L		17-APR-20	R5058646
Potassium (K)-Total	1.23		0.050	mg/L		17-APR-20	R5058646
Rubidium (Rb)-Total	0.00189		0.00020	mg/L		17-APR-20	R5058646
Selenium (Se)-Total	0.000105		0.000050	mg/L		17-APR-20	R5058646
Silicon (Si)-Total	3.99		0.10	mg/L		17-APR-20	R5058646
Silver (Ag)-Total	0.000006	<DL	0.000010	mg/L		17-APR-20	R5058646
Sodium (Na)-Total	1.98		0.050	mg/L		17-APR-20	R5058646
Strontium (Sr)-Total	0.0454		0.00020	mg/L		17-APR-20	R5058646
Sulfur (S)-Total	1.1		0.50	mg/L		17-APR-20	R5058646
Tellurium (Te)-Total	0.000020	<DL	0.00020	mg/L		17-APR-20	R5058646
Thallium (Tl)-Total	<0.000001	<W	0.000010	mg/L		17-APR-20	R5058646
Thorium (Th)-Total	0.000030	<DL	0.00010	mg/L		17-APR-20	R5058646
Tin (Sn)-Total	0.00006	<DL	0.00010	mg/L		17-APR-20	R5058646
Titanium (Ti)-Total	0.00778		0.00030	mg/L		17-APR-20	R5058646
Tungsten (W)-Total	0.000008	<DL	0.00010	mg/L		17-APR-20	R5058646
Uranium (U)-Total	0.000547	<T	0.000010	mg/L		17-APR-20	R5058646
Vanadium (V)-Total	0.00126	<T	0.00050	mg/L		17-APR-20	R5058646
Zinc (Zn)-Total	0.0050	<T	0.0030	mg/L		17-APR-20	R5058646
Zirconium (Zr)-Total	0.000250		0.000060	mg/L		17-APR-20	R5058646
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					16-APR-20	R5057216
Aluminum (Al)-Dissolved	0.0716		0.0010	mg/L		16-APR-20	R5057513
Antimony (Sb)-Dissolved	0.000055	<DL	0.00010	mg/L		16-APR-20	R5057513
Arsenic (As)-Dissolved	0.000495	<T	0.00010	mg/L		16-APR-20	R5057513
Barium (Ba)-Dissolved	0.0127		0.00010	mg/L		16-APR-20	R5057513
Beryllium (Be)-Dissolved	<0.000002	<W	0.00010	mg/L		16-APR-20	R5057513
Bismuth (Bi)-Dissolved	<0.000001	<W	0.000050	mg/L		16-APR-20	R5057513
Boron (B)-Dissolved	0.0105	<T	0.010	mg/L		16-APR-20	R5057513
Cadmium (Cd)-Dissolved	0.0000072	<T	0.0000050	mg/L		16-APR-20	R5057513
Calcium (Ca)-Dissolved	22.1		0.050	mg/L		16-APR-20	R5057513
Cesium (Cs)-Dissolved	0.000006	<DL	0.000010	mg/L		16-APR-20	R5057513
Chromium (Cr)-Dissolved	0.00018	<T	0.00010	mg/L		16-APR-20	R5057513
Cobalt (Co)-Dissolved	0.000073	<DL	0.00010	mg/L		16-APR-20	R5057513

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-9 SW27 Sampled By: NB, GC on 08-APR-20 @ 15:20 Matrix: Water							
Dissolved Metals							
Copper (Cu)-Dissolved	0.00112	<T	0.00020	mg/L		16-APR-20	R5057513
Iron (Fe)-Dissolved	0.122		0.010	mg/L		16-APR-20	R5057513
Lead (Pb)-Dissolved	0.000055	<T	0.000050	mg/L		16-APR-20	R5057513
Lithium (Li)-Dissolved	0.00222	<T	0.0010	mg/L		16-APR-20	R5057513
Magnesium (Mg)-Dissolved	10.3		0.0050	mg/L		16-APR-20	R5057513
Manganese (Mn)-Dissolved	0.00770		0.00010	mg/L		16-APR-20	R5057513
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		14-APR-20	R5056605
Molybdenum (Mo)-Dissolved	0.000384	<T	0.000050	mg/L		16-APR-20	R5057513
Nickel (Ni)-Dissolved	0.00080	<T	0.00050	mg/L		16-APR-20	R5057513
Phosphorus (P)-Dissolved	0.012	<DL	0.050	mg/L		16-APR-20	R5057513
Potassium (K)-Dissolved	1.12		0.050	mg/L		16-APR-20	R5057513
Rubidium (Rb)-Dissolved	0.00127		0.00020	mg/L		16-APR-20	R5057513
Selenium (Se)-Dissolved	0.000160		0.000050	mg/L		16-APR-20	R5057513
Silicon (Si)-Dissolved	3.42		0.050	mg/L		16-APR-20	R5057513
Silver (Ag)-Dissolved	0.000002	<DL	0.000010	mg/L		16-APR-20	R5057513
Sodium (Na)-Dissolved	1.87		0.050	mg/L		16-APR-20	R5057513
Strontium (Sr)-Dissolved	0.0433		0.00010	mg/L		16-APR-20	R5057513
Sulfur (S)-Dissolved	1.2		0.50	mg/L		16-APR-20	R5057513
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		16-APR-20	R5057513
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		16-APR-20	R5057513
Thorium (Th)-Dissolved	0.00006	<DL	0.00010	mg/L		16-APR-20	R5057513
Tin (Sn)-Dissolved	0.00001	<DL	0.00010	mg/L		16-APR-20	R5057513
Titanium (Ti)-Dissolved	0.00512		0.00030	mg/L		16-APR-20	R5057513
Tungsten (W)-Dissolved	0.000006	<DL	0.00010	mg/L		16-APR-20	R5057513
Uranium (U)-Dissolved	0.000527	<T	0.000010	mg/L		16-APR-20	R5057513
Vanadium (V)-Dissolved	0.00064	<T	0.00050	mg/L		16-APR-20	R5057513
Zinc (Zn)-Dissolved	0.0026	<T	0.0010	mg/L		16-APR-20	R5057513
Zirconium (Zr)-Dissolved	0.000382	RRV	0.000060	mg/L		16-APR-20	R5057513
Aggregate Organics							
Biochemical Oxygen Demand	<2.0	BODF	2.0	mg/L		19-APR-20	R5062796
COD	53		10	mg/L		20-APR-20	R5058625
Oil and Grease, Total	0.8	<DL	1.0	mg/L	15-APR-20	15-APR-20	R5056763
L2436089-10 SW25 Sampled By: NB, GC on 08-APR-20 @ 13:30 Matrix: Water							
Field Tests							
pH, Client Supplied	7.58		0.10	pH		13-APR-20	R5056021
Temperature, Client Supplied	6.17		0	Degree C		13-APR-20	R5056021
Physical Tests							
Color, True	74.5		2.0	CU		13-APR-20	R5055985
Conductivity (EC)	154		1.0	uS/cm		13-APR-20	R5055940
Hardness (as CaCO3)	88.1		0.50	mg/L		21-APR-20	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-10 SW25							
Sampled By: NB, GC on 08-APR-20 @ 13:30							
Matrix: Water							
Physical Tests							
pH	7.63		0.10	pH		13-APR-20	R5056271
Total Suspended Solids	3.5		2.0	mg/L		14-APR-20	R5056803
Total Dissolved Solids	118		13	mg/L		13-APR-20	R5056364
Turbidity	5.50		0.10	NTU		14-APR-20	R5056329
Anions and Nutrients							
Acidity (as CaCO3)	2.2		2.0	mg/L		15-APR-20	R5056949
Alkalinity, Total (as CaCO3)	80.6		2.0	mg/L		13-APR-20	R5056271
Ammonia, Total (as N)	0.015	<DL	0.020	mg/L		15-APR-20	R5056963
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		16-APR-20	
Chloride (Cl)	4.03		0.10	mg/L		13-APR-20	R5056231
Fluoride (F)	0.031		0.020	mg/L		13-APR-20	R5056231
Nitrate (as N)	0.030	<T	0.020	mg/L		13-APR-20	R5056231
Nitrite (as N)	0.001	<DL	0.010	mg/L		13-APR-20	R5056231
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		15-APR-20	R5056878
Sulfate (SO4)	1.65	<T	0.30	mg/L		13-APR-20	R5056231
Cyanides							
Cyanide, Weak Acid Diss	0.0002	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Total	0.0006	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Free	0.0007	<DL	0.0020	mg/L		14-APR-20	R5056752
Organic / Inorganic Carbon							
Dissolved Organic Carbon	13.6		0.50	mg/L		21-APR-20	R5059858
Total Organic Carbon	12.2		0.50	mg/L		15-APR-20	R5057467
Total Metals							
Aluminum (Al)-Total	0.362		0.0030	mg/L		17-APR-20	R5058646
Antimony (Sb)-Total	0.00004	<DL	0.00010	mg/L		17-APR-20	R5058646
Arsenic (As)-Total	0.00047	<T	0.00010	mg/L		17-APR-20	R5058646
Barium (Ba)-Total	0.0126		0.00010	mg/L		17-APR-20	R5058646
Beryllium (Be)-Total	<0.000002	<W	0.00010	mg/L		17-APR-20	R5058646
Bismuth (Bi)-Total	0.000015	<DL	0.000050	mg/L		17-APR-20	R5058646
Boron (B)-Total	0.0065	<DL	0.010	mg/L		17-APR-20	R5058646
Cadmium (Cd)-Total	0.000008	<T	0.0000050	mg/L		17-APR-20	R5058646
Calcium (Ca)-Total	20.9		0.050	mg/L		17-APR-20	R5058646
Cesium (Cs)-Total	0.000048		0.000010	mg/L		17-APR-20	R5058646
Chromium (Cr)-Total	0.00060	<T	0.00010	mg/L		17-APR-20	R5058646
Cobalt (Co)-Total	0.000234	<T	0.00010	mg/L		17-APR-20	R5058646
Copper (Cu)-Total	0.00152	<T	0.00050	mg/L		17-APR-20	R5058646
Iron (Fe)-Total	0.479		0.010	mg/L		17-APR-20	R5058646
Lead (Pb)-Total	0.000220	<T	0.000050	mg/L		17-APR-20	R5058646
Lithium (Li)-Total	0.00200	<T	0.0010	mg/L		17-APR-20	R5058646
Magnesium (Mg)-Total	9.30		0.0050	mg/L		17-APR-20	R5058646
Manganese (Mn)-Total	0.0335		0.00010	mg/L		17-APR-20	R5058646
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		14-APR-20	R5056604

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-10 SW25							
Sampled By: NB, GC on 08-APR-20 @ 13:30							
Matrix: Water							
Total Metals							
Molybdenum (Mo)-Total	0.000320	<T	0.000050	mg/L		17-APR-20	R5058646
Nickel (Ni)-Total	0.00106	<T	0.00050	mg/L		17-APR-20	R5058646
Phosphorus (P)-Total	0.020	<DL	0.050	mg/L		17-APR-20	R5058646
Potassium (K)-Total	1.09		0.050	mg/L		17-APR-20	R5058646
Rubidium (Rb)-Total	0.00208		0.00020	mg/L		17-APR-20	R5058646
Selenium (Se)-Total	0.000130		0.000050	mg/L		17-APR-20	R5058646
Silicon (Si)-Total	3.91		0.10	mg/L		17-APR-20	R5058646
Silver (Ag)-Total	0.000010	<T	0.000010	mg/L		17-APR-20	R5058646
Sodium (Na)-Total	1.97		0.050	mg/L		17-APR-20	R5058646
Strontium (Sr)-Total	0.0369		0.00020	mg/L		17-APR-20	R5058646
Sulfur (S)-Total	0.5		0.50	mg/L		17-APR-20	R5058646
Tellurium (Te)-Total	0.000025	<DL	0.00020	mg/L		17-APR-20	R5058646
Thallium (Tl)-Total	<0.000001	<W	0.000010	mg/L		17-APR-20	R5058646
Thorium (Th)-Total	0.000040	<DL	0.00010	mg/L		17-APR-20	R5058646
Tin (Sn)-Total	0.00012		0.00010	mg/L		17-APR-20	R5058646
Titanium (Ti)-Total	0.00752		0.00030	mg/L		17-APR-20	R5058646
Tungsten (W)-Total	0.000012	<DL	0.00010	mg/L		17-APR-20	R5058646
Uranium (U)-Total	0.000358	<T	0.000010	mg/L		17-APR-20	R5058646
Vanadium (V)-Total	0.00112	<T	0.00050	mg/L		17-APR-20	R5058646
Zinc (Zn)-Total	0.0045	<T	0.0030	mg/L		17-APR-20	R5058646
Zirconium (Zr)-Total	0.000332		0.000060	mg/L		17-APR-20	R5058646
Dissolved Metals							
Dissolved Metals Filtration Location	LAB					16-APR-20	R5057216
Aluminum (Al)-Dissolved	0.0762		0.0010	mg/L		16-APR-20	R5057513
Antimony (Sb)-Dissolved	0.000045	<DL	0.00010	mg/L		16-APR-20	R5057513
Arsenic (As)-Dissolved	0.000435	<T	0.00010	mg/L		16-APR-20	R5057513
Barium (Ba)-Dissolved	0.0105		0.00010	mg/L		16-APR-20	R5057513
Beryllium (Be)-Dissolved	0.000002	<DL	0.00010	mg/L		16-APR-20	R5057513
Bismuth (Bi)-Dissolved	<0.000001	<W	0.000050	mg/L		16-APR-20	R5057513
Boron (B)-Dissolved	0.0085	<DL	0.010	mg/L		16-APR-20	R5057513
Cadmium (Cd)-Dissolved	0.0000072	<T	0.0000050	mg/L		16-APR-20	R5057513
Calcium (Ca)-Dissolved	20.4		0.050	mg/L		16-APR-20	R5057513
Cesium (Cs)-Dissolved	0.000007	<DL	0.000010	mg/L		16-APR-20	R5057513
Chromium (Cr)-Dissolved	0.00018	<T	0.00010	mg/L		16-APR-20	R5057513
Cobalt (Co)-Dissolved	0.000072	<DL	0.00010	mg/L		16-APR-20	R5057513
Copper (Cu)-Dissolved	0.00108	<T	0.00020	mg/L		16-APR-20	R5057513
Iron (Fe)-Dissolved	0.147		0.010	mg/L		16-APR-20	R5057513
Lead (Pb)-Dissolved	0.000065	<T	0.000050	mg/L		16-APR-20	R5057513
Lithium (Li)-Dissolved	0.00166	<T	0.0010	mg/L		16-APR-20	R5057513
Magnesium (Mg)-Dissolved	9.01		0.0050	mg/L		16-APR-20	R5057513
Manganese (Mn)-Dissolved	0.00844		0.00010	mg/L		16-APR-20	R5057513

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-10 SW25 Sampled By: NB, GC on 08-APR-20 @ 13:30 Matrix: Water							
Dissolved Metals							
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		14-APR-20	R5056605
Molybdenum (Mo)-Dissolved	0.000320	<T	0.000050	mg/L		16-APR-20	R5057513
Nickel (Ni)-Dissolved	0.00070	<T	0.00050	mg/L		16-APR-20	R5057513
Phosphorus (P)-Dissolved	0.004	<DL	0.050	mg/L		16-APR-20	R5057513
Potassium (K)-Dissolved	0.984		0.050	mg/L		16-APR-20	R5057513
Rubidium (Rb)-Dissolved	0.00133		0.00020	mg/L		16-APR-20	R5057513
Selenium (Se)-Dissolved	0.000115		0.000050	mg/L		16-APR-20	R5057513
Silicon (Si)-Dissolved	3.50		0.050	mg/L		16-APR-20	R5057513
Silver (Ag)-Dissolved	0.000002	<DL	0.000010	mg/L		16-APR-20	R5057513
Sodium (Na)-Dissolved	1.77		0.050	mg/L		16-APR-20	R5057513
Strontium (Sr)-Dissolved	0.0366		0.00010	mg/L		16-APR-20	R5057513
Sulfur (S)-Dissolved	0.6		0.50	mg/L		16-APR-20	R5057513
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		16-APR-20	R5057513
Thallium (Tl)-Dissolved	0.000001	<DL	0.000010	mg/L		16-APR-20	R5057513
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		16-APR-20	R5057513
Tin (Sn)-Dissolved	0.00002	<DL	0.00010	mg/L		16-APR-20	R5057513
Titanium (Ti)-Dissolved	0.00506		0.00030	mg/L		16-APR-20	R5057513
Tungsten (W)-Dissolved	0.000004	<DL	0.00010	mg/L		16-APR-20	R5057513
Uranium (U)-Dissolved	0.000344	<T	0.000010	mg/L		16-APR-20	R5057513
Vanadium (V)-Dissolved	0.00050	<T	0.00050	mg/L		16-APR-20	R5057513
Zinc (Zn)-Dissolved	0.0026	<T	0.0010	mg/L		16-APR-20	R5057513
Zirconium (Zr)-Dissolved	0.000348		0.000060	mg/L		16-APR-20	R5057513
Aggregate Organics							
Biochemical Oxygen Demand	<2.0	BODF	2.0	mg/L		19-APR-20	R5062796
COD	61		10	mg/L		20-APR-20	R5058625
Oil and Grease, Total	0.4	<DL	1.0	mg/L	15-APR-20	15-APR-20	R5056763
L2436089-11 SW26 Sampled By: NB, GC on 08-APR-20 @ 12:00 Matrix: Water							
Field Tests							
pH, Client Supplied	7.62		0.10	pH		13-APR-20	R5056021
Temperature, Client Supplied	5.03		0	Degree C		13-APR-20	R5056021
Physical Tests							
Color, True	74.6		2.0	CU		13-APR-20	R5055985
Conductivity (EC)	152		1.0	uS/cm		13-APR-20	R5055940
Hardness (as CaCO3)	87.4		0.50	mg/L		21-APR-20	
pH	7.73		0.10	pH		13-APR-20	R5056271
Total Suspended Solids	4.5		2.0	mg/L		14-APR-20	R5056803
Total Dissolved Solids	118		13	mg/L		13-APR-20	R5056364
Turbidity	6.41		0.10	NTU		14-APR-20	R5056329
Anions and Nutrients							
Acidity (as CaCO3)	1.8	<DL	2.0	mg/L		15-APR-20	R5056949

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-11 SW26							
Sampled By: NB, GC on 08-APR-20 @ 12:00							
Matrix: Water							
Anions and Nutrients							
Alkalinity, Total (as CaCO3)	81.2		2.0	mg/L		13-APR-20	R5056271
Ammonia, Total (as N)	0.015	<DL	0.020	mg/L		16-APR-20	R5057374
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		17-APR-20	
Chloride (Cl)	3.81		0.10	mg/L		13-APR-20	R5056231
Fluoride (F)	0.032		0.020	mg/L		13-APR-20	R5056231
Nitrate (as N)	0.034	<T	0.020	mg/L		13-APR-20	R5056231
Nitrite (as N)	<0.001	<W	0.010	mg/L		13-APR-20	R5056231
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		15-APR-20	R5056878
Sulfate (SO4)	2.00	<T	0.30	mg/L		13-APR-20	R5056231
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Total	0.0006	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Free	0.0007	<DL	0.0020	mg/L		14-APR-20	R5056752
Organic / Inorganic Carbon							
Dissolved Organic Carbon	12.5		0.50	mg/L		21-APR-20	R5059858
Total Organic Carbon	12.6		0.50	mg/L		15-APR-20	R5057467
Total Metals							
Aluminum (Al)-Total	0.427		0.0030	mg/L		17-APR-20	R5058646
Antimony (Sb)-Total	<0.00002	<W	0.00010	mg/L		17-APR-20	R5058646
Arsenic (As)-Total	0.00050	<T	0.00010	mg/L		17-APR-20	R5058646
Barium (Ba)-Total	0.0133		0.00010	mg/L		17-APR-20	R5058646
Beryllium (Be)-Total	0.000002	<DL	0.00010	mg/L		17-APR-20	R5058646
Bismuth (Bi)-Total	0.000010	<DL	0.000050	mg/L		17-APR-20	R5058646
Boron (B)-Total	0.0065	<DL	0.010	mg/L		17-APR-20	R5058646
Cadmium (Cd)-Total	0.000005	<T	0.0000050	mg/L		17-APR-20	R5058646
Calcium (Ca)-Total	21.0		0.050	mg/L		17-APR-20	R5058646
Cesium (Cs)-Total	0.000053		0.000010	mg/L		17-APR-20	R5058646
Chromium (Cr)-Total	0.00072	<T	0.00010	mg/L		17-APR-20	R5058646
Cobalt (Co)-Total	0.000220	<T	0.00010	mg/L		17-APR-20	R5058646
Copper (Cu)-Total	0.00156	<T	0.00050	mg/L		17-APR-20	R5058646
Iron (Fe)-Total	0.529		0.010	mg/L		17-APR-20	R5058646
Lead (Pb)-Total	0.000225	<T	0.000050	mg/L		17-APR-20	R5058646
Lithium (Li)-Total	0.00214	<T	0.0010	mg/L		17-APR-20	R5058646
Magnesium (Mg)-Total	9.40		0.0050	mg/L		17-APR-20	R5058646
Manganese (Mn)-Total	0.0229		0.00010	mg/L		17-APR-20	R5058646
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		14-APR-20	R5056604
Molybdenum (Mo)-Total	0.000340	<T	0.000050	mg/L		17-APR-20	R5058646
Nickel (Ni)-Total	0.00118	<T	0.00050	mg/L		17-APR-20	R5058646
Phosphorus (P)-Total	0.018	<DL	0.050	mg/L		17-APR-20	R5058646
Potassium (K)-Total	1.11		0.050	mg/L		17-APR-20	R5058646
Rubidium (Rb)-Total	0.00205		0.00020	mg/L		17-APR-20	R5058646
Selenium (Se)-Total	0.000125		0.000050	mg/L		17-APR-20	R5058646

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-11 SW26							
Sampled By: NB, GC on 08-APR-20 @ 12:00							
Matrix: Water							
Total Metals							
Silicon (Si)-Total	4.20		0.10	mg/L		17-APR-20	R5058646
Silver (Ag)-Total	0.000006	<DL	0.000010	mg/L		17-APR-20	R5058646
Sodium (Na)-Total	1.97		0.050	mg/L		17-APR-20	R5058646
Strontium (Sr)-Total	0.0372		0.00020	mg/L		17-APR-20	R5058646
Sulfur (S)-Total	0.6		0.50	mg/L		17-APR-20	R5058646
Tellurium (Te)-Total	0.000015	<DL	0.00020	mg/L		17-APR-20	R5058646
Thallium (Tl)-Total	<0.000001	<W	0.000010	mg/L		17-APR-20	R5058646
Thorium (Th)-Total	0.000035	<DL	0.00010	mg/L		17-APR-20	R5058646
Tin (Sn)-Total	0.00006	<DL	0.00010	mg/L		17-APR-20	R5058646
Titanium (Ti)-Total	0.00988		0.00030	mg/L		17-APR-20	R5058646
Tungsten (W)-Total	0.000006	<DL	0.00010	mg/L		17-APR-20	R5058646
Uranium (U)-Total	0.000419	<T	0.000010	mg/L		17-APR-20	R5058646
Vanadium (V)-Total	0.00128	<T	0.00050	mg/L		17-APR-20	R5058646
Zinc (Zn)-Total	0.0065	<T	0.0030	mg/L		17-APR-20	R5058646
Zirconium (Zr)-Total	0.000264		0.000060	mg/L		17-APR-20	R5058646
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					16-APR-20	R5057216
Aluminum (Al)-Dissolved	0.0260	<T	0.0010	mg/L		16-APR-20	R5057513
Antimony (Sb)-Dissolved	0.000050	<DL	0.00010	mg/L		16-APR-20	R5057513
Arsenic (As)-Dissolved	0.000415	<T	0.00010	mg/L		16-APR-20	R5057513
Barium (Ba)-Dissolved	0.0103		0.00010	mg/L		16-APR-20	R5057513
Beryllium (Be)-Dissolved	<0.000002	<W	0.00010	mg/L		16-APR-20	R5057513
Bismuth (Bi)-Dissolved	<0.000001	<W	0.000050	mg/L		16-APR-20	R5057513
Boron (B)-Dissolved	0.0070	<DL	0.010	mg/L		16-APR-20	R5057513
Cadmium (Cd)-Dissolved	0.0000048	<DL	0.0000050	mg/L		16-APR-20	R5057513
Calcium (Ca)-Dissolved	20.4		0.050	mg/L		16-APR-20	R5057513
Cesium (Cs)-Dissolved	0.000002	<DL	0.000010	mg/L		16-APR-20	R5057513
Chromium (Cr)-Dissolved	0.00014	<T	0.00010	mg/L		16-APR-20	R5057513
Cobalt (Co)-Dissolved	0.000089	<DL	0.00010	mg/L		16-APR-20	R5057513
Copper (Cu)-Dissolved	0.00114	<T	0.00020	mg/L		16-APR-20	R5057513
Iron (Fe)-Dissolved	0.132		0.010	mg/L		16-APR-20	R5057513
Lead (Pb)-Dissolved	0.000050	<T	0.000050	mg/L		16-APR-20	R5057513
Lithium (Li)-Dissolved	0.00168	<T	0.0010	mg/L		16-APR-20	R5057513
Magnesium (Mg)-Dissolved	8.89		0.0050	mg/L		16-APR-20	R5057513
Manganese (Mn)-Dissolved	0.0155		0.00010	mg/L		16-APR-20	R5057513
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		14-APR-20	R5056605
Molybdenum (Mo)-Dissolved	0.000328	<T	0.000050	mg/L		16-APR-20	R5057513
Nickel (Ni)-Dissolved	0.00068	<T	0.00050	mg/L		16-APR-20	R5057513
Phosphorus (P)-Dissolved	0.004	<DL	0.050	mg/L		16-APR-20	R5057513
Potassium (K)-Dissolved	0.948		0.050	mg/L		16-APR-20	R5057513
Rubidium (Rb)-Dissolved	0.00102		0.00020	mg/L		16-APR-20	R5057513

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-11 SW26 Sampled By: NB, GC on 08-APR-20 @ 12:00 Matrix: Water							
Dissolved Metals							
Selenium (Se)-Dissolved	0.000140		0.000050	mg/L		16-APR-20	R5057513
Silicon (Si)-Dissolved	3.24		0.050	mg/L		16-APR-20	R5057513
Silver (Ag)-Dissolved	0.000002	<DL	0.000010	mg/L		16-APR-20	R5057513
Sodium (Na)-Dissolved	1.74		0.050	mg/L		16-APR-20	R5057513
Strontium (Sr)-Dissolved	0.0365		0.00010	mg/L		16-APR-20	R5057513
Sulfur (S)-Dissolved	0.8		0.50	mg/L		16-APR-20	R5057513
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		16-APR-20	R5057513
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		16-APR-20	R5057513
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		16-APR-20	R5057513
Tin (Sn)-Dissolved	0.00013		0.00010	mg/L		16-APR-20	R5057513
Titanium (Ti)-Dissolved	0.00138		0.00030	mg/L		16-APR-20	R5057513
Tungsten (W)-Dissolved	0.000004	<DL	0.00010	mg/L		16-APR-20	R5057513
Uranium (U)-Dissolved	0.000408	<T	0.000010	mg/L		16-APR-20	R5057513
Vanadium (V)-Dissolved	0.00044	<DL	0.00050	mg/L		16-APR-20	R5057513
Zinc (Zn)-Dissolved	0.0048	<T	0.0010	mg/L		16-APR-20	R5057513
Zirconium (Zr)-Dissolved	0.000248		0.000060	mg/L		16-APR-20	R5057513
Aggregate Organics							
Biochemical Oxygen Demand	<2.0	BODF	2.0	mg/L		19-APR-20	R5062796
COD	53		10	mg/L		20-APR-20	R5058625
Oil and Grease, Total	7.4		1.0	mg/L	15-APR-20	15-APR-20	R5056763
L2436089-12 SW10 Sampled By: NB, GC on 08-APR-20 @ 11:00 Matrix: Water							
Field Tests							
pH, Client Supplied	7.47		0.10	pH		13-APR-20	R5056021
Temperature, Client Supplied	2.17		0	Degree C		13-APR-20	R5056021
Physical Tests							
Color, True	105		2.0	CU		13-APR-20	R5055985
Conductivity (EC)	140		1.0	uS/cm		13-APR-20	R5055940
Hardness (as CaCO3)	76.2		0.50	mg/L		21-APR-20	
pH	7.49		0.10	pH		13-APR-20	R5056271
Total Suspended Solids	11.5		2.0	mg/L		14-APR-20	R5056803
Total Dissolved Solids	126		13	mg/L		13-APR-20	R5056364
Turbidity	15.0		0.10	NTU		14-APR-20	R5056329
Anions and Nutrients							
Acidity (as CaCO3)	2.2		2.0	mg/L		15-APR-20	R5056949
Alkalinity, Total (as CaCO3)	69.2		2.0	mg/L		13-APR-20	R5056271
Ammonia, Total (as N)	0.045	<T	0.020	mg/L		16-APR-20	R5057374
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		17-APR-20	
Chloride (Cl)	4.54		0.10	mg/L		13-APR-20	R5056231
Fluoride (F)	0.032		0.020	mg/L		13-APR-20	R5056231
Nitrate (as N)	0.084	<T	0.020	mg/L		13-APR-20	R5056231

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-12 SW10							
Sampled By: NB, GC on 08-APR-20 @ 11:00							
Matrix: Water							
Anions and Nutrients							
Nitrite (as N)	0.001	<DL	0.010	mg/L		13-APR-20	R5056231
Orthophosphate-Dissolved (as P)	0.0073		0.0030	mg/L		15-APR-20	R5056878
Sulfate (SO4)	3.00	<T	0.30	mg/L		13-APR-20	R5056231
Cyanides							
Cyanide, Weak Acid Diss	0.0001	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Total	0.0006	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Free	0.0008	<DL	0.0020	mg/L		14-APR-20	R5056752
Organic / Inorganic Carbon							
Dissolved Organic Carbon	15.3		0.50	mg/L		21-APR-20	R5059858
Total Organic Carbon	15.0		0.50	mg/L		15-APR-20	R5057467
Total Metals							
Aluminum (Al)-Total	0.818		0.0030	mg/L		17-APR-20	R5058646
Antimony (Sb)-Total	<0.00002	<W	0.00010	mg/L		17-APR-20	R5058646
Arsenic (As)-Total	0.00066	<T	0.00010	mg/L		17-APR-20	R5058646
Barium (Ba)-Total	0.0170		0.00010	mg/L		17-APR-20	R5058646
Beryllium (Be)-Total	0.000020	<DL	0.00010	mg/L		17-APR-20	R5058646
Bismuth (Bi)-Total	0.000010	<DL	0.000050	mg/L		17-APR-20	R5058646
Boron (B)-Total	0.0105	<T	0.010	mg/L		17-APR-20	R5058646
Cadmium (Cd)-Total	0.000015	<T	0.0000050	mg/L		17-APR-20	R5058646
Calcium (Ca)-Total	17.9		0.050	mg/L		17-APR-20	R5058646
Cesium (Cs)-Total	0.000099		0.000010	mg/L		17-APR-20	R5058646
Chromium (Cr)-Total	0.00134	<T	0.00010	mg/L		17-APR-20	R5058646
Cobalt (Co)-Total	0.000398	<T	0.00010	mg/L		17-APR-20	R5058646
Copper (Cu)-Total	0.00172	<T	0.00050	mg/L		17-APR-20	R5058646
Iron (Fe)-Total	0.905		0.010	mg/L		17-APR-20	R5058646
Lead (Pb)-Total	0.000400	<T	0.000050	mg/L		17-APR-20	R5058646
Lithium (Li)-Total	0.00350	<T	0.0010	mg/L		17-APR-20	R5058646
Magnesium (Mg)-Total	8.73		0.0050	mg/L		17-APR-20	R5058646
Manganese (Mn)-Total	0.0266		0.00010	mg/L		17-APR-20	R5058646
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		14-APR-20	R5056604
Molybdenum (Mo)-Total	0.000430	<T	0.000050	mg/L		17-APR-20	R5058646
Nickel (Ni)-Total	0.00182	<T	0.00050	mg/L		17-APR-20	R5058646
Phosphorus (P)-Total	0.050		0.050	mg/L		17-APR-20	R5058646
Potassium (K)-Total	1.75		0.050	mg/L		17-APR-20	R5058646
Rubidium (Rb)-Total	0.00324		0.00020	mg/L		17-APR-20	R5058646
Selenium (Se)-Total	0.000100		0.000050	mg/L		17-APR-20	R5058646
Silicon (Si)-Total	5.04		0.10	mg/L		17-APR-20	R5058646
Silver (Ag)-Total	0.000006	<DL	0.000010	mg/L		17-APR-20	R5058646
Sodium (Na)-Total	3.22		0.050	mg/L		17-APR-20	R5058646
Strontium (Sr)-Total	0.0425		0.00020	mg/L		17-APR-20	R5058646
Sulfur (S)-Total	1.2		0.50	mg/L		17-APR-20	R5058646
Tellurium (Te)-Total	<0.000005	<W	0.00020	mg/L		17-APR-20	R5058646

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-12 SW10							
Sampled By: NB, GC on 08-APR-20 @ 11:00							
Matrix: Water							
Total Metals							
Thallium (Tl)-Total	0.000004	<DL	0.000010	mg/L		17-APR-20	R5058646
Thorium (Th)-Total	0.000065	<DL	0.00010	mg/L		17-APR-20	R5058646
Tin (Sn)-Total	0.00018		0.00010	mg/L		17-APR-20	R5058646
Titanium (Ti)-Total	0.0167		0.00030	mg/L		17-APR-20	R5058646
Tungsten (W)-Total	0.000004	<DL	0.00010	mg/L		17-APR-20	R5058646
Uranium (U)-Total	0.000335	<T	0.000010	mg/L		17-APR-20	R5058646
Vanadium (V)-Total	0.00246	<T	0.00050	mg/L		17-APR-20	R5058646
Zinc (Zn)-Total	0.0050	<T	0.0030	mg/L		17-APR-20	R5058646
Zirconium (Zr)-Total	0.000464		0.000060	mg/L		17-APR-20	R5058646
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					16-APR-20	R5057216
Aluminum (Al)-Dissolved	0.0378		0.0010	mg/L		16-APR-20	R5057513
Antimony (Sb)-Dissolved	0.000050	<DL	0.00010	mg/L		16-APR-20	R5057513
Arsenic (As)-Dissolved	0.000545	<T	0.00010	mg/L		16-APR-20	R5057513
Barium (Ba)-Dissolved	0.0118		0.00010	mg/L		16-APR-20	R5057513
Beryllium (Be)-Dissolved	<0.000002	<W	0.00010	mg/L		16-APR-20	R5057513
Bismuth (Bi)-Dissolved	<0.000001	<W	0.000050	mg/L		16-APR-20	R5057513
Boron (B)-Dissolved	0.0100	<T	0.010	mg/L		16-APR-20	R5057513
Cadmium (Cd)-Dissolved	0.0000084	<T	0.0000050	mg/L		16-APR-20	R5057513
Calcium (Ca)-Dissolved	16.4		0.050	mg/L		16-APR-20	R5057513
Cesium (Cs)-Dissolved	0.000001	<DL	0.000010	mg/L		16-APR-20	R5057513
Chromium (Cr)-Dissolved	0.00020	<T	0.00010	mg/L		16-APR-20	R5057513
Cobalt (Co)-Dissolved	0.000137	<T	0.00010	mg/L		16-APR-20	R5057513
Copper (Cu)-Dissolved	0.00098	<T	0.00020	mg/L		16-APR-20	R5057513
Iron (Fe)-Dissolved	0.141		0.010	mg/L		16-APR-20	R5057513
Lead (Pb)-Dissolved	0.000055	<T	0.000050	mg/L		16-APR-20	R5057513
Lithium (Li)-Dissolved	0.00262	<T	0.0010	mg/L		16-APR-20	R5057513
Magnesium (Mg)-Dissolved	8.57		0.0050	mg/L		16-APR-20	R5057513
Manganese (Mn)-Dissolved	0.0161		0.00010	mg/L		16-APR-20	R5057513
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		14-APR-20	R5056605
Molybdenum (Mo)-Dissolved	0.000404	<T	0.000050	mg/L		16-APR-20	R5057513
Nickel (Ni)-Dissolved	0.00100	<T	0.00050	mg/L		16-APR-20	R5057513
Phosphorus (P)-Dissolved	0.014	<DL	0.050	mg/L		16-APR-20	R5057513
Potassium (K)-Dissolved	1.53		0.050	mg/L		16-APR-20	R5057513
Rubidium (Rb)-Dissolved	0.00136		0.00020	mg/L		16-APR-20	R5057513
Selenium (Se)-Dissolved	0.000140		0.000050	mg/L		16-APR-20	R5057513
Silicon (Si)-Dissolved	3.27		0.050	mg/L		16-APR-20	R5057513
Silver (Ag)-Dissolved	0.000002	<DL	0.000010	mg/L		16-APR-20	R5057513
Sodium (Na)-Dissolved	3.15		0.050	mg/L		16-APR-20	R5057513
Strontium (Sr)-Dissolved	0.0399		0.00010	mg/L		16-APR-20	R5057513
Sulfur (S)-Dissolved	1.4		0.50	mg/L		16-APR-20	R5057513

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-12 SW10 Sampled By: NB, GC on 08-APR-20 @ 11:00 Matrix: Water							
Dissolved Metals							
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		16-APR-20	R5057513
Thallium (Tl)-Dissolved	0.000001	<DL	0.000010	mg/L		16-APR-20	R5057513
Thorium (Th)-Dissolved	0.00006	<DL	0.00010	mg/L		16-APR-20	R5057513
Tin (Sn)-Dissolved	0.00006	<DL	0.00010	mg/L		16-APR-20	R5057513
Titanium (Ti)-Dissolved	0.00234		0.00030	mg/L		16-APR-20	R5057513
Tungsten (W)-Dissolved	0.000004	<DL	0.00010	mg/L		16-APR-20	R5057513
Uranium (U)-Dissolved	0.000287	<T	0.000010	mg/L		16-APR-20	R5057513
Vanadium (V)-Dissolved	0.00072	<T	0.00050	mg/L		16-APR-20	R5057513
Zinc (Zn)-Dissolved	0.0014	<T	0.0010	mg/L		16-APR-20	R5057513
Zirconium (Zr)-Dissolved	0.000376		0.000060	mg/L		16-APR-20	R5057513
Aggregate Organics							
Biochemical Oxygen Demand	<2.0	BODF	2.0	mg/L		19-APR-20	R5062796
COD	69		10	mg/L		20-APR-20	R5058625
Oil and Grease, Total	<0.2	<W	1.0	mg/L	15-APR-20	15-APR-20	R5056763
L2436089-13 SW28A Sampled By: NB, GC on 08-APR-20 @ 10:30 Matrix: Water							
Field Tests							
pH, Client Supplied	7.34		0.10	pH		13-APR-20	R5056021
Temperature, Client Supplied	4.35		0	Degree C		13-APR-20	R5056021
Physical Tests							
Color, True	136		2.0	CU		13-APR-20	R5055985
Conductivity (EC)	129		1.0	uS/cm		13-APR-20	R5055940
Hardness (as CaCO3)	78.2		0.50	mg/L		21-APR-20	
pH	7.37		0.10	pH		13-APR-20	R5056271
Total Suspended Solids	19.0		2.0	mg/L		14-APR-20	R5056803
Total Dissolved Solids	124		13	mg/L		13-APR-20	R5056364
Turbidity	10.1		0.10	NTU		14-APR-20	R5056329
Anions and Nutrients							
Acidity (as CaCO3)	3.2		2.0	mg/L		15-APR-20	R5056949
Alkalinity, Total (as CaCO3)	71.8		2.0	mg/L		13-APR-20	R5056271
Ammonia, Total (as N)	0.040	<T	0.020	mg/L		16-APR-20	R5057374
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		17-APR-20	
Chloride (Cl)	1.09		0.10	mg/L		13-APR-20	R5056231
Fluoride (F)	0.031		0.020	mg/L		13-APR-20	R5056231
Nitrate (as N)	0.086	<T	0.020	mg/L		13-APR-20	R5056231
Nitrite (as N)	<0.001	<W	0.010	mg/L		13-APR-20	R5056231
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		15-APR-20	R5056878
Sulfate (SO4)	1.70	<T	0.30	mg/L		13-APR-20	R5056231
Cyanides							
Cyanide, Weak Acid Diss	0.0002	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Total	0.0004	<DL	0.0020	mg/L		14-APR-20	R5056752

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-13 SW28A							
Sampled By: NB, GC on 08-APR-20 @ 10:30							
Matrix: Water							
Cyanides							
Cyanide, Free	0.0009	<DL	0.0020	mg/L		14-APR-20	R5056752
Organic / Inorganic Carbon							
Dissolved Organic Carbon	21.3		0.50	mg/L		16-APR-20	R5058985
Total Organic Carbon	19.3		0.50	mg/L		15-APR-20	R5057467
Total Metals							
Aluminum (Al)-Total	0.614		0.0030	mg/L		17-APR-20	R5058646
Antimony (Sb)-Total	<0.00002	<W	0.00010	mg/L		17-APR-20	R5058646
Arsenic (As)-Total	0.00076	<T	0.00010	mg/L		17-APR-20	R5058646
Barium (Ba)-Total	0.0159		0.00010	mg/L		17-APR-20	R5058646
Beryllium (Be)-Total	0.000010	<DL	0.00010	mg/L		17-APR-20	R5058646
Bismuth (Bi)-Total	0.000005	<DL	0.000050	mg/L		17-APR-20	R5058646
Boron (B)-Total	0.0085	<DL	0.010	mg/L		17-APR-20	R5058646
Cadmium (Cd)-Total	0.000017	<T	0.0000050	mg/L		17-APR-20	R5058646
Calcium (Ca)-Total	18.2		0.050	mg/L		17-APR-20	R5058646
Cesium (Cs)-Total	0.000086		0.000010	mg/L		17-APR-20	R5058646
Chromium (Cr)-Total	0.00104	<T	0.00010	mg/L		17-APR-20	R5058646
Cobalt (Co)-Total	0.000438	<T	0.00010	mg/L		17-APR-20	R5058646
Copper (Cu)-Total	0.00126	<T	0.00050	mg/L		17-APR-20	R5058646
Iron (Fe)-Total	0.927		0.010	mg/L		17-APR-20	R5058646
Lead (Pb)-Total	0.000375	<T	0.000050	mg/L		17-APR-20	R5058646
Lithium (Li)-Total	0.00282	<T	0.0010	mg/L		17-APR-20	R5058646
Magnesium (Mg)-Total	9.36		0.0050	mg/L		17-APR-20	R5058646
Manganese (Mn)-Total	0.0691		0.00010	mg/L		17-APR-20	R5058646
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		14-APR-20	R5056604
Molybdenum (Mo)-Total	0.000315	<T	0.000050	mg/L		17-APR-20	R5058646
Nickel (Ni)-Total	0.00140	<T	0.00050	mg/L		17-APR-20	R5058646
Phosphorus (P)-Total	0.036	<DL	0.050	mg/L		17-APR-20	R5058646
Potassium (K)-Total	1.14		0.050	mg/L		17-APR-20	R5058646
Rubidium (Rb)-Total	0.00316		0.00020	mg/L		17-APR-20	R5058646
Selenium (Se)-Total	0.000100		0.000050	mg/L		17-APR-20	R5058646
Silicon (Si)-Total	4.83		0.10	mg/L		17-APR-20	R5058646
Silver (Ag)-Total	0.000006	<DL	0.000010	mg/L		17-APR-20	R5058646
Sodium (Na)-Total	1.11		0.050	mg/L		17-APR-20	R5058646
Strontium (Sr)-Total	0.0371		0.00020	mg/L		17-APR-20	R5058646
Sulfur (S)-Total	0.6		0.50	mg/L		17-APR-20	R5058646
Tellurium (Te)-Total	0.000010	<DL	0.00020	mg/L		17-APR-20	R5058646
Thallium (Tl)-Total	0.000003	<DL	0.000010	mg/L		17-APR-20	R5058646
Thorium (Th)-Total	0.000055	<DL	0.00010	mg/L		17-APR-20	R5058646
Tin (Sn)-Total	0.00016		0.00010	mg/L		17-APR-20	R5058646
Titanium (Ti)-Total	0.0133		0.00030	mg/L		17-APR-20	R5058646
Tungsten (W)-Total	0.000006	<DL	0.00010	mg/L		17-APR-20	R5058646

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-13 SW28A							
Sampled By: NB, GC on 08-APR-20 @ 10:30							
Matrix: Water							
Total Metals							
Uranium (U)-Total	0.000253	<T	0.000010	mg/L		17-APR-20	R5058646
Vanadium (V)-Total	0.00188	<T	0.00050	mg/L		17-APR-20	R5058646
Zinc (Zn)-Total	0.0045	<T	0.0030	mg/L		17-APR-20	R5058646
Zirconium (Zr)-Total	0.000354		0.000060	mg/L		17-APR-20	R5058646
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					16-APR-20	R5057216
Aluminum (Al)-Dissolved	0.0438		0.0010	mg/L		16-APR-20	R5057513
Antimony (Sb)-Dissolved	0.000045	<DL	0.00010	mg/L		16-APR-20	R5057513
Arsenic (As)-Dissolved	0.000615	<T	0.00010	mg/L		16-APR-20	R5057513
Barium (Ba)-Dissolved	0.0116		0.00010	mg/L		16-APR-20	R5057513
Beryllium (Be)-Dissolved	<0.000002	<W	0.00010	mg/L		16-APR-20	R5057513
Bismuth (Bi)-Dissolved	<0.000001	<W	0.000050	mg/L		16-APR-20	R5057513
Boron (B)-Dissolved	0.0090	<DL	0.010	mg/L		16-APR-20	R5057513
Cadmium (Cd)-Dissolved	0.0000096	<T	0.0000050	mg/L		16-APR-20	R5057513
Calcium (Ca)-Dissolved	16.4		0.050	mg/L		16-APR-20	R5057513
Cesium (Cs)-Dissolved	0.000003	<DL	0.000010	mg/L		16-APR-20	R5057513
Chromium (Cr)-Dissolved	0.00018	<T	0.00010	mg/L		16-APR-20	R5057513
Cobalt (Co)-Dissolved	0.000177	<T	0.00010	mg/L		16-APR-20	R5057513
Copper (Cu)-Dissolved	0.00068	<T	0.00020	mg/L		16-APR-20	R5057513
Iron (Fe)-Dissolved	0.262		0.010	mg/L		16-APR-20	R5057513
Lead (Pb)-Dissolved	0.000070	<T	0.000050	mg/L		16-APR-20	R5057513
Lithium (Li)-Dissolved	0.00212	<T	0.0010	mg/L		16-APR-20	R5057513
Magnesium (Mg)-Dissolved	9.07		0.0050	mg/L		16-APR-20	R5057513
Manganese (Mn)-Dissolved	0.0498		0.00010	mg/L		16-APR-20	R5057513
Mercury (Hg)-Dissolved	0.000005	<DL	0.000030	mg/L		14-APR-20	R5056605
Molybdenum (Mo)-Dissolved	0.000294	<T	0.000050	mg/L		16-APR-20	R5057513
Nickel (Ni)-Dissolved	0.00070	<T	0.00050	mg/L		16-APR-20	R5057513
Phosphorus (P)-Dissolved	0.010	<DL	0.050	mg/L		16-APR-20	R5057513
Potassium (K)-Dissolved	0.988		0.050	mg/L		16-APR-20	R5057513
Rubidium (Rb)-Dissolved	0.00150		0.00020	mg/L		16-APR-20	R5057513
Selenium (Se)-Dissolved	0.000165		0.000050	mg/L		16-APR-20	R5057513
Silicon (Si)-Dissolved	3.29		0.050	mg/L		16-APR-20	R5057513
Silver (Ag)-Dissolved	0.000001	<DL	0.000010	mg/L		16-APR-20	R5057513
Sodium (Na)-Dissolved	1.09		0.050	mg/L		16-APR-20	R5057513
Strontium (Sr)-Dissolved	0.0355		0.00010	mg/L		16-APR-20	R5057513
Sulfur (S)-Dissolved	0.6		0.50	mg/L		16-APR-20	R5057513
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		16-APR-20	R5057513
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		16-APR-20	R5057513
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		16-APR-20	R5057513
Tin (Sn)-Dissolved	0.00035		0.00010	mg/L		16-APR-20	R5057513
Titanium (Ti)-Dissolved	0.00148		0.00030	mg/L		16-APR-20	R5057513

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-13 SW28A Sampled By: NB, GC on 08-APR-20 @ 10:30 Matrix: Water							
Dissolved Metals							
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		16-APR-20	R5057513
Uranium (U)-Dissolved	0.000202	<T	0.000010	mg/L		16-APR-20	R5057513
Vanadium (V)-Dissolved	0.00050	<T	0.00050	mg/L		16-APR-20	R5057513
Zinc (Zn)-Dissolved	0.0018	<T	0.0010	mg/L		16-APR-20	R5057513
Zirconium (Zr)-Dissolved	0.000294		0.000060	mg/L		16-APR-20	R5057513
Aggregate Organics							
Biochemical Oxygen Demand	<2.0	BODF	2.0	mg/L		19-APR-20	R5062796
COD	78		10	mg/L		20-APR-20	R5058625
Oil and Grease, Total	0.6	<DL	1.0	mg/L	15-APR-20	15-APR-20	R5056763
L2436089-14 SW20 Sampled By: NB, GC on 08-APR-20 @ 10:00 Matrix: Water							
Field Tests							
pH, Client Supplied	7.22		0.10	pH		13-APR-20	R5056021
Temperature, Client Supplied	2.14		0	Degree C		13-APR-20	R5056021
Physical Tests							
Color, True	106		2.0	CU		13-APR-20	R5055985
Conductivity (EC)	130		1.0	uS/cm		13-APR-20	R5055940
Hardness (as CaCO3)	67.9		0.50	mg/L		21-APR-20	
pH	7.39		0.10	pH		13-APR-20	R5056271
Total Suspended Solids	12.5		2.0	mg/L		14-APR-20	R5056803
Total Dissolved Solids	126		13	mg/L		13-APR-20	R5056364
Turbidity	16.1		0.10	NTU		14-APR-20	R5056329
Anions and Nutrients							
Acidity (as CaCO3)	2.6		2.0	mg/L		15-APR-20	R5056949
Alkalinity, Total (as CaCO3)	62.0		2.0	mg/L		13-APR-20	R5056271
Ammonia, Total (as N)	0.030	<T	0.020	mg/L		16-APR-20	R5057374
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		17-APR-20	
Chloride (Cl)	5.23		0.10	mg/L		13-APR-20	R5056231
Fluoride (F)	0.027		0.020	mg/L		13-APR-20	R5056231
Nitrate (as N)	0.068	<T	0.020	mg/L		13-APR-20	R5056231
Nitrite (as N)	<0.001	<W	0.010	mg/L		13-APR-20	R5056231
Orthophosphate-Dissolved (as P)	<0.0030	PEHT	0.0030	mg/L		15-APR-20	R5056878
Sulfate (SO4)	3.15	<T	0.30	mg/L		13-APR-20	R5056231
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Total	0.0002	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Free	0.0008	<DL	0.0020	mg/L		14-APR-20	R5056752
Organic / Inorganic Carbon							
Dissolved Organic Carbon	14.7		0.50	mg/L		21-APR-20	R5059858
Total Organic Carbon	14.6		0.50	mg/L		15-APR-20	R5057467
Total Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-14 SW20 Sampled By: NB, GC on 08-APR-20 @ 10:00 Matrix: Water							
Total Metals							
Aluminum (Al)-Total	1.06		0.0030	mg/L		17-APR-20	R5058646
Antimony (Sb)-Total	<0.00002	<W	0.00010	mg/L		17-APR-20	R5058646
Arsenic (As)-Total	0.00065	<T	0.00010	mg/L		17-APR-20	R5058646
Barium (Ba)-Total	0.0176		0.00010	mg/L		17-APR-20	R5058646
Beryllium (Be)-Total	0.000024	<DL	0.00010	mg/L		17-APR-20	R5058646
Bismuth (Bi)-Total	0.000010	<DL	0.000050	mg/L		17-APR-20	R5058646
Boron (B)-Total	0.0105	<T	0.010	mg/L		17-APR-20	R5058646
Cadmium (Cd)-Total	0.000010	<T	0.0000050	mg/L		17-APR-20	R5058646
Calcium (Ca)-Total	16.5		0.050	mg/L		17-APR-20	R5058646
Cesium (Cs)-Total	0.000139		0.000010	mg/L		17-APR-20	R5058646
Chromium (Cr)-Total	0.00164	<T	0.00010	mg/L		17-APR-20	R5058646
Cobalt (Co)-Total	0.000450	<T	0.00010	mg/L		17-APR-20	R5058646
Copper (Cu)-Total	0.00170	<T	0.00050	mg/L		17-APR-20	R5058646
Iron (Fe)-Total	1.09		0.010	mg/L		17-APR-20	R5058646
Lead (Pb)-Total	0.000490	<T	0.000050	mg/L		17-APR-20	R5058646
Lithium (Li)-Total	0.00358	<T	0.0010	mg/L		17-APR-20	R5058646
Magnesium (Mg)-Total	7.93		0.0050	mg/L		17-APR-20	R5058646
Manganese (Mn)-Total	0.0319		0.00010	mg/L		17-APR-20	R5058646
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		14-APR-20	R5056604
Molybdenum (Mo)-Total	0.000350	<T	0.000050	mg/L		17-APR-20	R5058646
Nickel (Ni)-Total	0.00190	<T	0.00050	mg/L		17-APR-20	R5058646
Phosphorus (P)-Total	0.046	<DL	0.050	mg/L		17-APR-20	R5058646
Potassium (K)-Total	1.58		0.050	mg/L		17-APR-20	R5058646
Rubidium (Rb)-Total	0.00388		0.00020	mg/L		17-APR-20	R5058646
Selenium (Se)-Total	0.000100		0.000050	mg/L		17-APR-20	R5058646
Silicon (Si)-Total	5.43		0.10	mg/L		17-APR-20	R5058646
Silver (Ag)-Total	0.000008	<DL	0.000010	mg/L		17-APR-20	R5058646
Sodium (Na)-Total	3.79		0.050	mg/L		17-APR-20	R5058646
Strontium (Sr)-Total	0.0398		0.00020	mg/L		17-APR-20	R5058646
Sulfur (S)-Total	1.2		0.50	mg/L		17-APR-20	R5058646
Tellurium (Te)-Total	0.000005	<DL	0.00020	mg/L		17-APR-20	R5058646
Thallium (Tl)-Total	0.000008	<DL	0.000010	mg/L		17-APR-20	R5058646
Thorium (Th)-Total	0.000065	<DL	0.00010	mg/L		17-APR-20	R5058646
Tin (Sn)-Total	0.00030		0.00010	mg/L		17-APR-20	R5058646
Titanium (Ti)-Total	0.0218		0.00030	mg/L		17-APR-20	R5058646
Tungsten (W)-Total	0.000006	<DL	0.00010	mg/L		17-APR-20	R5058646
Uranium (U)-Total	0.000270	<T	0.000010	mg/L		17-APR-20	R5058646
Vanadium (V)-Total	0.00290	<T	0.00050	mg/L		17-APR-20	R5058646
Zinc (Zn)-Total	0.0075	<T	0.0030	mg/L		17-APR-20	R5058646
Zirconium (Zr)-Total	0.000396		0.000060	mg/L		17-APR-20	R5058646
Dissolved Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-14 SW20 Sampled By: NB, GC on 08-APR-20 @ 10:00 Matrix: Water							
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					16-APR-20	R5057216
Aluminum (Al)-Dissolved	0.0472		0.0010	mg/L		16-APR-20	R5057513
Antimony (Sb)-Dissolved	0.000055	<DL	0.00010	mg/L		16-APR-20	R5057513
Arsenic (As)-Dissolved	0.000460	<T	0.00010	mg/L		16-APR-20	R5057513
Barium (Ba)-Dissolved	0.0108		0.00010	mg/L		16-APR-20	R5057513
Beryllium (Be)-Dissolved	0.000004	<DL	0.00010	mg/L		16-APR-20	R5057513
Bismuth (Bi)-Dissolved	<0.000001	<W	0.000050	mg/L		16-APR-20	R5057513
Boron (B)-Dissolved	0.0100	<T	0.010	mg/L		16-APR-20	R5057513
Cadmium (Cd)-Dissolved	0.0000066	<T	0.0000050	mg/L		16-APR-20	R5057513
Calcium (Ca)-Dissolved	14.9		0.050	mg/L		16-APR-20	R5057513
Cesium (Cs)-Dissolved	0.000001	<DL	0.000010	mg/L		16-APR-20	R5057513
Chromium (Cr)-Dissolved	0.00022	<T	0.00010	mg/L		16-APR-20	R5057513
Cobalt (Co)-Dissolved	0.000136	<T	0.00010	mg/L		16-APR-20	R5057513
Copper (Cu)-Dissolved	0.00086	<T	0.00020	mg/L		16-APR-20	R5057513
Iron (Fe)-Dissolved	0.135		0.010	mg/L		16-APR-20	R5057513
Lead (Pb)-Dissolved	0.000060	<T	0.000050	mg/L		16-APR-20	R5057513
Lithium (Li)-Dissolved	0.00240	<T	0.0010	mg/L		16-APR-20	R5057513
Magnesium (Mg)-Dissolved	7.46		0.0050	mg/L		16-APR-20	R5057513
Manganese (Mn)-Dissolved	0.0213		0.00010	mg/L		16-APR-20	R5057513
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		14-APR-20	R5056605
Molybdenum (Mo)-Dissolved	0.000330	<T	0.000050	mg/L		16-APR-20	R5057513
Nickel (Ni)-Dissolved	0.00090	<T	0.00050	mg/L		16-APR-20	R5057513
Phosphorus (P)-Dissolved	0.016	<DL	0.050	mg/L		16-APR-20	R5057513
Potassium (K)-Dissolved	1.30		0.050	mg/L		16-APR-20	R5057513
Rubidium (Rb)-Dissolved	0.00114		0.00020	mg/L		16-APR-20	R5057513
Selenium (Se)-Dissolved	0.000150		0.000050	mg/L		16-APR-20	R5057513
Silicon (Si)-Dissolved	3.23		0.050	mg/L		16-APR-20	R5057513
Silver (Ag)-Dissolved	0.000002	<DL	0.000010	mg/L		16-APR-20	R5057513
Sodium (Na)-Dissolved	3.55		0.050	mg/L		16-APR-20	R5057513
Strontium (Sr)-Dissolved	0.0377		0.00010	mg/L		16-APR-20	R5057513
Sulfur (S)-Dissolved	1.3		0.50	mg/L		16-APR-20	R5057513
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		16-APR-20	R5057513
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		16-APR-20	R5057513
Thorium (Th)-Dissolved	0.00006	<DL	0.00010	mg/L		16-APR-20	R5057513
Tin (Sn)-Dissolved	0.00015		0.00010	mg/L		16-APR-20	R5057513
Titanium (Ti)-Dissolved	0.00298		0.00030	mg/L		16-APR-20	R5057513
Tungsten (W)-Dissolved	0.000004	<DL	0.00010	mg/L		16-APR-20	R5057513
Uranium (U)-Dissolved	0.000220	<T	0.000010	mg/L		16-APR-20	R5057513
Vanadium (V)-Dissolved	0.00062	<T	0.00050	mg/L		16-APR-20	R5057513
Zinc (Zn)-Dissolved	0.0022	<T	0.0010	mg/L		16-APR-20	R5057513
Zirconium (Zr)-Dissolved	0.000426		0.000060	mg/L		16-APR-20	R5057513

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-14 SW20 Sampled By: NB, GC on 08-APR-20 @ 10:00 Matrix: Water							
Dissolved Metals							
Aggregate Organics							
Biochemical Oxygen Demand	<2.0	BODF	2.0	mg/L		19-APR-20	R5062796
COD	76		10	mg/L		20-APR-20	R5058625
Oil and Grease, Total	1.2		1.0	mg/L	15-APR-20	15-APR-20	R5057111
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		22-APR-20	R5065722
L2436089-15 SW02 Sampled By: NB, GC on 08-APR-20 @ 09:00 Matrix: Water							
Field Tests							
pH, Client Supplied	6.58		0.10	pH		13-APR-20	R5056021
Temperature, Client Supplied	1.27		0	Degree C		13-APR-20	R5056021
Physical Tests							
Color, True	89.2		2.0	CU		13-APR-20	R5055985
Conductivity (EC)	97.6		1.0	uS/cm		13-APR-20	R5055940
Hardness (as CaCO3)	55.8		0.50	mg/L		21-APR-20	
pH	7.21		0.10	pH		13-APR-20	R5056271
Total Suspended Solids	3.0		2.0	mg/L		14-APR-20	R5056803
Total Dissolved Solids	80		13	mg/L		13-APR-20	R5056364
Turbidity	3.34		0.10	NTU		14-APR-20	R5056329
Anions and Nutrients							
Acidity (as CaCO3)	2.4		2.0	mg/L		15-APR-20	R5056949
Alkalinity, Total (as CaCO3)	52.6		2.0	mg/L		13-APR-20	R5056271
Ammonia, Total (as N)	0.025	<T	0.020	mg/L		16-APR-20	R5057374
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		17-APR-20	
Chloride (Cl)	0.37		0.10	mg/L		13-APR-20	R5056231
Fluoride (F)	0.023		0.020	mg/L		13-APR-20	R5056231
Nitrate (as N)	0.020	<T	0.020	mg/L		13-APR-20	R5056231
Nitrite (as N)	<0.001	<W	0.010	mg/L		13-APR-20	R5056231
Orthophosphate-Dissolved (as P)	<0.0030	PEHT	0.0030	mg/L		15-APR-20	R5056878
Sulfate (SO4)	0.65	<T	0.30	mg/L		13-APR-20	R5056231
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Total	0.0002	<DL	0.0020	mg/L		14-APR-20	R5056752
Cyanide, Free	0.0006	<DL	0.0020	mg/L		14-APR-20	R5056752
Organic / Inorganic Carbon							
Dissolved Organic Carbon	14.1		0.50	mg/L		21-APR-20	R5059858
Total Organic Carbon	14.4		0.50	mg/L		15-APR-20	R5057467
Total Metals							
Aluminum (Al)-Total	0.282		0.0030	mg/L		17-APR-20	R5058646
Antimony (Sb)-Total	<0.00002	<W	0.00010	mg/L		17-APR-20	R5058646
Arsenic (As)-Total	0.00041	<T	0.00010	mg/L		17-APR-20	R5058646
Barium (Ba)-Total	0.00821		0.00010	mg/L		17-APR-20	R5058646

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2436089-17 TRAVEL BLANK - SURFACE WATER Sampled By: NB, GC on 08-APR-20 @ 12:00 Matrix: Water							
Dissolved Metals							
Silver (Ag)-Dissolved	<0.000001	<W	0.000010	mg/L		16-APR-20	R5057513
Sodium (Na)-Dissolved	<0.005	<W	0.050	mg/L		16-APR-20	R5057513
Strontium (Sr)-Dissolved	<0.00001	<W	0.00010	mg/L		16-APR-20	R5057513
Sulfur (S)-Dissolved	<0.1	<W	0.50	mg/L		16-APR-20	R5057513
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		16-APR-20	R5057513
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		16-APR-20	R5057513
Thorium (Th)-Dissolved	<0.00002	<W	0.00010	mg/L		16-APR-20	R5057513
Tin (Sn)-Dissolved	0.00006	<DL	0.00010	mg/L		16-APR-20	R5057513
Titanium (Ti)-Dissolved	<0.00002	<W	0.00030	mg/L		16-APR-20	R5057513
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		16-APR-20	R5057513
Uranium (U)-Dissolved	0.0000004	<DL	0.000010	mg/L		16-APR-20	R5057513
Vanadium (V)-Dissolved	0.00004	<DL	0.00050	mg/L		16-APR-20	R5057513
Zinc (Zn)-Dissolved	0.0002	<DL	0.0010	mg/L		16-APR-20	R5057513
Zirconium (Zr)-Dissolved	<0.000002	<W	0.000060	mg/L		16-APR-20	R5057513
Aggregate Organics							
Biochemical Oxygen Demand	<2.0	BODF	2.0	mg/L		19-APR-20	R5062796
COD	<10		10	mg/L		20-APR-20	R5058625
Oil and Grease, Total	1.6		1.0	mg/L	15-APR-20	15-APR-20	R5057111

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Method Blank	Silicon (Si)-Dissolved	B	L2436089-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9
Method Blank	Sodium (Na)-Dissolved	B	L2436089-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9
Method Blank	Cadmium (Cd)-Total	B	L2436089-1, -10, -11, -12, -13, -14, -15, -17, -2, -3, -4, -5, -6, -7, -8, -9
Method Blank	Manganese (Mn)-Total	B	L2436089-16
Laboratory Control Sample	Magnesium (Mg)-Total	MES	L2436089-16
Matrix Spike	Total Organic Carbon	MS-B	L2436089-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2436089-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2436089-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L2436089-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2436089-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2436089-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Aluminum (Al)-Total	MS-B	L2436089-1, -10, -11, -12, -13, -14, -15, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Total	MS-B	L2436089-1, -10, -11, -12, -13, -14, -15, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Total	MS-B	L2436089-16
Matrix Spike	Boron (B)-Total	MS-B	L2436089-16
Matrix Spike	Calcium (Ca)-Total	MS-B	L2436089-1, -10, -11, -12, -13, -14, -15, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Total	MS-B	L2436089-16
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2436089-1, -10, -11, -12, -13, -14, -15, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2436089-16
Matrix Spike	Molybdenum (Mo)-Total	MS-B	L2436089-1, -10, -11, -12, -13, -14, -15, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Potassium (K)-Total	MS-B	L2436089-1, -10, -11, -12, -13, -14, -15, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Potassium (K)-Total	MS-B	L2436089-16
Matrix Spike	Sodium (Na)-Total	MS-B	L2436089-1, -10, -11, -12, -13, -14, -15, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Total	MS-B	L2436089-16
Matrix Spike	Strontium (Sr)-Total	MS-B	L2436089-1, -10, -11, -12, -13, -14, -15, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Total	MS-B	L2436089-16
Matrix Spike	Sulfur (S)-Total	MS-B	L2436089-1, -10, -11, -12, -13, -14, -15, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfur (S)-Total	MS-B	L2436089-16
Matrix Spike	Uranium (U)-Total	MS-B	L2436089-16
Matrix Spike	Orthophosphate-Dissolved (as P)	MS-B	L2436089-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9

Sample Parameter Qualifier key listed:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
BODF	BOD analyzed from frozen (preserved) sample. Hold time for unpreserved samples was exceeded, but freezing extends hold time to at least 1 month [ISO 5667-3 (2012)].
BODQ	BOD Qualification: Lab Control Sample outside standard 85-115% objective (see QC report). Sample(s) cannot be rerun due to hold time expiry.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME). Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Reference Information

MS-B
 PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis
 RRV Reported Result Verified By Repeat Analysis

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-MISA-TB	Effluent	Acidity (as CaCO ₃)	APHA 2310 B-POTENTIOMETRIC TITRATION
Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample.			
ALK-MISA-TB	Effluent	Alkalinity, Total (as CaCO ₃)	APHA 2320 B-Auto-Pot. Titration
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
BOD-TB	Water	Biochemical Oxygen Demand (BOD)	APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND
All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation.			
C-TOC-HTC-WP	Water	Total Organic Carbon by Combustion	APHA 5310 B-WP
Sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon is oxidized to CO ₂ which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.			
CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
CN-FREE-MISA-CFA-WT	Effluent	Free Cyanide by Continuous Flow Analyzer	ASTM D7237-10 (modified)
This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis.			
CN-T-MISA-CFA-WT	Effluent	Total Cyanide by CFA	ISO 14403-2:2012 (modified)
This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis. Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.			
CN-WAD-MISA-CFA-WT	Effluent	Weak Acid Dissociable Cyanide by CFA	APHA 4500-CN CYANIDE (modified)
This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.			
COD-T-WT	Water	Chemical Oxygen Demand	APHA 5220 D
This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.			
COLOUR-TB	Water	Colour, True	APHA 2120 C
True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard.			
DOC-MISA-WP	Effluent	Diss Organic Carbon by Combustion (MISA)	APHA 5310 B-WP
Filtered (0.45 um) sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon is oxidized to CO ₂ which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.			
EC-MISA-TB	Effluent	Conductivity (EC)	APHA 2510 B-ELECTRODE
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
HARDNESS-CALC-TB	Effluent	Hardness (as CaCO ₃)	CALCULATION
HG-DIS-WT	Effluent	Mercury (Hg)-Dissolved for MISA	SW846 7470A

Reference Information

HG-TOT-WT	Effluent	Mercury (Hg)-Total for MISA	SW846 7470A
MET-D-MISA-WP	Effluent	Diss. Metals in Water by CRC ICPMS(MISA)	APHA 3030B/6020A (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-MISA-WP	Effluent	Total Metals in Water by CRC ICPMS (MISA)	EPA 200.2/6020A (mod.)
---------------	----------	---	------------------------

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-UNION-CALC-TB	Effluent	Un-ionized ammonia	Calculation
-------------------	----------	--------------------	-------------

NH3-WT	Effluent	Ammonia, Total as N	EPA 350.1
--------	----------	---------------------	-----------

This analysis is carried out using procedures adapted from EPA 350.1 "Ammonia Nitrogen". Ammonia is determined colourimetrically. When sample is turbid a distillation step is required, sample is distilled into a solution of boric acid and measured colorimetrically.

NO2-MISA-IC-TB	Effluent	Nitrite in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

NO3-MISA-IC-TB	Effluent	Nitrate in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

OGG-TOT-WT	Effluent	Oil and Grease, Total for MISA	APHA 5520 B-Hexane Gravimetric
------------	----------	--------------------------------	--------------------------------

PH-CLIENT-TB	Water	pH	Result supplied by Client
--------------	-------	----	---------------------------

PH-MISA-TB	Effluent	pH	APHA 4500-H-ELECTRODE
------------	----------	----	-----------------------

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

PO4-DO-COL-WT	Water	Diss. Orthophosphate in Water by Colour	APHA 4500-P PHOSPHORUS
---------------	-------	---	------------------------

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Dissolved Orthophosphate is determined colourimetrically on a sample that has been lab or field filtered through a 0.45 micron membrane filter.

RA226-MMER-BE	Water	Radium 226	Radium Isotopes by Alpha Spectrometry
---------------	-------	------------	---------------------------------------

Determination of Gamma Emitting Radionuclides In Water and Solids by Gamma Spectrometry.

SO4-MISA-IC-TB	Effluent	Sulfate in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

TDS-MISA-TB	Effluent	Total Dissolved Solids	APHA 2540 C (modified)
-------------	----------	------------------------	------------------------

Aqueous matrices are analyzed using gravimetry and evaporation

TEMP-CLIENT-TB	Water	Temperature	Result supplied by Client
----------------	-------	-------------	---------------------------

TSS-MISA-TB	Effluent	Total Suspended Solids	APHA 2540 D (modified)
-------------	----------	------------------------	------------------------

Aqueous matrices are analyzed using gravimetry

TURBIDITY-TB	Water	Turbidity	APHA 2130 B-Nephelometer
--------------	-------	-----------	--------------------------

Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle.

Reference Information

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA
BE	BECQUEREL LABORATORIES INC. - MISSISSAUGA, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Page 1 of 28

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BOD-TB								
Water								
Batch	R5057456							
WG3306541-6	LCS							
Biochemical Oxygen Demand			94.4		%		85-115	11-APR-20
WG3306541-5	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	11-APR-20
Batch	R5062796							
WG3306711-3	DUP	L2436083-2						
Biochemical Oxygen Demand		36	38		mg/L	4.4	20	19-APR-20
WG3306711-2	LCS							
Biochemical Oxygen Demand			94.7		%		85-115	19-APR-20
WG3306711-6	LCS							
Biochemical Oxygen Demand			91.0		%		85-115	19-APR-20
WG3306711-1	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	19-APR-20
WG3306711-5	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	19-APR-20
C-TOC-HTC-WP								
Water								
Batch	R5057467							
WG3308737-3	DUP	L2435883-1						
Total Organic Carbon		0.55	<0.50	RPD-NA	mg/L	N/A	20	15-APR-20
WG3308737-2	LCS							
Total Organic Carbon			92.8		%		80-120	15-APR-20
WG3308737-1	MB							
Total Organic Carbon			<0.50		mg/L		0.5	15-APR-20
WG3308737-4	MS	L2436089-1						
Total Organic Carbon			N/A	MS-B	%		-	15-APR-20
Batch	R5058983							
WG3310733-3	DUP	L2436798-1						
Total Organic Carbon		8.93	8.69		mg/L	2.7	20	16-APR-20
WG3310733-2	LCS							
Total Organic Carbon			93.4		%		80-120	16-APR-20
WG3310733-1	MB							
Total Organic Carbon			<0.50		mg/L		0.5	16-APR-20
WG3310733-4	MS	L2436798-2						
Total Organic Carbon			103.6		%		70-130	16-APR-20
CL-L-IC-N-TB								
Water								

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Page 2 of 28

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-L-IC-N-TB								
	Water							
Batch	R5056231							
WG3306879-3	DUP	L2436089-2						
Chloride (Cl)		3.90	3.57		mg/L	8.9	20	13-APR-20
WG3306879-2	LCS							
Chloride (Cl)			100.0		%		90-110	13-APR-20
WG3306879-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	13-APR-20
WG3306879-4	MS	L2436089-1						
Chloride (Cl)			101.1		%		75-125	13-APR-20
COD-T-WT								
	Water							
Batch	R5058625							
WG3309998-3	DUP	L2437785-6						
COD		21	20		mg/L	3.9	20	20-APR-20
WG3309998-2	LCS							
COD			107.1		%		85-115	20-APR-20
WG3309998-1	MB							
COD			<10		mg/L		10	20-APR-20
WG3309998-4	MS	L2437785-6						
COD			103.8		%		75-125	20-APR-20
COLOUR-TB								
	Water							
Batch	R5055985							
WG3306977-3	DUP	L2436089-1						
Color, True		85.3	86.7		CU	1.7	20	13-APR-20
WG3306977-2	LCS							
Color, True			101.7		%		85-115	13-APR-20
WG3306977-1	MB							
Color, True			<2.0		CU		2	13-APR-20
F-IC-N-TB								
	Water							
Batch	R5056231							
WG3306879-3	DUP	L2436089-2						
Fluoride (F)		0.035	0.034		mg/L	2.3	20	13-APR-20
WG3306879-2	LCS							
Fluoride (F)			101.4		%		90-110	13-APR-20
WG3306879-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	13-APR-20
WG3306879-4	MS	L2436089-1						
Fluoride (F)			106.2		%		75-125	13-APR-20

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Page 3 of 28

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F-IC-N-TB								
	Water							
Batch	R5057676							
WG3308584-2	LCS							
Fluoride (F)			99.7		%		90-110	16-APR-20
WG3308584-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	16-APR-20
PO4-DO-COL-WT								
	Water							
Batch	R5056878							
WG3308049-3	DUP	L2435903-1						
Orthophosphate-Dissolved (as P)		0.0210	0.0216		mg/L	3.1	20	15-APR-20
WG3308049-7	DUP	L2436366-1						
Orthophosphate-Dissolved (as P)		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	15-APR-20
WG3308049-2	LCS							
Orthophosphate-Dissolved (as P)			108.1		%		80-120	15-APR-20
WG3308049-6	LCS							
Orthophosphate-Dissolved (as P)			98.0		%		80-120	15-APR-20
WG3308049-1	MB							
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	15-APR-20
WG3308049-5	MB							
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	15-APR-20
WG3308049-4	MS	L2435903-1						
Orthophosphate-Dissolved (as P)			N/A	MS-B	%		-	15-APR-20
WG3308049-8	MS	L2436366-1						
Orthophosphate-Dissolved (as P)			89.7		%		70-130	15-APR-20
TURBIDITY-TB								
	Water							
Batch	R5056329							
WG3307342-3	DUP	L2436089-11						
Turbidity		6.41	6.59		NTU	2.8	15	14-APR-20
WG3307342-2	LCS							
Turbidity			111.0		%		85-115	14-APR-20
WG3307342-1	MB							
Turbidity			<0.10		NTU		0.1	14-APR-20
ACY-MISA-TB								
	Effluent							
Batch	R5056949							
WG3308055-6	DUP	L2436089-11						
Acidity (as CaCO3)		1.8	1.6	RPD-NA	mg/L	N/A	20	15-APR-20
WG3308055-2	LCS							
Acidity (as CaCO3)			94.1		%		85-115	15-APR-20
WG3308055-5	LCS							

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Page 4 of 28

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-MISA-TB		Effluent						
Batch	R5056949							
WG3308055-5	LCS							
Acidity (as CaCO3)			91.7		%		85-115	15-APR-20
WG3308055-1	MB							
Acidity (as CaCO3)			1.0		mg/L		4	15-APR-20
WG3308055-4	MB							
Acidity (as CaCO3)			1.2		mg/L		4	15-APR-20
ALK-MISA-TB		Effluent						
Batch	R5056271							
WG3306937-3	DUP	L2436089-5						
Alkalinity, Total (as CaCO3)		115	114		mg/L	0.8	20	13-APR-20
Alkalinity, Phenolphthalein		<0.2	<0.2	RPD-NA	mg/L	N/A	25	13-APR-20
WG3306937-2	LCS							
Alkalinity, Total (as CaCO3)			106.2		%		85-115	13-APR-20
WG3306937-1	MB							
Alkalinity, Total (as CaCO3)			0.4		mg/L		2	13-APR-20
Alkalinity, Phenolphthalein			<0.2		mg/L		2	13-APR-20
CN-FREE-MISA-CFA-WT		Effluent						
Batch	R5056752							
WG3307636-3	DUP	L2435670-1						
Cyanide, Free		0.0021	0.0022		mg/L	6.1	20	14-APR-20
WG3307636-7	DUP	L2436126-1						
Cyanide, Free		0.0129	0.0080	RPD-NA	mg/L	N/A	20	14-APR-20
WG3307636-2	LCS							
Cyanide, Free			97.0		%		80-120	14-APR-20
WG3307636-6	LCS							
Cyanide, Free			97.2		%		80-120	14-APR-20
WG3307636-1	MB							
Cyanide, Free			<0.0001		mg/L		0.002	14-APR-20
WG3307636-5	MB							
Cyanide, Free			<0.0001		mg/L		0.002	14-APR-20
WG3307636-4	MS	L2435670-1						
Cyanide, Free			94.4		%		75-125	14-APR-20
WG3307636-8	MS	L2436126-1						
Cyanide, Free			89.2		%		75-125	14-APR-20
CN-T-MISA-CFA-WT		Effluent						

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Page 5 of 28

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CN-T-MISA-CFA-WT		Effluent						
Batch	R5056752							
WG3307636-3	DUP	L2435670-1						
Cyanide, Total		0.0044	0.0046		mg/L	4.5	20	14-APR-20
WG3307636-7	DUP	L2436126-1						
Cyanide, Total		0.0064	0.0062	RPD-NA	mg/L	N/A	20	14-APR-20
WG3307636-2	LCS							
Cyanide, Total			87.0		%		80-120	14-APR-20
WG3307636-6	LCS							
Cyanide, Total			85.0		%		80-120	14-APR-20
WG3307636-1	MB							
Cyanide, Total			<0.0002		mg/L		0.002	14-APR-20
WG3307636-5	MB							
Cyanide, Total			<0.0002		mg/L		0.002	14-APR-20
WG3307636-4	MS	L2435670-1						
Cyanide, Total			83.6		%		75-125	14-APR-20
WG3307636-8	MS	L2436126-1						
Cyanide, Total			82.8		%		75-125	14-APR-20
CN-WAD-MISA-CFA-WT		Effluent						
Batch	R5056752							
WG3307636-7	DUP	L2436126-1						
Cyanide, Weak Acid Diss		<0.0001	<0.0001	RPD-NA	mg/L	N/A	20	14-APR-20
WG3307636-2	LCS							
Cyanide, Weak Acid Diss			94.1		%		80-120	14-APR-20
WG3307636-6	LCS							
Cyanide, Weak Acid Diss			89.8		%		80-120	14-APR-20
WG3307636-1	MB							
Cyanide, Weak Acid Diss			<0.0001		mg/L		0.002	14-APR-20
WG3307636-5	MB							
Cyanide, Weak Acid Diss			<0.0001		mg/L		0.002	14-APR-20
WG3307636-8	MS	L2436126-1						
Cyanide, Weak Acid Diss			91.6		%		75-125	14-APR-20
DOC-MISA-WP		Effluent						
Batch	R5058985							
WG3310722-2	LCS							
Dissolved Organic Carbon			93.1		%		80-120	16-APR-20
WG3310722-1	MB							
Dissolved Organic Carbon			0.10		mg/L		0.5	16-APR-20

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Page 6 of 28

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DOC-MISA-WP		Effluent						
Batch R5059858								
WG3311413-3	DUP	L2436089-16						
	Dissolved Organic Carbon	0.20	0.10	RPD-NA	mg/L	N/A	20	21-APR-20
WG3311413-2	LCS							
	Dissolved Organic Carbon		95.0		%		80-120	21-APR-20
WG3311413-1	MB							
	Dissolved Organic Carbon		0.05		mg/L		0.5	21-APR-20
WG3311413-4	MS	L2436089-17						
	Dissolved Organic Carbon		90.2		%		70-130	21-APR-20
Batch R5061360								
WG3312136-2	LCS							
	Dissolved Organic Carbon		104.1		%		80-120	22-APR-20
WG3312136-1	MB							
	Dissolved Organic Carbon		<0.05		mg/L		0.5	22-APR-20
EC-MISA-TB		Effluent						
Batch R5055940								
WG3306946-3	DUP	L2436089-1						
	Conductivity (EC)	174	176		uS/cm	1.4	10	13-APR-20
WG3306946-2	LCS							
	Conductivity (EC)		99.8		%		90-110	13-APR-20
WG3306946-1	MB							
	Conductivity (EC)		0.6		uS/cm		2	13-APR-20
HG-DIS-WT		Effluent						
Batch R5056605								
WG3307702-3	DUP	L2436089-1						
	Mercury (Hg)-Dissolved	<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	14-APR-20
WG3307702-2	LCS							
	Mercury (Hg)-Dissolved		103.0		%		80-120	14-APR-20
WG3307702-1	MB							
	Mercury (Hg)-Dissolved		<0.000005		mg/L		0.00003	14-APR-20
WG3307702-4	MS	L2436089-2						
	Mercury (Hg)-Dissolved		104.3		%		70-130	14-APR-20
HG-TOT-WT		Effluent						
Batch R5056604								
WG3307700-3	DUP	L2435670-1						
	Mercury (Hg)-Total	<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	14-APR-20
WG3307700-2	LCS							
	Mercury (Hg)-Total		104.0		%		80-120	14-APR-20

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Page 7 of 28

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-TOT-WT		Effluent						
Batch R5056604								
WG3307700-1 MB								
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	14-APR-20
WG3307700-4 MS		L2435670-2						
Mercury (Hg)-Total			102.0		%		70-130	14-APR-20
Batch R5057096								
WG3307780-3 DUP		L2436089-17						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	15-APR-20
WG3307780-2 LCS								
Mercury (Hg)-Total			102.0		%		80-120	15-APR-20
WG3307780-1 MB								
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	15-APR-20
WG3307780-4 MS		L2436102-1						
Mercury (Hg)-Total			99.9		%		70-130	15-APR-20
MET-D-MISA-WP		Effluent						
Batch R5057513								
WG3308533-4 DUP		WG3308533-3						
Aluminum (Al)-Dissolved		0.0222	0.0230		mg/L	3.6	20	16-APR-20
Antimony (Sb)-Dissolved		0.000100	0.000090	RPD-NA	mg/L	N/A	20	16-APR-20
Arsenic (As)-Dissolved		0.000550	0.000600		mg/L	8.5	20	16-APR-20
Barium (Ba)-Dissolved		0.0141	0.0141		mg/L	0.7	20	16-APR-20
Beryllium (Be)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	16-APR-20
Bismuth (Bi)-Dissolved		<0.000001	<0.000001	RPD-NA	mg/L	N/A	20	16-APR-20
Boron (B)-Dissolved		0.0120	0.0120		mg/L	1.2	20	16-APR-20
Cadmium (Cd)-Dissolved		0.0000042	0.0000090	RPD-NA	mg/L	N/A	20	16-APR-20
Calcium (Ca)-Dissolved		21.4	20.9		mg/L	2.0	20	16-APR-20
Cesium (Cs)-Dissolved		0.000001	0.000002	RPD-NA	mg/L	N/A	20	16-APR-20
Chromium (Cr)-Dissolved		0.00016	0.00014		mg/L	12	20	16-APR-20
Cobalt (Co)-Dissolved		0.000170	0.000169		mg/L	0.4	20	16-APR-20
Copper (Cu)-Dissolved		0.00108	0.00108		mg/L	0.2	20	16-APR-20
Iron (Fe)-Dissolved		0.125	0.129		mg/L	3.3	20	16-APR-20
Lead (Pb)-Dissolved		0.000045	0.000040	RPD-NA	mg/L	N/A	20	16-APR-20
Lithium (Li)-Dissolved		0.00306	0.00300		mg/L	2.2	20	16-APR-20
Magnesium (Mg)-Dissolved		10.4	10.5		mg/L	0.2	20	16-APR-20
Manganese (Mn)-Dissolved		0.0369	0.0372		mg/L	0.8	20	16-APR-20
Molybdenum (Mo)-Dissolved		0.000490	0.000460		mg/L	6.0	20	16-APR-20

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Page 8 of 28

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-WP		Effluent						
Batch	R5057513							
WG3308533-4	DUP	WG3308533-3						
Nickel (Ni)-Dissolved		0.00100	0.00098		mg/L	2.7	20	16-APR-20
Phosphorus (P)-Dissolved		0.024	0.030	RPD-NA	mg/L	N/A	20	16-APR-20
Potassium (K)-Dissolved		1.85	1.83		mg/L	0.7	20	16-APR-20
Rubidium (Rb)-Dissolved		0.00162	0.00157		mg/L	2.9	20	16-APR-20
Selenium (Se)-Dissolved		0.000140	0.000145		mg/L	1.5	20	16-APR-20
Silicon (Si)-Dissolved		3.34	3.50		mg/L	4.7	20	16-APR-20
Silver (Ag)-Dissolved		0.000002	0.000001	RPD-NA	mg/L	N/A	20	16-APR-20
Sodium (Na)-Dissolved		3.51	3.43		mg/L	2.3	20	16-APR-20
Strontium (Sr)-Dissolved		0.0503	0.0491		mg/L	2.4	20	16-APR-20
Sulfur (S)-Dissolved		2.0	2.0		mg/L	1.5	20	16-APR-20
Tellurium (Te)-Dissolved		0.000010	<0.000005	RPD-NA	mg/L	N/A	20	16-APR-20
Thallium (Tl)-Dissolved		<0.000001	0.000001	RPD-NA	mg/L	N/A	20	16-APR-20
Thorium (Th)-Dissolved		0.00004	0.00004	RPD-NA	mg/L	N/A	20	16-APR-20
Tin (Sn)-Dissolved		0.00005	0.00004	RPD-NA	mg/L	N/A	20	16-APR-20
Titanium (Ti)-Dissolved		0.00144	0.00148		mg/L	2.9	20	16-APR-20
Tungsten (W)-Dissolved		0.000006	0.000010	RPD-NA	mg/L	N/A	20	16-APR-20
Uranium (U)-Dissolved		0.000475	0.000454		mg/L	4.5	20	16-APR-20
Vanadium (V)-Dissolved		0.00064	0.00066		mg/L	5.2	20	16-APR-20
Zinc (Zn)-Dissolved		0.0014	0.0012		mg/L	9.0	20	16-APR-20
Zirconium (Zr)-Dissolved		0.000314	0.000316		mg/L	0.5	20	16-APR-20
WG3308533-2	LCS							
Aluminum (Al)-Dissolved			103.3		%		80-120	16-APR-20
Antimony (Sb)-Dissolved			98.7		%		80-120	16-APR-20
Arsenic (As)-Dissolved			105.8		%		80-120	16-APR-20
Barium (Ba)-Dissolved			105.0		%		80-120	16-APR-20
Beryllium (Be)-Dissolved			100.5		%		80-120	16-APR-20
Bismuth (Bi)-Dissolved			99.0		%		80-120	16-APR-20
Boron (B)-Dissolved			96.6		%		80-120	16-APR-20
Cadmium (Cd)-Dissolved			104.2		%		80-120	16-APR-20
Calcium (Ca)-Dissolved			98.5		%		80-120	16-APR-20
Cesium (Cs)-Dissolved			104.9		%		80-120	16-APR-20
Chromium (Cr)-Dissolved			102.1		%		80-120	16-APR-20
Cobalt (Co)-Dissolved			103.6		%		80-120	16-APR-20

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Page 9 of 28

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-WP		Effluent						
Batch	R5057513							
WG3308533-2	LCS							
Copper (Cu)-Dissolved			104.4		%		80-120	16-APR-20
Iron (Fe)-Dissolved			99.2		%		80-120	16-APR-20
Lead (Pb)-Dissolved			97.6		%		80-120	16-APR-20
Lithium (Li)-Dissolved			97.4		%		80-120	16-APR-20
Magnesium (Mg)-Dissolved			113.4		%		80-120	16-APR-20
Manganese (Mn)-Dissolved			102.0		%		80-120	16-APR-20
Molybdenum (Mo)-Dissolved			100.1		%		80-120	16-APR-20
Nickel (Ni)-Dissolved			102.1		%		80-120	16-APR-20
Phosphorus (P)-Dissolved			104.2		%		80-120	16-APR-20
Potassium (K)-Dissolved			96.8		%		80-120	16-APR-20
Rubidium (Rb)-Dissolved			101.7		%		80-120	16-APR-20
Selenium (Se)-Dissolved			104.2		%		80-120	16-APR-20
Silicon (Si)-Dissolved			103.0		%		80-120	16-APR-20
Silver (Ag)-Dissolved			99.3		%		80-120	16-APR-20
Sodium (Na)-Dissolved			105.0		%		80-120	16-APR-20
Strontium (Sr)-Dissolved			102.9		%		80-120	16-APR-20
Sulfur (S)-Dissolved			104.0		%		80-120	16-APR-20
Tellurium (Te)-Dissolved			100.5		%		80-120	16-APR-20
Thallium (Tl)-Dissolved			98.0		%		80-120	16-APR-20
Thorium (Th)-Dissolved			100.3		%		80-120	16-APR-20
Tin (Sn)-Dissolved			98.4		%		80-120	16-APR-20
Titanium (Ti)-Dissolved			101.2		%		80-120	16-APR-20
Tungsten (W)-Dissolved			99.4		%		80-120	16-APR-20
Uranium (U)-Dissolved			103.7		%		80-120	16-APR-20
Vanadium (V)-Dissolved			103.6		%		80-120	16-APR-20
Zinc (Zn)-Dissolved			103.5		%		80-120	16-APR-20
Zirconium (Zr)-Dissolved			96.5		%		80-120	16-APR-20
WG3308533-1	MB							
Aluminum (Al)-Dissolved			<0.0002		mg/L		0.001	16-APR-20
Antimony (Sb)-Dissolved			0.000005		mg/L		0.0001	16-APR-20
Arsenic (As)-Dissolved			<0.000005		mg/L		0.0001	16-APR-20
Barium (Ba)-Dissolved			0.000005		mg/L		0.0001	16-APR-20
Beryllium (Be)-Dissolved			<0.000002		mg/L		0.0001	16-APR-20
Bismuth (Bi)-Dissolved			<0.000001		mg/L		0.00005	16-APR-20

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Page 10 of 28

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-WP		Effluent						
Batch	R5057513							
WG3308533-1	MB							
Boron (B)-Dissolved			0.0010		mg/L		0.01	16-APR-20
Cadmium (Cd)-Dissolved			<0.000000E		mg/L		0.000005	16-APR-20
Calcium (Ca)-Dissolved			<0.002		mg/L		0.05	16-APR-20
Cesium (Cs)-Dissolved			<0.000001		mg/L		0.00001	16-APR-20
Chromium (Cr)-Dissolved			<0.00002		mg/L		0.0001	16-APR-20
Cobalt (Co)-Dissolved			0.000001		mg/L		0.0001	16-APR-20
Copper (Cu)-Dissolved			0.00002		mg/L		0.0002	16-APR-20
Iron (Fe)-Dissolved			<0.0002		mg/L		0.01	16-APR-20
Lead (Pb)-Dissolved			<0.000005		mg/L		0.00005	16-APR-20
Lithium (Li)-Dissolved			<0.00002		mg/L		0.001	16-APR-20
Magnesium (Mg)-Dissolved			<0.0005		mg/L		0.005	16-APR-20
Manganese (Mn)-Dissolved			<0.00002		mg/L		0.0001	16-APR-20
Molybdenum (Mo)-Dissolved			0.000002		mg/L		0.00005	16-APR-20
Nickel (Ni)-Dissolved			0.00004		mg/L		0.0005	16-APR-20
Phosphorus (P)-Dissolved			<0.002		mg/L		0.05	16-APR-20
Potassium (K)-Dissolved			0.010		mg/L		0.05	16-APR-20
Rubidium (Rb)-Dissolved			0.000004		mg/L		0.0002	16-APR-20
Selenium (Se)-Dissolved			<0.000005		mg/L		0.00005	16-APR-20
Silicon (Si)-Dissolved			0.065	B	mg/L		0.05	16-APR-20
Silver (Ag)-Dissolved			<0.000001		mg/L		0.00001	16-APR-20
Sodium (Na)-Dissolved			0.050	B	mg/L		0.05	16-APR-20
Strontium (Sr)-Dissolved			<0.00001		mg/L		0.0001	16-APR-20
Sulfur (S)-Dissolved			<0.1		mg/L		0.5	16-APR-20
Tellurium (Te)-Dissolved			<0.000005		mg/L		0.0002	16-APR-20
Thallium (Tl)-Dissolved			<0.000001		mg/L		0.00001	16-APR-20
Thorium (Th)-Dissolved			<0.00002		mg/L		0.0001	16-APR-20
Tin (Sn)-Dissolved			<0.00001		mg/L		0.0001	16-APR-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.0003	16-APR-20
Tungsten (W)-Dissolved			<0.000002		mg/L		0.0001	16-APR-20
Uranium (U)-Dissolved			<0.0000002		mg/L		0.00001	16-APR-20
Vanadium (V)-Dissolved			<0.00002		mg/L		0.0005	16-APR-20
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.001	16-APR-20
Zirconium (Zr)-Dissolved			<0.000002		mg/L		0.00006	16-APR-20

WG3308533-5 MS

WG3308533-3

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Page 11 of 28

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-WP								
	Effluent							
Batch	R5057513							
WG3308533-5	MS	WG3308533-3						
Aluminum (Al)-Dissolved			110.1		%		70-130	16-APR-20
Antimony (Sb)-Dissolved			107.8		%		70-130	16-APR-20
Arsenic (As)-Dissolved			117.4		%		70-130	16-APR-20
Barium (Ba)-Dissolved			113.0		%		70-130	16-APR-20
Beryllium (Be)-Dissolved			108.2		%		70-130	16-APR-20
Bismuth (Bi)-Dissolved			103.6		%		70-130	16-APR-20
Boron (B)-Dissolved			104.7		%		70-130	16-APR-20
Cadmium (Cd)-Dissolved			113.7		%		70-130	16-APR-20
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	16-APR-20
Cesium (Cs)-Dissolved			112.6		%		70-130	16-APR-20
Chromium (Cr)-Dissolved			110.9		%		70-130	16-APR-20
Cobalt (Co)-Dissolved			112.2		%		70-130	16-APR-20
Copper (Cu)-Dissolved			112.7		%		70-130	16-APR-20
Iron (Fe)-Dissolved			113.0		%		70-130	16-APR-20
Lead (Pb)-Dissolved			104.4		%		70-130	16-APR-20
Lithium (Li)-Dissolved			108.6		%		70-130	16-APR-20
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	16-APR-20
Manganese (Mn)-Dissolved			N/A	MS-B	%		-	16-APR-20
Molybdenum (Mo)-Dissolved			106.9		%		70-130	16-APR-20
Nickel (Ni)-Dissolved			111.6		%		70-130	16-APR-20
Phosphorus (P)-Dissolved			113.1		%		70-130	16-APR-20
Potassium (K)-Dissolved			111.9		%		70-130	16-APR-20
Rubidium (Rb)-Dissolved			110.5		%		70-130	16-APR-20
Selenium (Se)-Dissolved			117.3		%		70-130	16-APR-20
Silicon (Si)-Dissolved			104.6		%		70-130	16-APR-20
Silver (Ag)-Dissolved			107.0		%		70-130	16-APR-20
Sodium (Na)-Dissolved			N/A	MS-B	%		-	16-APR-20
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	16-APR-20
Sulfur (S)-Dissolved			113.3		%		70-130	16-APR-20
Tellurium (Te)-Dissolved			106.2		%		70-130	16-APR-20
Thallium (Tl)-Dissolved			104.9		%		70-130	16-APR-20
Thorium (Th)-Dissolved			111.0		%		70-130	16-APR-20
Tin (Sn)-Dissolved			105.6		%		70-130	16-APR-20

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Page 12 of 28

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-WP								
	Effluent							
Batch	R5057513							
WG3308533-5	MS	WG3308533-3						
Titanium (Ti)-Dissolved			108.2		%		70-130	16-APR-20
Tungsten (W)-Dissolved			105.9		%		70-130	16-APR-20
Uranium (U)-Dissolved			108.3		%		70-130	16-APR-20
Vanadium (V)-Dissolved			113.3		%		70-130	16-APR-20
Zinc (Zn)-Dissolved			112.4		%		70-130	16-APR-20
Zirconium (Zr)-Dissolved			107.9		%		70-130	16-APR-20
MET-T-MISA-WP								
	Effluent							
Batch	R5058646							
WG3308632-2	LCS							
Aluminum (Al)-Total			105.1		%		80-120	17-APR-20
Antimony (Sb)-Total			107.1		%		80-120	17-APR-20
Arsenic (As)-Total			108.3		%		80-120	17-APR-20
Barium (Ba)-Total			105.7		%		80-120	17-APR-20
Beryllium (Be)-Total			102.6		%		80-120	17-APR-20
Bismuth (Bi)-Total			108.3		%		70-130	17-APR-20
Boron (B)-Total			106.9		%		80-120	17-APR-20
Cadmium (Cd)-Total			106.1		%		80-120	17-APR-20
Calcium (Ca)-Total			105.6		%		80-120	17-APR-20
Cesium (Cs)-Total			108.4		%		80-120	17-APR-20
Chromium (Cr)-Total			107.5		%		80-120	17-APR-20
Cobalt (Co)-Total			105.6		%		80-120	17-APR-20
Copper (Cu)-Total			107.3		%		80-120	17-APR-20
Iron (Fe)-Total			100.4		%		80-120	17-APR-20
Lead (Pb)-Total			102.3		%		80-120	17-APR-20
Lithium (Li)-Total			105.9		%		80-120	17-APR-20
Magnesium (Mg)-Total			107.7		%		80-120	17-APR-20
Manganese (Mn)-Total			106.4		%		80-120	17-APR-20
Molybdenum (Mo)-Total			105.3		%		80-120	17-APR-20
Nickel (Ni)-Total			105.6		%		80-120	17-APR-20
Potassium (K)-Total			104.9		%		80-120	17-APR-20
Phosphorus (P)-Total			112.4		%		80-120	17-APR-20
Rubidium (Rb)-Total			109.5		%		80-120	17-APR-20
Selenium (Se)-Total			104.4		%		80-120	17-APR-20
Silicon (Si)-Total			104.0		%		80-120	

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Page 13 of 28

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-WP		Effluent						
Batch	R5058646							
WG3308632-2 LCS								
Silicon (Si)-Total			104.0		%		80-120	17-APR-20
Silver (Ag)-Total			102.5		%		80-120	17-APR-20
Sodium (Na)-Total			105.5		%		80-120	17-APR-20
Strontium (Sr)-Total			109.0		%		80-120	17-APR-20
Sulfur (S)-Total			106.5		%		80-120	17-APR-20
Tellurium (Te)-Total			101.9		%		80-120	17-APR-20
Thallium (Tl)-Total			103.9		%		80-120	17-APR-20
Thorium (Th)-Total			102.3		%		80-120	17-APR-20
Tin (Sn)-Total			103.4		%		80-120	17-APR-20
Titanium (Ti)-Total			99.6		%		80-120	17-APR-20
Tungsten (W)-Total			102.3		%		80-120	17-APR-20
Uranium (U)-Total			105.1		%		80-120	17-APR-20
Vanadium (V)-Total			106.6		%		80-120	17-APR-20
Zinc (Zn)-Total			106.0		%		80-120	17-APR-20
Zirconium (Zr)-Total			101.5		%		80-120	17-APR-20
WG3308632-1 MB								
Aluminum (Al)-Total			0.0004		mg/L		0.003	17-APR-20
Antimony (Sb)-Total			0.00006		mg/L		0.0001	17-APR-20
Arsenic (As)-Total			0.00004		mg/L		0.0001	17-APR-20
Barium (Ba)-Total			<0.000005		mg/L		0.0001	17-APR-20
Beryllium (Be)-Total			<0.000002		mg/L		0.0001	17-APR-20
Bismuth (Bi)-Total			<0.000005		mg/L		0.00005	17-APR-20
Boron (B)-Total			0.0015		mg/L		0.01	17-APR-20
Cadmium (Cd)-Total			<0.000001	B	mg/L		0.000005	17-APR-20
Calcium (Ca)-Total			<0.005		mg/L		0.05	17-APR-20
Cesium (Cs)-Total			0.000001		mg/L		0.00001	17-APR-20
Chromium (Cr)-Total			<0.00002		mg/L		0.0001	17-APR-20
Cobalt (Co)-Total			<0.000002		mg/L		0.0001	17-APR-20
Copper (Cu)-Total			0.00002		mg/L		0.0005	17-APR-20
Iron (Fe)-Total			<0.001		mg/L		0.01	17-APR-20
Lead (Pb)-Total			<0.000005		mg/L		0.00005	17-APR-20
Lithium (Li)-Total			0.00008		mg/L		0.001	17-APR-20
Magnesium (Mg)-Total			<0.001		mg/L		0.005	17-APR-20
Manganese (Mn)-Total			<0.00002		mg/L		0.0001	17-APR-20

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Page 14 of 28

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-WP		Effluent						
Batch	R5058646							
WG3308632-1	MB							
Molybdenum (Mo)-Total			<0.000005		mg/L		0.00005	17-APR-20
Nickel (Ni)-Total			<0.00002		mg/L		0.0005	17-APR-20
Potassium (K)-Total			<0.002		mg/L		0.05	17-APR-20
Phosphorus (P)-Total			0.008		mg/L		0.05	17-APR-20
Rubidium (Rb)-Total			<0.000005		mg/L		0.0002	17-APR-20
Selenium (Se)-Total			0.000035		mg/L		0.00005	17-APR-20
Silicon (Si)-Total			0.035		mg/L		0.1	17-APR-20
Silver (Ag)-Total			<0.000002		mg/L		0.00001	17-APR-20
Sodium (Na)-Total			<0.005		mg/L		0.05	17-APR-20
Strontium (Sr)-Total			<0.000005		mg/L		0.0002	17-APR-20
Sulfur (S)-Total			<0.1		mg/L		0.5	17-APR-20
Tellurium (Te)-Total			0.000010		mg/L		0.0002	17-APR-20
Thallium (Tl)-Total			<0.000001		mg/L		0.00001	17-APR-20
Thorium (Th)-Total			<0.000005		mg/L		0.0001	17-APR-20
Tin (Sn)-Total			<0.00002		mg/L		0.0001	17-APR-20
Titanium (Ti)-Total			0.00002		mg/L		0.0003	17-APR-20
Tungsten (W)-Total			0.000002		mg/L		0.0001	17-APR-20
Uranium (U)-Total			<0.0000002		mg/L		0.00001	17-APR-20
Vanadium (V)-Total			0.00006		mg/L		0.0005	17-APR-20
Zinc (Zn)-Total			<0.0005		mg/L		0.003	17-APR-20
Zirconium (Zr)-Total			<0.000002		mg/L		0.00006	17-APR-20
WG3308632-5	MS							
WG3308632-3								
Aluminum (Al)-Total			N/A	MS-B	%		-	17-APR-20
Antimony (Sb)-Total			102.4		%		70-130	17-APR-20
Arsenic (As)-Total			103.0		%		70-130	17-APR-20
Barium (Ba)-Total			N/A	MS-B	%		-	17-APR-20
Beryllium (Be)-Total			98.4		%		70-130	17-APR-20
Bismuth (Bi)-Total			97.9		%		70-130	17-APR-20
Boron (B)-Total			101.1		%		70-130	17-APR-20
Cadmium (Cd)-Total			101.5		%		70-130	17-APR-20
Calcium (Ca)-Total			N/A	MS-B	%		-	17-APR-20
Cesium (Cs)-Total			106.6		%		70-130	17-APR-20
Chromium (Cr)-Total			102.0		%		70-130	17-APR-20
Cobalt (Co)-Total			99.9		%		70-130	17-APR-20

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Page 15 of 28

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-WP		Effluent						
Batch	R5058646							
WG3308632-5 MS	WG3308632-3							
Copper (Cu)-Total			99.0		%		70-130	17-APR-20
Iron (Fe)-Total			99.5		%		70-130	17-APR-20
Lead (Pb)-Total			95.0		%		70-130	17-APR-20
Lithium (Li)-Total			95.4		%		70-130	17-APR-20
Magnesium (Mg)-Total			N/A	MS-B	%		-	17-APR-20
Manganese (Mn)-Total			95.1		%		70-130	17-APR-20
Molybdenum (Mo)-Total			N/A	MS-B	%		-	17-APR-20
Nickel (Ni)-Total			98.3		%		70-130	17-APR-20
Potassium (K)-Total			N/A	MS-B	%		-	17-APR-20
Phosphorus (P)-Total			103.2		%		70-130	17-APR-20
Rubidium (Rb)-Total			99.8		%		70-130	17-APR-20
Selenium (Se)-Total			103.5		%		70-130	17-APR-20
Silicon (Si)-Total			92.7		%		70-130	17-APR-20
Silver (Ag)-Total			99.5		%		70-130	17-APR-20
Sodium (Na)-Total			N/A	MS-B	%		-	17-APR-20
Strontium (Sr)-Total			N/A	MS-B	%		-	17-APR-20
Sulfur (S)-Total			N/A	MS-B	%		-	17-APR-20
Tellurium (Te)-Total			101.5		%		70-130	17-APR-20
Thallium (Tl)-Total			93.8		%		70-130	17-APR-20
Thorium (Th)-Total			103.3		%		70-130	17-APR-20
Tin (Sn)-Total			100.9		%		70-130	17-APR-20
Titanium (Ti)-Total			101.2		%		70-130	17-APR-20
Tungsten (W)-Total			99.7		%		70-130	17-APR-20
Uranium (U)-Total			96.6		%		70-130	17-APR-20
Vanadium (V)-Total			103.3		%		70-130	17-APR-20
Zinc (Zn)-Total			98.2		%		70-130	17-APR-20
Zirconium (Zr)-Total			103.3		%		70-130	17-APR-20
Batch	R5062092							
WG3311431-4 DUP	WG3311431-3							
Aluminum (Al)-Total		0.0002	0.0004	RPD-NA	mg/L	N/A	20	23-APR-20
Antimony (Sb)-Total		<0.00002	<0.00002	RPD-NA	mg/L	N/A	20	23-APR-20
Arsenic (As)-Total		0.00138	0.00141		mg/L	2.6	20	23-APR-20
Barium (Ba)-Total		0.0415	0.0415		mg/L	0.1	20	23-APR-20
Beryllium (Be)-Total		0.000006	<0.000002					

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Page 16 of 28

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-WP		Effluent						
Batch R5062092								
WG3311431-4 DUP		WG3311431-3						
Beryllium (Be)-Total		0.000006	<0.000002	RPD-NA	mg/L	N/A	20	23-APR-20
Bismuth (Bi)-Total		0.000010	<0.000005	RPD-NA	mg/L	N/A	20	23-APR-20
Boron (B)-Total		0.161	0.161		mg/L	0.3	20	23-APR-20
Cadmium (Cd)-Total		<0.000001	<0.000001	RPD-NA	mg/L	N/A	20	23-APR-20
Calcium (Ca)-Total		94.1	93.0		mg/L	1.2	20	23-APR-20
Cesium (Cs)-Total		0.000006	0.000005	RPD-NA	mg/L	N/A	20	23-APR-20
Chromium (Cr)-Total		0.00006	<0.00002	RPD-NA	mg/L	N/A	20	23-APR-20
Cobalt (Co)-Total		0.000274	0.000282		mg/L	2.6	20	23-APR-20
Copper (Cu)-Total		<0.00002	0.00006	RPD-NA	mg/L	N/A	20	23-APR-20
Iron (Fe)-Total		0.582	0.599		mg/L	2.7	20	23-APR-20
Lead (Pb)-Total		0.000030	0.000020	RPD-NA	mg/L	N/A	20	23-APR-20
Lithium (Li)-Total		0.0401	0.0395		mg/L	1.5	20	23-APR-20
Magnesium (Mg)-Total		68.3	68.0		mg/L	0.4	20	23-APR-20
Manganese (Mn)-Total		0.0106	0.0106		mg/L	0.1	20	23-APR-20
Molybdenum (Mo)-Total		0.000950	0.000955		mg/L	0.4	20	23-APR-20
Nickel (Ni)-Total		0.00098	0.00098		mg/L	0.1	20	23-APR-20
Potassium (K)-Total		4.10	4.21		mg/L	2.7	20	23-APR-20
Phosphorus (P)-Total		0.008	<0.002	RPD-NA	mg/L	N/A	20	23-APR-20
Rubidium (Rb)-Total		0.00134	0.00129		mg/L	3.6	20	23-APR-20
Selenium (Se)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	23-APR-20
Silicon (Si)-Total		8.20	8.13		mg/L	0.9	20	23-APR-20
Silver (Ag)-Total		0.000002	<0.000002	RPD-NA	mg/L	N/A	20	23-APR-20
Sodium (Na)-Total		33.7	33.9		mg/L	0.6	20	23-APR-20
Strontium (Sr)-Total		0.435	0.439		mg/L	0.9	20	23-APR-20
Sulfur (S)-Total		44.5	43.6		mg/L	2.0	20	23-APR-20
Tellurium (Te)-Total		0.000035	0.000030	RPD-NA	mg/L	N/A	20	23-APR-20
Thallium (Tl)-Total		0.000008	0.000004	RPD-NA	mg/L	N/A	20	23-APR-20
Thorium (Th)-Total		0.000025	0.000010	RPD-NA	mg/L	N/A	20	23-APR-20
Tin (Sn)-Total		0.00008	0.00006	RPD-NA	mg/L	N/A	20	23-APR-20
Titanium (Ti)-Total		0.00016	<0.00002	RPD-NA	mg/L	N/A	20	23-APR-20
Tungsten (W)-Total		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	23-APR-20
Uranium (U)-Total		0.00428	0.00422		mg/L	1.4	20	23-APR-20
Vanadium (V)-Total		<0.00002	<0.00002		mg/L			23-APR-20

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Page 17 of 28

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-WP		Effluent						
Batch	R5062092							
WG3311431-4	DUP	WG3311431-3						
Vanadium (V)-Total		<0.00002	<0.00002	RPD-NA	mg/L	N/A	20	23-APR-20
Zinc (Zn)-Total		<0.0005	0.0005	RPD-NA	mg/L	N/A	20	23-APR-20
Zirconium (Zr)-Total		0.000020	0.000012	RPD-NA	mg/L	N/A	20	23-APR-20
WG3311431-2	LCS							
Aluminum (Al)-Total			102.9		%		80-120	23-APR-20
Antimony (Sb)-Total			103.4		%		80-120	23-APR-20
Arsenic (As)-Total			102.2		%		80-120	23-APR-20
Barium (Ba)-Total			103.3		%		80-120	23-APR-20
Beryllium (Be)-Total			107.5		%		80-120	23-APR-20
Bismuth (Bi)-Total			103.5		%		70-130	23-APR-20
Boron (B)-Total			106.5		%		80-120	23-APR-20
Cadmium (Cd)-Total			103.3		%		80-120	23-APR-20
Calcium (Ca)-Total			99.2		%		80-120	23-APR-20
Cesium (Cs)-Total			100.9		%		80-120	23-APR-20
Chromium (Cr)-Total			100.5		%		80-120	23-APR-20
Cobalt (Co)-Total			101.7		%		80-120	23-APR-20
Copper (Cu)-Total			102.5		%		80-120	23-APR-20
Iron (Fe)-Total			87.6		%		80-120	23-APR-20
Lead (Pb)-Total			105.1		%		80-120	23-APR-20
Lithium (Li)-Total			103.8		%		80-120	23-APR-20
Magnesium (Mg)-Total			123.9	MES	%		80-120	23-APR-20
Manganese (Mn)-Total			102.2		%		80-120	23-APR-20
Molybdenum (Mo)-Total			97.3		%		80-120	23-APR-20
Nickel (Ni)-Total			100.3		%		80-120	23-APR-20
Potassium (K)-Total			96.2		%		80-120	23-APR-20
Phosphorus (P)-Total			108.5		%		80-120	23-APR-20
Rubidium (Rb)-Total			99.4		%		80-120	23-APR-20
Selenium (Se)-Total			102.4		%		80-120	23-APR-20
Silicon (Si)-Total			106.1		%		80-120	23-APR-20
Silver (Ag)-Total			108.0		%		80-120	23-APR-20
Sodium (Na)-Total			101.4		%		80-120	23-APR-20
Strontium (Sr)-Total			105.4		%		80-120	23-APR-20
Sulfur (S)-Total			91.2		%		80-120	23-APR-20
Tellurium (Te)-Total			101.8		%		80-120	

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Page 18 of 28

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-WP		Effluent						
Batch	R5062092							
WG3311431-2 LCS								
Tellurium (Te)-Total			101.8		%		80-120	23-APR-20
Thallium (Tl)-Total			105.0		%		80-120	23-APR-20
Thorium (Th)-Total			97.9		%		80-120	23-APR-20
Tin (Sn)-Total			96.4		%		80-120	23-APR-20
Titanium (Ti)-Total			96.4		%		80-120	23-APR-20
Tungsten (W)-Total			99.4		%		80-120	23-APR-20
Uranium (U)-Total			103.4		%		80-120	23-APR-20
Vanadium (V)-Total			101.2		%		80-120	23-APR-20
Zinc (Zn)-Total			102.7		%		80-120	23-APR-20
Zirconium (Zr)-Total			90.0		%		80-120	23-APR-20
WG3311431-1 MB								
Aluminum (Al)-Total			<0.0002		mg/L		0.003	23-APR-20
Antimony (Sb)-Total			<0.00002		mg/L		0.0001	23-APR-20
Arsenic (As)-Total			0.00002		mg/L		0.0001	23-APR-20
Barium (Ba)-Total			<0.000005		mg/L		0.0001	23-APR-20
Beryllium (Be)-Total			<0.000002		mg/L		0.0001	23-APR-20
Bismuth (Bi)-Total			<0.000005		mg/L		0.00005	23-APR-20
Boron (B)-Total			0.0010		mg/L		0.01	23-APR-20
Cadmium (Cd)-Total			<0.000001		mg/L		0.000005	23-APR-20
Calcium (Ca)-Total			0.020		mg/L		0.05	23-APR-20
Cesium (Cs)-Total			<0.000001		mg/L		0.00001	23-APR-20
Chromium (Cr)-Total			<0.00002		mg/L		0.0001	23-APR-20
Cobalt (Co)-Total			0.000006		mg/L		0.0001	23-APR-20
Copper (Cu)-Total			0.00014		mg/L		0.0005	23-APR-20
Iron (Fe)-Total			<0.001		mg/L		0.01	23-APR-20
Lead (Pb)-Total			<0.000005		mg/L		0.00005	23-APR-20
Lithium (Li)-Total			<0.00002		mg/L		0.001	23-APR-20
Magnesium (Mg)-Total			0.001		mg/L		0.005	23-APR-20
Manganese (Mn)-Total			0.00012	B	mg/L		0.0001	23-APR-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.00005	23-APR-20
Nickel (Ni)-Total			<0.00002		mg/L		0.0005	23-APR-20
Potassium (K)-Total			<0.002		mg/L		0.05	23-APR-20
Phosphorus (P)-Total			0.016		mg/L		0.05	23-APR-20
Rubidium (Rb)-Total			<0.000005		mg/L		0.0002	23-APR-20

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Page 19 of 28

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-WP								
	Effluent							
Batch	R5062092							
WG3311431-1 MB								
Selenium (Se)-Total			<0.000005		mg/L		0.00005	23-APR-20
Silicon (Si)-Total			0.025		mg/L		0.1	23-APR-20
Silver (Ag)-Total			<0.000002		mg/L		0.00001	23-APR-20
Sodium (Na)-Total			0.010		mg/L		0.05	23-APR-20
Strontium (Sr)-Total			0.000115		mg/L		0.0002	23-APR-20
Sulfur (S)-Total			<0.1		mg/L		0.5	23-APR-20
Tellurium (Te)-Total			0.000010		mg/L		0.0002	23-APR-20
Thallium (Tl)-Total			<0.000001		mg/L		0.00001	23-APR-20
Thorium (Th)-Total			<0.000005		mg/L		0.0001	23-APR-20
Tin (Sn)-Total			<0.00002		mg/L		0.0001	23-APR-20
Titanium (Ti)-Total			<0.00002		mg/L		0.0003	23-APR-20
Tungsten (W)-Total			<0.000002		mg/L		0.0001	23-APR-20
Uranium (U)-Total			<0.0000002		mg/L		0.00001	23-APR-20
Vanadium (V)-Total			0.00002		mg/L		0.0005	23-APR-20
Zinc (Zn)-Total			<0.0005		mg/L		0.003	23-APR-20
Zirconium (Zr)-Total			<0.000002		mg/L		0.00006	23-APR-20
WG3311431-5 MS		WG3311431-3						
Aluminum (Al)-Total			100.2		%		70-130	23-APR-20
Antimony (Sb)-Total			95.6		%		70-130	23-APR-20
Arsenic (As)-Total			101.1		%		70-130	23-APR-20
Barium (Ba)-Total			N/A	MS-B	%		-	23-APR-20
Beryllium (Be)-Total			105.6		%		70-130	23-APR-20
Bismuth (Bi)-Total			91.6		%		70-130	23-APR-20
Boron (B)-Total			N/A	MS-B	%		-	23-APR-20
Cadmium (Cd)-Total			100.3		%		70-130	23-APR-20
Calcium (Ca)-Total			N/A	MS-B	%		-	23-APR-20
Cesium (Cs)-Total			102.9		%		70-130	23-APR-20
Chromium (Cr)-Total			97.7		%		70-130	23-APR-20
Cobalt (Co)-Total			96.3		%		70-130	23-APR-20
Copper (Cu)-Total			97.0		%		70-130	23-APR-20
Iron (Fe)-Total			96.6		%		70-130	23-APR-20
Lead (Pb)-Total			96.0		%		70-130	23-APR-20
Lithium (Li)-Total			104.9		%		70-130	23-APR-20
Magnesium (Mg)-Total			N/A	MS-B	%		-	23-APR-20

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Page 21 of 28

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-WT Effluent								
Batch R5057374								
WG3307553-1 MB								
Ammonia, Total (as N)			<0.005		mg/L		0.02	16-APR-20
WG3307553-4 MS		L2436089-15						
Ammonia, Total (as N)			100.1		%		70-130	16-APR-20
NO2-MISA-IC-TB Effluent								
Batch R5056231								
WG3306879-3 DUP		L2436089-2						
Nitrite (as N)		0.002	0.002	RPD-NA	mg/L	N/A	20	13-APR-20
WG3306879-2 LCS								
Nitrite (as N)			101.7		%		90-110	13-APR-20
WG3306879-1 MB								
Nitrite (as N)			<0.001		mg/L		0.01	13-APR-20
WG3306879-4 MS		L2436089-1						
Nitrite (as N)			103.8		%		75-125	13-APR-20
NO3-MISA-IC-TB Effluent								
Batch R5056231								
WG3306879-3 DUP		L2436089-2						
Nitrate (as N)		0.132	0.124		mg/L	6.4	20	13-APR-20
WG3306879-2 LCS								
Nitrate (as N)			99.4		%		90-110	13-APR-20
WG3306879-1 MB								
Nitrate (as N)			0.008		mg/L		0.02	13-APR-20
WG3306879-4 MS		L2436089-1						
Nitrate (as N)			99.7		%		75-125	13-APR-20
OGG-TOT-WT Effluent								
Batch R5056763								
WG3307864-2 LCS								
Oil and Grease, Total			99.2		%		50-150	15-APR-20
WG3307864-1 MB								
Oil and Grease, Total			0.6		mg/L		1	15-APR-20
Batch R5057111								
WG3308192-2 LCS								
Oil and Grease, Total			99.0		%		50-150	15-APR-20
WG3308192-1 MB								
Oil and Grease, Total			0.4		mg/L		1	15-APR-20
PH-MISA-TB Effluent								

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Page 22 of 28

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-MISA-TB		Effluent						
Batch	R5056271							
WG3306937-3	DUP	L2436089-5						
pH		7.73	7.73	J	pH	0.00	0.2	13-APR-20
WG3306937-2	LCS							
pH			7.02		pH		6.9-7.1	13-APR-20
SO4-MISA-IC-TB		Effluent						
Batch	R5056231							
WG3306879-3	DUP	L2436089-2						
Sulfate (SO4)		4.40	4.10		mg/L	6.6	20	13-APR-20
WG3306879-2	LCS							
Sulfate (SO4)			100.7		%		90-110	13-APR-20
WG3306879-1	MB							
Sulfate (SO4)			<0.05		mg/L		0.3	13-APR-20
WG3306879-4	MS	L2436089-1						
Sulfate (SO4)			100.8		%		75-125	13-APR-20
TDS-MISA-TB		Effluent						
Batch	R5056364							
WG3306914-2	LCS							
Total Dissolved Solids			96.8		%		85-115	13-APR-20
WG3306914-1	MB							
Total Dissolved Solids			<2		mg/L		10	13-APR-20
Batch	R5057412							
WG3307511-2	LCS							
Total Dissolved Solids			98.0		%		85-115	15-APR-20
WG3307511-1	MB							
Total Dissolved Solids			<2		mg/L		10	15-APR-20
TSS-MISA-TB		Effluent						
Batch	R5056413							
WG3306903-2	LCS							
Total Suspended Solids			93.3		%		85-115	13-APR-20
WG3306903-1	MB							
Total Suspended Solids			<0.5		mg/L		2	13-APR-20
Batch	R5056803							
WG3307412-2	LCS							
Total Suspended Solids			97.7		%		85-115	14-APR-20
WG3307412-1	MB							
Total Suspended Solids			<0.5		mg/L		2	14-APR-20

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Page 23 of 28

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TSS-MISA-TB	Effluent							
Batch	R5056894							
WG3307583-3	DUP	L2436059-3						
Total Suspended Solids		19.0	16.5		mg/L	13	20	14-APR-20
WG3307583-2	LCS							
Total Suspended Solids			96.3		%		85-115	14-APR-20
WG3307583-1	MB							
Total Suspended Solids			<0.5		mg/L		2	14-APR-20

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Page 24 of 28

Contact: Amanda Jacobs

Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
BODF	BOD analyzed from frozen (preserved) sample. Hold time for unpreserved samples was exceeded, but freezing extends hold time to at least 1 month [ISO 5667-3 (2012)].
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).
J	Duplicate results and limits are expressed in terms of absolute difference.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Page 25 of 28

Contact: Amanda Jacobs

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Colour, True							
	1	07-APR-20 10:00	13-APR-20 13:30	48	148	hours	EHTR
	2	07-APR-20 11:00	13-APR-20 13:30	48	146	hours	EHTR
	3	07-APR-20 11:15	13-APR-20 13:30	48	146	hours	EHTR
	4	07-APR-20 15:05	13-APR-20 13:30	48	142	hours	EHTR
	5	07-APR-20 13:20	13-APR-20 13:30	48	144	hours	EHTR
	6	09-APR-20 07:45	13-APR-20 13:30	48	102	hours	EHTR
	7	08-APR-20 15:30	13-APR-20 13:30	48	118	hours	EHTR
	8	08-APR-20 12:00	13-APR-20 13:30	48	121	hours	EHTR
	9	08-APR-20 15:20	13-APR-20 13:30	48	118	hours	EHTR
	10	08-APR-20 13:30	13-APR-20 13:30	48	120	hours	EHTR
	11	08-APR-20 12:00	13-APR-20 13:30	48	121	hours	EHTR
	12	08-APR-20 11:00	13-APR-20 13:30	48	122	hours	EHTR
	13	08-APR-20 10:30	13-APR-20 13:30	48	123	hours	EHTR
	14	08-APR-20 10:00	13-APR-20 13:30	48	124	hours	EHTR
	15	08-APR-20 09:00	13-APR-20 13:30	48	125	hours	EHTR
	16	08-APR-20 12:00	13-APR-20 13:30	48	121	hours	EHTR
	17	08-APR-20 12:00	13-APR-20 13:30	48	121	hours	EHTR
Conductivity (EC)							
	1	07-APR-20 10:00	13-APR-20 13:15	4	6	days	EHTR
	2	07-APR-20 11:00	13-APR-20 13:15	4	6	days	EHTR
	3	07-APR-20 11:15	13-APR-20 13:15	4	6	days	EHTR
	4	07-APR-20 15:05	13-APR-20 13:15	4	6	days	EHTL
	5	07-APR-20 13:20	13-APR-20 13:15	4	6	days	EHTL
	7	08-APR-20 15:30	13-APR-20 13:15	4	5	days	EHT
	8	08-APR-20 12:00	13-APR-20 13:15	4	5	days	EHT
	9	08-APR-20 15:20	13-APR-20 13:15	4	5	days	EHT
	10	08-APR-20 13:30	13-APR-20 13:15	4	5	days	EHT
	11	08-APR-20 12:00	13-APR-20 13:15	4	5	days	EHT
	12	08-APR-20 11:00	13-APR-20 13:15	4	5	days	EHTL
	13	08-APR-20 10:30	13-APR-20 13:15	4	5	days	EHTL
	14	08-APR-20 10:00	13-APR-20 13:15	4	5	days	EHTL
	15	08-APR-20 09:00	13-APR-20 13:15	4	5	days	EHTL
	16	08-APR-20 12:00	13-APR-20 13:15	4	5	days	EHT
	17	08-APR-20 12:00	13-APR-20 13:15	4	5	days	EHT
Turbidity							
	1	07-APR-20 10:00	14-APR-20 10:30	48	168	hours	EHTR
	2	07-APR-20 11:00	14-APR-20 10:30	48	168	hours	EHTR
	3	07-APR-20 11:15	14-APR-20 10:30	48	167	hours	EHTR
	4	07-APR-20 15:05	14-APR-20 10:30	48	163	hours	EHTR
	5	07-APR-20 13:20	14-APR-20 10:30	48	165	hours	EHTR
	6	09-APR-20 07:45	14-APR-20 10:30	48	123	hours	EHTR
	7	08-APR-20 15:30	14-APR-20 10:30	48	139	hours	EHTR
	8	08-APR-20 12:00	14-APR-20 10:30	48	143	hours	EHTR
	9	08-APR-20 15:20	14-APR-20 10:30	48	139	hours	EHTR
	10	08-APR-20 13:30	14-APR-20 10:30	48	141	hours	EHTR
	11	08-APR-20 12:00	14-APR-20 10:30	48	143	hours	EHTR
	12	08-APR-20 11:00	14-APR-20 10:30	48	144	hours	EHTR
	13	08-APR-20 10:30	14-APR-20 10:30	48	144	hours	EHTR
	14	08-APR-20 10:00	14-APR-20 10:30	48	144	hours	EHTR
	15	08-APR-20 09:00	14-APR-20 10:30	48	145	hours	EHTR
	16	08-APR-20 12:00	14-APR-20 10:30	48	143	hours	EHTR
	17	08-APR-20 12:00	14-APR-20 10:30	48	143	hours	EHTR

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH							
	1	07-APR-20 10:00	13-APR-20 13:45	4	6	days	EHTR
	2	07-APR-20 11:00	13-APR-20 13:45	4	6	days	EHTR
	3	07-APR-20 11:15	13-APR-20 13:45	4	6	days	EHTR
	4	07-APR-20 15:05	13-APR-20 13:45	4	6	days	EHTL
	5	07-APR-20 13:20	13-APR-20 13:45	4	6	days	EHTL
	7	08-APR-20 15:30	13-APR-20 13:45	4	5	days	EHT
	8	08-APR-20 12:00	13-APR-20 13:45	4	5	days	EHT
	9	08-APR-20 15:20	13-APR-20 13:45	4	5	days	EHT
	10	08-APR-20 13:30	13-APR-20 13:45	4	5	days	EHT
	11	08-APR-20 12:00	13-APR-20 13:45	4	5	days	EHT
	12	08-APR-20 11:00	13-APR-20 13:45	4	5	days	EHTL
	13	08-APR-20 10:30	13-APR-20 13:45	4	5	days	EHTL
	14	08-APR-20 10:00	13-APR-20 13:45	4	5	days	EHTL
	15	08-APR-20 09:00	13-APR-20 13:45	4	5	days	EHTL
	16	08-APR-20 12:00	13-APR-20 13:45	4	5	days	EHT
	17	08-APR-20 12:00	13-APR-20 13:45	4	5	days	EHT
Leachable Anions & Nutrients							
Diss. Orthophosphate in Water by Colour							
	1	07-APR-20 10:00	15-APR-20 11:00	7	8	days	EHT
	2	07-APR-20 11:00	15-APR-20 11:00	7	8	days	EHT
	3	07-APR-20 11:15	15-APR-20 11:00	7	8	days	EHT
	4	07-APR-20 15:05	15-APR-20 11:00	7	8	days	EHT
	5	07-APR-20 13:20	15-APR-20 11:00	7	8	days	EHT
Nitrate in Water by IC							
	1	07-APR-20 10:00	13-APR-20 16:28	5	6	days	EHTL
	2	07-APR-20 11:00	13-APR-20 16:28	5	6	days	EHTL
	3	07-APR-20 11:15	13-APR-20 16:28	5	6	days	EHTL
	4	07-APR-20 15:05	13-APR-20 16:28	5	6	days	EHT
	5	07-APR-20 13:20	13-APR-20 16:28	5	6	days	EHT
Nitrite in Water by IC							
	1	07-APR-20 10:00	13-APR-20 16:28	5	6	days	EHTL
	2	07-APR-20 11:00	13-APR-20 16:28	5	6	days	EHTL
	3	07-APR-20 11:15	13-APR-20 16:28	5	6	days	EHTL
	4	07-APR-20 15:05	13-APR-20 16:28	5	6	days	EHT
	5	07-APR-20 13:20	13-APR-20 16:28	5	6	days	EHT
Anions and Nutrients							
Filtr./Pres. for carbons and nutrients							
	1	07-APR-20 10:00	20-APR-20 10:00	3	13	days	EHTR
	2	07-APR-20 11:00	20-APR-20 10:00	3	13	days	EHTR
	3	07-APR-20 11:15	20-APR-20 10:00	3	13	days	EHTR
	4	07-APR-20 15:05	20-APR-20 10:00	3	13	days	EHTR
	5	07-APR-20 13:20	20-APR-20 10:00	3	13	days	EHTR
	6	09-APR-20 07:45	20-APR-20 10:00	3	11	days	EHTL
	7	08-APR-20 15:30	20-APR-20 10:00	3	12	days	EHTL
	8	08-APR-20 12:00	20-APR-20 10:00	3	12	days	EHTL
	9	08-APR-20 15:20	20-APR-20 10:00	3	12	days	EHTL
	10	08-APR-20 13:30	20-APR-20 10:00	3	12	days	EHTL
	11	08-APR-20 12:00	20-APR-20 10:00	3	12	days	EHTL
	12	08-APR-20 11:00	20-APR-20 10:00	3	12	days	EHTR
	13	08-APR-20 10:30	20-APR-20 10:00	3	12	days	EHTR
	14	08-APR-20 10:00	20-APR-20 10:00	3	12	days	EHTR

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Amanda Jacobs

Page 27 of 28

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Anions and Nutrients							
Filtr./Pres. for carbons and nutrients							
	15	08-APR-20 09:00	20-APR-20 10:00	3	12	days	EHTR
	16	08-APR-20 12:00	20-APR-20 10:00	3	12	days	EHTL
	17	08-APR-20 12:00	20-APR-20 10:00	3	12	days	EHTL
Organic / Inorganic Carbon							
Diss Organic Carbon by Combustion (MISA)							
	1	07-APR-20 10:00	21-APR-20 15:00	10	14	days	EHT
	2	07-APR-20 11:00	21-APR-20 15:00	10	14	days	EHT
	3	07-APR-20 11:15	22-APR-20 15:00	10	15	days	EHT
	4	07-APR-20 15:05	22-APR-20 15:00	10	15	days	EHT
	5	07-APR-20 13:20	21-APR-20 15:00	10	14	days	EHT
	6	09-APR-20 07:45	21-APR-20 15:00	10	12	days	EHT
	7	08-APR-20 15:30	21-APR-20 15:00	10	13	days	EHT
	8	08-APR-20 12:00	21-APR-20 15:00	10	13	days	EHT
	9	08-APR-20 15:20	22-APR-20 15:00	10	14	days	EHT
	10	08-APR-20 13:30	21-APR-20 15:00	10	13	days	EHT
	11	08-APR-20 12:00	21-APR-20 15:00	10	13	days	EHT
	12	08-APR-20 11:00	21-APR-20 15:00	10	13	days	EHT
	14	08-APR-20 10:00	21-APR-20 15:00	10	13	days	EHT
	15	08-APR-20 09:00	21-APR-20 15:00	10	13	days	EHT
	16	08-APR-20 12:00	21-APR-20 15:00	10	13	days	EHT
	17	08-APR-20 12:00	21-APR-20 15:00	10	13	days	EHT
Aggregate Organics							
Biochemical Oxygen Demand (BOD)							
	1	07-APR-20 10:00	19-APR-20 15:15	4	12	days	EHTR
	2	07-APR-20 11:00	19-APR-20 15:15	4	12	days	EHTR
	3	07-APR-20 11:15	19-APR-20 15:15	4	12	days	EHTR
	6	09-APR-20 07:45	19-APR-20 15:15	4	10	days	EHT
	7	08-APR-20 15:30	19-APR-20 15:15	4	11	days	EHT
	8	08-APR-20 12:00	19-APR-20 15:15	4	11	days	EHT
	9	08-APR-20 15:20	19-APR-20 15:15	4	11	days	EHT
	10	08-APR-20 13:30	19-APR-20 15:15	4	11	days	EHT
	11	08-APR-20 12:00	19-APR-20 15:15	4	11	days	EHT
	12	08-APR-20 11:00	19-APR-20 15:15	4	11	days	EHTL
	13	08-APR-20 10:30	19-APR-20 15:15	4	11	days	EHTL
	14	08-APR-20 10:00	19-APR-20 15:15	4	11	days	EHTL
	15	08-APR-20 09:00	19-APR-20 15:15	4	11	days	EHTL
	16	08-APR-20 12:00	19-APR-20 15:15	4	11	days	EHT
	17	08-APR-20 12:00	19-APR-20 15:15	4	11	days	EHT

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2436089 were received on 11-APR-20 11:51.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government

Quality Control Report

Workorder: L2436089

Report Date: 07-MAY-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Page 28 of 28

Contact: Amanda Jacobs

requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Your P.O. #: L2436089
Your C.O.C. #: N/A

Attention: Christine Paradis

ALS Laboratory Group
Environmental Div.
1081 Barton St.
Thunder Bay, ON
Canada P7B 5N3

Report Date: 2020/04/27
Report #: R6156250
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C092929
Received: 2020/04/14, 10:00

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Radium Isotopes by Alpha Spectrometry (1)	4	N/A	2020/04/22	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by BV Labs, unless otherwise agreed in writing. BV Labs is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by BV Labs, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Radium-226 results have not been corrected for blanks.



Your P.O. #: L2436089
Your C.O.C. #: N/A

Attention: Christine Paradis

ALS Laboratory Group
Environmental Div.
1081 Barton St.
Thunder Bay, ON
Canada P7B 5N3

Report Date: 2020/04/27
Report #: R6156250
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C092929
Received: 2020/04/14, 10:00

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Mayank Nigam, Project Manager
Email: Mayank.Nigam@bvlab.com
Phone# (905) 826-3080

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

BV Labs Job #: C092929
Report Date: 2020/04/27

ALS Laboratory Group
Your P.O. #: L2436089

RESULTS OF ANALYSES OF WATER

BV Labs ID		MLD412	MLD413	MLD414	MLD415		
Sampling Date		2020/04/07	2020/04/07	2020/04/09	2020/04/08		
COC Number		N/A	N/A	N/A	N/A		
	UNITS	L2436089-2 SW23	L2436089-3 SW24	L2436089-6 SW22A	L2436089-14 SW20	RDL	QC Batch
Radium-226	Bq/L	<0.010	<0.010	<0.010	<0.010	0.010	6684378
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



TEST SUMMARY

BV Labs ID: MLD412
Sample ID: L2436089-2 SW23
Matrix: Water

Collected: 2020/04/07
Shipped:
Received: 2020/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6684378	N/A	2020/04/22	Priya Sharma

BV Labs ID: MLD413
Sample ID: L2436089-3 SW24
Matrix: Water

Collected: 2020/04/07
Shipped:
Received: 2020/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6684378	N/A	2020/04/22	Priya Sharma

BV Labs ID: MLD414
Sample ID: L2436089-6 SW22A
Matrix: Water

Collected: 2020/04/09
Shipped:
Received: 2020/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6684378	N/A	2020/04/22	Priya Sharma

BV Labs ID: MLD415
Sample ID: L2436089-14 SW20
Matrix: Water

Collected: 2020/04/08
Shipped:
Received: 2020/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6684378	N/A	2020/04/22	Priya Sharma



BUREAU
VERITAS

BV Labs Job #: C092929
Report Date: 2020/04/27

ALS Laboratory Group
Your P.O. #: L2436089

GENERAL COMMENTS

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C092929
Report Date: 2020/04/27

ALS Laboratory Group
Your P.O. #: L2436089

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
6684378	SHC	Spiked Blank	Radium-226	2020/04/22		89	%	85 - 115
6684378	SHC	Method Blank	Radium-226	2020/04/22	<0.010		Bq/L	
6684378	SHC	RPD	Radium-226	2020/04/22	NC		%	N/A

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference $\leq 2 \times$ RDL).



BUREAU
VERITAS

BV Labs Job #: C092929
Report Date: 2020/04/27

ALS Laboratory Group
Your P.O. #: L2436089

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

<original signed by>

Steven Simpson, Lab Director

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Client: New Gold.

Sample Layout Verification:

Verified By SD	Date April 11 / 2020	Time 11:51
--------------------------	--------------------------------	----------------------



L2436089-COFC

Labels Verification:

Verified By SD	Do any samples require prep? NO P (F/P)
--------------------------	---

*DOC all fractions
D Metals and mercury
(fractions 10, 9, 6 and 7)*

		Sample #:	1	2-3	4-5	6	7-8	14	15-17	18								
1L	Plastic			1		1		1										
500mL	Plastic		1	1	1	1	1	1	1									
250mL	Plastic		2	2	2	2	2	2	2									
145mL	Plastic																	
60mL	Plastic		3	3	3	3	3	3	3									
Micro																		
Toxicity Pall																		
1L	Glass																	
500mL	Glass																	
250mL	Glass		2	2	2	2	2	2	2	2								
120mL	Glass																	
60mL	Glass																	
40mL	Vial (Glass)		2	2	2	2	2	2	2									
40mL	Methanol Vials																	
Soll Jar (120, 250 or 500mL)																		
Other:	100ml glass		2	2	2	2	2	2	2									
Other:																		
Total Number of Bottles			12	13	12	13	12	13	12	2								

Trip/Travel/Field Blank Information

Solids Batch#: 421 March 10/2020 Metals Batch#: 425/425 T: Mar. 10/2020 D: Mar. 10/2020 PPP

Routine Batch#: 421 March 10/2020 Mercury Batch#: 426/426 T: Mar. 10/2020 D: Mar. 10/2020 Small

BOD Batch#: 422 March 10/2020 Cyanide Batch#: lot # 104855 Aug. 2020 D:

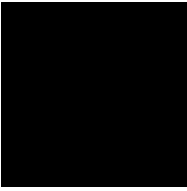
Nutrients Batch#: 423 Mar. 10/2020 OGG Batch#: lot # 104855 Exp: Aug. 2020

DOC/Carbon Batch#: 424 Mar. 10/2020 Phenols Batch#:

VOC Batch#:

Other:

COOLER TRACKING	
Coleman	_____
Micro (5QT)	_____
Sm(9QT)	_____
Med(16QT)	_____
Lrg(28QT)	_____
Lrg(48QT)	_____



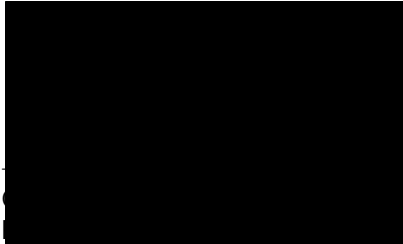
New Gold Inc. Rainy River Project
ATTN: Amanda Jacobs
24 Marr Rd
Barwick ON POW 1A0

Date Received: 15-MAY-20
Report Date: 19-JUN-20 12:40 (MT)
Version: FINAL

Client Phone: 807-482-0931

Certificate of Analysis

Lab Work Order #: L2447535
Project P.O. #: 4500038941
Job Reference: SURFACE WATER
C of C Numbers:
Legal Site Desc:



[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3, Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598



ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-1 FIELD BLANK- SURFACE WATER Sampled By: client on 12-MAY-20 @ 12:00 Matrix: water							
Physical Tests							
Color, True	<2.0		2.0	CU		15-MAY-20	R5087700
Conductivity (EC)	<0.2	<W	1.0	uS/cm		15-MAY-20	R5089476
Hardness (as CaCO3)	<0.20		0.20	mg/L		05-JUN-20	
pH	6.07		0.10	pH		15-MAY-20	R5089476
Total Suspended Solids	<0.5	<W	2.0	mg/L		15-MAY-20	R5088642
Total Dissolved Solids	<2	<W	10	mg/L		15-MAY-20	R5088756
Turbidity	<0.10		0.10	NTU		15-MAY-20	R5087298
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		19-MAY-20	R5092571
Alkalinity, Total (as CaCO3)	0.6	<DL	2.0	mg/L		15-MAY-20	R5089476
Ammonia, Total (as N)	0.010	<DL	0.020	mg/L		21-MAY-20	R5094647
Chloride (Cl)	<0.10		0.10	mg/L	15-MAY-20	17-MAY-20	R5090800
Fluoride (F)	<0.020		0.020	mg/L	15-MAY-20	17-MAY-20	R5090800
Nitrate (as N)	<0.002	<W	0.020	mg/L		17-MAY-20	R5090800
Nitrite (as N)	0.001	<DL	0.010	mg/L		17-MAY-20	R5090800
Total Kjeldahl Nitrogen	<0.05	<W	0.18	mg/L	22-MAY-20	22-MAY-20	R5095336
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		19-MAY-20	R5091180
Sulfate (SO4)	<0.05	<W	0.30	mg/L		17-MAY-20	R5090800
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Total	<0.0002	<W	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Free	<0.0001	<W	0.0020	mg/L		19-MAY-20	R5092542
Organic / Inorganic Carbon							
Dissolved Organic Carbon	0.20	<DL	0.50	mg/L		26-MAY-20	R5099171
Total Organic Carbon	<0.50		0.50	mg/L		22-MAY-20	R5095730
Total Metals							
Aluminum (Al)-Total	0.0008	<DL	0.0030	mg/L		29-MAY-20	R5102695
Antimony (Sb)-Total	<0.00002	<W	0.00010	mg/L		29-MAY-20	R5102695
Arsenic (As)-Total	<0.00001	<W	0.00010	mg/L		29-MAY-20	R5102695
Barium (Ba)-Total	0.000015	<DL	0.00010	mg/L		29-MAY-20	R5102695
Beryllium (Be)-Total	<0.000002	<W	0.00010	mg/L		29-MAY-20	R5102695
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		29-MAY-20	R5102695
Boron (B)-Total	<0.0005	<W	0.010	mg/L		29-MAY-20	R5102695
Cadmium (Cd)-Total	<0.000001	<W	0.0000050	mg/L		29-MAY-20	R5102695
Calcium (Ca)-Total	0.025	<DL	0.050	mg/L		29-MAY-20	R5102695
Cesium (Cs)-Total	<0.000001	<W	0.000010	mg/L		29-MAY-20	R5102695
Chromium (Cr)-Total	0.00004	<DL	0.00010	mg/L		29-MAY-20	R5102695
Cobalt (Co)-Total	<0.000002	<W	0.00010	mg/L		29-MAY-20	R5102695
Copper (Cu)-Total	0.00004	<DL	0.00050	mg/L		29-MAY-20	R5102695
Iron (Fe)-Total	<0.001	<W	0.010	mg/L		29-MAY-20	R5102695
Lead (Pb)-Total	<0.000005	<W	0.000050	mg/L		29-MAY-20	R5102695
Lithium (Li)-Total	<0.00002	<W	0.0010	mg/L		29-MAY-20	R5102695

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-1 FIELD BLANK- SURFACE WATER							
Sampled By: client on 12-MAY-20 @ 12:00							
Matrix: water							
Total Metals							
Magnesium (Mg)-Total	<0.001	<W	0.0050	mg/L		29-MAY-20	R5102695
Manganese (Mn)-Total	0.00002	<DL	0.00010	mg/L		29-MAY-20	R5102695
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092681
Molybdenum (Mo)-Total	<0.000005	<W	0.000050	mg/L		29-MAY-20	R5102695
Nickel (Ni)-Total	<0.00002	<W	0.00050	mg/L		29-MAY-20	R5102695
Phosphorus (P)-Total	<0.002	<W	0.050	mg/L		29-MAY-20	R5102695
Potassium (K)-Total	<0.002	<W	0.050	mg/L		29-MAY-20	R5102695
Rubidium (Rb)-Total	<0.000005	<W	0.00020	mg/L		29-MAY-20	R5102695
Selenium (Se)-Total	0.000015	<DL	0.000050	mg/L		29-MAY-20	R5102695
Silicon (Si)-Total	0.010	<DL	0.10	mg/L		29-MAY-20	R5102695
Silver (Ag)-Total	<0.000002	<W	0.000010	mg/L		29-MAY-20	R5102695
Sodium (Na)-Total	0.020	<DL	0.050	mg/L		29-MAY-20	R5102695
Strontium (Sr)-Total	0.000030	<DL	0.00020	mg/L		29-MAY-20	R5102695
Sulfur (S)-Total	<0.1	<W	0.50	mg/L		29-MAY-20	R5102695
Tellurium (Te)-Total	<0.000005	<W	0.00020	mg/L		29-MAY-20	R5102695
Thallium (Tl)-Total	<0.000001	<W	0.000010	mg/L		29-MAY-20	R5102695
Thorium (Th)-Total	<0.000005	<W	0.00010	mg/L		29-MAY-20	R5102695
Tin (Sn)-Total	0.00014		0.00010	mg/L		29-MAY-20	R5102695
Titanium (Ti)-Total	<0.00002	<W	0.00030	mg/L		29-MAY-20	R5102695
Tungsten (W)-Total	<0.000002	<W	0.00010	mg/L		29-MAY-20	R5102695
Uranium (U)-Total	<0.0000002	<W	0.000010	mg/L		29-MAY-20	R5102695
Vanadium (V)-Total	<0.00002	<W	0.00050	mg/L		29-MAY-20	R5102695
Zinc (Zn)-Total	<0.0005	<W	0.0030	mg/L		29-MAY-20	R5102695
Zirconium (Zr)-Total	<0.000002	<W	0.000060	mg/L		29-MAY-20	R5102695
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					01-JUN-20	R5103322
Aluminum (Al)-Dissolved	<0.0002	<W	0.0010	mg/L		01-JUN-20	R5103378
Antimony (Sb)-Dissolved	<0.000005	<W	0.00010	mg/L		01-JUN-20	R5103378
Arsenic (As)-Dissolved	<0.000005	<W	0.00010	mg/L		01-JUN-20	R5103378
Barium (Ba)-Dissolved	0.000010	<DL	0.00010	mg/L		01-JUN-20	R5103378
Beryllium (Be)-Dissolved	<0.000002	<W	0.00010	mg/L		01-JUN-20	R5103378
Bismuth (Bi)-Dissolved	<0.000001	<W	0.000050	mg/L		01-JUN-20	R5103378
Boron (B)-Dissolved	<0.0005	<W	0.010	mg/L		01-JUN-20	R5103378
Cadmium (Cd)-Dissolved	0.0000012	<DL	0.0000050	mg/L		01-JUN-20	R5103378
Calcium (Ca)-Dissolved	0.014	<DL	0.050	mg/L		01-JUN-20	R5103378
Cesium (Cs)-Dissolved	0.000003	<DL	0.000010	mg/L		01-JUN-20	R5103378
Chromium (Cr)-Dissolved	<0.00002	<W	0.00010	mg/L		01-JUN-20	R5103378
Cobalt (Co)-Dissolved	<0.000001	<W	0.00010	mg/L		01-JUN-20	R5103378
Copper (Cu)-Dissolved	<0.00002	<W	0.00020	mg/L		01-JUN-20	R5103378
Iron (Fe)-Dissolved	<0.0002	<W	0.010	mg/L		01-JUN-20	R5103378
Lead (Pb)-Dissolved	<0.000005	<W	0.000050	mg/L		01-JUN-20	R5103378

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-1 FIELD BLANK- SURFACE WATER Sampled By: client on 12-MAY-20 @ 12:00 Matrix: water							
Dissolved Metals							
Lithium (Li)-Dissolved	<0.00002	<W	0.0010	mg/L		01-JUN-20	R5103378
Magnesium (Mg)-Dissolved	<0.0005	<W	0.0050	mg/L		01-JUN-20	R5103378
Manganese (Mn)-Dissolved	<0.00002	<W	0.00010	mg/L		01-JUN-20	R5103378
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092738
Molybdenum (Mo)-Dissolved	<0.000002	<W	0.000050	mg/L		01-JUN-20	R5103378
Nickel (Ni)-Dissolved	<0.00002	<W	0.00050	mg/L		01-JUN-20	R5103378
Phosphorus (P)-Dissolved	<0.002	<W	0.050	mg/L		01-JUN-20	R5103378
Potassium (K)-Dissolved	<0.002	<W	0.050	mg/L		01-JUN-20	R5103378
Rubidium (Rb)-Dissolved	0.000002	<DL	0.00020	mg/L		01-JUN-20	R5103378
Selenium (Se)-Dissolved	<0.000005	<W	0.000050	mg/L		01-JUN-20	R5103378
Silicon (Si)-Dissolved	0.002	<DL	0.050	mg/L		01-JUN-20	R5103378
Silver (Ag)-Dissolved	<0.000001	<W	0.000010	mg/L		01-JUN-20	R5103378
Sodium (Na)-Dissolved	0.040	<DL	0.050	mg/L		01-JUN-20	R5103378
Strontium (Sr)-Dissolved	0.00002	<DL	0.00010	mg/L		01-JUN-20	R5103378
Sulfur (S)-Dissolved	<0.1	<W	0.50	mg/L		01-JUN-20	R5103378
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		01-JUN-20	R5103378
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		01-JUN-20	R5103378
Thorium (Th)-Dissolved	<0.00002	<W	0.00010	mg/L		01-JUN-20	R5103378
Tin (Sn)-Dissolved	0.00007	<DL	0.00010	mg/L		01-JUN-20	R5103378
Titanium (Ti)-Dissolved	<0.00002	<W	0.00030	mg/L		01-JUN-20	R5103378
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		01-JUN-20	R5103378
Uranium (U)-Dissolved	<0.0000002	<W	0.000010	mg/L		01-JUN-20	R5103378
Vanadium (V)-Dissolved	<0.00002	<W	0.00050	mg/L		01-JUN-20	R5103378
Zinc (Zn)-Dissolved	<0.0002	<W	0.0010	mg/L		01-JUN-20	R5103378
Zirconium (Zr)-Dissolved	<0.000002	<W	0.000060	mg/L		01-JUN-20	R5103378
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		15-MAY-20	R5092734
COD	<10		10	mg/L		21-MAY-20	R5094991
Oil and Grease, Total	<0.2	<W	1.0	mg/L	18-MAY-20	18-MAY-20	R5090418
L2447535-2 TRAVEL BLANK - SURFACE WATER Sampled By: client on 12-MAY-20 @ 12:00 Matrix: water							
Physical Tests							
Color, True	<2.0		2.0	CU		15-MAY-20	R5087700
Conductivity (EC)	0.6	<DL	1.0	uS/cm		15-MAY-20	R5089476
Hardness (as CaCO3)	<0.20		0.20	mg/L		05-JUN-20	
pH	5.87		0.10	pH		15-MAY-20	R5089476
Total Suspended Solids	<0.5	<W	2.0	mg/L		15-MAY-20	R5088642
Total Dissolved Solids	<2	<W	10	mg/L		15-MAY-20	R5088756
Turbidity	<0.10		0.10	NTU		15-MAY-20	R5087298
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		19-MAY-20	R5092571

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-2 TRAVEL BLANK - SURFACE WATER Sampled By: client on 12-MAY-20 @ 12:00 Matrix: water							
Anions and Nutrients							
Alkalinity, Total (as CaCO3)	0.6	<DL	2.0	mg/L		15-MAY-20	R5089476
Ammonia, Total (as N)	<0.002	<W	0.020	mg/L		21-MAY-20	R5094647
Chloride (Cl)	<0.10		0.10	mg/L	15-MAY-20	17-MAY-20	R5090800
Fluoride (F)	0.040		0.020	mg/L	15-MAY-20	17-MAY-20	R5090800
Nitrate (as N)	<0.002	<W	0.020	mg/L		17-MAY-20	R5090800
Nitrite (as N)	<0.001	<W	0.010	mg/L		17-MAY-20	R5090800
Total Kjeldahl Nitrogen	<0.05	<W	0.18	mg/L	22-MAY-20	22-MAY-20	R5095336
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		19-MAY-20	R5091180
Sulfate (SO4)	<0.05	<W	0.30	mg/L		17-MAY-20	R5090800
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Total	<0.0002	<W	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Free	<0.0001	<W	0.0020	mg/L		19-MAY-20	R5092542
Organic / Inorganic Carbon							
Dissolved Organic Carbon	0.20	<DL	0.50	mg/L		26-MAY-20	R5099171
Total Organic Carbon	<0.50		0.50	mg/L		22-MAY-20	R5095730
Total Metals							
Aluminum (Al)-Total	0.0008	<DL	0.0030	mg/L		29-MAY-20	R5102695
Antimony (Sb)-Total	<0.00002	<W	0.00010	mg/L		29-MAY-20	R5102695
Arsenic (As)-Total	<0.00001	<W	0.00010	mg/L		29-MAY-20	R5102695
Barium (Ba)-Total	<0.000005	<W	0.00010	mg/L		29-MAY-20	R5102695
Beryllium (Be)-Total	<0.000002	<W	0.00010	mg/L		29-MAY-20	R5102695
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		29-MAY-20	R5102695
Boron (B)-Total	<0.0005	<W	0.010	mg/L		29-MAY-20	R5102695
Cadmium (Cd)-Total	0.000002	<DL	0.0000050	mg/L		29-MAY-20	R5102695
Calcium (Ca)-Total	0.010	<DL	0.050	mg/L		29-MAY-20	R5102695
Cesium (Cs)-Total	<0.000001	<W	0.000010	mg/L		29-MAY-20	R5102695
Chromium (Cr)-Total	0.00004	<DL	0.00010	mg/L		29-MAY-20	R5102695
Cobalt (Co)-Total	<0.000002	<W	0.00010	mg/L		29-MAY-20	R5102695
Copper (Cu)-Total	0.00006	<DL	0.00050	mg/L		29-MAY-20	R5102695
Iron (Fe)-Total	0.001	<DL	0.010	mg/L		29-MAY-20	R5102695
Lead (Pb)-Total	0.000010	<DL	0.000050	mg/L		29-MAY-20	R5102695
Lithium (Li)-Total	0.00004	<DL	0.0010	mg/L		29-MAY-20	R5102695
Magnesium (Mg)-Total	0.003	<DL	0.0050	mg/L		29-MAY-20	R5102695
Manganese (Mn)-Total	0.00004	<DL	0.00010	mg/L		29-MAY-20	R5102695
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092681
Molybdenum (Mo)-Total	<0.000005	<W	0.000050	mg/L		29-MAY-20	R5102695
Nickel (Ni)-Total	<0.00002	<W	0.00050	mg/L		29-MAY-20	R5102695
Phosphorus (P)-Total	0.008	<DL	0.050	mg/L		29-MAY-20	R5102695
Potassium (K)-Total	<0.002	<W	0.050	mg/L		29-MAY-20	R5102695
Rubidium (Rb)-Total	<0.000005	<W	0.00020	mg/L		29-MAY-20	R5102695
Selenium (Se)-Total	0.000020	<DL	0.000050	mg/L		29-MAY-20	R5102695

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-2 TRAVEL BLANK - SURFACE WATER Sampled By: client on 12-MAY-20 @ 12:00 Matrix: water							
Total Metals							
Silicon (Si)-Total	<0.005	<W	0.10	mg/L		29-MAY-20	R5102695
Silver (Ag)-Total	<0.000002	<W	0.000010	mg/L		29-MAY-20	R5102695
Sodium (Na)-Total	<0.005	<W	0.050	mg/L		29-MAY-20	R5102695
Strontium (Sr)-Total	<0.000005	<W	0.00020	mg/L		29-MAY-20	R5102695
Sulfur (S)-Total	<0.1	<W	0.50	mg/L		29-MAY-20	R5102695
Tellurium (Te)-Total	0.000005	<DL	0.00020	mg/L		29-MAY-20	R5102695
Thallium (Tl)-Total	<0.000001	<W	0.000010	mg/L		29-MAY-20	R5102695
Thorium (Th)-Total	<0.000005	<W	0.00010	mg/L		29-MAY-20	R5102695
Tin (Sn)-Total	0.00012		0.00010	mg/L		29-MAY-20	R5102695
Titanium (Ti)-Total	<0.00002	<W	0.00030	mg/L		29-MAY-20	R5102695
Tungsten (W)-Total	<0.000002	<W	0.00010	mg/L		29-MAY-20	R5102695
Uranium (U)-Total	<0.0000002	<W	0.000010	mg/L		29-MAY-20	R5102695
Vanadium (V)-Total	<0.00002	<W	0.00050	mg/L		29-MAY-20	R5102695
Zinc (Zn)-Total	<0.0005	<W	0.0030	mg/L		29-MAY-20	R5102695
Zirconium (Zr)-Total	<0.000002	<W	0.000060	mg/L		29-MAY-20	R5102695
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					01-JUN-20	R5103322
Aluminum (Al)-Dissolved	<0.0002	<W	0.0010	mg/L		01-JUN-20	R5103378
Antimony (Sb)-Dissolved	<0.000005	<W	0.00010	mg/L		01-JUN-20	R5103378
Arsenic (As)-Dissolved	<0.000005	<W	0.00010	mg/L		01-JUN-20	R5103378
Barium (Ba)-Dissolved	0.000015	<DL	0.00010	mg/L		01-JUN-20	R5103378
Beryllium (Be)-Dissolved	<0.000002	<W	0.00010	mg/L		01-JUN-20	R5103378
Bismuth (Bi)-Dissolved	<0.000001	<W	0.000050	mg/L		01-JUN-20	R5103378
Boron (B)-Dissolved	<0.0005	<W	0.010	mg/L		01-JUN-20	R5103378
Cadmium (Cd)-Dissolved	0.0000006	<DL	0.0000050	mg/L		01-JUN-20	R5103378
Calcium (Ca)-Dissolved	0.008	<DL	0.050	mg/L		01-JUN-20	R5103378
Cesium (Cs)-Dissolved	0.000002	<DL	0.000010	mg/L		01-JUN-20	R5103378
Chromium (Cr)-Dissolved	<0.00002	<W	0.00010	mg/L		01-JUN-20	R5103378
Cobalt (Co)-Dissolved	<0.000001	<W	0.00010	mg/L		01-JUN-20	R5103378
Copper (Cu)-Dissolved	0.00040	<T	0.00020	mg/L		01-JUN-20	R5103378
Iron (Fe)-Dissolved	0.0008	<DL	0.010	mg/L		01-JUN-20	R5103378
Lead (Pb)-Dissolved	0.000010	<DL	0.000050	mg/L		01-JUN-20	R5103378
Lithium (Li)-Dissolved	<0.00002	<W	0.0010	mg/L		01-JUN-20	R5103378
Magnesium (Mg)-Dissolved	0.0010	<DL	0.0050	mg/L		01-JUN-20	R5103378
Manganese (Mn)-Dissolved	<0.00002	<W	0.00010	mg/L		01-JUN-20	R5103378
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092738
Molybdenum (Mo)-Dissolved	<0.000002	<W	0.000050	mg/L		01-JUN-20	R5103378
Nickel (Ni)-Dissolved	<0.00002	<W	0.00050	mg/L		01-JUN-20	R5103378
Phosphorus (P)-Dissolved	<0.002	<W	0.050	mg/L		01-JUN-20	R5103378
Potassium (K)-Dissolved	<0.002	<W	0.050	mg/L		01-JUN-20	R5103378
Rubidium (Rb)-Dissolved	<0.000002	<W	0.00020	mg/L		01-JUN-20	R5103378

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-2 TRAVEL BLANK - SURFACE WATER Sampled By: client on 12-MAY-20 @ 12:00 Matrix: water							
Dissolved Metals							
Selenium (Se)-Dissolved	<0.000005	<W	0.000050	mg/L		01-JUN-20	R5103378
Silicon (Si)-Dissolved	<0.001	<W	0.050	mg/L		01-JUN-20	R5103378
Silver (Ag)-Dissolved	<0.000001	<W	0.000010	mg/L		01-JUN-20	R5103378
Sodium (Na)-Dissolved	<0.005	<W	0.050	mg/L		01-JUN-20	R5103378
Strontium (Sr)-Dissolved	0.00002	<DL	0.00010	mg/L		01-JUN-20	R5103378
Sulfur (S)-Dissolved	<0.1	<W	0.50	mg/L		01-JUN-20	R5103378
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		01-JUN-20	R5103378
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		01-JUN-20	R5103378
Thorium (Th)-Dissolved	<0.00002	<W	0.00010	mg/L		01-JUN-20	R5103378
Tin (Sn)-Dissolved	0.00005	<DL	0.00010	mg/L		01-JUN-20	R5103378
Titanium (Ti)-Dissolved	<0.00002	<W	0.00030	mg/L		01-JUN-20	R5103378
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		01-JUN-20	R5103378
Uranium (U)-Dissolved	<0.0000002	<W	0.000010	mg/L		01-JUN-20	R5103378
Vanadium (V)-Dissolved	<0.00002	<W	0.00050	mg/L		01-JUN-20	R5103378
Zinc (Zn)-Dissolved	0.0006	<DL	0.0010	mg/L		01-JUN-20	R5103378
Zirconium (Zr)-Dissolved	<0.000002	<W	0.000060	mg/L		01-JUN-20	R5103378
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		15-MAY-20	R5092734
COD	<10		10	mg/L		21-MAY-20	R5094991
Oil and Grease, Total	<0.2	<W	1.0	mg/L	18-MAY-20	18-MAY-20	R5090418
L2447535-3 SW16 Sampled By: client on 12-MAY-20 @ 09:40 Matrix: water							
Field Tests							
Dissolved Oxygen, Client Supplied	8.47		0	mg/L		19-MAY-20	R5090757
pH, Client Supplied	7.48		0.10	pH		19-MAY-20	R5090757
Temperature, Client Supplied	8.91		0	Degree C		19-MAY-20	R5090757
Physical Tests							
Color, True	74.4		2.0	CU		15-MAY-20	R5087700
Conductivity (EC)	92.6		1.0	uS/cm		15-MAY-20	R5089476
Hardness (as CaCO3)	41.1		0.20	mg/L		05-JUN-20	
pH	7.56		0.10	pH		15-MAY-20	R5089476
Total Suspended Solids	5.5		2.0	mg/L		15-MAY-20	R5088642
Total Dissolved Solids	64		13	mg/L		15-MAY-20	R5088756
Turbidity	3.87		0.10	NTU		15-MAY-20	R5087298
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		19-MAY-20	R5092571
Alkalinity, Total (as CaCO3)	37.8		2.0	mg/L		15-MAY-20	R5089476
Ammonia, Total (as N)	0.022	<T	0.020	mg/L		21-MAY-20	R5094647
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		22-MAY-20	
Chloride (Cl)	3.61		0.10	mg/L	15-MAY-20	15-MAY-20	R5089517
Fluoride (F)	0.049		0.020	mg/L	15-MAY-20	15-MAY-20	R5089517

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-3 SW16							
Sampled By: client on 12-MAY-20 @ 09:40							
Matrix: water							
Anions and Nutrients							
Nitrate (as N)	0.036	<T	0.020	mg/L		15-MAY-20	R5089517
Nitrite (as N)	<0.001	<W	0.010	mg/L		15-MAY-20	R5089517
Total Kjeldahl Nitrogen	0.55		0.18	mg/L	22-MAY-20	22-MAY-20	R5095336
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		19-MAY-20	R5091180
Sulfate (SO4)	5.80		0.30	mg/L		15-MAY-20	R5089517
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Total	0.0004	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Free	0.0004	<DL	0.0020	mg/L		19-MAY-20	R5092542
Organic / Inorganic Carbon							
Dissolved Organic Carbon	13.5		0.50	mg/L		26-MAY-20	R5099171
Total Organic Carbon	18.2	DLM	2.5	mg/L		22-MAY-20	R5095730
Total Metals							
Aluminum (Al)-Total	0.188		0.0030	mg/L		29-MAY-20	R5102695
Antimony (Sb)-Total	<0.00002	<W	0.00010	mg/L		29-MAY-20	R5102695
Arsenic (As)-Total	0.00051	<T	0.00010	mg/L		29-MAY-20	R5102695
Barium (Ba)-Total	0.0124		0.00010	mg/L		29-MAY-20	R5102695
Beryllium (Be)-Total	0.000020	<DL	0.00010	mg/L		29-MAY-20	R5102695
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		29-MAY-20	R5102695
Boron (B)-Total	0.0050	<DL	0.010	mg/L		29-MAY-20	R5102695
Cadmium (Cd)-Total	0.000012	<T	0.0000050	mg/L		29-MAY-20	R5102695
Calcium (Ca)-Total	10.9		0.050	mg/L		29-MAY-20	R5102695
Cesium (Cs)-Total	0.000027		0.000010	mg/L		29-MAY-20	R5102695
Chromium (Cr)-Total	0.00058	<T	0.00010	mg/L		29-MAY-20	R5102695
Cobalt (Co)-Total	0.000134	<T	0.00010	mg/L		29-MAY-20	R5102695
Copper (Cu)-Total	0.00160	<T	0.00050	mg/L		29-MAY-20	R5102695
Iron (Fe)-Total	0.356		0.010	mg/L		29-MAY-20	R5102695
Lead (Pb)-Total	0.000175	<T	0.000050	mg/L		29-MAY-20	R5102695
Lithium (Li)-Total	0.00156	<T	0.0010	mg/L		29-MAY-20	R5102695
Magnesium (Mg)-Total	4.06		0.0050	mg/L		29-MAY-20	R5102695
Manganese (Mn)-Total	0.0164		0.00010	mg/L		29-MAY-20	R5102695
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092681
Molybdenum (Mo)-Total	0.000225	<T	0.000050	mg/L		29-MAY-20	R5102695
Nickel (Ni)-Total	0.00104	<T	0.00050	mg/L		29-MAY-20	R5102695
Phosphorus (P)-Total	0.008	<DL	0.050	mg/L		29-MAY-20	R5102695
Potassium (K)-Total	0.896		0.050	mg/L		29-MAY-20	R5102695
Rubidium (Rb)-Total	0.00206		0.00020	mg/L		29-MAY-20	R5102695
Selenium (Se)-Total	0.000120		0.000050	mg/L		29-MAY-20	R5102695
Silicon (Si)-Total	2.48		0.10	mg/L		29-MAY-20	R5102695
Silver (Ag)-Total	0.000002	<DL	0.000010	mg/L		29-MAY-20	R5102695
Sodium (Na)-Total	4.18		0.050	mg/L		29-MAY-20	R5102695
Strontium (Sr)-Total	0.0269		0.00020	mg/L		29-MAY-20	R5102695

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-3 SW16							
Sampled By: client on 12-MAY-20 @ 09:40							
Matrix: water							
Total Metals							
Sulfur (S)-Total	1.7		0.50	mg/L		29-MAY-20	R5102695
Tellurium (Te)-Total	0.000010	<DL	0.00020	mg/L		29-MAY-20	R5102695
Thallium (Tl)-Total	0.000005	<DL	0.000010	mg/L		29-MAY-20	R5102695
Thorium (Th)-Total	0.000035	<DL	0.00010	mg/L		29-MAY-20	R5102695
Tin (Sn)-Total	0.00026		0.00010	mg/L		29-MAY-20	R5102695
Titanium (Ti)-Total	0.00488		0.00030	mg/L		29-MAY-20	R5102695
Tungsten (W)-Total	0.000008	<DL	0.00010	mg/L		29-MAY-20	R5102695
Uranium (U)-Total	0.000154	<T	0.000010	mg/L		29-MAY-20	R5102695
Vanadium (V)-Total	0.00072	<T	0.00050	mg/L		29-MAY-20	R5102695
Zinc (Zn)-Total	0.0035	<T	0.0030	mg/L		29-MAY-20	R5102695
Zirconium (Zr)-Total	0.000276		0.000060	mg/L		29-MAY-20	R5102695
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					01-JUN-20	R5103322
Aluminum (Al)-Dissolved	0.0512		0.0010	mg/L		01-JUN-20	R5103378
Antimony (Sb)-Dissolved	0.000030	<DL	0.00010	mg/L		01-JUN-20	R5103378
Arsenic (As)-Dissolved	0.000485	<T	0.00010	mg/L		01-JUN-20	R5103378
Barium (Ba)-Dissolved	0.0105		0.00010	mg/L		01-JUN-20	R5103378
Beryllium (Be)-Dissolved	0.000006	<DL	0.00010	mg/L		01-JUN-20	R5103378
Bismuth (Bi)-Dissolved	0.000001	<DL	0.000050	mg/L		01-JUN-20	R5103378
Boron (B)-Dissolved	0.0035	<DL	0.010	mg/L		01-JUN-20	R5103378
Cadmium (Cd)-Dissolved	0.0000072	<T	0.0000050	mg/L		01-JUN-20	R5103378
Calcium (Ca)-Dissolved	10.2		0.050	mg/L		01-JUN-20	R5103378
Cesium (Cs)-Dissolved	0.000003	<DL	0.000010	mg/L		01-JUN-20	R5103378
Chromium (Cr)-Dissolved	0.00028	<T	0.00010	mg/L		01-JUN-20	R5103378
Cobalt (Co)-Dissolved	0.000054	<DL	0.00010	mg/L		01-JUN-20	R5103378
Copper (Cu)-Dissolved	0.00094	<T	0.00020	mg/L		01-JUN-20	R5103378
Iron (Fe)-Dissolved	0.166		0.010	mg/L		01-JUN-20	R5103378
Lead (Pb)-Dissolved	0.000065	<T	0.000050	mg/L		01-JUN-20	R5103378
Lithium (Li)-Dissolved	0.00138	<T	0.0010	mg/L		01-JUN-20	R5103378
Magnesium (Mg)-Dissolved	3.81		0.0050	mg/L		01-JUN-20	R5103378
Manganese (Mn)-Dissolved	0.00860		0.00010	mg/L		01-JUN-20	R5103378
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092738
Molybdenum (Mo)-Dissolved	0.000196	<T	0.000050	mg/L		01-JUN-20	R5103378
Nickel (Ni)-Dissolved	0.00078	<T	0.00050	mg/L		01-JUN-20	R5103378
Phosphorus (P)-Dissolved	0.006	<DL	0.050	mg/L		01-JUN-20	R5103378
Potassium (K)-Dissolved	0.860		0.050	mg/L		01-JUN-20	R5103378
Rubidium (Rb)-Dissolved	0.00160		0.00020	mg/L		01-JUN-20	R5103378
Selenium (Se)-Dissolved	0.000110		0.000050	mg/L		01-JUN-20	R5103378
Silicon (Si)-Dissolved	2.12		0.050	mg/L		01-JUN-20	R5103378
Silver (Ag)-Dissolved	0.000001	<DL	0.000010	mg/L		01-JUN-20	R5103378
Sodium (Na)-Dissolved	4.01		0.050	mg/L		01-JUN-20	R5103378

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-3 SW16 Sampled By: client on 12-MAY-20 @ 09:40 Matrix: water							
Dissolved Metals							
Strontium (Sr)-Dissolved	0.0253		0.00010	mg/L		01-JUN-20	R5103378
Sulfur (S)-Dissolved	1.8		0.50	mg/L		01-JUN-20	R5103378
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		01-JUN-20	R5103378
Thallium (Tl)-Dissolved	0.000002	<DL	0.00010	mg/L		01-JUN-20	R5103378
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		01-JUN-20	R5103378
Tin (Sn)-Dissolved	0.00018		0.00010	mg/L		01-JUN-20	R5103378
Titanium (Ti)-Dissolved	0.00148		0.00030	mg/L		01-JUN-20	R5103378
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		01-JUN-20	R5103378
Uranium (U)-Dissolved	0.000128	<T	0.000010	mg/L		01-JUN-20	R5103378
Vanadium (V)-Dissolved	0.00038	<DL	0.00050	mg/L		01-JUN-20	R5103378
Zinc (Zn)-Dissolved	0.0010	<T	0.0010	mg/L		01-JUN-20	R5103378
Zirconium (Zr)-Dissolved	0.000210		0.000060	mg/L		01-JUN-20	R5103378
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		15-MAY-20	R5092734
COD	36		10	mg/L		21-MAY-20	R5094991
Oil and Grease, Total	<0.2	<W	1.0	mg/L	18-MAY-20	18-MAY-20	R5090418
Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2447535-4 SW17 Sampled By: client on 12-MAY-20 @ 11:10 Matrix: water							
Field Tests							
Dissolved Oxygen, Client Supplied	6.98		0	mg/L		19-MAY-20	R5090757
pH, Client Supplied	8.05		0.10	pH		19-MAY-20	R5090757
Temperature, Client Supplied	11.67		0	Degree C		19-MAY-20	R5090757
Physical Tests							
Color, True	107		2.0	CU		15-MAY-20	R5087700
Conductivity (EC)	114		1.0	uS/cm		15-MAY-20	R5089476
Hardness (as CaCO3)	56.9		0.20	mg/L		05-JUN-20	
pH	7.66		0.10	pH		15-MAY-20	R5089476
Total Suspended Solids	9.0		2.0	mg/L		15-MAY-20	R5088642
Total Dissolved Solids	92		13	mg/L		15-MAY-20	R5088756
Turbidity	5.67		0.10	NTU		15-MAY-20	R5087298
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		19-MAY-20	R5092571
Alkalinity, Total (as CaCO3)	51.4		2.0	mg/L		15-MAY-20	R5089476
Ammonia, Total (as N)	0.018	<DL	0.020	mg/L		21-MAY-20	R5094647
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		22-MAY-20	
Chloride (Cl)	2.76		0.10	mg/L	15-MAY-20	15-MAY-20	R5089517
Fluoride (F)	0.045		0.020	mg/L	15-MAY-20	15-MAY-20	R5089517
Nitrate (as N)	0.036	<T	0.020	mg/L		15-MAY-20	R5089517
Nitrite (as N)	<0.001	<W	0.010	mg/L		15-MAY-20	R5089517
Total Kjeldahl Nitrogen	0.65		0.18	mg/L	22-MAY-20	22-MAY-20	R5095336

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-4 SW17							
Sampled By: client on 12-MAY-20 @ 11:10							
Matrix: water							
Anions and Nutrients							
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		19-MAY-20	R5091180
Sulfate (SO4)	5.50		0.30	mg/L		15-MAY-20	R5089517
Cyanides							
Cyanide, Weak Acid Diss	0.0007	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Total	0.0006	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Free	0.0008	<DL	0.0020	mg/L		19-MAY-20	R5092542
Organic / Inorganic Carbon							
Dissolved Organic Carbon	18.0		0.50	mg/L		26-MAY-20	R5099171
Total Organic Carbon	23.6	DLM	2.5	mg/L		22-MAY-20	R5095730
Total Metals							
Aluminum (Al)-Total	0.235		0.0030	mg/L		29-MAY-20	R5102695
Antimony (Sb)-Total	0.00004	<DL	0.00010	mg/L		29-MAY-20	R5102695
Arsenic (As)-Total	0.00069	<T	0.00010	mg/L		29-MAY-20	R5102695
Barium (Ba)-Total	0.0148		0.00010	mg/L		29-MAY-20	R5102695
Beryllium (Be)-Total	0.000016	<DL	0.00010	mg/L		29-MAY-20	R5102695
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		29-MAY-20	R5102695
Boron (B)-Total	0.0065	<DL	0.010	mg/L		29-MAY-20	R5102695
Cadmium (Cd)-Total	0.000012	<T	0.0000050	mg/L		29-MAY-20	R5102695
Calcium (Ca)-Total	14.7		0.050	mg/L		29-MAY-20	R5102695
Cesium (Cs)-Total	0.000036		0.000010	mg/L		29-MAY-20	R5102695
Chromium (Cr)-Total	0.00060	<T	0.00010	mg/L		29-MAY-20	R5102695
Cobalt (Co)-Total	0.000190	<T	0.00010	mg/L		29-MAY-20	R5102695
Copper (Cu)-Total	0.00110	<T	0.00050	mg/L		29-MAY-20	R5102695
Iron (Fe)-Total	0.453		0.010	mg/L		29-MAY-20	R5102695
Lead (Pb)-Total	0.000195	<T	0.000050	mg/L		29-MAY-20	R5102695
Lithium (Li)-Total	0.00212	<T	0.0010	mg/L		29-MAY-20	R5102695
Magnesium (Mg)-Total	5.57		0.0050	mg/L		29-MAY-20	R5102695
Manganese (Mn)-Total	0.0290		0.00010	mg/L		29-MAY-20	R5102695
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		20-MAY-20	R5092681
Molybdenum (Mo)-Total	0.000240	<T	0.000050	mg/L		29-MAY-20	R5102695
Nickel (Ni)-Total	0.00108	<T	0.00050	mg/L		29-MAY-20	R5102695
Phosphorus (P)-Total	0.012	<DL	0.050	mg/L		29-MAY-20	R5102695
Potassium (K)-Total	0.986		0.050	mg/L		29-MAY-20	R5102695
Rubidium (Rb)-Total	0.00208		0.00020	mg/L		29-MAY-20	R5102695
Selenium (Se)-Total	0.000125		0.000050	mg/L		29-MAY-20	R5102695
Silicon (Si)-Total	2.62		0.10	mg/L		29-MAY-20	R5102695
Silver (Ag)-Total	0.000002	<DL	0.000010	mg/L		29-MAY-20	R5102695
Sodium (Na)-Total	3.58		0.050	mg/L		29-MAY-20	R5102695
Strontium (Sr)-Total	0.0320		0.00020	mg/L		29-MAY-20	R5102695
Sulfur (S)-Total	1.9		0.50	mg/L		29-MAY-20	R5102695
Tellurium (Te)-Total	0.000015	<DL	0.00020	mg/L		29-MAY-20	R5102695
Thallium (Tl)-Total	0.000005	<DL	0.000010	mg/L		29-MAY-20	R5102695

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-4 SW17							
Sampled By: client on 12-MAY-20 @ 11:10							
Matrix: water							
Total Metals							
Thorium (Th)-Total	0.000050	<DL	0.00010	mg/L		29-MAY-20	R5102695
Tin (Sn)-Total	0.00052		0.00010	mg/L		29-MAY-20	R5102695
Titanium (Ti)-Total	0.00658		0.00030	mg/L		29-MAY-20	R5102695
Tungsten (W)-Total	0.000004	<DL	0.00010	mg/L		29-MAY-20	R5102695
Uranium (U)-Total	0.000196	<T	0.000010	mg/L		29-MAY-20	R5102695
Vanadium (V)-Total	0.00090	<T	0.00050	mg/L		29-MAY-20	R5102695
Zinc (Zn)-Total	0.0025	<DL	0.0030	mg/L		29-MAY-20	R5102695
Zirconium (Zr)-Total	0.000310		0.000060	mg/L		29-MAY-20	R5102695
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					01-JUN-20	R5103322
Aluminum (Al)-Dissolved	0.0450		0.0010	mg/L		01-JUN-20	R5103378
Antimony (Sb)-Dissolved	0.000065	<DL	0.00010	mg/L		01-JUN-20	R5103378
Arsenic (As)-Dissolved	0.000630	<T	0.00010	mg/L		01-JUN-20	R5103378
Barium (Ba)-Dissolved	0.0128		0.00010	mg/L		01-JUN-20	R5103378
Beryllium (Be)-Dissolved	0.000006	<DL	0.00010	mg/L		01-JUN-20	R5103378
Bismuth (Bi)-Dissolved	<0.000001	<W	0.000050	mg/L		01-JUN-20	R5103378
Boron (B)-Dissolved	0.0045	<DL	0.010	mg/L		01-JUN-20	R5103378
Cadmium (Cd)-Dissolved	0.0000078	<T	0.0000050	mg/L		01-JUN-20	R5103378
Calcium (Ca)-Dissolved	14.0		0.050	mg/L		01-JUN-20	R5103378
Cesium (Cs)-Dissolved	0.000002	<DL	0.000010	mg/L		01-JUN-20	R5103378
Chromium (Cr)-Dissolved	0.00022	<T	0.00010	mg/L		01-JUN-20	R5103378
Cobalt (Co)-Dissolved	0.000080	<DL	0.00010	mg/L		01-JUN-20	R5103378
Copper (Cu)-Dissolved	0.00086	<T	0.00020	mg/L		01-JUN-20	R5103378
Iron (Fe)-Dissolved	0.199		0.010	mg/L		01-JUN-20	R5103378
Lead (Pb)-Dissolved	0.000070	<T	0.000050	mg/L		01-JUN-20	R5103378
Lithium (Li)-Dissolved	0.00190	<T	0.0010	mg/L		01-JUN-20	R5103378
Magnesium (Mg)-Dissolved	5.32		0.0050	mg/L		01-JUN-20	R5103378
Manganese (Mn)-Dissolved	0.0189		0.00010	mg/L		01-JUN-20	R5103378
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092738
Molybdenum (Mo)-Dissolved	0.000236	<T	0.000050	mg/L		01-JUN-20	R5103378
Nickel (Ni)-Dissolved	0.00078	<T	0.00050	mg/L		01-JUN-20	R5103378
Phosphorus (P)-Dissolved	0.006	<DL	0.050	mg/L		01-JUN-20	R5103378
Potassium (K)-Dissolved	0.958		0.050	mg/L		01-JUN-20	R5103378
Rubidium (Rb)-Dissolved	0.00148		0.00020	mg/L		01-JUN-20	R5103378
Selenium (Se)-Dissolved	0.000070		0.000050	mg/L		01-JUN-20	R5103378
Silicon (Si)-Dissolved	2.20		0.050	mg/L		01-JUN-20	R5103378
Silver (Ag)-Dissolved	0.000001	<DL	0.000010	mg/L		01-JUN-20	R5103378
Sodium (Na)-Dissolved	3.50		0.050	mg/L		01-JUN-20	R5103378
Strontium (Sr)-Dissolved	0.0296		0.00010	mg/L		01-JUN-20	R5103378
Sulfur (S)-Dissolved	1.8		0.50	mg/L		01-JUN-20	R5103378
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		01-JUN-20	R5103378

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-4 SW17 Sampled By: client on 12-MAY-20 @ 11:10 Matrix: water							
Dissolved Metals							
Thallium (Tl)-Dissolved	0.000003	<DL	0.000010	mg/L		01-JUN-20	R5103378
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		01-JUN-20	R5103378
Tin (Sn)-Dissolved	0.00005	<DL	0.00010	mg/L		01-JUN-20	R5103378
Titanium (Ti)-Dissolved	0.00072		0.00030	mg/L		01-JUN-20	R5103378
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		01-JUN-20	R5103378
Uranium (U)-Dissolved	0.000159	<T	0.000010	mg/L		01-JUN-20	R5103378
Vanadium (V)-Dissolved	0.00038	<DL	0.00050	mg/L		01-JUN-20	R5103378
Zinc (Zn)-Dissolved	0.0010	<T	0.0010	mg/L		01-JUN-20	R5103378
Zirconium (Zr)-Dissolved	0.000212		0.000060	mg/L		01-JUN-20	R5103378
Aggregate Organics							
Biochemical Oxygen Demand	2.7		2.0	mg/L		15-MAY-20	R5092734
COD	50		10	mg/L		21-MAY-20	R5094991
Oil and Grease, Total	<0.2	<W	1.0	mg/L	18-MAY-20	18-MAY-20	R5090418
Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2447535-5 SW15 Sampled By: client on 12-MAY-20 @ 14:00 Matrix: water							
Field Tests							
Dissolved Oxygen, Client Supplied	5.98		0	mg/L		19-MAY-20	R5090757
pH, Client Supplied	7.99		0.10	pH		19-MAY-20	R5090757
Temperature, Client Supplied	11.03		0	Degree C		19-MAY-20	R5090757
Physical Tests							
Color, True	158		2.0	CU		15-MAY-20	R5087700
Conductivity (EC)	210		1.0	uS/cm		15-MAY-20	R5089476
Hardness (as CaCO3)	105		0.20	mg/L		05-JUN-20	
pH	7.83		0.10	pH		15-MAY-20	R5089476
Total Suspended Solids	16.0		3.0	mg/L		16-MAY-20	R5090216
Total Dissolved Solids	156		13	mg/L		16-MAY-20	R5090236
Turbidity	15.0		0.10	NTU		15-MAY-20	R5087298
Anions and Nutrients							
Acidity (as CaCO3)	0.4	<DL	2.0	mg/L		19-MAY-20	R5092571
Alkalinity, Total (as CaCO3)	77.6		2.0	mg/L		15-MAY-20	R5089476
Ammonia, Total (as N)	0.068	<T	0.020	mg/L		21-MAY-20	R5094647
Ammonia, Un-ionized (as N)	0.001	<DL	0.010	mg/L		22-MAY-20	
Chloride (Cl)	2.44		0.10	mg/L	15-MAY-20	17-MAY-20	R5090800
Fluoride (F)	0.044		0.020	mg/L	15-MAY-20	17-MAY-20	R5090800
Nitrate (as N)	0.264		0.020	mg/L		17-MAY-20	R5090800
Nitrite (as N)	0.009	<DL	0.010	mg/L		17-MAY-20	R5090800
Total Kjeldahl Nitrogen	1.00		0.18	mg/L	22-MAY-20	22-MAY-20	R5095336
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		19-MAY-20	R5091180
Sulfate (SO4)	28.3		0.30	mg/L		17-MAY-20	R5090800
Cyanides							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-5 SW15							
Sampled By: client on 12-MAY-20 @ 14:00							
Matrix: water							
Cyanides							
Cyanide, Weak Acid Diss	0.0010	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Total	0.0010	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Free	0.0007	<DL	0.0020	mg/L		19-MAY-20	R5092542
Organic / Inorganic Carbon							
Dissolved Organic Carbon	25.5		0.50	mg/L		26-MAY-20	R5099171
Total Organic Carbon	35.6	DLM	2.5	mg/L		22-MAY-20	R5095730
Total Metals							
Aluminum (Al)-Total	0.602		0.0030	mg/L		29-MAY-20	R5102695
Antimony (Sb)-Total	0.00068	<T	0.00010	mg/L		29-MAY-20	R5102695
Arsenic (As)-Total	0.00108	<T	0.00010	mg/L		29-MAY-20	R5102695
Barium (Ba)-Total	0.0200		0.00010	mg/L		29-MAY-20	R5102695
Beryllium (Be)-Total	0.000040	<DL	0.00010	mg/L		29-MAY-20	R5102695
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		29-MAY-20	R5102695
Boron (B)-Total	0.0120	<T	0.010	mg/L		29-MAY-20	R5102695
Cadmium (Cd)-Total	0.000020	<T	0.000050	mg/L		29-MAY-20	R5102695
Calcium (Ca)-Total	25.8		0.050	mg/L		29-MAY-20	R5102695
Cesium (Cs)-Total	0.000107		0.000010	mg/L		29-MAY-20	R5102695
Chromium (Cr)-Total	0.00116	<T	0.00010	mg/L		29-MAY-20	R5102695
Cobalt (Co)-Total	0.000556	<T	0.00010	mg/L		29-MAY-20	R5102695
Copper (Cu)-Total	0.00204	<T	0.00050	mg/L		29-MAY-20	R5102695
Iron (Fe)-Total	0.915		0.010	mg/L		29-MAY-20	R5102695
Lead (Pb)-Total	0.000410	<T	0.000050	mg/L		29-MAY-20	R5102695
Lithium (Li)-Total	0.00504	<T	0.0010	mg/L		29-MAY-20	R5102695
Magnesium (Mg)-Total	11.2		0.0050	mg/L		29-MAY-20	R5102695
Manganese (Mn)-Total	0.0505		0.00010	mg/L		29-MAY-20	R5102695
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092681
Molybdenum (Mo)-Total	0.000640	<T	0.000050	mg/L		29-MAY-20	R5102695
Nickel (Ni)-Total	0.00192	<T	0.00050	mg/L		29-MAY-20	R5102695
Phosphorus (P)-Total	0.028	<DL	0.050	mg/L		29-MAY-20	R5102695
Potassium (K)-Total	3.06		0.050	mg/L		29-MAY-20	R5102695
Rubidium (Rb)-Total	0.00337		0.00020	mg/L		29-MAY-20	R5102695
Selenium (Se)-Total	0.000130		0.000050	mg/L		29-MAY-20	R5102695
Silicon (Si)-Total	3.08		0.10	mg/L		29-MAY-20	R5102695
Silver (Ag)-Total	0.000004	<DL	0.000010	mg/L		29-MAY-20	R5102695
Sodium (Na)-Total	6.31		0.050	mg/L		29-MAY-20	R5102695
Strontium (Sr)-Total	0.0605		0.00020	mg/L		29-MAY-20	R5102695
Sulfur (S)-Total	9.9		0.50	mg/L		29-MAY-20	R5102695
Tellurium (Te)-Total	0.000015	<DL	0.00020	mg/L		29-MAY-20	R5102695
Thallium (Tl)-Total	0.000013	<T	0.000010	mg/L		29-MAY-20	R5102695
Thorium (Th)-Total	0.000115		0.00010	mg/L		29-MAY-20	R5102695
Tin (Sn)-Total	0.00010		0.00010	mg/L		29-MAY-20	R5102695

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-5 SW15							
Sampled By: client on 12-MAY-20 @ 14:00							
Matrix: water							
Total Metals							
Titanium (Ti)-Total	0.0190		0.00030	mg/L		29-MAY-20	R5102695
Tungsten (W)-Total	0.000010	<DL	0.00010	mg/L		29-MAY-20	R5102695
Uranium (U)-Total	0.000608	<T	0.000010	mg/L		29-MAY-20	R5102695
Vanadium (V)-Total	0.00208	<T	0.00050	mg/L		29-MAY-20	R5102695
Zinc (Zn)-Total	0.0045	<T	0.0030	mg/L		29-MAY-20	R5102695
Zirconium (Zr)-Total	0.000680		0.000060	mg/L		29-MAY-20	R5102695
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					01-JUN-20	R5103322
Aluminum (Al)-Dissolved	0.0428		0.0010	mg/L		01-JUN-20	R5103378
Antimony (Sb)-Dissolved	0.000775	<T	0.00010	mg/L		01-JUN-20	R5103378
Arsenic (As)-Dissolved	0.000915	<T	0.00010	mg/L		01-JUN-20	R5103378
Barium (Ba)-Dissolved	0.0153		0.00010	mg/L		01-JUN-20	R5103378
Beryllium (Be)-Dissolved	0.000008	<DL	0.00010	mg/L		01-JUN-20	R5103378
Bismuth (Bi)-Dissolved	0.000003	<DL	0.000050	mg/L		01-JUN-20	R5103378
Boron (B)-Dissolved	0.0095	<DL	0.010	mg/L		01-JUN-20	R5103378
Cadmium (Cd)-Dissolved	0.0000120	<T	0.0000050	mg/L		01-JUN-20	R5103378
Calcium (Ca)-Dissolved	24.9		0.050	mg/L		01-JUN-20	R5103378
Cesium (Cs)-Dissolved	0.000008	<DL	0.000010	mg/L		01-JUN-20	R5103378
Chromium (Cr)-Dissolved	0.00014	<T	0.00010	mg/L		01-JUN-20	R5103378
Cobalt (Co)-Dissolved	0.000240	<T	0.00010	mg/L		01-JUN-20	R5103378
Copper (Cu)-Dissolved	0.00138	<T	0.00020	mg/L		01-JUN-20	R5103378
Iron (Fe)-Dissolved	0.222		0.010	mg/L		01-JUN-20	R5103378
Lead (Pb)-Dissolved	0.000085	<T	0.000050	mg/L		01-JUN-20	R5103378
Lithium (Li)-Dissolved	0.00448	<T	0.0010	mg/L		01-JUN-20	R5103378
Magnesium (Mg)-Dissolved	10.5		0.0050	mg/L		01-JUN-20	R5103378
Manganese (Mn)-Dissolved	0.0363		0.00010	mg/L		01-JUN-20	R5103378
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092738
Molybdenum (Mo)-Dissolved	0.000602	<T	0.000050	mg/L		01-JUN-20	R5103378
Nickel (Ni)-Dissolved	0.00106	<T	0.00050	mg/L		01-JUN-20	R5103378
Phosphorus (P)-Dissolved	0.014	<DL	0.050	mg/L		01-JUN-20	R5103378
Potassium (K)-Dissolved	2.82		0.050	mg/L		01-JUN-20	R5103378
Rubidium (Rb)-Dissolved	0.00203		0.00020	mg/L		01-JUN-20	R5103378
Selenium (Se)-Dissolved	0.000165		0.000050	mg/L		01-JUN-20	R5103378
Silicon (Si)-Dissolved	1.85		0.050	mg/L		01-JUN-20	R5103378
Silver (Ag)-Dissolved	0.000001	<DL	0.000010	mg/L		01-JUN-20	R5103378
Sodium (Na)-Dissolved	6.14		0.050	mg/L		01-JUN-20	R5103378
Strontium (Sr)-Dissolved	0.0598		0.00010	mg/L		01-JUN-20	R5103378
Sulfur (S)-Dissolved	10.1		0.50	mg/L		01-JUN-20	R5103378
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		01-JUN-20	R5103378
Thallium (Tl)-Dissolved	0.000003	<DL	0.000010	mg/L		01-JUN-20	R5103378
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		01-JUN-20	R5103378

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-5 SW15 Sampled By: client on 12-MAY-20 @ 14:00 Matrix: water							
Dissolved Metals							
Tin (Sn)-Dissolved	0.00027		0.00010	mg/L		01-JUN-20	R5103378
Titanium (Ti)-Dissolved	0.00094		0.00030	mg/L		01-JUN-20	R5103378
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		01-JUN-20	R5103378
Uranium (U)-Dissolved	0.000512	<T	0.000010	mg/L		01-JUN-20	R5103378
Vanadium (V)-Dissolved	0.00058	<T	0.00050	mg/L		01-JUN-20	R5103378
Zinc (Zn)-Dissolved	0.0012	<T	0.0010	mg/L		01-JUN-20	R5103378
Zirconium (Zr)-Dissolved	0.000294		0.000060	mg/L		01-JUN-20	R5103378
Aggregate Organics							
Biochemical Oxygen Demand	2.1		2.0	mg/L		15-MAY-20	R5092734
COD	73		10	mg/L		21-MAY-20	R5094991
Oil and Grease, Total	<0.2	<W	1.0	mg/L	18-MAY-20	18-MAY-20	R5090418
L2447535-6 SW23 Sampled By: client on 12-MAY-20 @ 13:00 Matrix: water							
Field Tests							
Dissolved Oxygen, Client Supplied	6.97		0	mg/L		19-MAY-20	R5090757
pH, Client Supplied	7.74		0.10	pH		19-MAY-20	R5090757
Temperature, Client Supplied	10.72		0	Degree C		19-MAY-20	R5090757
Physical Tests							
Color, True	155		2.0	CU		15-MAY-20	R5087700
Conductivity (EC)	178		1.0	uS/cm		15-MAY-20	R5089476
Hardness (as CaCO3)	104		0.20	mg/L		05-JUN-20	
pH	7.87		0.10	pH		15-MAY-20	R5089476
Total Suspended Solids	13.0		3.0	mg/L		16-MAY-20	R5090216
Total Dissolved Solids	140		13	mg/L		16-MAY-20	R5090236
Turbidity	11.9		0.10	NTU		15-MAY-20	R5087298
Anions and Nutrients							
Acidity (as CaCO3)	0.6	<DL	2.0	mg/L		19-MAY-20	R5092571
Alkalinity, Total (as CaCO3)	91.0		2.0	mg/L		15-MAY-20	R5089476
Ammonia, Total (as N)	0.028	<T	0.020	mg/L		21-MAY-20	R5094647
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		22-MAY-20	
Chloride (Cl)	2.82		0.10	mg/L	15-MAY-20	17-MAY-20	R5090800
Fluoride (F)	0.052		0.020	mg/L	15-MAY-20	17-MAY-20	R5090800
Nitrate (as N)	0.012	<DL	0.020	mg/L		17-MAY-20	R5090800
Nitrite (as N)	<0.001	<W	0.010	mg/L		17-MAY-20	R5090800
Total Kjeldahl Nitrogen	1.00		0.18	mg/L	22-MAY-20	22-MAY-20	R5095336
Orthophosphate-Dissolved (as P)	0.0035		0.0030	mg/L		19-MAY-20	R5091180
Sulfate (SO4)	3.70	<T	0.30	mg/L		17-MAY-20	R5090800
Cyanides							
Cyanide, Weak Acid Diss	0.0009	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Total	0.0008	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Free	0.0005	<DL	0.0020	mg/L		19-MAY-20	R5092542

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-6 SW23							
Sampled By: client on 12-MAY-20 @ 13:00							
Matrix: water							
Cyanides							
Organic / Inorganic Carbon							
Dissolved Organic Carbon	27.3		0.50	mg/L		26-MAY-20	R5099171
Total Organic Carbon	35.2	DLM	2.5	mg/L		22-MAY-20	R5095730
Total Metals							
Aluminum (Al)-Total	0.542		0.0030	mg/L		29-MAY-20	R5102695
Antimony (Sb)-Total	<0.00002	<W	0.00010	mg/L		29-MAY-20	R5102695
Arsenic (As)-Total	0.00103	<T	0.00010	mg/L		29-MAY-20	R5102695
Barium (Ba)-Total	0.0183		0.00010	mg/L		29-MAY-20	R5102695
Beryllium (Be)-Total	0.000040	<DL	0.00010	mg/L		29-MAY-20	R5102695
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		29-MAY-20	R5102695
Boron (B)-Total	0.0095	<DL	0.010	mg/L		29-MAY-20	R5102695
Cadmium (Cd)-Total	0.000017	<T	0.0000050	mg/L		29-MAY-20	R5102695
Calcium (Ca)-Total	24.4		0.050	mg/L		29-MAY-20	R5102695
Cesium (Cs)-Total	0.000082		0.000010	mg/L		29-MAY-20	R5102695
Chromium (Cr)-Total	0.00108	<T	0.00010	mg/L		29-MAY-20	R5102695
Cobalt (Co)-Total	0.000472	<T	0.00010	mg/L		29-MAY-20	R5102695
Copper (Cu)-Total	0.00190	<T	0.00050	mg/L		29-MAY-20	R5102695
Iron (Fe)-Total	0.890		0.010	mg/L		29-MAY-20	R5102695
Lead (Pb)-Total	0.000355	<T	0.000050	mg/L		29-MAY-20	R5102695
Lithium (Li)-Total	0.00434	<T	0.0010	mg/L		29-MAY-20	R5102695
Magnesium (Mg)-Total	11.2		0.0050	mg/L		29-MAY-20	R5102695
Manganese (Mn)-Total	0.0669		0.00010	mg/L		29-MAY-20	R5102695
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		20-MAY-20	R5092681
Molybdenum (Mo)-Total	0.000340	<T	0.000050	mg/L		29-MAY-20	R5102695
Nickel (Ni)-Total	0.00206	<T	0.00050	mg/L		29-MAY-20	R5102695
Phosphorus (P)-Total	0.032	<DL	0.050	mg/L		29-MAY-20	R5102695
Potassium (K)-Total	1.07		0.050	mg/L		29-MAY-20	R5102695
Rubidium (Rb)-Total	0.00227		0.00020	mg/L		29-MAY-20	R5102695
Selenium (Se)-Total	0.000155		0.000050	mg/L		29-MAY-20	R5102695
Silicon (Si)-Total	2.36		0.10	mg/L		29-MAY-20	R5102695
Silver (Ag)-Total	0.000004	<DL	0.000010	mg/L		29-MAY-20	R5102695
Sodium (Na)-Total	2.80		0.050	mg/L		29-MAY-20	R5102695
Strontium (Sr)-Total	0.0502		0.00020	mg/L		29-MAY-20	R5102695
Sulfur (S)-Total	1.4		0.50	mg/L		29-MAY-20	R5102695
Tellurium (Te)-Total	0.000035	<DL	0.00020	mg/L		29-MAY-20	R5102695
Thallium (Tl)-Total	0.000010	<T	0.000010	mg/L		29-MAY-20	R5102695
Thorium (Th)-Total	0.000090	<DL	0.00010	mg/L		29-MAY-20	R5102695
Tin (Sn)-Total	0.00014		0.00010	mg/L		29-MAY-20	R5102695
Titanium (Ti)-Total	0.0158		0.00030	mg/L		29-MAY-20	R5102695
Tungsten (W)-Total	0.000004	<DL	0.00010	mg/L		29-MAY-20	R5102695
Uranium (U)-Total	0.000422	<T	0.000010	mg/L		29-MAY-20	R5102695

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-6 SW23							
Sampled By: client on 12-MAY-20 @ 13:00							
Matrix: water							
Total Metals							
Vanadium (V)-Total	0.00198	<T	0.00050	mg/L		29-MAY-20	R5102695
Zinc (Zn)-Total	0.0165		0.0030	mg/L		29-MAY-20	R5102695
Zirconium (Zr)-Total	0.000656		0.000060	mg/L		29-MAY-20	R5102695
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					01-JUN-20	R5103322
Aluminum (Al)-Dissolved	0.0398		0.0010	mg/L		01-JUN-20	R5103378
Antimony (Sb)-Dissolved	0.000050	<DL	0.00010	mg/L		01-JUN-20	R5103378
Arsenic (As)-Dissolved	0.000915	<T	0.00010	mg/L		01-JUN-20	R5103378
Barium (Ba)-Dissolved	0.0142		0.00010	mg/L		01-JUN-20	R5103378
Beryllium (Be)-Dissolved	0.000014	<DL	0.00010	mg/L		01-JUN-20	R5103378
Bismuth (Bi)-Dissolved	0.000002	<DL	0.000050	mg/L		01-JUN-20	R5103378
Boron (B)-Dissolved	0.0080	<DL	0.010	mg/L		01-JUN-20	R5103378
Cadmium (Cd)-Dissolved	0.0000078	<T	0.0000050	mg/L		01-JUN-20	R5103378
Calcium (Ca)-Dissolved	23.8		0.050	mg/L		01-JUN-20	R5103378
Cesium (Cs)-Dissolved	0.000001	<DL	0.000010	mg/L		01-JUN-20	R5103378
Chromium (Cr)-Dissolved	0.00022	<T	0.00010	mg/L		01-JUN-20	R5103378
Cobalt (Co)-Dissolved	0.000192	<T	0.00010	mg/L		01-JUN-20	R5103378
Copper (Cu)-Dissolved	0.00138	<T	0.00020	mg/L		01-JUN-20	R5103378
Iron (Fe)-Dissolved	0.245		0.010	mg/L		01-JUN-20	R5103378
Lead (Pb)-Dissolved	0.000095	<T	0.000050	mg/L		01-JUN-20	R5103378
Lithium (Li)-Dissolved	0.00384	<T	0.0010	mg/L		01-JUN-20	R5103378
Magnesium (Mg)-Dissolved	10.7		0.0050	mg/L		01-JUN-20	R5103378
Manganese (Mn)-Dissolved	0.0530		0.00010	mg/L		01-JUN-20	R5103378
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092738
Molybdenum (Mo)-Dissolved	0.000324	<T	0.000050	mg/L		01-JUN-20	R5103378
Nickel (Ni)-Dissolved	0.00140	<T	0.00050	mg/L		01-JUN-20	R5103378
Phosphorus (P)-Dissolved	0.016	<DL	0.050	mg/L		01-JUN-20	R5103378
Potassium (K)-Dissolved	0.986		0.050	mg/L		01-JUN-20	R5103378
Rubidium (Rb)-Dissolved	0.000976		0.00020	mg/L		01-JUN-20	R5103378
Selenium (Se)-Dissolved	0.000165		0.000050	mg/L		01-JUN-20	R5103378
Silicon (Si)-Dissolved	1.30		0.050	mg/L		01-JUN-20	R5103378
Silver (Ag)-Dissolved	<0.000001	<W	0.000010	mg/L		01-JUN-20	R5103378
Sodium (Na)-Dissolved	2.64		0.050	mg/L		01-JUN-20	R5103378
Strontium (Sr)-Dissolved	0.0484		0.00010	mg/L		01-JUN-20	R5103378
Sulfur (S)-Dissolved	1.6		0.50	mg/L		01-JUN-20	R5103378
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		01-JUN-20	R5103378
Thallium (Tl)-Dissolved	0.000002	<DL	0.000010	mg/L		01-JUN-20	R5103378
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		01-JUN-20	R5103378
Tin (Sn)-Dissolved	0.00008	<DL	0.00010	mg/L		01-JUN-20	R5103378
Titanium (Ti)-Dissolved	0.00090		0.00030	mg/L		01-JUN-20	R5103378
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		01-JUN-20	R5103378

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-6 SW23 Sampled By: client on 12-MAY-20 @ 13:00 Matrix: water							
Dissolved Metals							
Uranium (U)-Dissolved	0.000373	<T	0.000010	mg/L		01-JUN-20	R5103378
Vanadium (V)-Dissolved	0.00070	<T	0.00050	mg/L		01-JUN-20	R5103378
Zinc (Zn)-Dissolved	0.0012	<T	0.0010	mg/L		01-JUN-20	R5103378
Zirconium (Zr)-Dissolved	0.000366		0.000060	mg/L		01-JUN-20	R5103378
Aggregate Organics							
Biochemical Oxygen Demand	2.5		2.0	mg/L		15-MAY-20	R5092734
COD	76		10	mg/L		21-MAY-20	R5094991
Oil and Grease, Total	1.6		1.0	mg/L	19-MAY-20	19-MAY-20	R5092259
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		22-MAY-20	R5095780
L2447535-7 SW24 Sampled By: client on 12-MAY-20 @ 13:30 Matrix: water							
Field Tests							
Dissolved Oxygen, Client Supplied	7.03		0	mg/L		19-MAY-20	R5090757
pH, Client Supplied	7.9		0.10	pH		19-MAY-20	R5090757
Temperature, Client Supplied	11.19		0	Degree C		19-MAY-20	R5090757
Physical Tests							
Color, True	129		2.0	CU		15-MAY-20	R5087700
Conductivity (EC)	379		1.0	uS/cm		15-MAY-20	R5089476
Hardness (as CaCO3)	168		0.20	mg/L		18-JUN-20	
pH	7.92		0.10	pH		15-MAY-20	R5089476
Total Suspended Solids	11.5		2.0	mg/L		16-MAY-20	R5090216
Total Dissolved Solids	264		20	mg/L		16-MAY-20	R5090236
Turbidity	10.0		0.10	NTU		15-MAY-20	R5087298
Anions and Nutrients							
Acidity (as CaCO3)	0.4	<DL	2.0	mg/L		19-MAY-20	R5092571
Alkalinity, Total (as CaCO3)	106		2.0	mg/L		15-MAY-20	R5089476
Ammonia, Total (as N)	0.288		0.020	mg/L		21-MAY-20	R5094647
Ammonia, Un-ionized (as N)	0.005	<DL	0.010	mg/L		22-MAY-20	
Chloride (Cl)	4.80		0.10	mg/L	15-MAY-20	17-MAY-20	R5090800
Fluoride (F)	0.065		0.020	mg/L	15-MAY-20	17-MAY-20	R5090800
Nitrate (as N)	0.860		0.020	mg/L		17-MAY-20	R5090800
Nitrite (as N)	0.011	<T	0.010	mg/L		17-MAY-20	R5090800
Total Kjeldahl Nitrogen	1.30		0.18	mg/L	22-MAY-20	22-MAY-20	R5095336
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		19-MAY-20	R5091180
Sulfate (SO4)	85.2		0.30	mg/L		17-MAY-20	R5090800
Cyanides							
Cyanide, Weak Acid Diss	0.0007	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Total	0.0008	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Free	0.0005	<DL	0.0020	mg/L		19-MAY-20	R5092542
Organic / Inorganic Carbon							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-7 SW24							
Sampled By: client on 12-MAY-20 @ 13:30							
Matrix: water							
Organic / Inorganic Carbon							
Dissolved Organic Carbon	25.6		0.50	mg/L		27-MAY-20	R5099930
Total Organic Carbon	31.5	DLM	2.5	mg/L		22-MAY-20	R5095730
Total Metals							
Aluminum (Al)-Total	0.422		0.0030	mg/L		29-MAY-20	R5102695
Antimony (Sb)-Total	0.00244	<T	0.00010	mg/L		29-MAY-20	R5102695
Arsenic (As)-Total	0.00139	<T	0.00010	mg/L		29-MAY-20	R5102695
Barium (Ba)-Total	0.0256		0.00010	mg/L		29-MAY-20	R5102695
Beryllium (Be)-Total	0.000024	<DL	0.00010	mg/L		29-MAY-20	R5102695
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		29-MAY-20	R5102695
Boron (B)-Total	0.0240	<T	0.010	mg/L		29-MAY-20	R5102695
Cadmium (Cd)-Total	0.000017	<T	0.0000050	mg/L		29-MAY-20	R5102695
Calcium (Ca)-Total	44.5		0.050	mg/L		29-MAY-20	R5102695
Cesium (Cs)-Total	0.000291		0.000010	mg/L		29-MAY-20	R5102695
Chromium (Cr)-Total	0.00088	<T	0.00010	mg/L		29-MAY-20	R5102695
Cobalt (Co)-Total	0.000704	<T	0.00010	mg/L		29-MAY-20	R5102695
Copper (Cu)-Total	0.00318	<T	0.00050	mg/L		29-MAY-20	R5102695
Iron (Fe)-Total	0.693		0.010	mg/L		29-MAY-20	R5102695
Lead (Pb)-Total	0.000310	<T	0.000050	mg/L		29-MAY-20	R5102695
Lithium (Li)-Total	0.00684	<T	0.0010	mg/L		29-MAY-20	R5102695
Magnesium (Mg)-Total	14.6		0.0050	mg/L		29-MAY-20	R5102695
Manganese (Mn)-Total	0.0610		0.00010	mg/L		29-MAY-20	R5102695
Mercury (Hg)-Total	0.000010	<DL	0.000030	mg/L		20-MAY-20	R5092681
Molybdenum (Mo)-Total	0.00178	<T	0.000050	mg/L		29-MAY-20	R5102695
Nickel (Ni)-Total	0.00214	<T	0.00050	mg/L		29-MAY-20	R5102695
Phosphorus (P)-Total	0.024	<DL	0.050	mg/L		29-MAY-20	R5102695
Potassium (K)-Total	7.84		0.050	mg/L		29-MAY-20	R5102695
Rubidium (Rb)-Total	0.00548		0.00020	mg/L		29-MAY-20	R5102695
Silicon (Si)-Total	2.34		0.10	mg/L		29-MAY-20	R5102695
Silver (Ag)-Total	0.000004	<DL	0.000010	mg/L		29-MAY-20	R5102695
Sodium (Na)-Total	15.8		0.050	mg/L		29-MAY-20	R5102695
Strontium (Sr)-Total	0.129		0.00020	mg/L		29-MAY-20	R5102695
Sulfur (S)-Total	29.4		0.50	mg/L		29-MAY-20	R5102695
Tellurium (Te)-Total	0.000025	<DL	0.00020	mg/L		29-MAY-20	R5102695
Thallium (Tl)-Total	0.000010	<T	0.000010	mg/L		29-MAY-20	R5102695
Thorium (Th)-Total	0.000085	<DL	0.00010	mg/L		29-MAY-20	R5102695
Tin (Sn)-Total	0.00016		0.00010	mg/L		29-MAY-20	R5102695
Titanium (Ti)-Total	0.0133		0.00030	mg/L		29-MAY-20	R5102695
Tungsten (W)-Total	0.000018	<DL	0.00010	mg/L		29-MAY-20	R5102695
Uranium (U)-Total	0.000966	<T	0.000010	mg/L		29-MAY-20	R5102695
Vanadium (V)-Total	0.00168	<T	0.00050	mg/L		29-MAY-20	R5102695
Zinc (Zn)-Total	0.0035	<T	0.0030	mg/L		29-MAY-20	R5102695

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-7 SW24							
Sampled By: client on 12-MAY-20 @ 13:30							
Matrix: water							
Total Metals							
Zirconium (Zr)-Total	0.000564		0.000060	mg/L		29-MAY-20	R5102695
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					10-JUN-20	R5118193
Aluminum (Al)-Dissolved	0.0410		0.0010	mg/L		10-JUN-20	R5116062
Antimony (Sb)-Dissolved	0.00253	<T	0.00010	mg/L		10-JUN-20	R5116062
Arsenic (As)-Dissolved	0.00123	<T	0.00010	mg/L		10-JUN-20	R5116062
Barium (Ba)-Dissolved	0.0223		0.00010	mg/L		10-JUN-20	R5116062
Beryllium (Be)-Dissolved	0.000022	<DL	0.00010	mg/L		10-JUN-20	R5116062
Bismuth (Bi)-Dissolved	0.000004	<DL	0.000050	mg/L		10-JUN-20	R5116062
Boron (B)-Dissolved	0.0275	<T	0.010	mg/L		10-JUN-20	R5116062
Cadmium (Cd)-Dissolved	0.0000108	<T	0.0000050	mg/L		10-JUN-20	R5116062
Calcium (Ca)-Dissolved	43.6		0.050	mg/L		10-JUN-20	R5116062
Cesium (Cs)-Dissolved	0.000219		0.000010	mg/L		10-JUN-20	R5116062
Chromium (Cr)-Dissolved	0.00016	<T	0.00010	mg/L		10-JUN-20	R5116062
Cobalt (Co)-Dissolved	0.000444	<T	0.00010	mg/L		10-JUN-20	R5116062
Copper (Cu)-Dissolved	0.00252	<T	0.00020	mg/L		10-JUN-20	R5116062
Iron (Fe)-Dissolved	0.175		0.010	mg/L		10-JUN-20	R5116062
Lead (Pb)-Dissolved	0.000085	<T	0.000050	mg/L		10-JUN-20	R5116062
Lithium (Li)-Dissolved	0.00648	<T	0.0010	mg/L		10-JUN-20	R5116062
Magnesium (Mg)-Dissolved	14.3		0.0050	mg/L		10-JUN-20	R5116062
Manganese (Mn)-Dissolved	0.0465		0.00010	mg/L		10-JUN-20	R5116062
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092738
Molybdenum (Mo)-Dissolved	0.00181	<T	0.000050	mg/L		10-JUN-20	R5116062
Nickel (Ni)-Dissolved	0.00154	<T	0.00050	mg/L		10-JUN-20	R5116062
Phosphorus (P)-Dissolved	0.010	<DL	0.050	mg/L		10-JUN-20	R5116062
Potassium (K)-Dissolved	7.65		0.050	mg/L		10-JUN-20	R5116062
Rubidium (Rb)-Dissolved	0.00457		0.00020	mg/L		10-JUN-20	R5116062
Selenium (Se)-Dissolved	0.000265		0.000050	mg/L		10-JUN-20	R5116062
Silicon (Si)-Dissolved	1.43		0.050	mg/L		10-JUN-20	R5116062
Silver (Ag)-Dissolved	0.000002	<DL	0.000010	mg/L		10-JUN-20	R5116062
Sodium (Na)-Dissolved	15.3		0.050	mg/L		10-JUN-20	R5116062
Strontium (Sr)-Dissolved	0.130		0.00010	mg/L		10-JUN-20	R5116062
Sulfur (S)-Dissolved	27.2		0.50	mg/L		10-JUN-20	R5116062
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		10-JUN-20	R5116062
Thallium (Tl)-Dissolved	0.000008	<DL	0.000010	mg/L		10-JUN-20	R5116062
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		10-JUN-20	R5116062
Tin (Sn)-Dissolved	0.00011		0.00010	mg/L		10-JUN-20	R5116062
Titanium (Ti)-Dissolved	0.00154		0.00030	mg/L		10-JUN-20	R5116062
Tungsten (W)-Dissolved	0.000022	<DL	0.00010	mg/L		10-JUN-20	R5116062
Uranium (U)-Dissolved	0.000899	<T	0.000010	mg/L		10-JUN-20	R5116062
Vanadium (V)-Dissolved	0.00062	<T	0.00050	mg/L		10-JUN-20	R5116062

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-7 SW24 Sampled By: client on 12-MAY-20 @ 13:30 Matrix: water							
Dissolved Metals							
Zinc (Zn)-Dissolved	0.0010	<T	0.0010	mg/L		10-JUN-20	R5116062
Zirconium (Zr)-Dissolved	0.000330		0.000060	mg/L		10-JUN-20	R5116062
Aggregate Organics							
Biochemical Oxygen Demand	2.2		2.0	mg/L		15-MAY-20	R5092734
COD	65		10	mg/L		21-MAY-20	R5094991
Oil and Grease, Total	1.0		1.0	mg/L	19-MAY-20	19-MAY-20	R5092259
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		22-MAY-20	R5095780
L2447535-8 SW06 Sampled By: client on 12-MAY-20 @ 12:00 Matrix: water							
Field Tests							
Dissolved Oxygen, Client Supplied	7.03		0	mg/L		19-MAY-20	R5090757
pH, Client Supplied	7.9		0.10	pH		19-MAY-20	R5090757
Temperature, Client Supplied	11.19		0	Degree C		19-MAY-20	R5090757
Physical Tests							
Color, True	129		2.0	CU		15-MAY-20	R5087700
Conductivity (EC)	378		1.0	uS/cm		15-MAY-20	R5089476
Hardness (as CaCO3)	165		0.20	mg/L		05-JUN-20	
pH	7.90		0.10	pH		15-MAY-20	R5089476
Total Suspended Solids	11.5		2.0	mg/L		15-MAY-20	R5088642
Total Dissolved Solids	258		20	mg/L		15-MAY-20	R5088756
Turbidity	9.94		0.10	NTU		15-MAY-20	R5087298
Anions and Nutrients							
Acidity (as CaCO3)	0.6	<DL	2.0	mg/L		19-MAY-20	R5092571
Alkalinity, Total (as CaCO3)	106		2.0	mg/L		15-MAY-20	R5089476
Ammonia, Total (as N)	0.290		0.020	mg/L		21-MAY-20	R5094647
Ammonia, Un-ionized (as N)	0.005	<DL	0.010	mg/L		22-MAY-20	
Chloride (Cl)	4.41		0.10	mg/L	15-MAY-20	17-MAY-20	R5090800
Fluoride (F)	0.060		0.020	mg/L	15-MAY-20	17-MAY-20	R5090800
Nitrate (as N)	0.786		0.020	mg/L		17-MAY-20	R5090800
Nitrite (as N)	0.010	<T	0.010	mg/L		17-MAY-20	R5090800
Total Kjeldahl Nitrogen	1.30		0.18	mg/L	22-MAY-20	22-MAY-20	R5095336
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		19-MAY-20	R5091180
Sulfate (SO4)	77.4		0.30	mg/L		17-MAY-20	R5090800
Cyanides							
Cyanide, Weak Acid Diss	0.0012	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Total	0.0010	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Free	0.0004	<DL	0.0020	mg/L		19-MAY-20	R5092542
Organic / Inorganic Carbon							
Dissolved Organic Carbon	23.7		0.50	mg/L		27-MAY-20	R5099930
Total Organic Carbon	35.4	DLM	2.5	mg/L		22-MAY-20	R5095730
Total Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-8 SW06							
Sampled By: client on 12-MAY-20 @ 12:00							
Matrix: water							
Total Metals							
Aluminum (Al)-Total	0.462		0.0030	mg/L		29-MAY-20	R5102695
Antimony (Sb)-Total	0.00246	<T	0.00010	mg/L		29-MAY-20	R5102695
Arsenic (As)-Total	0.00141	<T	0.00010	mg/L		29-MAY-20	R5102695
Barium (Ba)-Total	0.0250		0.00010	mg/L		29-MAY-20	R5102695
Beryllium (Be)-Total	0.000024	<DL	0.00010	mg/L		29-MAY-20	R5102695
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		29-MAY-20	R5102695
Boron (B)-Total	0.0250	<T	0.010	mg/L		29-MAY-20	R5102695
Cadmium (Cd)-Total	0.000017	<T	0.000050	mg/L		29-MAY-20	R5102695
Calcium (Ca)-Total	44.4		0.050	mg/L		29-MAY-20	R5102695
Cesium (Cs)-Total	0.000297		0.000010	mg/L		29-MAY-20	R5102695
Chromium (Cr)-Total	0.00094	<T	0.00010	mg/L		29-MAY-20	R5102695
Cobalt (Co)-Total	0.000712	<T	0.00010	mg/L		29-MAY-20	R5102695
Copper (Cu)-Total	0.00310	<T	0.00050	mg/L		29-MAY-20	R5102695
Iron (Fe)-Total	0.727		0.010	mg/L		29-MAY-20	R5102695
Lead (Pb)-Total	0.000310	<T	0.000050	mg/L		29-MAY-20	R5102695
Lithium (Li)-Total	0.00688	<T	0.0010	mg/L		29-MAY-20	R5102695
Magnesium (Mg)-Total	14.3		0.0050	mg/L		29-MAY-20	R5102695
Manganese (Mn)-Total	0.0596		0.00010	mg/L		29-MAY-20	R5102695
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092681
Molybdenum (Mo)-Total	0.00180	<T	0.000050	mg/L		29-MAY-20	R5102695
Nickel (Ni)-Total	0.00210	<T	0.00050	mg/L		29-MAY-20	R5102695
Phosphorus (P)-Total	0.024	<DL	0.050	mg/L		29-MAY-20	R5102695
Potassium (K)-Total	7.54		0.050	mg/L		29-MAY-20	R5102695
Rubidium (Rb)-Total	0.00541		0.00020	mg/L		29-MAY-20	R5102695
Selenium (Se)-Total	0.000265		0.000050	mg/L		29-MAY-20	R5102695
Silicon (Si)-Total	2.46		0.10	mg/L		29-MAY-20	R5102695
Silver (Ag)-Total	0.000004	<DL	0.000010	mg/L		29-MAY-20	R5102695
Sodium (Na)-Total	15.5		0.050	mg/L		29-MAY-20	R5102695
Strontium (Sr)-Total	0.127		0.00020	mg/L		29-MAY-20	R5102695
Sulfur (S)-Total	28.8		0.50	mg/L		29-MAY-20	R5102695
Tellurium (Te)-Total	0.000050	<DL	0.00020	mg/L		29-MAY-20	R5102695
Thallium (Tl)-Total	0.000012	<T	0.000010	mg/L		29-MAY-20	R5102695
Thorium (Th)-Total	0.000105		0.00010	mg/L		29-MAY-20	R5102695
Tin (Sn)-Total	0.00022		0.00010	mg/L		29-MAY-20	R5102695
Titanium (Ti)-Total	0.0144		0.00030	mg/L		29-MAY-20	R5102695
Tungsten (W)-Total	0.000022	<DL	0.00010	mg/L		29-MAY-20	R5102695
Uranium (U)-Total	0.000975	<T	0.000010	mg/L		29-MAY-20	R5102695
Vanadium (V)-Total	0.00194	<T	0.00050	mg/L		29-MAY-20	R5102695
Zinc (Zn)-Total	0.0030	<T	0.0030	mg/L		29-MAY-20	R5102695
Zirconium (Zr)-Total	0.000570		0.000060	mg/L		29-MAY-20	R5102695
Dissolved Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-8 SW06							
Sampled By: client on 12-MAY-20 @ 12:00							
Matrix: water							
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					01-JUN-20	R5103322
Aluminum (Al)-Dissolved	0.0414		0.0010	mg/L		01-JUN-20	R5103378
Antimony (Sb)-Dissolved	0.00245	<T	0.00010	mg/L		01-JUN-20	R5103378
Arsenic (As)-Dissolved	0.00128	<T	0.00010	mg/L		01-JUN-20	R5103378
Barium (Ba)-Dissolved	0.0215		0.00010	mg/L		01-JUN-20	R5103378
Beryllium (Be)-Dissolved	0.000012	<DL	0.00010	mg/L		01-JUN-20	R5103378
Bismuth (Bi)-Dissolved	0.000002	<DL	0.000050	mg/L		01-JUN-20	R5103378
Boron (B)-Dissolved	0.0210	<T	0.010	mg/L		01-JUN-20	R5103378
Cadmium (Cd)-Dissolved	0.0000096	<T	0.0000050	mg/L		01-JUN-20	R5103378
Calcium (Ca)-Dissolved	42.7		0.050	mg/L		01-JUN-20	R5103378
Cesium (Cs)-Dissolved	0.000194		0.000010	mg/L		01-JUN-20	R5103378
Chromium (Cr)-Dissolved	0.00018	<T	0.00010	mg/L		01-JUN-20	R5103378
Cobalt (Co)-Dissolved	0.000465	<T	0.00010	mg/L		01-JUN-20	R5103378
Copper (Cu)-Dissolved	0.00262	<T	0.00020	mg/L		01-JUN-20	R5103378
Iron (Fe)-Dissolved	0.193		0.010	mg/L		01-JUN-20	R5103378
Lead (Pb)-Dissolved	0.000085	<T	0.000050	mg/L		01-JUN-20	R5103378
Lithium (Li)-Dissolved	0.00648	<T	0.0010	mg/L		01-JUN-20	R5103378
Magnesium (Mg)-Dissolved	14.2		0.0050	mg/L		01-JUN-20	R5103378
Manganese (Mn)-Dissolved	0.0478		0.00010	mg/L		01-JUN-20	R5103378
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092738
Molybdenum (Mo)-Dissolved	0.00165	<T	0.000050	mg/L		01-JUN-20	R5103378
Nickel (Ni)-Dissolved	0.00156	<T	0.00050	mg/L		01-JUN-20	R5103378
Phosphorus (P)-Dissolved	0.010	<DL	0.050	mg/L		01-JUN-20	R5103378
Potassium (K)-Dissolved	7.46		0.050	mg/L		01-JUN-20	R5103378
Rubidium (Rb)-Dissolved	0.00466		0.00020	mg/L		01-JUN-20	R5103378
Selenium (Se)-Dissolved	0.000270		0.000050	mg/L		01-JUN-20	R5103378
Silicon (Si)-Dissolved	1.52		0.050	mg/L		01-JUN-20	R5103378
Silver (Ag)-Dissolved	0.000001	<DL	0.000010	mg/L		01-JUN-20	R5103378
Sodium (Na)-Dissolved	15.0		0.050	mg/L		01-JUN-20	R5103378
Strontium (Sr)-Dissolved	0.124		0.00010	mg/L		01-JUN-20	R5103378
Sulfur (S)-Dissolved	28.8		0.50	mg/L		01-JUN-20	R5103378
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		01-JUN-20	R5103378
Thallium (Tl)-Dissolved	0.000007	<DL	0.000010	mg/L		01-JUN-20	R5103378
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		01-JUN-20	R5103378
Tin (Sn)-Dissolved	0.00011		0.00010	mg/L		01-JUN-20	R5103378
Titanium (Ti)-Dissolved	0.00082		0.00030	mg/L		01-JUN-20	R5103378
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		01-JUN-20	R5103378
Uranium (U)-Dissolved	0.000835	<T	0.000010	mg/L		01-JUN-20	R5103378
Vanadium (V)-Dissolved	0.00060	<T	0.00050	mg/L		01-JUN-20	R5103378
Zinc (Zn)-Dissolved	0.0020	<T	0.0010	mg/L		01-JUN-20	R5103378
Zirconium (Zr)-Dissolved	0.000314		0.000060	mg/L		01-JUN-20	R5103378

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-8 SW06 Sampled By: client on 12-MAY-20 @ 12:00 Matrix: water							
Dissolved Metals							
Aggregate Organics							
Biochemical Oxygen Demand	2.4		2.0	mg/L		15-MAY-20	R5092734
COD	65		10	mg/L		21-MAY-20	R5094991
Oil and Grease, Total	1.2		1.0	mg/L	19-MAY-20	19-MAY-20	R5092259
L2447535-9 SW03 Sampled By: client on 12-MAY-20 @ 14:30 Matrix: water							
Field Tests							
Dissolved Oxygen, Client Supplied	5.03		0	mg/L		19-MAY-20	R5090757
pH, Client Supplied	7.77		0.10	pH		19-MAY-20	R5090757
Temperature, Client Supplied	11.89		0	Degree C		19-MAY-20	R5090757
Physical Tests							
Color, True	126		2.0	CU		15-MAY-20	R5087700
Conductivity (EC)	216		1.0	uS/cm		15-MAY-20	R5089476
Hardness (as CaCO3)	117		0.20	mg/L		05-JUN-20	
pH	7.92		0.10	pH		15-MAY-20	R5089476
Total Suspended Solids	20.5		2.0	mg/L		19-MAY-20	R5092579
Total Dissolved Solids	166		13	mg/L		16-MAY-20	R5090236
Turbidity	15.4		0.10	NTU		15-MAY-20	R5087298
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		19-MAY-20	R5092571
Alkalinity, Total (as CaCO3)	108		2.0	mg/L		15-MAY-20	R5089476
Ammonia, Total (as N)	0.034	<T	0.020	mg/L		21-MAY-20	R5094647
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		22-MAY-20	
Chloride (Cl)	<0.10		0.10	mg/L	15-MAY-20	17-MAY-20	R5090800
Fluoride (F)	<0.020		0.020	mg/L	15-MAY-20	17-MAY-20	R5090800
Nitrate (as N)	<0.002	<W	0.020	mg/L		17-MAY-20	R5090800
Nitrite (as N)	<0.001	<W	0.010	mg/L		17-MAY-20	R5090800
Total Kjeldahl Nitrogen	0.90		0.18	mg/L	22-MAY-20	22-MAY-20	R5095336
Orthophosphate-Dissolved (as P)	0.0042		0.0030	mg/L		19-MAY-20	R5091180
Sulfate (SO4)	<0.05	<W	0.30	mg/L		17-MAY-20	R5090800
Cyanides							
Cyanide, Weak Acid Diss	0.0009	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Total	0.0008	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Free	0.0006	<DL	0.0020	mg/L		19-MAY-20	R5092542
Organic / Inorganic Carbon							
Dissolved Organic Carbon	26.2		0.50	mg/L		27-MAY-20	R5099930
Total Organic Carbon	34.0	DLM	2.5	mg/L		22-MAY-20	R5095730
Total Metals							
Aluminum (Al)-Total	0.565		0.0030	mg/L		29-MAY-20	R5102695
Antimony (Sb)-Total	0.00002	<DL	0.00010	mg/L		29-MAY-20	R5102695
Arsenic (As)-Total	0.00108	<T	0.00010	mg/L		29-MAY-20	R5102695

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-9 SW03							
Sampled By: client on 12-MAY-20 @ 14:30							
Matrix: water							
Total Metals							
Barium (Ba)-Total	0.0223		0.00010	mg/L		29-MAY-20	R5102695
Beryllium (Be)-Total	0.000036	<DL	0.00010	mg/L		29-MAY-20	R5102695
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		29-MAY-20	R5102695
Boron (B)-Total	0.0110	<T	0.010	mg/L		29-MAY-20	R5102695
Cadmium (Cd)-Total	0.000020	<T	0.0000050	mg/L		29-MAY-20	R5102695
Calcium (Ca)-Total	30.2		0.050	mg/L		29-MAY-20	R5102695
Cesium (Cs)-Total	0.000079		0.000010	mg/L		29-MAY-20	R5102695
Chromium (Cr)-Total	0.00116	<T	0.00010	mg/L		29-MAY-20	R5102695
Cobalt (Co)-Total	0.000552	<T	0.00010	mg/L		29-MAY-20	R5102695
Copper (Cu)-Total	0.00318	<T	0.00050	mg/L		29-MAY-20	R5102695
Iron (Fe)-Total	0.929		0.010	mg/L		29-MAY-20	R5102695
Lead (Pb)-Total	0.000410	<T	0.000050	mg/L		29-MAY-20	R5102695
Lithium (Li)-Total	0.00474	<T	0.0010	mg/L		29-MAY-20	R5102695
Magnesium (Mg)-Total	12.5		0.0050	mg/L		29-MAY-20	R5102695
Manganese (Mn)-Total	0.0986		0.00010	mg/L		29-MAY-20	R5102695
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		20-MAY-20	R5092681
Molybdenum (Mo)-Total	0.000395	<T	0.000050	mg/L		29-MAY-20	R5102695
Nickel (Ni)-Total	0.00248	<T	0.00050	mg/L		29-MAY-20	R5102695
Phosphorus (P)-Total	0.036	<DL	0.050	mg/L		29-MAY-20	R5102695
Potassium (K)-Total	1.35		0.050	mg/L		29-MAY-20	R5102695
Rubidium (Rb)-Total	0.00256		0.00020	mg/L		29-MAY-20	R5102695
Selenium (Se)-Total	0.000150		0.000050	mg/L		29-MAY-20	R5102695
Silicon (Si)-Total	2.81		0.10	mg/L		29-MAY-20	R5102695
Silver (Ag)-Total	0.000004	<DL	0.000010	mg/L		29-MAY-20	R5102695
Sodium (Na)-Total	3.83		0.050	mg/L		29-MAY-20	R5102695
Strontium (Sr)-Total	0.0607		0.00020	mg/L		29-MAY-20	R5102695
Sulfur (S)-Total	2.2		0.50	mg/L		29-MAY-20	R5102695
Tellurium (Te)-Total	0.000010	<DL	0.00020	mg/L		29-MAY-20	R5102695
Thallium (Tl)-Total	0.000010	<T	0.000010	mg/L		29-MAY-20	R5102695
Thorium (Th)-Total	0.000090	<DL	0.00010	mg/L		29-MAY-20	R5102695
Tin (Sn)-Total	0.00016		0.00010	mg/L		29-MAY-20	R5102695
Titanium (Ti)-Total	0.0145		0.00030	mg/L		29-MAY-20	R5102695
Tungsten (W)-Total	0.000010	<DL	0.00010	mg/L		29-MAY-20	R5102695
Uranium (U)-Total	0.000645	<T	0.000010	mg/L		29-MAY-20	R5102695
Vanadium (V)-Total	0.00230	<T	0.00050	mg/L		29-MAY-20	R5102695
Zinc (Zn)-Total	0.0045	<T	0.0030	mg/L		29-MAY-20	R5102695
Zirconium (Zr)-Total	0.000662		0.000060	mg/L		29-MAY-20	R5102695
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					01-JUN-20	R5103322
Aluminum (Al)-Dissolved	0.0216	<T	0.0010	mg/L		01-JUN-20	R5103378
Antimony (Sb)-Dissolved	0.000065	<DL	0.00010	mg/L		01-JUN-20	R5103378

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-9 SW03							
Sampled By: client on 12-MAY-20 @ 14:30							
Matrix: water							
Dissolved Metals							
Arsenic (As)-Dissolved	0.00106	<T	0.00010	mg/L		01-JUN-20	R5103378
Barium (Ba)-Dissolved	0.0170		0.00010	mg/L		01-JUN-20	R5103378
Beryllium (Be)-Dissolved	0.000006	<DL	0.00010	mg/L		01-JUN-20	R5103378
Bismuth (Bi)-Dissolved	0.000002	<DL	0.000050	mg/L		01-JUN-20	R5103378
Boron (B)-Dissolved	0.0095	<DL	0.010	mg/L		01-JUN-20	R5103378
Cadmium (Cd)-Dissolved	0.0000072	<T	0.0000050	mg/L		01-JUN-20	R5103378
Calcium (Ca)-Dissolved	27.8		0.050	mg/L		01-JUN-20	R5103378
Cesium (Cs)-Dissolved	0.000001	<DL	0.000010	mg/L		01-JUN-20	R5103378
Chromium (Cr)-Dissolved	0.00016	<T	0.00010	mg/L		01-JUN-20	R5103378
Cobalt (Co)-Dissolved	0.000236	<T	0.00010	mg/L		01-JUN-20	R5103378
Copper (Cu)-Dissolved	0.00246	<T	0.00020	mg/L		01-JUN-20	R5103378
Iron (Fe)-Dissolved	0.215		0.010	mg/L		01-JUN-20	R5103378
Lead (Pb)-Dissolved	0.000085	<T	0.000050	mg/L		01-JUN-20	R5103378
Lithium (Li)-Dissolved	0.00408	<T	0.0010	mg/L		01-JUN-20	R5103378
Magnesium (Mg)-Dissolved	11.5		0.0050	mg/L		01-JUN-20	R5103378
Manganese (Mn)-Dissolved	0.0800		0.00010	mg/L		01-JUN-20	R5103378
Mercury (Hg)-Dissolved	0.000005	<DL	0.000030	mg/L		20-MAY-20	R5092738
Molybdenum (Mo)-Dissolved	0.000390	<T	0.000050	mg/L		01-JUN-20	R5103378
Nickel (Ni)-Dissolved	0.00168	<T	0.00050	mg/L		01-JUN-20	R5103378
Phosphorus (P)-Dissolved	0.012	<DL	0.050	mg/L		01-JUN-20	R5103378
Potassium (K)-Dissolved	1.23		0.050	mg/L		01-JUN-20	R5103378
Rubidium (Rb)-Dissolved	0.00112		0.00020	mg/L		01-JUN-20	R5103378
Selenium (Se)-Dissolved	0.000170		0.000050	mg/L		01-JUN-20	R5103378
Silicon (Si)-Dissolved	1.67		0.050	mg/L		01-JUN-20	R5103378
Silver (Ag)-Dissolved	<0.000001	<W	0.000010	mg/L		01-JUN-20	R5103378
Sodium (Na)-Dissolved	3.57		0.050	mg/L		01-JUN-20	R5103378
Strontium (Sr)-Dissolved	0.0592		0.00010	mg/L		01-JUN-20	R5103378
Sulfur (S)-Dissolved	2.4		0.50	mg/L		01-JUN-20	R5103378
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		01-JUN-20	R5103378
Thallium (Tl)-Dissolved	0.000002	<DL	0.000010	mg/L		01-JUN-20	R5103378
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		01-JUN-20	R5103378
Tin (Sn)-Dissolved	0.00009	<DL	0.00010	mg/L		01-JUN-20	R5103378
Titanium (Ti)-Dissolved	0.00058		0.00030	mg/L		01-JUN-20	R5103378
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		01-JUN-20	R5103378
Uranium (U)-Dissolved	0.000517	<T	0.000010	mg/L		01-JUN-20	R5103378
Vanadium (V)-Dissolved	0.00072	<T	0.00050	mg/L		01-JUN-20	R5103378
Zinc (Zn)-Dissolved	0.0012	<T	0.0010	mg/L		01-JUN-20	R5103378
Zirconium (Zr)-Dissolved	0.000304		0.000060	mg/L		01-JUN-20	R5103378
Aggregate Organics							
Biochemical Oxygen Demand	2.0		2.0	mg/L		15-MAY-20	R5092734
COD	73		10	mg/L		21-MAY-20	R5094991

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-9 SW03 Sampled By: client on 12-MAY-20 @ 14:30 Matrix: water							
Aggregate Organics							
Oil and Grease, Total	0.6	<DL	1.0	mg/L	19-MAY-20	19-MAY-20	R5092259
L2447535-10 SW29 Sampled By: client on 13-MAY-20 @ 12:45 Matrix: water							
Field Tests							
Dissolved Oxygen, Client Supplied	2.51		0	mg/L		19-MAY-20	R5090757
pH, Client Supplied	7.05		0.10	pH		19-MAY-20	R5090757
Temperature, Client Supplied	10.15		0	Degree C		19-MAY-20	R5090757
Physical Tests							
Color, True	189		2.0	CU		15-MAY-20	R5087700
Conductivity (EC)	115		1.0	uS/cm		15-MAY-20	R5089476
Hardness (as CaCO3)	73.0		0.20	mg/L		05-JUN-20	
pH	7.51		0.10	pH		15-MAY-20	R5089476
Total Suspended Solids	6.5		2.0	mg/L		19-MAY-20	R5092579
Total Dissolved Solids	102		13	mg/L		19-MAY-20	R5092660
Turbidity	2.94		0.10	NTU		15-MAY-20	R5087298
Anions and Nutrients							
Acidity (as CaCO3)	0.4	<DL	2.0	mg/L		19-MAY-20	R5092571
Alkalinity, Total (as CaCO3)	60.4		2.0	mg/L		15-MAY-20	R5089476
Ammonia, Total (as N)	0.028	<T	0.020	mg/L		21-MAY-20	R5094647
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		22-MAY-20	
Chloride (Cl)	0.58		0.10	mg/L	15-MAY-20	15-MAY-20	R5089517
Fluoride (F)	0.039		0.020	mg/L	15-MAY-20	15-MAY-20	R5089517
Nitrate (as N)	0.006	<DL	0.020	mg/L		15-MAY-20	R5089517
Nitrite (as N)	<0.001	<W	0.010	mg/L		15-MAY-20	R5089517
Total Kjeldahl Nitrogen	1.25		0.18	mg/L	22-MAY-20	22-MAY-20	R5095336
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		19-MAY-20	R5091180
Sulfate (SO4)	2.25	<T	0.30	mg/L		15-MAY-20	R5089517
Cyanides							
Cyanide, Weak Acid Diss	0.0008	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Total	0.0006	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Free	0.0007	<DL	0.0020	mg/L		19-MAY-20	R5092542
Organic / Inorganic Carbon							
Dissolved Organic Carbon	31.4		0.50	mg/L		27-MAY-20	R5099930
Total Organic Carbon	43.9	DLM	2.5	mg/L		22-MAY-20	R5095730
Total Metals							
Aluminum (Al)-Total	0.228		0.0030	mg/L		29-MAY-20	R5102695
Antimony (Sb)-Total	<0.00002	<W	0.00010	mg/L		29-MAY-20	R5102695
Arsenic (As)-Total	0.00084	<T	0.00010	mg/L		29-MAY-20	R5102695
Barium (Ba)-Total	0.0105		0.00010	mg/L		29-MAY-20	R5102695
Beryllium (Be)-Total	0.000020	<DL	0.00010	mg/L		29-MAY-20	R5102695
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		29-MAY-20	R5102695

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-10 SW29							
Sampled By: client on 13-MAY-20 @ 12:45							
Matrix: water							
Total Metals							
Boron (B)-Total	0.0085	<DL	0.010	mg/L		29-MAY-20	R5102695
Cadmium (Cd)-Total	0.000013	<T	0.0000050	mg/L		29-MAY-20	R5102695
Calcium (Ca)-Total	16.2		0.050	mg/L		29-MAY-20	R5102695
Cesium (Cs)-Total	0.000028		0.000010	mg/L		29-MAY-20	R5102695
Chromium (Cr)-Total	0.00050	<T	0.00010	mg/L		29-MAY-20	R5102695
Cobalt (Co)-Total	0.000194	<T	0.00010	mg/L		29-MAY-20	R5102695
Copper (Cu)-Total	0.00068	<T	0.00050	mg/L		29-MAY-20	R5102695
Iron (Fe)-Total	0.396		0.010	mg/L		29-MAY-20	R5102695
Lead (Pb)-Total	0.000220	<T	0.000050	mg/L		29-MAY-20	R5102695
Lithium (Li)-Total	0.00368	<T	0.0010	mg/L		29-MAY-20	R5102695
Magnesium (Mg)-Total	8.31		0.0050	mg/L		29-MAY-20	R5102695
Manganese (Mn)-Total	0.0306		0.00010	mg/L		29-MAY-20	R5102695
Mercury (Hg)-Total	0.000010	<DL	0.000030	mg/L		20-MAY-20	R5092681
Molybdenum (Mo)-Total	0.000165	<T	0.000050	mg/L		29-MAY-20	R5102695
Nickel (Ni)-Total	0.00096	<T	0.00050	mg/L		29-MAY-20	R5102695
Phosphorus (P)-Total	0.016	<DL	0.050	mg/L		29-MAY-20	R5102695
Potassium (K)-Total	0.802		0.050	mg/L		29-MAY-20	R5102695
Rubidium (Rb)-Total	0.00170		0.00020	mg/L		29-MAY-20	R5102695
Selenium (Se)-Total	0.000140		0.000050	mg/L		29-MAY-20	R5102695
Silicon (Si)-Total	1.38		0.10	mg/L		29-MAY-20	R5102695
Silver (Ag)-Total	0.000002	<DL	0.000010	mg/L		29-MAY-20	R5102695
Sodium (Na)-Total	1.56		0.050	mg/L		29-MAY-20	R5102695
Strontium (Sr)-Total	0.0336		0.00020	mg/L		29-MAY-20	R5102695
Sulfur (S)-Total	1.1		0.50	mg/L		29-MAY-20	R5102695
Tellurium (Te)-Total	0.000015	<DL	0.00020	mg/L		29-MAY-20	R5102695
Thallium (Tl)-Total	0.000006	<DL	0.000010	mg/L		29-MAY-20	R5102695
Thorium (Th)-Total	0.000045	<DL	0.00010	mg/L		29-MAY-20	R5102695
Tin (Sn)-Total	0.00024		0.00010	mg/L		29-MAY-20	R5102695
Titanium (Ti)-Total	0.00562		0.00030	mg/L		29-MAY-20	R5102695
Tungsten (W)-Total	0.000002	<DL	0.00010	mg/L		29-MAY-20	R5102695
Uranium (U)-Total	0.0000986	<T	0.000010	mg/L		29-MAY-20	R5102695
Vanadium (V)-Total	0.00086	<T	0.00050	mg/L		29-MAY-20	R5102695
Zinc (Zn)-Total	0.0030	<T	0.0030	mg/L		29-MAY-20	R5102695
Zirconium (Zr)-Total	0.000266		0.000060	mg/L		29-MAY-20	R5102695
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					01-JUN-20	R5103322
Aluminum (Al)-Dissolved	0.0622		0.0010	mg/L		01-JUN-20	R5103378
Antimony (Sb)-Dissolved	0.000040	<DL	0.00010	mg/L		01-JUN-20	R5103378
Arsenic (As)-Dissolved	0.000930	<T	0.00010	mg/L		01-JUN-20	R5103378
Barium (Ba)-Dissolved	0.00878		0.00010	mg/L		01-JUN-20	R5103378
Beryllium (Be)-Dissolved	0.000010	<DL	0.00010	mg/L		01-JUN-20	R5103378

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-10 SW29 Sampled By: client on 13-MAY-20 @ 12:45 Matrix: water							
Dissolved Metals							
Bismuth (Bi)-Dissolved	0.000004	<DL	0.000050	mg/L		01-JUN-20	R5103378
Boron (B)-Dissolved	0.0085	<DL	0.010	mg/L		01-JUN-20	R5103378
Cadmium (Cd)-Dissolved	0.0000048	<DL	0.0000050	mg/L		01-JUN-20	R5103378
Calcium (Ca)-Dissolved	15.4		0.050	mg/L		01-JUN-20	R5103378
Cesium (Cs)-Dissolved	0.000002	<DL	0.000010	mg/L		01-JUN-20	R5103378
Chromium (Cr)-Dissolved	0.00020	<T	0.00010	mg/L		01-JUN-20	R5103378
Cobalt (Co)-Dissolved	0.000033	<DL	0.00010	mg/L		01-JUN-20	R5103378
Copper (Cu)-Dissolved	0.00064	<T	0.00020	mg/L		01-JUN-20	R5103378
Iron (Fe)-Dissolved	0.189		0.010	mg/L		01-JUN-20	R5103378
Lead (Pb)-Dissolved	0.000045	<DL	0.000050	mg/L		01-JUN-20	R5103378
Lithium (Li)-Dissolved	0.00358	<T	0.0010	mg/L		01-JUN-20	R5103378
Magnesium (Mg)-Dissolved	8.38		0.0050	mg/L		01-JUN-20	R5103378
Manganese (Mn)-Dissolved	0.00032		0.00010	mg/L		01-JUN-20	R5103378
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092738
Molybdenum (Mo)-Dissolved	0.000226	<T	0.000050	mg/L		01-JUN-20	R5103378
Nickel (Ni)-Dissolved	0.00070	<T	0.00050	mg/L		01-JUN-20	R5103378
Phosphorus (P)-Dissolved	0.008	<DL	0.050	mg/L		01-JUN-20	R5103378
Potassium (K)-Dissolved	0.816		0.050	mg/L		01-JUN-20	R5103378
Rubidium (Rb)-Dissolved	0.00127		0.00020	mg/L		01-JUN-20	R5103378
Selenium (Se)-Dissolved	0.000100		0.000050	mg/L		01-JUN-20	R5103378
Silicon (Si)-Dissolved	0.911		0.050	mg/L		01-JUN-20	R5103378
Silver (Ag)-Dissolved	0.000002	<DL	0.000010	mg/L		01-JUN-20	R5103378
Sodium (Na)-Dissolved	1.57		0.050	mg/L		01-JUN-20	R5103378
Strontium (Sr)-Dissolved	0.0315		0.00010	mg/L		01-JUN-20	R5103378
Sulfur (S)-Dissolved	1.1		0.50	mg/L		01-JUN-20	R5103378
Tellurium (Te)-Dissolved	0.000020	<DL	0.00020	mg/L		01-JUN-20	R5103378
Thallium (Tl)-Dissolved	0.000003	<DL	0.000010	mg/L		01-JUN-20	R5103378
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		01-JUN-20	R5103378
Tin (Sn)-Dissolved	0.00006	<DL	0.00010	mg/L		01-JUN-20	R5103378
Titanium (Ti)-Dissolved	0.00128		0.00030	mg/L		01-JUN-20	R5103378
Tungsten (W)-Dissolved	0.000088	<DL	0.00010	mg/L		01-JUN-20	R5103378
Uranium (U)-Dissolved	0.0000896	<T	0.000010	mg/L		01-JUN-20	R5103378
Vanadium (V)-Dissolved	0.00046	<DL	0.00050	mg/L		01-JUN-20	R5103378
Zinc (Zn)-Dissolved	0.0010	<T	0.0010	mg/L		01-JUN-20	R5103378
Zirconium (Zr)-Dissolved	0.000288		0.000060	mg/L		01-JUN-20	R5103378
Aggregate Organics							
Biochemical Oxygen Demand	2.7		2.0	mg/L		15-MAY-20	R5092734
COD	99		10	mg/L		21-MAY-20	R5094991
Oil and Grease, Total	1.0		1.0	mg/L	19-MAY-20	19-MAY-20	R5092259
L2447535-11 SW21A Sampled By: client on 13-MAY-20 @ 15:15 Matrix: water							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-11 SW21A							
Sampled By: client on 13-MAY-20 @ 15:15							
Matrix: water							
Field Tests							
Dissolved Oxygen, Client Supplied	3.42		0	mg/L		19-MAY-20	R5090757
pH, Client Supplied	7.77		0.10	pH		19-MAY-20	R5090757
Temperature, Client Supplied	10.42		0	Degree C		19-MAY-20	R5090757
Physical Tests							
Color, True	111		2.0	CU		15-MAY-20	R5087700
Conductivity (EC)	256		1.0	uS/cm		15-MAY-20	R5089476
Hardness (as CaCO3)	135		0.20	mg/L		05-JUN-20	
pH	7.90		0.10	pH		15-MAY-20	R5089476
Total Suspended Solids	9.0		2.0	mg/L		19-MAY-20	R5092579
Total Dissolved Solids	162		13	mg/L		19-MAY-20	R5092660
Turbidity	7.28		0.10	NTU		15-MAY-20	R5087298
Anions and Nutrients							
Acidity (as CaCO3)	0.8	<DL	2.0	mg/L		19-MAY-20	R5092571
Alkalinity, Total (as CaCO3)	125		2.0	mg/L		15-MAY-20	R5089476
Ammonia, Total (as N)	0.020	<T	0.020	mg/L		21-MAY-20	R5094647
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		22-MAY-20	
Chloride (Cl)	8.57		0.10	mg/L	15-MAY-20	15-MAY-20	R5089517
Fluoride (F)	0.063		0.020	mg/L	15-MAY-20	15-MAY-20	R5089517
Nitrate (as N)	0.002	<DL	0.020	mg/L		15-MAY-20	R5089517
Nitrite (as N)	<0.001	<W	0.010	mg/L		15-MAY-20	R5089517
Total Kjeldahl Nitrogen	0.60		0.18	mg/L	22-MAY-20	22-MAY-20	R5095336
Orthophosphate-Dissolved (as P)	0.0108		0.0030	mg/L		19-MAY-20	R5091180
Sulfate (SO4)	6.40		0.30	mg/L		15-MAY-20	R5089517
Cyanides							
Cyanide, Weak Acid Diss	0.0008	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Total	0.0008	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Free	0.0008	<DL	0.0020	mg/L		19-MAY-20	R5092542
Organic / Inorganic Carbon							
Dissolved Organic Carbon	24.2		0.50	mg/L		27-MAY-20	R5099930
Total Organic Carbon	30.7	DLM	2.5	mg/L		22-MAY-20	R5095730
Total Metals							
Aluminum (Al)-Total	0.317		0.0030	mg/L		29-MAY-20	R5102695
Antimony (Sb)-Total	<0.00002	<W	0.00010	mg/L		29-MAY-20	R5102695
Arsenic (As)-Total	0.00100	<T	0.00010	mg/L		29-MAY-20	R5102695
Barium (Ba)-Total	0.0209		0.00010	mg/L		29-MAY-20	R5102695
Beryllium (Be)-Total	0.000030	<DL	0.00010	mg/L		29-MAY-20	R5102695
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		29-MAY-20	R5102695
Boron (B)-Total	0.0140	<T	0.010	mg/L		29-MAY-20	R5102695
Cadmium (Cd)-Total	0.000013	<T	0.0000050	mg/L		29-MAY-20	R5102695
Calcium (Ca)-Total	32.9		0.050	mg/L		29-MAY-20	R5102695
Cesium (Cs)-Total	0.000047		0.000010	mg/L		29-MAY-20	R5102695
Chromium (Cr)-Total	0.00074	<T	0.00010	mg/L		29-MAY-20	R5102695

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-11 SW21A							
Sampled By: client on 13-MAY-20 @ 15:15							
Matrix: water							
Total Metals							
Cobalt (Co)-Total	0.000372	<T	0.00010	mg/L		29-MAY-20	R5102695
Copper (Cu)-Total	0.00124	<T	0.00050	mg/L		29-MAY-20	R5102695
Iron (Fe)-Total	0.688		0.010	mg/L		29-MAY-20	R5102695
Lead (Pb)-Total	0.000240	<T	0.000050	mg/L		29-MAY-20	R5102695
Lithium (Li)-Total	0.00536	<T	0.0010	mg/L		29-MAY-20	R5102695
Magnesium (Mg)-Total	14.8		0.0050	mg/L		29-MAY-20	R5102695
Manganese (Mn)-Total	0.0753		0.00010	mg/L		29-MAY-20	R5102695
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092681
Molybdenum (Mo)-Total	0.000480	<T	0.000050	mg/L		29-MAY-20	R5102695
Nickel (Ni)-Total	0.00190	<T	0.00050	mg/L		29-MAY-20	R5102695
Phosphorus (P)-Total	0.044	<DL	0.050	mg/L		29-MAY-20	R5102695
Potassium (K)-Total	1.53		0.050	mg/L		29-MAY-20	R5102695
Rubidium (Rb)-Total	0.00194		0.00020	mg/L		29-MAY-20	R5102695
Selenium (Se)-Total	0.000170		0.000050	mg/L		29-MAY-20	R5102695
Silicon (Si)-Total	1.56		0.10	mg/L		29-MAY-20	R5102695
Silver (Ag)-Total	0.000002	<DL	0.000010	mg/L		29-MAY-20	R5102695
Sodium (Na)-Total	5.47		0.050	mg/L		29-MAY-20	R5102695
Strontium (Sr)-Total	0.0765		0.00020	mg/L		29-MAY-20	R5102695
Sulfur (S)-Total	2.5		0.50	mg/L		29-MAY-20	R5102695
Tellurium (Te)-Total	0.000035	<DL	0.00020	mg/L		29-MAY-20	R5102695
Thallium (Tl)-Total	0.000005	<DL	0.000010	mg/L		29-MAY-20	R5102695
Thorium (Th)-Total	0.000055	<DL	0.00010	mg/L		29-MAY-20	R5102695
Tin (Sn)-Total	0.00008	<DL	0.00010	mg/L		29-MAY-20	R5102695
Titanium (Ti)-Total	0.00906		0.00030	mg/L		29-MAY-20	R5102695
Tungsten (W)-Total	0.000014	<DL	0.00010	mg/L		29-MAY-20	R5102695
Uranium (U)-Total	0.000615	<T	0.000010	mg/L		29-MAY-20	R5102695
Vanadium (V)-Total	0.00162	<T	0.00050	mg/L		29-MAY-20	R5102695
Zinc (Zn)-Total	0.0025	<DL	0.0030	mg/L		29-MAY-20	R5102695
Zirconium (Zr)-Total	0.000456		0.000060	mg/L		29-MAY-20	R5102695
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					01-JUN-20	R5103322
Aluminum (Al)-Dissolved	0.0102	<T	0.0010	mg/L		01-JUN-20	R5103378
Antimony (Sb)-Dissolved	0.000070	<DL	0.00010	mg/L		01-JUN-20	R5103378
Arsenic (As)-Dissolved	0.000895	<T	0.00010	mg/L		01-JUN-20	R5103378
Barium (Ba)-Dissolved	0.0178		0.00010	mg/L		01-JUN-20	R5103378
Beryllium (Be)-Dissolved	0.000018	<DL	0.00010	mg/L		01-JUN-20	R5103378
Bismuth (Bi)-Dissolved	0.000003	<DL	0.000050	mg/L		01-JUN-20	R5103378
Boron (B)-Dissolved	0.0120	<T	0.010	mg/L		01-JUN-20	R5103378
Cadmium (Cd)-Dissolved	0.0000066	<T	0.0000050	mg/L		01-JUN-20	R5103378
Calcium (Ca)-Dissolved	30.7		0.050	mg/L		01-JUN-20	R5103378
Cesium (Cs)-Dissolved	0.000003	<DL	0.000010	mg/L		01-JUN-20	R5103378

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-11 SW21A Sampled By: client on 13-MAY-20 @ 15:15 Matrix: water							
Dissolved Metals							
Chromium (Cr)-Dissolved	0.00020	<T	0.00010	mg/L		01-JUN-20	R5103378
Cobalt (Co)-Dissolved	0.000212	<T	0.00010	mg/L		01-JUN-20	R5103378
Copper (Cu)-Dissolved	0.00090	<T	0.00020	mg/L		01-JUN-20	R5103378
Iron (Fe)-Dissolved	0.269		0.010	mg/L		01-JUN-20	R5103378
Lead (Pb)-Dissolved	0.000095	<T	0.000050	mg/L		01-JUN-20	R5103378
Lithium (Li)-Dissolved	0.00498	<T	0.0010	mg/L		01-JUN-20	R5103378
Magnesium (Mg)-Dissolved	14.1		0.0050	mg/L		01-JUN-20	R5103378
Manganese (Mn)-Dissolved	0.0573		0.00010	mg/L		01-JUN-20	R5103378
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092738
Molybdenum (Mo)-Dissolved	0.000426	<T	0.000050	mg/L		01-JUN-20	R5103378
Nickel (Ni)-Dissolved	0.00152	<T	0.00050	mg/L		01-JUN-20	R5103378
Phosphorus (P)-Dissolved	0.026	<DL	0.050	mg/L		01-JUN-20	R5103378
Potassium (K)-Dissolved	1.47		0.050	mg/L		01-JUN-20	R5103378
Rubidium (Rb)-Dissolved	0.00107		0.00020	mg/L		01-JUN-20	R5103378
Selenium (Se)-Dissolved	0.000185		0.000050	mg/L		01-JUN-20	R5103378
Silicon (Si)-Dissolved	0.889		0.050	mg/L		01-JUN-20	R5103378
Silver (Ag)-Dissolved	0.000001	<DL	0.000010	mg/L		01-JUN-20	R5103378
Sodium (Na)-Dissolved	5.27		0.050	mg/L		01-JUN-20	R5103378
Strontium (Sr)-Dissolved	0.0748		0.00010	mg/L		01-JUN-20	R5103378
Sulfur (S)-Dissolved	2.4		0.50	mg/L		01-JUN-20	R5103378
Tellurium (Te)-Dissolved	0.000015	<DL	0.00020	mg/L		01-JUN-20	R5103378
Thallium (Tl)-Dissolved	0.000002	<DL	0.000010	mg/L		01-JUN-20	R5103378
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		01-JUN-20	R5103378
Tin (Sn)-Dissolved	0.00009	<DL	0.00010	mg/L		01-JUN-20	R5103378
Titanium (Ti)-Dissolved	0.00052		0.00030	mg/L		01-JUN-20	R5103378
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		01-JUN-20	R5103378
Uranium (U)-Dissolved	0.000508	<T	0.000010	mg/L		01-JUN-20	R5103378
Vanadium (V)-Dissolved	0.00072	<T	0.00050	mg/L		01-JUN-20	R5103378
Zinc (Zn)-Dissolved	0.0008	<DL	0.0010	mg/L		01-JUN-20	R5103378
Zirconium (Zr)-Dissolved	0.000362		0.000060	mg/L		01-JUN-20	R5103378
Aggregate Organics							
Biochemical Oxygen Demand	5.0		2.0	mg/L		15-MAY-20	R5092734
COD	65		10	mg/L		21-MAY-20	R5094991
Oil and Grease, Total	0.8	<DL	1.0	mg/L	19-MAY-20	19-MAY-20	R5092259
L2447535-12 SW27 Sampled By: client on 13-MAY-20 @ 15:30 Matrix: water							
Field Tests							
Dissolved Oxygen, Client Supplied	6.51		0	mg/L		19-MAY-20	R5090757
pH, Client Supplied	7.91		0.10	pH		19-MAY-20	R5090757
Temperature, Client Supplied	8.92		0	Degree C		19-MAY-20	R5090757
Physical Tests							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-12 SW27							
Sampled By: client on 13-MAY-20 @ 15:30							
Matrix: water							
Physical Tests							
Color, True	49.7		2.0	CU		15-MAY-20	R5087700
Conductivity (EC)	318		1.0	uS/cm		15-MAY-20	R5089476
Hardness (as CaCO3)	168		0.20	mg/L		05-JUN-20	
pH	8.09		0.10	pH		15-MAY-20	R5089476
Total Suspended Solids	2.0	<T	2.0	mg/L		19-MAY-20	R5092579
Total Dissolved Solids	174		20	mg/L		19-MAY-20	R5092660
Turbidity	3.68		0.10	NTU		15-MAY-20	R5087298
Anions and Nutrients							
Acidity (as CaCO3)	0.2	<DL	2.0	mg/L		19-MAY-20	R5092571
Alkalinity, Total (as CaCO3)	151		2.0	mg/L		15-MAY-20	R5089476
Ammonia, Total (as N)	0.018	<DL	0.020	mg/L		21-MAY-20	R5094647
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		22-MAY-20	
Chloride (Cl)	9.61		0.10	mg/L	15-MAY-20	15-MAY-20	R5089517
Fluoride (F)	0.077		0.020	mg/L	15-MAY-20	15-MAY-20	R5089517
Nitrate (as N)	0.006	<DL	0.020	mg/L		15-MAY-20	R5089517
Nitrite (as N)	<0.001	<W	0.010	mg/L		15-MAY-20	R5089517
Total Kjeldahl Nitrogen	0.55		0.18	mg/L	22-MAY-20	22-MAY-20	R5095336
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		19-MAY-20	R5091180
Sulfate (SO4)	17.1		0.30	mg/L		15-MAY-20	R5089517
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Total	0.0006	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Free	0.0002	<DL	0.0020	mg/L		19-MAY-20	R5092542
Organic / Inorganic Carbon							
Dissolved Organic Carbon	14.5		0.50	mg/L		27-MAY-20	R5099930
Total Organic Carbon	19.4	DLM	2.5	mg/L		22-MAY-20	R5095730
Total Metals							
Aluminum (Al)-Total	0.125		0.0030	mg/L		29-MAY-20	R5102695
Antimony (Sb)-Total	0.00006	<DL	0.00010	mg/L		29-MAY-20	R5102695
Arsenic (As)-Total	0.00076	<T	0.00010	mg/L		29-MAY-20	R5102695
Barium (Ba)-Total	0.0198		0.00010	mg/L		29-MAY-20	R5102695
Beryllium (Be)-Total	0.000016	<DL	0.00010	mg/L		29-MAY-20	R5102695
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		29-MAY-20	R5102695
Boron (B)-Total	0.0120	<T	0.010	mg/L		29-MAY-20	R5102695
Cadmium (Cd)-Total	0.000010	<T	0.000050	mg/L		29-MAY-20	R5102695
Calcium (Ca)-Total	39.9		0.050	mg/L		29-MAY-20	R5102695
Cesium (Cs)-Total	0.000017		0.000010	mg/L		29-MAY-20	R5102695
Chromium (Cr)-Total	0.00028	<T	0.00010	mg/L		29-MAY-20	R5102695
Cobalt (Co)-Total	0.000214	<T	0.00010	mg/L		29-MAY-20	R5102695
Copper (Cu)-Total	0.00194	<T	0.00050	mg/L		29-MAY-20	R5102695
Iron (Fe)-Total	0.239		0.010	mg/L		29-MAY-20	R5102695
Lead (Pb)-Total	0.000095	<T	0.000050	mg/L		29-MAY-20	R5102695

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-12 SW27							
Sampled By: client on 13-MAY-20 @ 15:30							
Matrix: water							
Total Metals							
Lithium (Li)-Total	0.00532	<T	0.0010	mg/L		29-MAY-20	R5102695
Magnesium (Mg)-Total	17.0		0.0050	mg/L		29-MAY-20	R5102695
Manganese (Mn)-Total	0.0356		0.00010	mg/L		29-MAY-20	R5102695
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092681
Molybdenum (Mo)-Total	0.00100	<T	0.000050	mg/L		29-MAY-20	R5102695
Nickel (Ni)-Total	0.00134	<T	0.000050	mg/L		29-MAY-20	R5102695
Phosphorus (P)-Total	0.014	<DL	0.050	mg/L		29-MAY-20	R5102695
Potassium (K)-Total	1.70		0.050	mg/L		29-MAY-20	R5102695
Rubidium (Rb)-Total	0.00127		0.00020	mg/L		29-MAY-20	R5102695
Selenium (Se)-Total	0.000185		0.000050	mg/L		29-MAY-20	R5102695
Silicon (Si)-Total	1.80		0.10	mg/L		29-MAY-20	R5102695
Silver (Ag)-Total	0.000002	<DL	0.000010	mg/L		29-MAY-20	R5102695
Sodium (Na)-Total	5.33		0.050	mg/L		29-MAY-20	R5102695
Strontium (Sr)-Total	0.0853		0.00020	mg/L		29-MAY-20	R5102695
Sulfur (S)-Total	5.5		0.50	mg/L		29-MAY-20	R5102695
Tellurium (Te)-Total	0.000015	<DL	0.00020	mg/L		29-MAY-20	R5102695
Thallium (Tl)-Total	0.000002	<DL	0.000010	mg/L		29-MAY-20	R5102695
Thorium (Th)-Total	0.000030	<DL	0.00010	mg/L		29-MAY-20	R5102695
Tin (Sn)-Total	0.00018		0.00010	mg/L		29-MAY-20	R5102695
Titanium (Ti)-Total	0.00422		0.00030	mg/L		29-MAY-20	R5102695
Tungsten (W)-Total	0.000004	<DL	0.00010	mg/L		29-MAY-20	R5102695
Uranium (U)-Total	0.00151	<T	0.000010	mg/L		29-MAY-20	R5102695
Vanadium (V)-Total	0.00090	<T	0.00050	mg/L		29-MAY-20	R5102695
Zinc (Zn)-Total	0.0045	<T	0.0030	mg/L		29-MAY-20	R5102695
Zirconium (Zr)-Total	0.000268		0.000060	mg/L		29-MAY-20	R5102695
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					01-JUN-20	R5103322
Aluminum (Al)-Dissolved	0.0080	<T	0.0010	mg/L		01-JUN-20	R5103378
Antimony (Sb)-Dissolved	0.000110	<T	0.00010	mg/L		01-JUN-20	R5103378
Arsenic (As)-Dissolved	0.000715	<T	0.00010	mg/L		01-JUN-20	R5103378
Barium (Ba)-Dissolved	0.0181		0.00010	mg/L		01-JUN-20	R5103378
Beryllium (Be)-Dissolved	0.000004	<DL	0.00010	mg/L		01-JUN-20	R5103378
Bismuth (Bi)-Dissolved	0.000001	<DL	0.000050	mg/L		01-JUN-20	R5103378
Boron (B)-Dissolved	0.0115	<T	0.010	mg/L		01-JUN-20	R5103378
Cadmium (Cd)-Dissolved	0.0000072	<T	0.0000050	mg/L		01-JUN-20	R5103378
Calcium (Ca)-Dissolved	39.9		0.050	mg/L		01-JUN-20	R5103378
Cesium (Cs)-Dissolved	0.000003	<DL	0.000010	mg/L		01-JUN-20	R5103378
Chromium (Cr)-Dissolved	0.00012	<T	0.00010	mg/L		01-JUN-20	R5103378
Cobalt (Co)-Dissolved	0.000158	<T	0.00010	mg/L		01-JUN-20	R5103378
Copper (Cu)-Dissolved	0.00168	<T	0.00020	mg/L		01-JUN-20	R5103378
Iron (Fe)-Dissolved	0.0974		0.010	mg/L		01-JUN-20	R5103378

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-12 SW27 Sampled By: client on 13-MAY-20 @ 15:30 Matrix: water							
Dissolved Metals							
Lead (Pb)-Dissolved	0.000035	<DL	0.000050	mg/L		01-JUN-20	R5103378
Lithium (Li)-Dissolved	0.00536	<T	0.0010	mg/L		01-JUN-20	R5103378
Magnesium (Mg)-Dissolved	16.5		0.0050	mg/L		01-JUN-20	R5103378
Manganese (Mn)-Dissolved	0.0295		0.00010	mg/L		01-JUN-20	R5103378
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092738
Molybdenum (Mo)-Dissolved	0.000938	<T	0.000050	mg/L		01-JUN-20	R5103378
Nickel (Ni)-Dissolved	0.00120	<T	0.00050	mg/L		01-JUN-20	R5103378
Phosphorus (P)-Dissolved	0.022	<DL	0.050	mg/L		01-JUN-20	R5103378
Potassium (K)-Dissolved	1.71		0.050	mg/L		01-JUN-20	R5103378
Rubidium (Rb)-Dissolved	0.00107		0.00020	mg/L		01-JUN-20	R5103378
Selenium (Se)-Dissolved	0.000160		0.000050	mg/L		01-JUN-20	R5103378
Silicon (Si)-Dissolved	1.53		0.050	mg/L		01-JUN-20	R5103378
Silver (Ag)-Dissolved	0.000001	<DL	0.000010	mg/L		01-JUN-20	R5103378
Sodium (Na)-Dissolved	5.10		0.050	mg/L		01-JUN-20	R5103378
Strontium (Sr)-Dissolved	0.0838		0.00010	mg/L		01-JUN-20	R5103378
Sulfur (S)-Dissolved	5.3		0.50	mg/L		01-JUN-20	R5103378
Tellurium (Te)-Dissolved	<0.000005	<W	0.000020	mg/L		01-JUN-20	R5103378
Thallium (Tl)-Dissolved	0.000002	<DL	0.000010	mg/L		01-JUN-20	R5103378
Thorium (Th)-Dissolved	0.00002	<DL	0.00010	mg/L		01-JUN-20	R5103378
Tin (Sn)-Dissolved	0.00006	<DL	0.00010	mg/L		01-JUN-20	R5103378
Titanium (Ti)-Dissolved	0.00090		0.00030	mg/L		01-JUN-20	R5103378
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		01-JUN-20	R5103378
Uranium (U)-Dissolved	0.00136	<T	0.000010	mg/L		01-JUN-20	R5103378
Vanadium (V)-Dissolved	0.00046	<DL	0.00050	mg/L		01-JUN-20	R5103378
Zinc (Zn)-Dissolved	0.0036	<T	0.0010	mg/L		01-JUN-20	R5103378
Zirconium (Zr)-Dissolved	0.000240		0.000060	mg/L		01-JUN-20	R5103378
Aggregate Organics							
Biochemical Oxygen Demand	2.2		2.0	mg/L		15-MAY-20	R5092734
COD	38		10	mg/L		21-MAY-20	R5094991
Oil and Grease, Total	0.8	<DL	1.0	mg/L	19-MAY-20	19-MAY-20	R5092259
L2447535-13 SW22A Sampled By: client on 13-MAY-20 @ 16:00 Matrix: water							
Field Tests							
Dissolved Oxygen, Client Supplied	5.96		0	mg/L		19-MAY-20	R5090757
pH, Client Supplied	7.9		0.10	pH		19-MAY-20	R5090757
Temperature, Client Supplied	10.4		0	Degree C		19-MAY-20	R5090757
Physical Tests							
Color, True	92.5		2.0	CU		15-MAY-20	R5087700
Conductivity (EC)	278		1.0	uS/cm		15-MAY-20	R5089476
Hardness (as CaCO3)	149		0.20	mg/L		05-JUN-20	
pH	8.01		0.10	pH		15-MAY-20	R5089476

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-13 SW22A							
Sampled By: client on 13-MAY-20 @ 16:00							
Matrix: water							
Physical Tests							
Total Suspended Solids	9.5		2.0	mg/L		19-MAY-20	R5092579
Total Dissolved Solids	130		20	mg/L		19-MAY-20	R5092660
Turbidity	7.25		0.10	NTU		15-MAY-20	R5087298
Anions and Nutrients							
Acidity (as CaCO3)	0.6	<DL	2.0	mg/L		19-MAY-20	R5092571
Alkalinity, Total (as CaCO3)	135		2.0	mg/L		15-MAY-20	R5089476
Ammonia, Total (as N)	0.020	<T	0.020	mg/L		21-MAY-20	R5094647
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		22-MAY-20	
Chloride (Cl)	8.82		0.10	mg/L	15-MAY-20	15-MAY-20	R5089517
Fluoride (F)	0.070		0.020	mg/L	15-MAY-20	15-MAY-20	R5089517
Nitrate (as N)	0.004	<DL	0.020	mg/L		15-MAY-20	R5089517
Nitrite (as N)	<0.001	<W	0.010	mg/L		15-MAY-20	R5089517
Total Kjeldahl Nitrogen	0.70		0.18	mg/L	22-MAY-20	22-MAY-20	R5095336
Orthophosphate-Dissolved (as P)	0.0081		0.0030	mg/L		19-MAY-20	R5091180
Sulfate (SO4)	9.70		0.30	mg/L		15-MAY-20	R5089517
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Total	0.0008	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Free	0.0004	<DL	0.0020	mg/L		19-MAY-20	R5092542
Organic / Inorganic Carbon							
Dissolved Organic Carbon	22.1		0.50	mg/L		27-MAY-20	R5099930
Total Organic Carbon	26.3	DLM	2.5	mg/L		22-MAY-20	R5095730
Total Metals							
Aluminum (Al)-Total	0.241		0.0030	mg/L		29-MAY-20	R5102695
Antimony (Sb)-Total	0.00004	<DL	0.00010	mg/L		29-MAY-20	R5102695
Arsenic (As)-Total	0.00097	<T	0.00010	mg/L		29-MAY-20	R5102695
Barium (Ba)-Total	0.0212		0.00010	mg/L		29-MAY-20	R5102695
Beryllium (Be)-Total	0.000020	<DL	0.00010	mg/L		29-MAY-20	R5102695
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		29-MAY-20	R5102695
Boron (B)-Total	0.0130	<T	0.010	mg/L		29-MAY-20	R5102695
Cadmium (Cd)-Total	0.000010	<T	0.0000050	mg/L		29-MAY-20	R5102695
Calcium (Ca)-Total	34.8		0.050	mg/L		29-MAY-20	R5102695
Cesium (Cs)-Total	0.000029		0.000010	mg/L		29-MAY-20	R5102695
Chromium (Cr)-Total	0.00058	<T	0.00010	mg/L		29-MAY-20	R5102695
Cobalt (Co)-Total	0.000348	<T	0.00010	mg/L		29-MAY-20	R5102695
Copper (Cu)-Total	0.00144	<T	0.00050	mg/L		29-MAY-20	R5102695
Iron (Fe)-Total	0.562		0.010	mg/L		29-MAY-20	R5102695
Lead (Pb)-Total	0.000230	<T	0.000050	mg/L		29-MAY-20	R5102695
Lithium (Li)-Total	0.00542	<T	0.0010	mg/L		29-MAY-20	R5102695
Magnesium (Mg)-Total	15.9		0.0050	mg/L		29-MAY-20	R5102695
Manganese (Mn)-Total	0.0684		0.00010	mg/L		29-MAY-20	R5102695
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		20-MAY-20	R5092681

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-13 SW22A							
Sampled By: client on 13-MAY-20 @ 16:00							
Matrix: water							
Total Metals							
Molybdenum (Mo)-Total	0.000625	<T	0.000050	mg/L		29-MAY-20	R5102695
Nickel (Ni)-Total	0.00170	<T	0.00050	mg/L		29-MAY-20	R5102695
Phosphorus (P)-Total	0.032	<DL	0.050	mg/L		29-MAY-20	R5102695
Potassium (K)-Total	1.56		0.050	mg/L		29-MAY-20	R5102695
Rubidium (Rb)-Total	0.00161		0.00020	mg/L		29-MAY-20	R5102695
Selenium (Se)-Total	0.000180		0.000050	mg/L		29-MAY-20	R5102695
Silicon (Si)-Total	1.59		0.10	mg/L		29-MAY-20	R5102695
Silver (Ag)-Total	0.000002	<DL	0.000010	mg/L		29-MAY-20	R5102695
Sodium (Na)-Total	5.55		0.050	mg/L		29-MAY-20	R5102695
Strontium (Sr)-Total	0.0818		0.00020	mg/L		29-MAY-20	R5102695
Sulfur (S)-Total	3.4		0.50	mg/L		29-MAY-20	R5102695
Tellurium (Te)-Total	0.000025	<DL	0.00020	mg/L		29-MAY-20	R5102695
Thallium (Tl)-Total	0.000004	<DL	0.000010	mg/L		29-MAY-20	R5102695
Thorium (Th)-Total	0.000045	<DL	0.00010	mg/L		29-MAY-20	R5102695
Tin (Sn)-Total	0.00018		0.00010	mg/L		29-MAY-20	R5102695
Titanium (Ti)-Total	0.00660		0.00030	mg/L		29-MAY-20	R5102695
Tungsten (W)-Total	0.000010	<DL	0.00010	mg/L		29-MAY-20	R5102695
Uranium (U)-Total	0.000909	<T	0.000010	mg/L		29-MAY-20	R5102695
Vanadium (V)-Total	0.00138	<T	0.00050	mg/L		29-MAY-20	R5102695
Zinc (Zn)-Total	0.0040	<T	0.0030	mg/L		29-MAY-20	R5102695
Zirconium (Zr)-Total	0.000440		0.000060	mg/L		29-MAY-20	R5102695
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					01-JUN-20	R5103322
Aluminum (Al)-Dissolved	0.0082	<T	0.0010	mg/L		01-JUN-20	R5103378
Antimony (Sb)-Dissolved	0.000080	<DL	0.00010	mg/L		01-JUN-20	R5103378
Arsenic (As)-Dissolved	0.000840	<T	0.00010	mg/L		01-JUN-20	R5103378
Barium (Ba)-Dissolved	0.0184		0.00010	mg/L		01-JUN-20	R5103378
Beryllium (Be)-Dissolved	0.000014	<DL	0.00010	mg/L		01-JUN-20	R5103378
Bismuth (Bi)-Dissolved	0.000002	<DL	0.000050	mg/L		01-JUN-20	R5103378
Boron (B)-Dissolved	0.0120	<T	0.010	mg/L		01-JUN-20	R5103378
Cadmium (Cd)-Dissolved	0.0000054	<T	0.0000050	mg/L		01-JUN-20	R5103378
Calcium (Ca)-Dissolved	34.3		0.050	mg/L		01-JUN-20	R5103378
Cesium (Cs)-Dissolved	0.000003	<DL	0.000010	mg/L		01-JUN-20	R5103378
Chromium (Cr)-Dissolved	0.00018	<T	0.00010	mg/L		01-JUN-20	R5103378
Cobalt (Co)-Dissolved	0.000213	<T	0.00010	mg/L		01-JUN-20	R5103378
Copper (Cu)-Dissolved	0.00114	<T	0.00020	mg/L		01-JUN-20	R5103378
Iron (Fe)-Dissolved	0.217		0.010	mg/L		01-JUN-20	R5103378
Lead (Pb)-Dissolved	0.000085	<T	0.000050	mg/L		01-JUN-20	R5103378
Lithium (Li)-Dissolved	0.00516	<T	0.0010	mg/L		01-JUN-20	R5103378
Magnesium (Mg)-Dissolved	15.2		0.0050	mg/L		01-JUN-20	R5103378
Manganese (Mn)-Dissolved	0.0556		0.00010	mg/L		01-JUN-20	R5103378

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-13 SW22A Sampled By: client on 13-MAY-20 @ 16:00 Matrix: water							
Dissolved Metals							
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092738
Molybdenum (Mo)-Dissolved	0.000570	<T	0.000050	mg/L		01-JUN-20	R5103378
Nickel (Ni)-Dissolved	0.00144	<T	0.00050	mg/L		01-JUN-20	R5103378
Phosphorus (P)-Dissolved	0.026	<DL	0.050	mg/L		01-JUN-20	R5103378
Potassium (K)-Dissolved	1.55		0.050	mg/L		01-JUN-20	R5103378
Rubidium (Rb)-Dissolved	0.00105		0.00020	mg/L		01-JUN-20	R5103378
Selenium (Se)-Dissolved	0.000155		0.000050	mg/L		01-JUN-20	R5103378
Silicon (Si)-Dissolved	1.14		0.050	mg/L		01-JUN-20	R5103378
Silver (Ag)-Dissolved	<0.000001	<W	0.000010	mg/L		01-JUN-20	R5103378
Sodium (Na)-Dissolved	5.25		0.050	mg/L		01-JUN-20	R5103378
Strontium (Sr)-Dissolved	0.0775		0.00010	mg/L		01-JUN-20	R5103378
Sulfur (S)-Dissolved	3.5		0.50	mg/L		01-JUN-20	R5103378
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		01-JUN-20	R5103378
Thallium (Tl)-Dissolved	0.000002	<DL	0.000010	mg/L		01-JUN-20	R5103378
Thorium (Th)-Dissolved	0.00002	<DL	0.00010	mg/L		01-JUN-20	R5103378
Tin (Sn)-Dissolved	0.00007	<DL	0.00010	mg/L		01-JUN-20	R5103378
Titanium (Ti)-Dissolved	0.00050		0.00030	mg/L		01-JUN-20	R5103378
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		01-JUN-20	R5103378
Uranium (U)-Dissolved	0.000812	<T	0.000010	mg/L		01-JUN-20	R5103378
Vanadium (V)-Dissolved	0.00068	<T	0.00050	mg/L		01-JUN-20	R5103378
Zinc (Zn)-Dissolved	0.0016	<T	0.0010	mg/L		01-JUN-20	R5103378
Zirconium (Zr)-Dissolved	0.000320		0.000060	mg/L		01-JUN-20	R5103378
Aggregate Organics							
Biochemical Oxygen Demand	2.2		2.0	mg/L		15-MAY-20	R5092734
COD	57		10	mg/L		21-MAY-20	R5094991
Oil and Grease, Total	0.6	<DL	1.0	mg/L	19-MAY-20	19-MAY-20	R5092259
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		22-MAY-20	R5095780
L2447535-14 SW10 Sampled By: client on 14-MAY-20 @ 08:30 Matrix: water							
Field Tests							
Dissolved Oxygen, Client Supplied	3.15		0	mg/L		19-MAY-20	R5090757
pH, Client Supplied	7.53		0.10	pH		19-MAY-20	R5090757
Temperature, Client Supplied	10.34		0	Degree C		19-MAY-20	R5090757
Physical Tests							
Color, True	136		2.0	CU		15-MAY-20	R5087700
Conductivity (EC)	223		1.0	uS/cm		15-MAY-20	R5089476
Hardness (as CaCO3)	113		0.20	mg/L		05-JUN-20	
pH	7.83		0.10	pH		15-MAY-20	R5089476
Total Suspended Solids	5.0		2.0	mg/L		19-MAY-20	R5092579
Total Dissolved Solids	156		20	mg/L		19-MAY-20	R5092660

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-14 SW10							
Sampled By: client on 14-MAY-20 @ 08:30							
Matrix: water							
Physical Tests							
Turbidity	3.70		0.10	NTU		15-MAY-20	R5087298
Anions and Nutrients							
Acidity (as CaCO3)	0.8	<DL	2.0	mg/L		19-MAY-20	R5092571
Alkalinity, Total (as CaCO3)	103		2.0	mg/L		15-MAY-20	R5089476
Ammonia, Total (as N)	0.022	<T	0.020	mg/L		22-MAY-20	R5096029
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		25-MAY-20	
Chloride (Cl)	12.7		0.10	mg/L	15-MAY-20	15-MAY-20	R5089517
Fluoride (F)	0.050		0.020	mg/L	15-MAY-20	15-MAY-20	R5089517
Nitrate (as N)	0.008	<DL	0.020	mg/L		15-MAY-20	R5089517
Nitrite (as N)	<0.001	<W	0.010	mg/L		19-MAY-20	R5092873
Total Kjeldahl Nitrogen	1.05		0.18	mg/L	22-MAY-20	22-MAY-20	R5095336
Orthophosphate-Dissolved (as P)	0.0070		0.0030	mg/L		19-MAY-20	R5091180
Sulfate (SO4)	3.70	<T	0.30	mg/L		15-MAY-20	R5089517
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Total	0.0008	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Free	0.0004	<DL	0.0020	mg/L		19-MAY-20	R5092542
Organic / Inorganic Carbon							
Dissolved Organic Carbon	26.4		0.50	mg/L		27-MAY-20	R5099930
Total Organic Carbon	32.1	DLM	2.5	mg/L		22-MAY-20	R5095730
Total Metals							
Aluminum (Al)-Total	0.186		0.0030	mg/L		29-MAY-20	R5102695
Antimony (Sb)-Total	0.00004	<DL	0.00010	mg/L		29-MAY-20	R5102695
Arsenic (As)-Total	0.00096	<T	0.00010	mg/L		29-MAY-20	R5102695
Barium (Ba)-Total	0.0163		0.00010	mg/L		29-MAY-20	R5102695
Beryllium (Be)-Total	0.000024	<DL	0.00010	mg/L		29-MAY-20	R5102695
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		29-MAY-20	R5102695
Boron (B)-Total	0.0125	<T	0.010	mg/L		29-MAY-20	R5102695
Cadmium (Cd)-Total	0.000012	<T	0.000050	mg/L		29-MAY-20	R5102695
Calcium (Ca)-Total	26.2		0.050	mg/L		29-MAY-20	R5102695
Cesium (Cs)-Total	0.000024		0.000010	mg/L		29-MAY-20	R5102695
Chromium (Cr)-Total	0.00050	<T	0.00010	mg/L		29-MAY-20	R5102695
Cobalt (Co)-Total	0.000242	<T	0.00010	mg/L		29-MAY-20	R5102695
Copper (Cu)-Total	0.00122	<T	0.00050	mg/L		29-MAY-20	R5102695
Iron (Fe)-Total	0.461		0.010	mg/L		29-MAY-20	R5102695
Lead (Pb)-Total	0.000130	<T	0.000050	mg/L		29-MAY-20	R5102695
Lithium (Li)-Total	0.00476	<T	0.0010	mg/L		29-MAY-20	R5102695
Magnesium (Mg)-Total	12.4		0.0050	mg/L		29-MAY-20	R5102695
Manganese (Mn)-Total	0.0471		0.00010	mg/L		29-MAY-20	R5102695
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092681
Molybdenum (Mo)-Total	0.000415	<T	0.000050	mg/L		29-MAY-20	R5102695
Nickel (Ni)-Total	0.00156	<T	0.00050	mg/L		29-MAY-20	R5102695

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-14 SW10							
Sampled By: client on 14-MAY-20 @ 08:30							
Matrix: water							
Total Metals							
Phosphorus (P)-Total	0.028	<DL	0.050	mg/L		29-MAY-20	R5102695
Potassium (K)-Total	1.30		0.050	mg/L		29-MAY-20	R5102695
Rubidium (Rb)-Total	0.00153		0.00020	mg/L		29-MAY-20	R5102695
Selenium (Se)-Total	0.000205		0.000050	mg/L		29-MAY-20	R5102695
Silicon (Si)-Total	1.03		0.10	mg/L		29-MAY-20	R5102695
Silver (Ag)-Total	<0.000002	<W	0.000010	mg/L		29-MAY-20	R5102695
Sodium (Na)-Total	6.52		0.050	mg/L		29-MAY-20	R5102695
Strontium (Sr)-Total	0.0649		0.00020	mg/L		29-MAY-20	R5102695
Sulfur (S)-Total	1.8		0.50	mg/L		29-MAY-20	R5102695
Tellurium (Te)-Total	0.000040	<DL	0.00020	mg/L		29-MAY-20	R5102695
Thallium (Tl)-Total	0.000003	<DL	0.000010	mg/L		29-MAY-20	R5102695
Thorium (Th)-Total	0.000055	<DL	0.00010	mg/L		29-MAY-20	R5102695
Tin (Sn)-Total	0.00016		0.00010	mg/L		29-MAY-20	R5102695
Titanium (Ti)-Total	0.00518		0.00030	mg/L		29-MAY-20	R5102695
Tungsten (W)-Total	0.000004	<DL	0.00010	mg/L		29-MAY-20	R5102695
Uranium (U)-Total	0.000499	<T	0.000010	mg/L		29-MAY-20	R5102695
Vanadium (V)-Total	0.00120	<T	0.00050	mg/L		29-MAY-20	R5102695
Zinc (Zn)-Total	0.0020	<DL	0.0030	mg/L		29-MAY-20	R5102695
Zirconium (Zr)-Total	0.000454		0.000060	mg/L		29-MAY-20	R5102695
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					01-JUN-20	R5103322
Aluminum (Al)-Dissolved	0.0238	<T	0.0010	mg/L		01-JUN-20	R5103378
Antimony (Sb)-Dissolved	0.000050	<DL	0.00010	mg/L		01-JUN-20	R5103378
Arsenic (As)-Dissolved	0.000830	<T	0.00010	mg/L		01-JUN-20	R5103378
Barium (Ba)-Dissolved	0.0145		0.00010	mg/L		01-JUN-20	R5103378
Beryllium (Be)-Dissolved	0.000014	<DL	0.00010	mg/L		01-JUN-20	R5103378
Bismuth (Bi)-Dissolved	0.000001	<DL	0.000050	mg/L		01-JUN-20	R5103378
Boron (B)-Dissolved	0.0110	<T	0.010	mg/L		01-JUN-20	R5103378
Cadmium (Cd)-Dissolved	0.0000072	<T	0.0000050	mg/L		01-JUN-20	R5103378
Calcium (Ca)-Dissolved	25.7		0.050	mg/L		01-JUN-20	R5103378
Cesium (Cs)-Dissolved	0.000003	<DL	0.000010	mg/L		01-JUN-20	R5103378
Chromium (Cr)-Dissolved	0.00022	<T	0.00010	mg/L		01-JUN-20	R5103378
Cobalt (Co)-Dissolved	0.000167	<T	0.00010	mg/L		01-JUN-20	R5103378
Copper (Cu)-Dissolved	0.00098	<T	0.00020	mg/L		01-JUN-20	R5103378
Iron (Fe)-Dissolved	0.262		0.010	mg/L		01-JUN-20	R5103378
Lead (Pb)-Dissolved	0.000065	<T	0.000050	mg/L		01-JUN-20	R5103378
Lithium (Li)-Dissolved	0.00454	<T	0.0010	mg/L		01-JUN-20	R5103378
Magnesium (Mg)-Dissolved	11.8		0.0050	mg/L		01-JUN-20	R5103378
Manganese (Mn)-Dissolved	0.0393		0.00010	mg/L		01-JUN-20	R5103378
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092738
Molybdenum (Mo)-Dissolved	0.000382	<T	0.000050	mg/L		01-JUN-20	R5103378

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-14 SW10 Sampled By: client on 14-MAY-20 @ 08:30 Matrix: water							
Dissolved Metals							
Nickel (Ni)-Dissolved	0.00138	<T	0.00050	mg/L		01-JUN-20	R5103378
Phosphorus (P)-Dissolved	0.024	<DL	0.050	mg/L		01-JUN-20	R5103378
Potassium (K)-Dissolved	1.29		0.050	mg/L		01-JUN-20	R5103378
Rubidium (Rb)-Dissolved	0.00115		0.00020	mg/L		01-JUN-20	R5103378
Selenium (Se)-Dissolved	0.000130		0.000050	mg/L		01-JUN-20	R5103378
Silicon (Si)-Dissolved	0.672		0.050	mg/L		01-JUN-20	R5103378
Silver (Ag)-Dissolved	0.000001	<DL	0.000010	mg/L		01-JUN-20	R5103378
Sodium (Na)-Dissolved	6.26		0.050	mg/L		01-JUN-20	R5103378
Strontium (Sr)-Dissolved	0.0640		0.00010	mg/L		01-JUN-20	R5103378
Sulfur (S)-Dissolved	1.5		0.50	mg/L		01-JUN-20	R5103378
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		01-JUN-20	R5103378
Thallium (Tl)-Dissolved	0.000002	<DL	0.000010	mg/L		01-JUN-20	R5103378
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		01-JUN-20	R5103378
Tin (Sn)-Dissolved	0.00023		0.00010	mg/L		01-JUN-20	R5103378
Titanium (Ti)-Dissolved	0.00060		0.00030	mg/L		01-JUN-20	R5103378
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		01-JUN-20	R5103378
Uranium (U)-Dissolved	0.000427	<T	0.000010	mg/L		01-JUN-20	R5103378
Vanadium (V)-Dissolved	0.00054	<T	0.00050	mg/L		01-JUN-20	R5103378
Zinc (Zn)-Dissolved	0.0012	<T	0.0010	mg/L		01-JUN-20	R5103378
Zirconium (Zr)-Dissolved	0.000384		0.000060	mg/L		01-JUN-20	R5103378
Aggregate Organics							
Biochemical Oxygen Demand	2.2		2.0	mg/L		15-MAY-20	R5092734
COD	73		10	mg/L		21-MAY-20	R5094991
Oil and Grease, Total	0.6	<DL	1.0	mg/L	19-MAY-20	19-MAY-20	R5092259
L2447535-15 SW28A Sampled By: client on 14-MAY-20 @ 08:50 Matrix: water							
Field Tests							
Dissolved Oxygen, Client Supplied	4.42		0	mg/L		19-MAY-20	R5090757
pH, Client Supplied	7.82		0.10	pH		19-MAY-20	R5090757
Temperature, Client Supplied	8.09		0	Degree C		19-MAY-20	R5090757
Physical Tests							
Color, True	62.9		2.0	CU		15-MAY-20	R5087700
Conductivity (EC)	356		1.0	uS/cm		15-MAY-20	R5089476
Hardness (as CaCO3)	203		0.20	mg/L		05-JUN-20	
pH	8.17		0.10	pH		15-MAY-20	R5089476
Total Suspended Solids	2.0	<T	2.0	mg/L		19-MAY-20	R5092795
Total Dissolved Solids	212		20	mg/L		19-MAY-20	R5092660
Turbidity	1.58		0.10	NTU		15-MAY-20	R5087298
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		19-MAY-20	R5092571
Alkalinity, Total (as CaCO3)	197		2.0	mg/L		15-MAY-20	R5089476

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-15 SW28A							
Sampled By: client on 14-MAY-20 @ 08:50							
Matrix: water							
Anions and Nutrients							
Ammonia, Total (as N)	0.026	<T	0.020	mg/L		22-MAY-20	R5096029
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		25-MAY-20	
Chloride (Cl)	6.97		0.10	mg/L	15-MAY-20	15-MAY-20	R5089517
Fluoride (F)	0.068		0.020	mg/L	15-MAY-20	15-MAY-20	R5089517
Nitrate (as N)	0.060	<T	0.020	mg/L		15-MAY-20	R5089517
Nitrite (as N)	<0.001	<W	0.010	mg/L		15-MAY-20	R5089517
Total Kjeldahl Nitrogen	0.75		0.18	mg/L	22-MAY-20	22-MAY-20	R5095336
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		19-MAY-20	R5091180
Sulfate (SO4)	3.15	<T	0.30	mg/L		15-MAY-20	R5089517
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Total	0.0006	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Free	0.0007	<DL	0.0020	mg/L		19-MAY-20	R5092542
Organic / Inorganic Carbon							
Dissolved Organic Carbon	16.9		0.50	mg/L		27-MAY-20	R5099930
Total Organic Carbon	22.0	DLM	2.5	mg/L		22-MAY-20	R5095730
Total Metals							
Aluminum (Al)-Total	0.0552		0.0030	mg/L		29-MAY-20	R5102695
Antimony (Sb)-Total	<0.00002	<W	0.00010	mg/L		29-MAY-20	R5102695
Arsenic (As)-Total	0.00062	<T	0.00010	mg/L		29-MAY-20	R5102695
Barium (Ba)-Total	0.0177		0.00010	mg/L		29-MAY-20	R5102695
Beryllium (Be)-Total	0.000012	<DL	0.00010	mg/L		29-MAY-20	R5102695
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		29-MAY-20	R5102695
Boron (B)-Total	0.0090	<DL	0.010	mg/L		29-MAY-20	R5102695
Cadmium (Cd)-Total	0.000009	<T	0.000050	mg/L		29-MAY-20	R5102695
Calcium (Ca)-Total	46.1		0.050	mg/L		29-MAY-20	R5102695
Cesium (Cs)-Total	0.000009	<DL	0.000010	mg/L		29-MAY-20	R5102695
Chromium (Cr)-Total	0.00020	<T	0.00010	mg/L		29-MAY-20	R5102695
Cobalt (Co)-Total	0.000150	<T	0.00010	mg/L		29-MAY-20	R5102695
Copper (Cu)-Total	0.00132	<T	0.00050	mg/L		29-MAY-20	R5102695
Iron (Fe)-Total	0.146		0.010	mg/L		29-MAY-20	R5102695
Lead (Pb)-Total	0.000035	<DL	0.000050	mg/L		29-MAY-20	R5102695
Lithium (Li)-Total	0.00560	<T	0.0010	mg/L		29-MAY-20	R5102695
Magnesium (Mg)-Total	21.7		0.0050	mg/L		29-MAY-20	R5102695
Manganese (Mn)-Total	0.0338		0.00010	mg/L		29-MAY-20	R5102695
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092681
Molybdenum (Mo)-Total	0.000860	<T	0.000050	mg/L		29-MAY-20	R5102695
Nickel (Ni)-Total	0.00106	<T	0.00050	mg/L		29-MAY-20	R5102695
Phosphorus (P)-Total	0.004	<DL	0.050	mg/L		29-MAY-20	R5102695
Potassium (K)-Total	1.23		0.050	mg/L		29-MAY-20	R5102695
Rubidium (Rb)-Total	0.00170		0.00020	mg/L		29-MAY-20	R5102695
Selenium (Se)-Total	0.000155		0.000050	mg/L		29-MAY-20	R5102695

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-15 SW28A							
Sampled By: client on 14-MAY-20 @ 08:50							
Matrix: water							
Total Metals							
Silicon (Si)-Total	2.63		0.10	mg/L		29-MAY-20	R5102695
Silver (Ag)-Total	<0.000002	<W	0.000010	mg/L		29-MAY-20	R5102695
Sodium (Na)-Total	2.97		0.050	mg/L		29-MAY-20	R5102695
Strontium (Sr)-Total	0.0949		0.00020	mg/L		29-MAY-20	R5102695
Sulfur (S)-Total	1.4		0.50	mg/L		29-MAY-20	R5102695
Tellurium (Te)-Total	0.000015	<DL	0.00020	mg/L		29-MAY-20	R5102695
Thallium (Tl)-Total	0.000002	<DL	0.000010	mg/L		29-MAY-20	R5102695
Thorium (Th)-Total	0.000015	<DL	0.00010	mg/L		29-MAY-20	R5102695
Tin (Sn)-Total	0.00010		0.00010	mg/L		29-MAY-20	R5102695
Titanium (Ti)-Total	0.00218		0.00030	mg/L		29-MAY-20	R5102695
Tungsten (W)-Total	0.000002	<DL	0.00010	mg/L		29-MAY-20	R5102695
Uranium (U)-Total	0.00249	<T	0.000010	mg/L		29-MAY-20	R5102695
Vanadium (V)-Total	0.00056	<T	0.00050	mg/L		29-MAY-20	R5102695
Zinc (Zn)-Total	0.0020	<DL	0.0030	mg/L		29-MAY-20	R5102695
Zirconium (Zr)-Total	0.000266		0.000060	mg/L		29-MAY-20	R5102695
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					01-JUN-20	R5103322
Aluminum (Al)-Dissolved	0.0080	<T	0.0010	mg/L		01-JUN-20	R5103378
Antimony (Sb)-Dissolved	0.000045	<DL	0.00010	mg/L		01-JUN-20	R5103378
Arsenic (As)-Dissolved	0.000565	<T	0.00010	mg/L		01-JUN-20	R5103378
Barium (Ba)-Dissolved	0.0171		0.00010	mg/L		01-JUN-20	R5103378
Beryllium (Be)-Dissolved	0.000004	<DL	0.00010	mg/L		01-JUN-20	R5103378
Bismuth (Bi)-Dissolved	<0.000001	<W	0.000050	mg/L		01-JUN-20	R5103378
Boron (B)-Dissolved	0.0090	<DL	0.010	mg/L		01-JUN-20	R5103378
Cadmium (Cd)-Dissolved	0.0000060	<T	0.0000050	mg/L		01-JUN-20	R5103378
Calcium (Ca)-Dissolved	45.2		0.050	mg/L		01-JUN-20	R5103378
Cesium (Cs)-Dissolved	0.000001	<DL	0.000010	mg/L		01-JUN-20	R5103378
Chromium (Cr)-Dissolved	0.00012	<T	0.00010	mg/L		01-JUN-20	R5103378
Cobalt (Co)-Dissolved	0.000120	<T	0.00010	mg/L		01-JUN-20	R5103378
Copper (Cu)-Dissolved	0.00130	<T	0.00020	mg/L		01-JUN-20	R5103378
Iron (Fe)-Dissolved	0.0964		0.010	mg/L		01-JUN-20	R5103378
Lead (Pb)-Dissolved	0.000015	<DL	0.000050	mg/L		01-JUN-20	R5103378
Lithium (Li)-Dissolved	0.00548	<T	0.0010	mg/L		01-JUN-20	R5103378
Magnesium (Mg)-Dissolved	21.8		0.0050	mg/L		01-JUN-20	R5103378
Manganese (Mn)-Dissolved	0.0288		0.00010	mg/L		01-JUN-20	R5103378
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092738
Molybdenum (Mo)-Dissolved	0.000798	<T	0.000050	mg/L		01-JUN-20	R5103378
Nickel (Ni)-Dissolved	0.00104	<T	0.00050	mg/L		01-JUN-20	R5103378
Phosphorus (P)-Dissolved	0.008	<DL	0.050	mg/L		01-JUN-20	R5103378
Potassium (K)-Dissolved	1.27		0.050	mg/L		01-JUN-20	R5103378
Rubidium (Rb)-Dissolved	0.00156		0.00020	mg/L		01-JUN-20	R5103378

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-15 SW28A Sampled By: client on 14-MAY-20 @ 08:50 Matrix: water							
Dissolved Metals							
Selenium (Se)-Dissolved	0.000130		0.000050	mg/L		01-JUN-20	R5103378
Silicon (Si)-Dissolved	2.50		0.050	mg/L		01-JUN-20	R5103378
Silver (Ag)-Dissolved	0.000001	<DL	0.000010	mg/L		01-JUN-20	R5103378
Sodium (Na)-Dissolved	2.90		0.050	mg/L		01-JUN-20	R5103378
Strontium (Sr)-Dissolved	0.0923		0.00010	mg/L		01-JUN-20	R5103378
Sulfur (S)-Dissolved	1.3		0.50	mg/L		01-JUN-20	R5103378
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		01-JUN-20	R5103378
Thallium (Tl)-Dissolved	0.000002	<DL	0.000010	mg/L		01-JUN-20	R5103378
Thorium (Th)-Dissolved	<0.00002	<W	0.00010	mg/L		01-JUN-20	R5103378
Tin (Sn)-Dissolved	0.00021		0.00010	mg/L		01-JUN-20	R5103378
Titanium (Ti)-Dissolved	0.00048		0.00030	mg/L		01-JUN-20	R5103378
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		01-JUN-20	R5103378
Uranium (U)-Dissolved	0.00220	<T	0.000010	mg/L		01-JUN-20	R5103378
Vanadium (V)-Dissolved	0.00032	<DL	0.00050	mg/L		01-JUN-20	R5103378
Zinc (Zn)-Dissolved	0.0020	<T	0.0010	mg/L		01-JUN-20	R5103378
Zirconium (Zr)-Dissolved	0.000246		0.000060	mg/L		01-JUN-20	R5103378
Aggregate Organics							
Biochemical Oxygen Demand	2.0		2.0	mg/L		15-MAY-20	R5092734
COD	48		10	mg/L		21-MAY-20	R5094991
Oil and Grease, Total	0.6	<DL	1.0	mg/L	19-MAY-20	19-MAY-20	R5092259
L2447535-16 SW20 Sampled By: client on 12-MAY-20 @ 14:00 Matrix: water							
Field Tests							
Dissolved Oxygen, Client Supplied	5.56		0	mg/L		19-MAY-20	R5090757
pH, Client Supplied	7.32		0.10	pH		19-MAY-20	R5090757
Temperature, Client Supplied	10		0	Degree C		19-MAY-20	R5090757
Physical Tests							
Color, True	110		2.0	CU		15-MAY-20	R5087700
Conductivity (EC)	257		1.0	uS/cm		15-MAY-20	R5089476
Hardness (as CaCO3)	123		0.20	mg/L		05-JUN-20	
pH	7.88		0.10	pH		15-MAY-20	R5089476
Total Suspended Solids	4.5		2.0	mg/L		19-MAY-20	R5092579
Total Dissolved Solids	170		13	mg/L		16-MAY-20	R5090236
Turbidity	3.75		0.10	NTU		15-MAY-20	R5087298
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		19-MAY-20	R5092571
Alkalinity, Total (as CaCO3)	107		2.0	mg/L		15-MAY-20	R5089476
Ammonia, Total (as N)	0.020	<T	0.020	mg/L		22-MAY-20	R5096029
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		25-MAY-20	
Chloride (Cl)	19.8		0.10	mg/L	15-MAY-20	17-MAY-20	R5090800
Fluoride (F)	0.054		0.020	mg/L	15-MAY-20	17-MAY-20	R5090800

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-16 SW20							
Sampled By: client on 12-MAY-20 @ 14:00							
Matrix: water							
Anions and Nutrients							
Nitrate (as N)	<0.002	<W	0.020	mg/L		17-MAY-20	R5090800
Nitrite (as N)	<0.001	<W	0.010	mg/L		17-MAY-20	R5090800
Total Kjeldahl Nitrogen	0.95		0.18	mg/L	22-MAY-20	22-MAY-20	R5095336
Orthophosphate-Dissolved (as P)	0.0032		0.0030	mg/L		19-MAY-20	R5091180
Sulfate (SO4)	3.65	<T	0.30	mg/L		17-MAY-20	R5090800
Cyanides							
Cyanide, Weak Acid Diss	0.0008	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Total	0.0008	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Free	0.0010	<DL	0.0020	mg/L		19-MAY-20	R5092542
Organic / Inorganic Carbon							
Dissolved Organic Carbon	23.6		0.50	mg/L		27-MAY-20	R5099930
Total Organic Carbon	30.6	DLM	2.5	mg/L		22-MAY-20	R5095730
Total Metals							
Aluminum (Al)-Total	0.164		0.0030	mg/L		29-MAY-20	R5102695
Antimony (Sb)-Total	<0.00002	<W	0.00010	mg/L		29-MAY-20	R5102695
Arsenic (As)-Total	0.00087	<T	0.00010	mg/L		29-MAY-20	R5102695
Barium (Ba)-Total	0.0181		0.00010	mg/L		29-MAY-20	R5102695
Beryllium (Be)-Total	0.000018	<DL	0.00010	mg/L		29-MAY-20	R5102695
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		29-MAY-20	R5102695
Boron (B)-Total	0.0115	<T	0.010	mg/L		29-MAY-20	R5102695
Cadmium (Cd)-Total	0.000010	<T	0.0000050	mg/L		29-MAY-20	R5102695
Calcium (Ca)-Total	28.7		0.050	mg/L		29-MAY-20	R5102695
Cesium (Cs)-Total	0.000023		0.000010	mg/L		29-MAY-20	R5102695
Chromium (Cr)-Total	0.00044	<T	0.00010	mg/L		29-MAY-20	R5102695
Cobalt (Co)-Total	0.000202	<T	0.00010	mg/L		29-MAY-20	R5102695
Copper (Cu)-Total	0.00110	<T	0.00050	mg/L		29-MAY-20	R5102695
Iron (Fe)-Total	0.431		0.010	mg/L		29-MAY-20	R5102695
Lead (Pb)-Total	0.000135	<T	0.000050	mg/L		29-MAY-20	R5102695
Lithium (Li)-Total	0.00474	<T	0.0010	mg/L		29-MAY-20	R5102695
Magnesium (Mg)-Total	13.3		0.0050	mg/L		29-MAY-20	R5102695
Manganese (Mn)-Total	0.0349		0.00010	mg/L		29-MAY-20	R5102695
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		20-MAY-20	R5092681
Molybdenum (Mo)-Total	0.000440	<T	0.000050	mg/L		29-MAY-20	R5102695
Nickel (Ni)-Total	0.00152	<T	0.00050	mg/L		29-MAY-20	R5102695
Phosphorus (P)-Total	0.022	<DL	0.050	mg/L		29-MAY-20	R5102695
Potassium (K)-Total	1.42		0.050	mg/L		29-MAY-20	R5102695
Rubidium (Rb)-Total	0.00158		0.00020	mg/L		29-MAY-20	R5102695
Selenium (Se)-Total	0.000170		0.000050	mg/L		29-MAY-20	R5102695
Silicon (Si)-Total	1.62		0.10	mg/L		29-MAY-20	R5102695
Silver (Ag)-Total	<0.000002	<W	0.000010	mg/L		29-MAY-20	R5102695
Sodium (Na)-Total	10.7		0.050	mg/L		29-MAY-20	R5102695
Strontium (Sr)-Total	0.0701		0.00020	mg/L		29-MAY-20	R5102695

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-16 SW20							
Sampled By: client on 12-MAY-20 @ 14:00							
Matrix: water							
Total Metals							
Sulfur (S)-Total	1.6		0.50	mg/L		29-MAY-20	R5102695
Tellurium (Te)-Total	0.000015	<DL	0.00020	mg/L		29-MAY-20	R5102695
Thallium (Tl)-Total	0.000004	<DL	0.000010	mg/L		29-MAY-20	R5102695
Thorium (Th)-Total	0.000035	<DL	0.00010	mg/L		29-MAY-20	R5102695
Tin (Sn)-Total	0.00014		0.00010	mg/L		29-MAY-20	R5102695
Titanium (Ti)-Total	0.00434		0.00030	mg/L		29-MAY-20	R5102695
Tungsten (W)-Total	0.000006	<DL	0.00010	mg/L		29-MAY-20	R5102695
Uranium (U)-Total	0.000507	<T	0.000010	mg/L		29-MAY-20	R5102695
Vanadium (V)-Total	0.00100	<T	0.00050	mg/L		29-MAY-20	R5102695
Zinc (Zn)-Total	0.0035	<T	0.0030	mg/L		29-MAY-20	R5102695
Zirconium (Zr)-Total	0.000418		0.000060	mg/L		29-MAY-20	R5102695
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					01-JUN-20	R5103322
Aluminum (Al)-Dissolved	0.0228	<T	0.0010	mg/L		01-JUN-20	R5103378
Antimony (Sb)-Dissolved	0.000045	<DL	0.00010	mg/L		01-JUN-20	R5103378
Arsenic (As)-Dissolved	0.000780	<T	0.00010	mg/L		01-JUN-20	R5103378
Barium (Ba)-Dissolved	0.0165		0.00010	mg/L		01-JUN-20	R5103378
Beryllium (Be)-Dissolved	0.000010	<DL	0.00010	mg/L		01-JUN-20	R5103378
Bismuth (Bi)-Dissolved	0.000002	<DL	0.000050	mg/L		01-JUN-20	R5103378
Boron (B)-Dissolved	0.0100	<T	0.010	mg/L		01-JUN-20	R5103378
Cadmium (Cd)-Dissolved	0.0000072	<T	0.0000050	mg/L		01-JUN-20	R5103378
Calcium (Ca)-Dissolved	28.3		0.050	mg/L		01-JUN-20	R5103378
Cesium (Cs)-Dissolved	0.000002	<DL	0.000010	mg/L		01-JUN-20	R5103378
Chromium (Cr)-Dissolved	0.00022	<T	0.00010	mg/L		01-JUN-20	R5103378
Cobalt (Co)-Dissolved	0.000129	<T	0.00010	mg/L		01-JUN-20	R5103378
Copper (Cu)-Dissolved	0.00096	<T	0.00020	mg/L		01-JUN-20	R5103378
Iron (Fe)-Dissolved	0.234		0.010	mg/L		01-JUN-20	R5103378
Lead (Pb)-Dissolved	0.000060	<T	0.000050	mg/L		01-JUN-20	R5103378
Lithium (Li)-Dissolved	0.00460	<T	0.0010	mg/L		01-JUN-20	R5103378
Magnesium (Mg)-Dissolved	12.7		0.0050	mg/L		01-JUN-20	R5103378
Manganese (Mn)-Dissolved	0.0298		0.00010	mg/L		01-JUN-20	R5103378
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092738
Molybdenum (Mo)-Dissolved	0.000422	<T	0.000050	mg/L		01-JUN-20	R5103378
Nickel (Ni)-Dissolved	0.00138	<T	0.00050	mg/L		01-JUN-20	R5103378
Phosphorus (P)-Dissolved	0.018	<DL	0.050	mg/L		01-JUN-20	R5103378
Potassium (K)-Dissolved	1.41		0.050	mg/L		01-JUN-20	R5103378
Rubidium (Rb)-Dissolved	0.00115		0.00020	mg/L		01-JUN-20	R5103378
Selenium (Se)-Dissolved	0.000160		0.000050	mg/L		01-JUN-20	R5103378
Silicon (Si)-Dissolved	1.27		0.050	mg/L		01-JUN-20	R5103378
Silver (Ag)-Dissolved	0.000001	<DL	0.000010	mg/L		01-JUN-20	R5103378
Sodium (Na)-Dissolved	10.5		0.050	mg/L		01-JUN-20	R5103378

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-16 SW20 Sampled By: client on 12-MAY-20 @ 14:00 Matrix: water							
Dissolved Metals							
Strontium (Sr)-Dissolved	0.0684		0.00010	mg/L		01-JUN-20	R5103378
Sulfur (S)-Dissolved	1.7		0.50	mg/L		01-JUN-20	R5103378
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		01-JUN-20	R5103378
Thallium (Tl)-Dissolved	0.000002	<DL	0.00010	mg/L		01-JUN-20	R5103378
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		01-JUN-20	R5103378
Tin (Sn)-Dissolved	0.00012		0.00010	mg/L		01-JUN-20	R5103378
Titanium (Ti)-Dissolved	0.00160		0.00030	mg/L		01-JUN-20	R5103378
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		01-JUN-20	R5103378
Uranium (U)-Dissolved	0.000472	<T	0.000010	mg/L		01-JUN-20	R5103378
Vanadium (V)-Dissolved	0.00054	<T	0.00050	mg/L		01-JUN-20	R5103378
Zinc (Zn)-Dissolved	0.0022	<T	0.0010	mg/L		01-JUN-20	R5103378
Zirconium (Zr)-Dissolved	0.000394		0.000060	mg/L		01-JUN-20	R5103378
Aggregate Organics							
Biochemical Oxygen Demand	2.4		2.0	mg/L		15-MAY-20	R5092734
COD	64		10	mg/L		21-MAY-20	R5094991
Oil and Grease, Total	1.2		1.0	mg/L	19-MAY-20	19-MAY-20	R5092259
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		22-MAY-20	R5095780
L2447535-17 SW02 Sampled By: client on 12-MAY-20 @ 13:30 Matrix: water							
Field Tests							
Dissolved Oxygen, Client Supplied	8.76		0	mg/L		19-MAY-20	R5090757
pH, Client Supplied	7.09		0.10	pH		19-MAY-20	R5090757
Temperature, Client Supplied	11.5		0	Degree C		19-MAY-20	R5090757
Physical Tests							
Color, True	106		2.0	CU		15-MAY-20	R5087700
Conductivity (EC)	97.8		1.0	uS/cm		15-MAY-20	R5089476
Hardness (as CaCO3)	58.7		0.20	mg/L		05-JUN-20	
pH	7.59		0.10	pH		15-MAY-20	R5089476
Total Suspended Solids	1.0	<DL	2.0	mg/L		19-MAY-20	R5092579
Total Dissolved Solids	82		13	mg/L		16-MAY-20	R5090236
Turbidity	0.54		0.10	NTU		15-MAY-20	R5087298
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		19-MAY-20	R5092571
Alkalinity, Total (as CaCO3)	53.2		2.0	mg/L		15-MAY-20	R5089476
Ammonia, Total (as N)	0.020	<T	0.020	mg/L		22-MAY-20	R5096029
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		25-MAY-20	
Chloride (Cl)	0.40		0.10	mg/L	15-MAY-20	17-MAY-20	R5090800
Fluoride (F)	0.032		0.020	mg/L	15-MAY-20	17-MAY-20	R5090800
Nitrate (as N)	<0.002	<W	0.020	mg/L		17-MAY-20	R5090800
Nitrite (as N)	<0.001	<W	0.010	mg/L		17-MAY-20	R5090800

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-17 SW02							
Sampled By: client on 12-MAY-20 @ 13:30							
Matrix: water							
Anions and Nutrients							
Total Kjeldahl Nitrogen	0.65		0.18	mg/L	22-MAY-20	22-MAY-20	R5095336
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		19-MAY-20	R5091180
Sulfate (SO4)	0.10	<DL	0.30	mg/L		17-MAY-20	R5090800
Cyanides							
Cyanide, Weak Acid Diss	0.0007	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Total	0.0008	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Free	0.0006	<DL	0.0020	mg/L		19-MAY-20	R5092542
Organic / Inorganic Carbon							
Dissolved Organic Carbon	21.9		0.50	mg/L		27-MAY-20	R5099930
Total Organic Carbon	28.8	DLM	2.5	mg/L		22-MAY-20	R5095730
Total Metals							
Aluminum (Al)-Total	0.0544		0.0030	mg/L		29-MAY-20	R5102695
Antimony (Sb)-Total	<0.00002	<W	0.00010	mg/L		29-MAY-20	R5102695
Arsenic (As)-Total	0.00046	<T	0.00010	mg/L		29-MAY-20	R5102695
Barium (Ba)-Total	0.00687		0.00010	mg/L		29-MAY-20	R5102695
Beryllium (Be)-Total	0.000010	<DL	0.00010	mg/L		29-MAY-20	R5102695
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		29-MAY-20	R5102695
Boron (B)-Total	0.0045	<DL	0.010	mg/L		29-MAY-20	R5102695
Cadmium (Cd)-Total	0.000004	<DL	0.0000050	mg/L		29-MAY-20	R5102695
Calcium (Ca)-Total	13.8		0.050	mg/L		29-MAY-20	R5102695
Cesium (Cs)-Total	0.000006	<DL	0.000010	mg/L		29-MAY-20	R5102695
Chromium (Cr)-Total	0.00018	<T	0.00010	mg/L		29-MAY-20	R5102695
Cobalt (Co)-Total	0.000066	<DL	0.00010	mg/L		29-MAY-20	R5102695
Copper (Cu)-Total	0.00030	<DL	0.00050	mg/L		29-MAY-20	R5102695
Iron (Fe)-Total	0.134		0.010	mg/L		29-MAY-20	R5102695
Lead (Pb)-Total	0.000045	<DL	0.000050	mg/L		29-MAY-20	R5102695
Lithium (Li)-Total	0.00156	<T	0.0010	mg/L		29-MAY-20	R5102695
Magnesium (Mg)-Total	6.29		0.0050	mg/L		29-MAY-20	R5102695
Manganese (Mn)-Total	0.00912		0.00010	mg/L		29-MAY-20	R5102695
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092681
Molybdenum (Mo)-Total	0.000100	<T	0.000050	mg/L		29-MAY-20	R5102695
Nickel (Ni)-Total	0.00046	<DL	0.00050	mg/L		29-MAY-20	R5102695
Phosphorus (P)-Total	<0.002	<W	0.050	mg/L		29-MAY-20	R5102695
Potassium (K)-Total	0.370		0.050	mg/L		29-MAY-20	R5102695
Rubidium (Rb)-Total	0.000960		0.00020	mg/L		29-MAY-20	R5102695
Selenium (Se)-Total	0.000115		0.000050	mg/L		29-MAY-20	R5102695
Silicon (Si)-Total	0.765		0.10	mg/L		29-MAY-20	R5102695
Silver (Ag)-Total	<0.000002	<W	0.000010	mg/L		29-MAY-20	R5102695
Sodium (Na)-Total	1.05		0.050	mg/L		29-MAY-20	R5102695
Strontium (Sr)-Total	0.0219		0.00020	mg/L		29-MAY-20	R5102695
Sulfur (S)-Total	0.2	<DL	0.50	mg/L		29-MAY-20	R5102695
Tellurium (Te)-Total	0.000010	<DL	0.00020	mg/L		29-MAY-20	R5102695

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-17 SW02							
Sampled By: client on 12-MAY-20 @ 13:30							
Matrix: water							
Total Metals							
Thallium (Tl)-Total	<0.000001	<W	0.000010	mg/L		29-MAY-20	R5102695
Thorium (Th)-Total	0.000005	<DL	0.00010	mg/L		29-MAY-20	R5102695
Tin (Sn)-Total	0.00012		0.00010	mg/L		29-MAY-20	R5102695
Titanium (Ti)-Total	0.00106		0.00030	mg/L		29-MAY-20	R5102695
Tungsten (W)-Total	<0.000002	<W	0.00010	mg/L		29-MAY-20	R5102695
Uranium (U)-Total	0.0000266	<T	0.000010	mg/L		29-MAY-20	R5102695
Vanadium (V)-Total	0.00034	<DL	0.00050	mg/L		29-MAY-20	R5102695
Zinc (Zn)-Total	0.0015	<DL	0.0030	mg/L		29-MAY-20	R5102695
Zirconium (Zr)-Total	0.000104		0.000060	mg/L		29-MAY-20	R5102695
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					01-JUN-20	R5103322
Aluminum (Al)-Dissolved	0.0260	<T	0.0010	mg/L		01-JUN-20	R5103378
Antimony (Sb)-Dissolved	0.000020	<DL	0.00010	mg/L		01-JUN-20	R5103378
Arsenic (As)-Dissolved	0.000405	<T	0.00010	mg/L		01-JUN-20	R5103378
Barium (Ba)-Dissolved	0.00644		0.00010	mg/L		01-JUN-20	R5103378
Beryllium (Be)-Dissolved	0.000006	<DL	0.00010	mg/L		01-JUN-20	R5103378
Bismuth (Bi)-Dissolved	<0.000001	<W	0.000050	mg/L		01-JUN-20	R5103378
Boron (B)-Dissolved	0.0035	<DL	0.010	mg/L		01-JUN-20	R5103378
Cadmium (Cd)-Dissolved	0.0000030	<DL	0.0000050	mg/L		01-JUN-20	R5103378
Calcium (Ca)-Dissolved	13.4		0.050	mg/L		01-JUN-20	R5103378
Cesium (Cs)-Dissolved	0.000002	<DL	0.000010	mg/L		01-JUN-20	R5103378
Chromium (Cr)-Dissolved	0.00012	<T	0.00010	mg/L		01-JUN-20	R5103378
Cobalt (Co)-Dissolved	0.000047	<DL	0.00010	mg/L		01-JUN-20	R5103378
Copper (Cu)-Dissolved	0.00026	<T	0.00020	mg/L		01-JUN-20	R5103378
Iron (Fe)-Dissolved	0.112		0.010	mg/L		01-JUN-20	R5103378
Lead (Pb)-Dissolved	0.000025	<DL	0.000050	mg/L		01-JUN-20	R5103378
Lithium (Li)-Dissolved	0.00150	<T	0.0010	mg/L		01-JUN-20	R5103378
Magnesium (Mg)-Dissolved	6.12		0.0050	mg/L		01-JUN-20	R5103378
Manganese (Mn)-Dissolved	0.00676		0.00010	mg/L		01-JUN-20	R5103378
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092738
Molybdenum (Mo)-Dissolved	0.000104	<T	0.000050	mg/L		01-JUN-20	R5103378
Nickel (Ni)-Dissolved	0.00038	<DL	0.00050	mg/L		01-JUN-20	R5103378
Phosphorus (P)-Dissolved	<0.002	<W	0.050	mg/L		01-JUN-20	R5103378
Potassium (K)-Dissolved	0.376		0.050	mg/L		01-JUN-20	R5103378
Rubidium (Rb)-Dissolved	0.000934		0.00020	mg/L		01-JUN-20	R5103378
Selenium (Se)-Dissolved	0.000070		0.000050	mg/L		01-JUN-20	R5103378
Silicon (Si)-Dissolved	0.708		0.050	mg/L		01-JUN-20	R5103378
Silver (Ag)-Dissolved	<0.000001	<W	0.000010	mg/L		01-JUN-20	R5103378
Sodium (Na)-Dissolved	0.990		0.050	mg/L		01-JUN-20	R5103378
Strontium (Sr)-Dissolved	0.0207		0.00010	mg/L		01-JUN-20	R5103378
Sulfur (S)-Dissolved	0.2	<DL	0.50	mg/L		01-JUN-20	R5103378

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-17 SW02 Sampled By: client on 12-MAY-20 @ 13:30 Matrix: water							
Dissolved Metals							
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		01-JUN-20	R5103378
Thallium (Tl)-Dissolved	0.000001	<DL	0.000010	mg/L		01-JUN-20	R5103378
Thorium (Th)-Dissolved	<0.00002	<W	0.00010	mg/L		01-JUN-20	R5103378
Tin (Sn)-Dissolved	0.00007	<DL	0.00010	mg/L		01-JUN-20	R5103378
Titanium (Ti)-Dissolved	0.00030		0.00030	mg/L		01-JUN-20	R5103378
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		01-JUN-20	R5103378
Uranium (U)-Dissolved	0.0000248	<T	0.000010	mg/L		01-JUN-20	R5103378
Vanadium (V)-Dissolved	0.00014	<DL	0.00050	mg/L		01-JUN-20	R5103378
Zinc (Zn)-Dissolved	0.0018	<T	0.0010	mg/L		01-JUN-20	R5103378
Zirconium (Zr)-Dissolved	0.000100		0.000060	mg/L		01-JUN-20	R5103378
Aggregate Organics							
Biochemical Oxygen Demand	4.7		2.0	mg/L		15-MAY-20	R5092734
COD	57		10	mg/L		21-MAY-20	R5094991
Oil and Grease, Total	1.0		1.0	mg/L	19-MAY-20	19-MAY-20	R5092259
L2447535-18 SW25 Sampled By: client on 12-MAY-20 @ 11:45 Matrix: water							
Field Tests							
Dissolved Oxygen, Client Supplied	10.79		0	mg/L		19-MAY-20	R5090757
pH, Client Supplied	7.98		0.10	pH		19-MAY-20	R5090757
Temperature, Client Supplied	8.7		0	Degree C		19-MAY-20	R5090757
Physical Tests							
Color, True	55.2		2.0	CU		15-MAY-20	R5087700
Conductivity (EC)	268		1.0	uS/cm		15-MAY-20	R5089476
Hardness (as CaCO3)	139		0.20	mg/L		05-JUN-20	
pH	8.15		0.10	pH		15-MAY-20	R5089476
Total Suspended Solids	8.0		2.0	mg/L		15-MAY-20	R5088642
Total Dissolved Solids	162		20	mg/L		15-MAY-20	R5088756
Turbidity	6.47		0.10	NTU		15-MAY-20	R5087298
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		19-MAY-20	R5092571
Alkalinity, Total (as CaCO3)	126		2.0	mg/L		15-MAY-20	R5089476
Ammonia, Total (as N)	0.016	<DL	0.020	mg/L		22-MAY-20	R5096029
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		25-MAY-20	
Chloride (Cl)	8.04		0.50	mg/L	19-MAY-20	19-MAY-20	R5092873
Fluoride (F)	<0.10		0.10	mg/L	19-MAY-20	19-MAY-20	R5092873
Nitrate (as N)	<0.002	<W	0.10	mg/L		19-MAY-20	R5092873
Nitrite (as N)	<0.001	<W	0.050	mg/L		19-MAY-20	R5092873
Total Kjeldahl Nitrogen	0.55		0.18	mg/L	22-MAY-20	22-MAY-20	R5095336
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		19-MAY-20	R5091180
Sulfate (SO4)	10.5		1.5	mg/L		19-MAY-20	R5092873
Cyanides							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-18 SW25							
Sampled By: client on 12-MAY-20 @ 11:45							
Matrix: water							
Cyanides							
Cyanide, Weak Acid Diss	0.0007	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Total	0.0008	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Free	0.0002	<DL	0.0020	mg/L		19-MAY-20	R5092542
Organic / Inorganic Carbon							
Dissolved Organic Carbon	14.5		0.50	mg/L		27-MAY-20	R5099930
Total Organic Carbon	20.6	DLM	2.5	mg/L		22-MAY-20	R5095730
Total Metals							
Aluminum (Al)-Total	0.194		0.0030	mg/L		29-MAY-20	R5102695
Antimony (Sb)-Total	0.00006	<DL	0.00010	mg/L		29-MAY-20	R5102695
Arsenic (As)-Total	0.00076	<T	0.00010	mg/L		29-MAY-20	R5102695
Barium (Ba)-Total	0.0178		0.00010	mg/L		29-MAY-20	R5102695
Beryllium (Be)-Total	0.000020	<DL	0.00010	mg/L		29-MAY-20	R5102695
Bismuth (Bi)-Total	0.000015	<DL	0.000050	mg/L		29-MAY-20	R5102695
Boron (B)-Total	0.0090	<DL	0.010	mg/L		29-MAY-20	R5102695
Cadmium (Cd)-Total	0.000011	<T	0.000050	mg/L		29-MAY-20	R5102695
Calcium (Ca)-Total	34.1		0.050	mg/L		29-MAY-20	R5102695
Cesium (Cs)-Total	0.000031		0.000010	mg/L		29-MAY-20	R5102695
Chromium (Cr)-Total	0.00044	<T	0.00010	mg/L		29-MAY-20	R5102695
Cobalt (Co)-Total	0.000308	<T	0.00010	mg/L		29-MAY-20	R5102695
Copper (Cu)-Total	0.00228	<T	0.00050	mg/L		29-MAY-20	R5102695
Iron (Fe)-Total	0.358		0.010	mg/L		29-MAY-20	R5102695
Lead (Pb)-Total	0.000165	<T	0.000050	mg/L		29-MAY-20	R5102695
Lithium (Li)-Total	0.00398	<T	0.0010	mg/L		29-MAY-20	R5102695
Magnesium (Mg)-Total	14.1		0.0050	mg/L		29-MAY-20	R5102695
Manganese (Mn)-Total	0.0819		0.00010	mg/L		29-MAY-20	R5102695
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092681
Molybdenum (Mo)-Total	0.000910	<T	0.000050	mg/L		29-MAY-20	R5102695
Nickel (Ni)-Total	0.00140	<T	0.00050	mg/L		29-MAY-20	R5102695
Phosphorus (P)-Total	0.014	<DL	0.050	mg/L		29-MAY-20	R5102695
Potassium (K)-Total	1.62		0.050	mg/L		29-MAY-20	R5102695
Rubidium (Rb)-Total	0.00144		0.00020	mg/L		29-MAY-20	R5102695
Selenium (Se)-Total	0.000160		0.000050	mg/L		29-MAY-20	R5102695
Silicon (Si)-Total	2.24		0.10	mg/L		29-MAY-20	R5102695
Silver (Ag)-Total	0.000004	<DL	0.000010	mg/L		29-MAY-20	R5102695
Sodium (Na)-Total	4.74		0.050	mg/L		29-MAY-20	R5102695
Strontium (Sr)-Total	0.0701		0.00020	mg/L		29-MAY-20	R5102695
Sulfur (S)-Total	4.0		0.50	mg/L		29-MAY-20	R5102695
Tellurium (Te)-Total	0.000035	<DL	0.00020	mg/L		29-MAY-20	R5102695
Thallium (Tl)-Total	0.000007	<DL	0.000010	mg/L		29-MAY-20	R5102695
Thorium (Th)-Total	0.000065	<DL	0.00010	mg/L		29-MAY-20	R5102695
Tin (Sn)-Total	0.00008	<DL	0.00010	mg/L		29-MAY-20	R5102695

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-18 SW25							
Sampled By: client on 12-MAY-20 @ 11:45							
Matrix: water							
Total Metals							
Titanium (Ti)-Total	0.00626		0.00030	mg/L		29-MAY-20	R5102695
Tungsten (W)-Total	0.000010	<DL	0.00010	mg/L		29-MAY-20	R5102695
Uranium (U)-Total	0.00117	<T	0.000010	mg/L		29-MAY-20	R5102695
Vanadium (V)-Total	0.00106	<T	0.00050	mg/L		29-MAY-20	R5102695
Zinc (Zn)-Total	0.0045	<T	0.0030	mg/L		29-MAY-20	R5102695
Zirconium (Zr)-Total	0.000322		0.000060	mg/L		29-MAY-20	R5102695
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					01-JUN-20	R5103322
Aluminum (Al)-Dissolved	0.0090	<T	0.0010	mg/L		01-JUN-20	R5103378
Antimony (Sb)-Dissolved	0.000080	<DL	0.00010	mg/L		01-JUN-20	R5103378
Arsenic (As)-Dissolved	0.000655	<T	0.00010	mg/L		01-JUN-20	R5103378
Barium (Ba)-Dissolved	0.0157		0.00010	mg/L		01-JUN-20	R5103378
Beryllium (Be)-Dissolved	0.000006	<DL	0.00010	mg/L		01-JUN-20	R5103378
Bismuth (Bi)-Dissolved	<0.000001	<W	0.000050	mg/L		01-JUN-20	R5103378
Boron (B)-Dissolved	0.0080	<DL	0.010	mg/L		01-JUN-20	R5103378
Cadmium (Cd)-Dissolved	0.0000078	<T	0.0000050	mg/L		01-JUN-20	R5103378
Calcium (Ca)-Dissolved	33.5		0.050	mg/L		01-JUN-20	R5103378
Cesium (Cs)-Dissolved	0.000002	<DL	0.000010	mg/L		01-JUN-20	R5103378
Chromium (Cr)-Dissolved	0.00014	<T	0.00010	mg/L		01-JUN-20	R5103378
Cobalt (Co)-Dissolved	0.000203	<T	0.00010	mg/L		01-JUN-20	R5103378
Copper (Cu)-Dissolved	0.00196	<T	0.00020	mg/L		01-JUN-20	R5103378
Iron (Fe)-Dissolved	0.136		0.010	mg/L		01-JUN-20	R5103378
Lead (Pb)-Dissolved	0.000055	<T	0.000050	mg/L		01-JUN-20	R5103378
Lithium (Li)-Dissolved	0.00380	<T	0.0010	mg/L		01-JUN-20	R5103378
Magnesium (Mg)-Dissolved	13.4		0.0050	mg/L		01-JUN-20	R5103378
Manganese (Mn)-Dissolved	0.0665		0.00010	mg/L		01-JUN-20	R5103378
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092738
Molybdenum (Mo)-Dissolved	0.000856	<T	0.000050	mg/L		01-JUN-20	R5103378
Nickel (Ni)-Dissolved	0.00114	<T	0.00050	mg/L		01-JUN-20	R5103378
Phosphorus (P)-Dissolved	0.022	<DL	0.050	mg/L		01-JUN-20	R5103378
Potassium (K)-Dissolved	1.60		0.050	mg/L		01-JUN-20	R5103378
Rubidium (Rb)-Dissolved	0.00109		0.00020	mg/L		01-JUN-20	R5103378
Selenium (Se)-Dissolved	0.000165		0.000050	mg/L		01-JUN-20	R5103378
Silicon (Si)-Dissolved	1.88		0.050	mg/L		01-JUN-20	R5103378
Silver (Ag)-Dissolved	<0.000001	<W	0.000010	mg/L		01-JUN-20	R5103378
Sodium (Na)-Dissolved	4.44		0.050	mg/L		01-JUN-20	R5103378
Strontium (Sr)-Dissolved	0.0683		0.00010	mg/L		01-JUN-20	R5103378
Sulfur (S)-Dissolved	4.1		0.50	mg/L		01-JUN-20	R5103378
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		01-JUN-20	R5103378
Thallium (Tl)-Dissolved	0.000002	<DL	0.000010	mg/L		01-JUN-20	R5103378
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		01-JUN-20	R5103378

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-18 SW25 Sampled By: client on 12-MAY-20 @ 11:45 Matrix: water							
Dissolved Metals							
Tin (Sn)-Dissolved	0.00005	<DL	0.00010	mg/L		01-JUN-20	R5103378
Titanium (Ti)-Dissolved	0.00062		0.00030	mg/L		01-JUN-20	R5103378
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		01-JUN-20	R5103378
Uranium (U)-Dissolved	0.00100	<T	0.000010	mg/L		01-JUN-20	R5103378
Vanadium (V)-Dissolved	0.00050	<T	0.00050	mg/L		01-JUN-20	R5103378
Zinc (Zn)-Dissolved	0.0034	<T	0.0010	mg/L		01-JUN-20	R5103378
Zirconium (Zr)-Dissolved	0.000244		0.000060	mg/L		01-JUN-20	R5103378
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		15-MAY-20	R5092734
COD	43		10	mg/L		21-MAY-20	R5094991
Oil and Grease, Total	0.6	<DL	1.0	mg/L	19-MAY-20	19-MAY-20	R5092259
L2447535-19 SW26 Sampled By: client on 12-MAY-20 @ 11:45 Matrix: water							
Field Tests							
Dissolved Oxygen, Client Supplied	10.3		0	mg/L		19-MAY-20	R5090757
pH, Client Supplied	7.61		0.10	pH		19-MAY-20	R5090757
Temperature, Client Supplied	8.4		0	Degree C		19-MAY-20	R5090757
Physical Tests							
Color, True	55.7		2.0	CU		15-MAY-20	R5087700
Conductivity (EC)	297		1.0	uS/cm		15-MAY-20	R5089476
Hardness (as CaCO3)	151		0.20	mg/L		05-JUN-20	
pH	8.18		0.10	pH		15-MAY-20	R5089476
Total Suspended Solids	6.5		2.0	mg/L		15-MAY-20	R5088642
Total Dissolved Solids	170		20	mg/L		15-MAY-20	R5088756
Turbidity	5.83		0.10	NTU		15-MAY-20	R5087298
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		19-MAY-20	R5092571
Alkalinity, Total (as CaCO3)	140		2.0	mg/L		15-MAY-20	R5089476
Ammonia, Total (as N)	0.018	<DL	0.020	mg/L		22-MAY-20	R5096029
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		25-MAY-20	
Chloride (Cl)	9.19		0.10	mg/L	15-MAY-20	17-MAY-20	R5090800
Fluoride (F)	0.065		0.020	mg/L	15-MAY-20	17-MAY-20	R5090800
Nitrate (as N)	<0.002	<W	0.020	mg/L		17-MAY-20	R5090800
Nitrite (as N)	<0.001	<W	0.010	mg/L		17-MAY-20	R5090800
Total Kjeldahl Nitrogen	0.65		0.18	mg/L	22-MAY-20	22-MAY-20	R5095336
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		19-MAY-20	R5091180
Sulfate (SO4)	14.2		0.30	mg/L		17-MAY-20	R5090800
Cyanides							
Cyanide, Weak Acid Diss	0.0008	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Total	0.0006	<DL	0.0020	mg/L		19-MAY-20	R5092542
Cyanide, Free	0.0005	<DL	0.0020	mg/L		19-MAY-20	R5092542

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-19 SW26							
Sampled By: client on 12-MAY-20 @ 11:45							
Matrix: water							
Cyanides							
Organic / Inorganic Carbon							
Dissolved Organic Carbon	15.1		0.50	mg/L		27-MAY-20	R5099930
Total Organic Carbon	19.7	DLM	2.5	mg/L		22-MAY-20	R5095730
Total Metals							
Aluminum (Al)-Total	0.204		0.0030	mg/L		29-MAY-20	R5102695
Antimony (Sb)-Total	0.00020	<T	0.00010	mg/L		29-MAY-20	R5102695
Arsenic (As)-Total	0.00091	<T	0.00010	mg/L		29-MAY-20	R5102695
Barium (Ba)-Total	0.0197		0.00010	mg/L		29-MAY-20	R5102695
Beryllium (Be)-Total	0.000062	<DL	0.00010	mg/L		29-MAY-20	R5102695
Bismuth (Bi)-Total	0.000025	<DL	0.000050	mg/L		29-MAY-20	R5102695
Boron (B)-Total	0.0135	<T	0.010	mg/L		29-MAY-20	R5102695
Cadmium (Cd)-Total	0.000011	<T	0.0000050	mg/L		29-MAY-20	R5102695
Calcium (Ca)-Total	38.9		0.050	mg/L		29-MAY-20	R5102695
Cesium (Cs)-Total	0.000045		0.000010	mg/L		29-MAY-20	R5102695
Chromium (Cr)-Total	0.00042	<T	0.00010	mg/L		29-MAY-20	R5102695
Cobalt (Co)-Total	0.000310	<T	0.00010	mg/L		29-MAY-20	R5102695
Copper (Cu)-Total	0.00244	<T	0.00050	mg/L		29-MAY-20	R5102695
Iron (Fe)-Total	0.394		0.010	mg/L		29-MAY-20	R5102695
Lead (Pb)-Total	0.000175	<T	0.000050	mg/L		29-MAY-20	R5102695
Lithium (Li)-Total	0.00520	<T	0.0010	mg/L		29-MAY-20	R5102695
Magnesium (Mg)-Total	15.7		0.0050	mg/L		29-MAY-20	R5102695
Manganese (Mn)-Total	0.0643		0.00010	mg/L		29-MAY-20	R5102695
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		20-MAY-20	R5092681
Molybdenum (Mo)-Total	0.00113	<T	0.000050	mg/L		29-MAY-20	R5102695
Nickel (Ni)-Total	0.00148	<T	0.00050	mg/L		29-MAY-20	R5102695
Phosphorus (P)-Total	0.026	<DL	0.050	mg/L		29-MAY-20	R5102695
Potassium (K)-Total	1.93		0.050	mg/L		29-MAY-20	R5102695
Rubidium (Rb)-Total	0.00163		0.00020	mg/L		29-MAY-20	R5102695
Selenium (Se)-Total	0.000180		0.000050	mg/L		29-MAY-20	R5102695
Silicon (Si)-Total	1.81		0.10	mg/L		29-MAY-20	R5102695
Silver (Ag)-Total	0.000008	<DL	0.000010	mg/L		29-MAY-20	R5102695
Sodium (Na)-Total	5.30		0.050	mg/L		29-MAY-20	R5102695
Strontium (Sr)-Total	0.0853		0.00020	mg/L		29-MAY-20	R5102695
Sulfur (S)-Total	5.0		0.50	mg/L		29-MAY-20	R5102695
Tellurium (Te)-Total	0.000115	<DL	0.00020	mg/L		29-MAY-20	R5102695
Thallium (Tl)-Total	0.000010	<T	0.000010	mg/L		29-MAY-20	R5102695
Thorium (Th)-Total	0.000090	<DL	0.00010	mg/L		29-MAY-20	R5102695
Tin (Sn)-Total	0.00012		0.00010	mg/L		29-MAY-20	R5102695
Titanium (Ti)-Total	0.00634		0.00030	mg/L		29-MAY-20	R5102695
Tungsten (W)-Total	0.000028	<DL	0.00010	mg/L		29-MAY-20	R5102695
Uranium (U)-Total	0.00137	<T	0.000010	mg/L		29-MAY-20	R5102695

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-19 SW26							
Sampled By: client on 12-MAY-20 @ 11:45							
Matrix: water							
Total Metals							
Vanadium (V)-Total	0.00106	<T	0.00050	mg/L		29-MAY-20	R5102695
Zinc (Zn)-Total	0.0080	<T	0.0030	mg/L		29-MAY-20	R5102695
Zirconium (Zr)-Total	0.000368		0.000060	mg/L		29-MAY-20	R5102695
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					01-JUN-20	R5103322
Aluminum (Al)-Dissolved	0.0112	<T	0.0010	mg/L		01-JUN-20	R5103378
Antimony (Sb)-Dissolved	0.000105	<T	0.00010	mg/L		01-JUN-20	R5103378
Arsenic (As)-Dissolved	0.000800	<T	0.00010	mg/L		01-JUN-20	R5103378
Barium (Ba)-Dissolved	0.0170		0.00010	mg/L		01-JUN-20	R5103378
Beryllium (Be)-Dissolved	0.000004	<DL	0.00010	mg/L		01-JUN-20	R5103378
Bismuth (Bi)-Dissolved	0.000001	<DL	0.000050	mg/L		01-JUN-20	R5103378
Boron (B)-Dissolved	0.0110	<T	0.010	mg/L		01-JUN-20	R5103378
Cadmium (Cd)-Dissolved	0.0000078	<T	0.0000050	mg/L		01-JUN-20	R5103378
Calcium (Ca)-Dissolved	36.2		0.050	mg/L		01-JUN-20	R5103378
Cesium (Cs)-Dissolved	0.000003	<DL	0.000010	mg/L		01-JUN-20	R5103378
Chromium (Cr)-Dissolved	0.00012	<T	0.00010	mg/L		01-JUN-20	R5103378
Cobalt (Co)-Dissolved	0.000189	<T	0.00010	mg/L		01-JUN-20	R5103378
Copper (Cu)-Dissolved	0.00194	<T	0.00020	mg/L		01-JUN-20	R5103378
Iron (Fe)-Dissolved	0.126		0.010	mg/L		01-JUN-20	R5103378
Lead (Pb)-Dissolved	0.000055	<T	0.000050	mg/L		01-JUN-20	R5103378
Lithium (Li)-Dissolved	0.00474	<T	0.0010	mg/L		01-JUN-20	R5103378
Magnesium (Mg)-Dissolved	14.7		0.0050	mg/L		01-JUN-20	R5103378
Manganese (Mn)-Dissolved	0.0452		0.00010	mg/L		01-JUN-20	R5103378
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		20-MAY-20	R5092738
Molybdenum (Mo)-Dissolved	0.00103	<T	0.000050	mg/L		01-JUN-20	R5103378
Nickel (Ni)-Dissolved	0.00120	<T	0.00050	mg/L		01-JUN-20	R5103378
Phosphorus (P)-Dissolved	0.026	<DL	0.050	mg/L		01-JUN-20	R5103378
Potassium (K)-Dissolved	1.83		0.050	mg/L		01-JUN-20	R5103378
Rubidium (Rb)-Dissolved	0.00116		0.00020	mg/L		01-JUN-20	R5103378
Selenium (Se)-Dissolved	0.000110		0.000050	mg/L		01-JUN-20	R5103378
Silicon (Si)-Dissolved	1.38		0.050	mg/L		01-JUN-20	R5103378
Silver (Ag)-Dissolved	<0.000001	<W	0.000010	mg/L		01-JUN-20	R5103378
Sodium (Na)-Dissolved	4.93		0.050	mg/L		01-JUN-20	R5103378
Strontium (Sr)-Dissolved	0.0812		0.00010	mg/L		01-JUN-20	R5103378
Sulfur (S)-Dissolved	5.1		0.50	mg/L		01-JUN-20	R5103378
Tellurium (Te)-Dissolved	0.000010	<DL	0.00020	mg/L		01-JUN-20	R5103378
Thallium (Tl)-Dissolved	0.000003	<DL	0.000010	mg/L		01-JUN-20	R5103378
Thorium (Th)-Dissolved	0.00002	<DL	0.00010	mg/L		01-JUN-20	R5103378
Tin (Sn)-Dissolved	0.00008	<DL	0.00010	mg/L		01-JUN-20	R5103378
Titanium (Ti)-Dissolved	0.00084		0.00030	mg/L		01-JUN-20	R5103378
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		01-JUN-20	R5103378

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2447535-19 SW26 Sampled By: client on 12-MAY-20 @ 11:45 Matrix: water							
Dissolved Metals							
Uranium (U)-Dissolved	0.00116	<T	0.000010	mg/L		01-JUN-20	R5103378
Vanadium (V)-Dissolved	0.00046	<DL	0.00050	mg/L		01-JUN-20	R5103378
Zinc (Zn)-Dissolved	0.0058	<T	0.0010	mg/L		01-JUN-20	R5103378
Zirconium (Zr)-Dissolved	0.000242		0.000060	mg/L		01-JUN-20	R5103378
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		15-MAY-20	R5092734
COD	41		10	mg/L		24-MAY-20	R5096022
Oil and Grease, Total	0.6	<DL	1.0	mg/L	19-MAY-20	19-MAY-20	R5092259

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Method Blank	Arsenic (As)-Dissolved	B	L2447535-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -3, -4, -5, -6, -8, -9
Laboratory Control Sample	Iron (Fe)-Total	MES	L2447535-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Dissolved Organic Carbon	MS-B	L2447535-10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2447535-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -3, -4, -5, -6, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2447535-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -3, -4, -5, -6, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2447535-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -3, -4, -5, -6, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2447535-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -3, -4, -5, -6, -8, -9
Matrix Spike	Barium (Ba)-Total	MS-B	L2447535-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Total	MS-B	L2447535-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Total	MS-B	L2447535-18, -19
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2447535-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2447535-18, -19
Matrix Spike	Manganese (Mn)-Total	MS-B	L2447535-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Total	MS-B	L2447535-18, -19
Matrix Spike	Sodium (Na)-Total	MS-B	L2447535-18, -19
Matrix Spike	Strontium (Sr)-Total	MS-B	L2447535-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Total	MS-B	L2447535-18, -19
Matrix Spike	Ammonia, Total (as N)	MS-B	L2447535-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Total Organic Carbon	MS-B	L2447535-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -3, -4, -5, -6, -7, -8, -9

Sample Parameter Qualifier key listed:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-MISA-TB	Effluent	Acidity (as CaCO ₃)	APHA 2310 B-POTENTIOMETRIC TITRATION
Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample.			
ALK-MISA-TB	Effluent	Alkalinity, Total (as CaCO ₃)	APHA 2320 B-Auto-Pot. Titration
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
BOD-TB	Water	Biochemical Oxygen Demand (BOD)	APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND
All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation.			
CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
CN-FREE-MISA-CFA-WT	Effluent	Free Cyanide by Continuous Flow	ASTM D7237-10 (modified)

Reference Information

Analyzer

This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis.

CN-T-MISA-CFA-WT Effluent Total Cyanide by CFA ISO 14403-2:2012 (modified)

This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis.

Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.

CN-WAD-MISA-CFA-WT Effluent Weak Acid Dissociable Cyanide by CFA APHA 4500-CN CYANIDE (modified)

This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.

COD-T-WT Water Chemical Oxygen Demand APHA 5220 D

This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.

COLOUR-TB Water Colour, True APHA 2120 C

True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard.

DO-CLIENT-TB Water Dissolved Oxygen, Client Supplied Result supplied by Client

DOC-MISA-WP Effluent Diss Organic Carbon by Combustion (MISA) APHA 5310 B-WP

Filtered (0.45 um) sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon is oxidized to CO₂ which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.

EC-MISA-TB Effluent Conductivity (EC) APHA 2510 B-ELECTRODE

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB Water Fluoride in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-WP Effluent Hardness Calculated (MISA) APHA 2340B

Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO₃ equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.

HG-DIS-WT Effluent Mercury (Hg)-Dissolved for MISA SW846 7470A

HG-TOT-WT Effluent Mercury (Hg)-Total for MISA SW846 7470A

MET-D-MISA-WP Effluent Diss. Metals in Water by CRC ICPMS(MISA) APHA 3030B/6020A (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-MISA-WP Effluent Total Metals in Water by CRC ICPMS (MISA) EPA 200.2/6020A (mod.)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-F-WT Effluent Ammonia, Total as N J. ENVIRON. MONIT., 2005, 7, 37-42, RSC

This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.

Reference Information

NH3-UNION-CALC-TB	Effluent	Un-ionized ammonia	Calculation
NO2-MISA-IC-TB	Effluent	Nitrite in Water by IC	EPA 300.1 (mod)
Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.			
NO3-MISA-IC-TB	Effluent	Nitrate in Water by IC	EPA 300.1 (mod)
Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.			
OGG-TOT-WT	Effluent	Oil and Grease, Total for MISA	APHA 5520 B-Hexane Gravimetric
PH-CLIENT-TB	Water	pH	Result supplied by Client
PH-MISA-TB	Effluent	pH	APHA 4500-H-ELECTRODE
This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode			
PO4-DO-COL-WT	Water	Diss. Orthophosphate in Water by Colour	APHA 4500-P PHOSPHORUS
This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Dissolved Orthophosphate is determined colourimetrically on a sample that has been lab or field filtered through a 0.45 micron membrane filter.			
RA226-MMER-BE	Water	Radium 226	Radium Isotopes by Alpha Spectrometry
Determination of Gamma Emitting Radionuclides In Water and Solids by Gamma Spectrometry.			
SO4-MISA-IC-TB	Effluent	Sulfate in Water by IC	EPA 300.1 (mod)
Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.			
TDS-MISA-TB	Effluent	Total Dissolved Solids	APHA 2540 C (modified)
Aqueous matrices are analyzed using gravimetry and evaporation			
TEMP-CLIENT-TB	Water	Temperature	Result supplied by Client
TKN-WT	Effluent	Total Kjeldahl Nitrogen for MISA	APHA 4500-N
TOC-WT	Water	Total Organic Carbon	APHA 5310B
Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.			
TSS-MISA-TB	Effluent	Total Suspended Solids	APHA 2540 D (modified)
Aqueous matrices are analyzed using gravimetry			
TURBIDITY-TB	Water	Turbidity	APHA 2130 B-Nephelometer
Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA
BE	BECQUEREL LABORATORIES INC. - MISSISSAUGA, ONTARIO, CANADA

Chain of Custody Numbers:

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 1 of 32

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BOD-TB		Water						
Batch R5092734								
WG3323985-12	DUP	L2447535-10						
Biochemical Oxygen Demand		2.7	3.0		mg/L	12	30	15-MAY-20
WG3323985-8	DUP	L2447923-7						
Biochemical Oxygen Demand		<2.0	<2.0	RPD-NA	mg/L	N/A	30	15-MAY-20
WG3323985-10	LCS							
Biochemical Oxygen Demand			106.6		%		85-115	15-MAY-20
WG3323985-6	LCS							
Biochemical Oxygen Demand			95.6		%		85-115	15-MAY-20
WG3323985-5	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	15-MAY-20
WG3323985-9	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	15-MAY-20
CL-L-IC-N-TB		Water						
Batch R5089517								
WG3324149-3	DUP	L2447551-3						
Chloride (Cl)		19.7	21.4		mg/L	8.3	20	15-MAY-20
WG3324149-2	LCS							
Chloride (Cl)			93.1		%		90-110	15-MAY-20
WG3324149-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	15-MAY-20
Batch R5090800								
WG3324319-3	DUP	L2447535-8						
Chloride (Cl)		4.41	4.70		mg/L	6.4	20	17-MAY-20
WG3324319-2	LCS							
Chloride (Cl)			105.0		%		90-110	17-MAY-20
WG3324319-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	17-MAY-20
Batch R5092873								
WG3325275-3	DUP	L2448652-1						
Chloride (Cl)		4.79	4.79		mg/L	0.0	20	19-MAY-20
WG3325077-2	LCS							
Chloride (Cl)			97.6		%		90-110	19-MAY-20
WG3325275-2	LCS							
Chloride (Cl)			91.4		%		90-110	19-MAY-20
WG3325077-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	19-MAY-20
WG3325275-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	19-MAY-20

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 3 of 32

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F-IC-N-TB								
	Water							
Batch	R5090800							
WG3324319-3	DUP	L2447535-8						
Fluoride (F)		0.060	0.065		mg/L	7.6	20	17-MAY-20
WG3324319-2	LCS							
Fluoride (F)			104.1		%		90-110	17-MAY-20
WG3324319-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	17-MAY-20
Batch	R5092873							
WG3325077-2	LCS							
Fluoride (F)			100.0		%		90-110	19-MAY-20
WG3325275-2	LCS							
Fluoride (F)			93.1		%		90-110	19-MAY-20
WG3325077-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	19-MAY-20
WG3325275-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	19-MAY-20
PO4-DO-COL-WT								
	Water							
Batch	R5091180							
WG3324966-3	DUP	L2447069-1						
Orthophosphate-Dissolved (as P)		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	19-MAY-20
WG3324966-2	LCS							
Orthophosphate-Dissolved (as P)			107.8		%		80-120	19-MAY-20
WG3324966-1	MB							
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	19-MAY-20
WG3324966-4	MS	L2447069-1						
Orthophosphate-Dissolved (as P)			80.2		%		70-130	19-MAY-20
TOC-WT								
	Water							
Batch	R5095730							
WG3326690-3	DUP	L2447535-15						
Total Organic Carbon		22.0	20.5		mg/L	7.1	20	22-MAY-20
WG3326690-2	LCS							
Total Organic Carbon			104.1		%		80-120	22-MAY-20
WG3326690-1	MB							
Total Organic Carbon			<0.50		mg/L		0.5	22-MAY-20
WG3326690-4	MS	L2447535-15						
Total Organic Carbon			N/A	MS-B	%		-	22-MAY-20
TURBIDITY-TB								
	Water							

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 4 of 32

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TURBIDITY-TB		Water						
Batch	R5087298							
WG3324244-3	DUP	L2447535-10						
Turbidity		2.94	3.00		NTU	2.0	15	15-MAY-20
WG3324244-2	LCS							
Turbidity			104.5		%		85-115	15-MAY-20
WG3324244-1	MB							
Turbidity			<0.10		NTU		0.1	15-MAY-20
ACY-MISA-TB		Effluent						
Batch	R5092571							
WG3324356-3	DUP	L2447535-7						
Acidity (as CaCO3)		0.4	0.4	RPD-NA	mg/L	N/A	20	19-MAY-20
WG3324147-2	LCS							
Acidity (as CaCO3)			100.9		%		85-115	19-MAY-20
WG3324356-2	LCS							
Acidity (as CaCO3)			102.0		%		85-115	19-MAY-20
WG3324147-1	MB							
Acidity (as CaCO3)			1.8		mg/L		4	19-MAY-20
WG3324356-1	MB							
Acidity (as CaCO3)			1.8		mg/L		4	19-MAY-20
ALK-MISA-TB		Effluent						
Batch	R5089476							
WG3324313-3	DUP	L2448033-8						
Alkalinity, Total (as CaCO3)		324	327		mg/L	1.0	20	15-MAY-20
Alkalinity, Phenolphthalein		<0.2	<0.2	RPD-NA	mg/L	N/A	25	15-MAY-20
WG3324146-2	LCS							
Alkalinity, Total (as CaCO3)			107.9		%		85-115	15-MAY-20
WG3324313-2	LCS							
Alkalinity, Total (as CaCO3)			105.7		%		85-115	15-MAY-20
WG3324146-1	MB							
Alkalinity, Total (as CaCO3)			0.6		mg/L		2	15-MAY-20
Alkalinity, Phenolphthalein			<0.2		mg/L		2	15-MAY-20
WG3324313-1	MB							
Alkalinity, Total (as CaCO3)			0.4		mg/L		2	15-MAY-20
Alkalinity, Phenolphthalein			<0.2		mg/L		2	15-MAY-20
CN-FREE-MISA-CFA-WT		Effluent						

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 5 of 32

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CN-FREE-MISA-CFA-WT		Effluent						
Batch	R5092542							
WG3325327-11	DUP	L2447535-12						
Cyanide, Free		0.0002	0.0005	RPD-NA	mg/L	N/A	20	19-MAY-20
WG3325327-3	DUP	L2447535-3						
Cyanide, Free		0.0004	0.0002	RPD-NA	mg/L	N/A	20	19-MAY-20
WG3325327-10	LCS							
Cyanide, Free			98.4		%		80-120	19-MAY-20
WG3325327-2	LCS							
Cyanide, Free			99.1		%		80-120	19-MAY-20
WG3325327-1	MB							
Cyanide, Free			0.0003		mg/L		0.002	19-MAY-20
WG3325327-9	MB							
Cyanide, Free			<0.0001		mg/L		0.002	19-MAY-20
WG3325327-12	MS	L2447535-12						
Cyanide, Free			99.4		%		75-125	19-MAY-20
WG3325327-4	MS	L2447535-3						
Cyanide, Free			99.7		%		75-125	19-MAY-20
CN-T-MISA-CFA-WT		Effluent						
Batch	R5092542							
WG3325327-11	DUP	L2447535-12						
Cyanide, Total		0.0006	0.0006	RPD-NA	mg/L	N/A	20	19-MAY-20
WG3325327-3	DUP	L2447535-3						
Cyanide, Total		0.0004	0.0002	RPD-NA	mg/L	N/A	20	19-MAY-20
WG3325327-10	LCS							
Cyanide, Total			94.7		%		80-120	19-MAY-20
WG3325327-2	LCS							
Cyanide, Total			94.9		%		80-120	19-MAY-20
WG3325327-1	MB							
Cyanide, Total			<0.0002		mg/L		0.002	19-MAY-20
WG3325327-9	MB							
Cyanide, Total			<0.0002		mg/L		0.002	19-MAY-20
WG3325327-12	MS	L2447535-12						
Cyanide, Total			90.4		%		75-125	19-MAY-20
WG3325327-4	MS	L2447535-3						
Cyanide, Total			88.8		%		75-125	19-MAY-20
CN-WAD-MISA-CFA-WT		Effluent						

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 7 of 32

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-MISA-TB		Effluent						
Batch	R5089476							
WG3324313-2	LCS							
Conductivity (EC)			99.8		%		90-110	15-MAY-20
WG3324146-1	MB							
Conductivity (EC)			1.0		uS/cm		2	15-MAY-20
WG3324313-1	MB							
Conductivity (EC)			1.0		uS/cm		2	15-MAY-20
HG-DIS-WT		Effluent						
Batch	R5092738							
WG3325091-3	DUP	L2447535-1						
Mercury (Hg)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	20-MAY-20
WG3325091-2	LCS							
Mercury (Hg)-Dissolved			98.7		%		80-120	20-MAY-20
WG3325091-1	MB							
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.00003	20-MAY-20
WG3325091-4	MS	L2447535-2						
Mercury (Hg)-Dissolved			99.0		%		70-130	20-MAY-20
HG-TOT-WT		Effluent						
Batch	R5092681							
WG3325089-3	DUP	L2447535-1						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	20-MAY-20
WG3325089-2	LCS							
Mercury (Hg)-Total			103.0		%		80-120	20-MAY-20
WG3325089-1	MB							
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	20-MAY-20
WG3325089-4	MS	L2447535-2						
Mercury (Hg)-Total			93.1		%		70-130	20-MAY-20
MET-D-MISA-WP		Effluent						
Batch	R5103378							
WG3333519-4	DUP	WG3333519-3						
Aluminum (Al)-Dissolved		0.0512	0.0500		mg/L	2.2	20	01-JUN-20
Antimony (Sb)-Dissolved		0.000030	0.000040	RPD-NA	mg/L	N/A	20	01-JUN-20
Arsenic (As)-Dissolved		0.000485	0.000515		mg/L	6.8	20	01-JUN-20
Barium (Ba)-Dissolved		0.0105	0.0104		mg/L	0.4	20	01-JUN-20
Beryllium (Be)-Dissolved		0.000006	0.000008	RPD-NA	mg/L	N/A	20	01-JUN-20
Bismuth (Bi)-Dissolved		0.000001	0.000001	RPD-NA	mg/L	N/A	20	01-JUN-20
Boron (B)-Dissolved		0.0035	0.0035	RPD-NA	mg/L	N/A	20	01-JUN-20

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 8 of 32

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-WP		Effluent						
Batch	R5103378							
WG3333519-4	DUP	WG3333519-3						
Cadmium (Cd)-Dissolved		0.0000072	0.0000048	RPD-NA	mg/L	N/A	20	01-JUN-20
Calcium (Ca)-Dissolved		10.2	10.2		mg/L	0.0	20	01-JUN-20
Cesium (Cs)-Dissolved		0.000003	0.000004	RPD-NA	mg/L	N/A	20	01-JUN-20
Chromium (Cr)-Dissolved		0.00028	0.00028		mg/L	1.2	20	01-JUN-20
Cobalt (Co)-Dissolved		0.000054	0.000052	RPD-NA	mg/L	N/A	20	01-JUN-20
Copper (Cu)-Dissolved		0.00094	0.00096		mg/L	1.5	20	01-JUN-20
Iron (Fe)-Dissolved		0.166	0.167		mg/L	0.6	20	01-JUN-20
Lead (Pb)-Dissolved		0.000065	0.000065		mg/L	4.7	20	01-JUN-20
Lithium (Li)-Dissolved		0.00138	0.00142		mg/L	2.1	20	01-JUN-20
Magnesium (Mg)-Dissolved		3.81	3.71		mg/L	2.8	20	01-JUN-20
Manganese (Mn)-Dissolved		0.00860	0.00864		mg/L	0.3	20	01-JUN-20
Molybdenum (Mo)-Dissolved		0.000196	0.000192		mg/L	1.9	20	01-JUN-20
Nickel (Ni)-Dissolved		0.00078	0.00076		mg/L	4.9	20	01-JUN-20
Phosphorus (P)-Dissolved		0.006	0.004	RPD-NA	mg/L	N/A	20	01-JUN-20
Potassium (K)-Dissolved		0.860	0.858		mg/L	0.2	20	01-JUN-20
Rubidium (Rb)-Dissolved		0.00160	0.00162		mg/L	1.1	20	01-JUN-20
Selenium (Se)-Dissolved		0.000110	0.000100		mg/L	7.7	20	01-JUN-20
Silicon (Si)-Dissolved		2.12	2.13		mg/L	0.6	20	01-JUN-20
Silver (Ag)-Dissolved		0.000001	<0.000001	RPD-NA	mg/L	N/A	20	01-JUN-20
Sodium (Na)-Dissolved		4.01	3.94		mg/L	1.6	20	01-JUN-20
Strontium (Sr)-Dissolved		0.0253	0.0254		mg/L	0.3	20	01-JUN-20
Sulfur (S)-Dissolved		1.8	1.8		mg/L	3.0	20	01-JUN-20
Tellurium (Te)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	01-JUN-20
Thallium (Tl)-Dissolved		0.000002	0.000003	RPD-NA	mg/L	N/A	20	01-JUN-20
Thorium (Th)-Dissolved		0.00004	0.00004	RPD-NA	mg/L	N/A	20	01-JUN-20
Tin (Sn)-Dissolved		0.00018	0.00014	J	mg/L	0.00004	0.0002	01-JUN-20
Titanium (Ti)-Dissolved		0.00148	0.00156		mg/L	6.4	20	01-JUN-20
Tungsten (W)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	01-JUN-20
Uranium (U)-Dissolved		0.000128	0.000130		mg/L	1.6	20	01-JUN-20
Vanadium (V)-Dissolved		0.00038	0.00034	RPD-NA	mg/L	N/A	20	01-JUN-20
Zinc (Zn)-Dissolved		0.0010	0.0008	RPD-NA	mg/L	N/A	20	01-JUN-20
Zirconium (Zr)-Dissolved		0.000210	0.000226		mg/L	7.0	20	01-JUN-20

WG3333519-2 LCS

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 9 of 32

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-WP		Effluent						
Batch	R5103378							
WG3333519-2	LCS							
Aluminum (Al)-Dissolved			100.1		%		80-120	01-JUN-20
Antimony (Sb)-Dissolved			97.7		%		80-120	01-JUN-20
Arsenic (As)-Dissolved			98.4		%		80-120	01-JUN-20
Barium (Ba)-Dissolved			99.6		%		80-120	01-JUN-20
Beryllium (Be)-Dissolved			100.1		%		80-120	01-JUN-20
Bismuth (Bi)-Dissolved			99.4		%		80-120	01-JUN-20
Boron (B)-Dissolved			95.8		%		80-120	01-JUN-20
Cadmium (Cd)-Dissolved			98.2		%		80-120	01-JUN-20
Calcium (Ca)-Dissolved			100.4		%		80-120	01-JUN-20
Cesium (Cs)-Dissolved			98.9		%		80-120	01-JUN-20
Chromium (Cr)-Dissolved			98.7		%		80-120	01-JUN-20
Cobalt (Co)-Dissolved			98.3		%		80-120	01-JUN-20
Copper (Cu)-Dissolved			102.7		%		80-120	01-JUN-20
Iron (Fe)-Dissolved			102.9		%		80-120	01-JUN-20
Lead (Pb)-Dissolved			100.0		%		80-120	01-JUN-20
Lithium (Li)-Dissolved			101.4		%		80-120	01-JUN-20
Magnesium (Mg)-Dissolved			108.2		%		80-120	01-JUN-20
Manganese (Mn)-Dissolved			99.95		%		80-120	01-JUN-20
Molybdenum (Mo)-Dissolved			98.4		%		80-120	01-JUN-20
Nickel (Ni)-Dissolved			99.4		%		80-120	01-JUN-20
Phosphorus (P)-Dissolved			105.0		%		80-120	01-JUN-20
Potassium (K)-Dissolved			100.5		%		80-120	01-JUN-20
Rubidium (Rb)-Dissolved			98.1		%		80-120	01-JUN-20
Selenium (Se)-Dissolved			99.7		%		80-120	01-JUN-20
Silicon (Si)-Dissolved			100.6		%		80-120	01-JUN-20
Silver (Ag)-Dissolved			97.7		%		80-120	01-JUN-20
Sodium (Na)-Dissolved			102.0		%		80-120	01-JUN-20
Strontium (Sr)-Dissolved			98.7		%		80-120	01-JUN-20
Sulfur (S)-Dissolved			108.2		%		80-120	01-JUN-20
Tellurium (Te)-Dissolved			97.0		%		80-120	01-JUN-20
Thallium (Tl)-Dissolved			99.6		%		80-120	01-JUN-20
Thorium (Th)-Dissolved			89.9		%		80-120	01-JUN-20
Tin (Sn)-Dissolved			98.0		%		80-120	01-JUN-20

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 10 of 32

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-WP		Effluent						
Batch	R5103378							
WG3333519-2	LCS							
Titanium (Ti)-Dissolved			93.6		%		80-120	01-JUN-20
Tungsten (W)-Dissolved			97.1		%		80-120	01-JUN-20
Uranium (U)-Dissolved			95.8		%		80-120	01-JUN-20
Vanadium (V)-Dissolved			98.7		%		80-120	01-JUN-20
Zinc (Zn)-Dissolved			101.4		%		80-120	01-JUN-20
Zirconium (Zr)-Dissolved			92.1		%		80-120	01-JUN-20
WG3333519-1	MB							
Aluminum (Al)-Dissolved			<0.0002		mg/L		0.001	01-JUN-20
Antimony (Sb)-Dissolved			<0.000005		mg/L		0.0001	01-JUN-20
Arsenic (As)-Dissolved			0.000105	B	mg/L		0.0001	01-JUN-20
Barium (Ba)-Dissolved			<0.000005		mg/L		0.0001	01-JUN-20
Beryllium (Be)-Dissolved			<0.000002		mg/L		0.0001	01-JUN-20
Bismuth (Bi)-Dissolved			<0.000001		mg/L		0.00005	01-JUN-20
Boron (B)-Dissolved			<0.0005		mg/L		0.01	01-JUN-20
Cadmium (Cd)-Dissolved			<0.0000006		mg/L		0.000005	01-JUN-20
Calcium (Ca)-Dissolved			<0.002		mg/L		0.05	01-JUN-20
Cesium (Cs)-Dissolved			<0.000001		mg/L		0.00001	01-JUN-20
Chromium (Cr)-Dissolved			<0.00002		mg/L		0.0001	01-JUN-20
Cobalt (Co)-Dissolved			<0.000001		mg/L		0.0001	01-JUN-20
Copper (Cu)-Dissolved			<0.00002		mg/L		0.0002	01-JUN-20
Iron (Fe)-Dissolved			<0.0002		mg/L		0.01	01-JUN-20
Lead (Pb)-Dissolved			<0.000005		mg/L		0.00005	01-JUN-20
Lithium (Li)-Dissolved			<0.00002		mg/L		0.001	01-JUN-20
Magnesium (Mg)-Dissolved			<0.0005		mg/L		0.005	01-JUN-20
Manganese (Mn)-Dissolved			<0.00002		mg/L		0.0001	01-JUN-20
Molybdenum (Mo)-Dissolved			<0.000002		mg/L		0.00005	01-JUN-20
Nickel (Ni)-Dissolved			<0.00002		mg/L		0.0005	01-JUN-20
Phosphorus (P)-Dissolved			<0.002		mg/L		0.05	01-JUN-20
Potassium (K)-Dissolved			<0.002		mg/L		0.05	01-JUN-20
Rubidium (Rb)-Dissolved			<0.000002		mg/L		0.0002	01-JUN-20
Selenium (Se)-Dissolved			0.000030		mg/L		0.00005	01-JUN-20
Silicon (Si)-Dissolved			0.005		mg/L		0.05	01-JUN-20
Silver (Ag)-Dissolved			<0.000001		mg/L		0.00001	01-JUN-20
Sodium (Na)-Dissolved			0.015		mg/L		0.05	01-JUN-20

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 11 of 32

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-WP		Effluent						
Batch	R5103378							
WG3333519-1	MB							
Strontium (Sr)-Dissolved			<0.00001		mg/L		0.0001	01-JUN-20
Sulfur (S)-Dissolved			<0.1		mg/L		0.5	01-JUN-20
Tellurium (Te)-Dissolved			0.000025		mg/L		0.0002	01-JUN-20
Thallium (Tl)-Dissolved			<0.000001		mg/L		0.00001	01-JUN-20
Thorium (Th)-Dissolved			<0.00002		mg/L		0.0001	01-JUN-20
Tin (Sn)-Dissolved			<0.00001		mg/L		0.0001	01-JUN-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.0003	01-JUN-20
Tungsten (W)-Dissolved			0.000030		mg/L		0.0001	01-JUN-20
Uranium (U)-Dissolved			<0.0000002		mg/L		0.00001	01-JUN-20
Vanadium (V)-Dissolved			<0.00002		mg/L		0.0005	01-JUN-20
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.001	01-JUN-20
Zirconium (Zr)-Dissolved			<0.000002		mg/L		0.00006	01-JUN-20
WG3333519-5	MS		WG3333519-3					
Aluminum (Al)-Dissolved			104.3		%		70-130	01-JUN-20
Antimony (Sb)-Dissolved			100.2		%		70-130	01-JUN-20
Arsenic (As)-Dissolved			106.1		%		70-130	01-JUN-20
Barium (Ba)-Dissolved			105.1		%		70-130	01-JUN-20
Beryllium (Be)-Dissolved			105.1		%		70-130	01-JUN-20
Bismuth (Bi)-Dissolved			93.3		%		70-130	01-JUN-20
Boron (B)-Dissolved			107.8		%		70-130	01-JUN-20
Cadmium (Cd)-Dissolved			105.6		%		70-130	01-JUN-20
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	01-JUN-20
Cesium (Cs)-Dissolved			100.7		%		70-130	01-JUN-20
Chromium (Cr)-Dissolved			102.0		%		70-130	01-JUN-20
Cobalt (Co)-Dissolved			102.7		%		70-130	01-JUN-20
Copper (Cu)-Dissolved			104.3		%		70-130	01-JUN-20
Iron (Fe)-Dissolved			102.8		%		70-130	01-JUN-20
Lead (Pb)-Dissolved			102.4		%		70-130	01-JUN-20
Lithium (Li)-Dissolved			107.1		%		70-130	01-JUN-20
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	01-JUN-20
Manganese (Mn)-Dissolved			101.5		%		70-130	01-JUN-20
Molybdenum (Mo)-Dissolved			98.2		%		70-130	01-JUN-20
Nickel (Ni)-Dissolved			103.4		%		70-130	01-JUN-20
Phosphorus (P)-Dissolved			107.1		%		70-130	01-JUN-20

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 12 of 32

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-WP		Effluent						
Batch	R5103378							
WG3333519-5	MS	WG3333519-3						
Potassium (K)-Dissolved			101.7		%		70-130	01-JUN-20
Rubidium (Rb)-Dissolved			101.3		%		70-130	01-JUN-20
Selenium (Se)-Dissolved			112.6		%		70-130	01-JUN-20
Silicon (Si)-Dissolved			95.2		%		70-130	01-JUN-20
Silver (Ag)-Dissolved			99.5		%		70-130	01-JUN-20
Sodium (Na)-Dissolved			N/A	MS-B	%		-	01-JUN-20
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	01-JUN-20
Sulfur (S)-Dissolved			105.6		%		70-130	01-JUN-20
Tellurium (Te)-Dissolved			105.2		%		70-130	01-JUN-20
Thallium (Tl)-Dissolved			102.7		%		70-130	01-JUN-20
Thorium (Th)-Dissolved			102.9		%		70-130	01-JUN-20
Tin (Sn)-Dissolved			99.5		%		70-130	01-JUN-20
Titanium (Ti)-Dissolved			100.9		%		70-130	01-JUN-20
Tungsten (W)-Dissolved			101.8		%		70-130	01-JUN-20
Uranium (U)-Dissolved			100.8		%		70-130	01-JUN-20
Vanadium (V)-Dissolved			104.1		%		70-130	01-JUN-20
Zinc (Zn)-Dissolved			107.2		%		70-130	01-JUN-20
Zirconium (Zr)-Dissolved			98.3		%		70-130	01-JUN-20
Batch	R5116062							
WG3342921-2	LCS							
Aluminum (Al)-Dissolved			103.4		%		80-120	10-JUN-20
Antimony (Sb)-Dissolved			98.9		%		80-120	10-JUN-20
Arsenic (As)-Dissolved			98.2		%		80-120	10-JUN-20
Barium (Ba)-Dissolved			102.5		%		80-120	10-JUN-20
Beryllium (Be)-Dissolved			100.6		%		80-120	10-JUN-20
Bismuth (Bi)-Dissolved			101.6		%		80-120	10-JUN-20
Boron (B)-Dissolved			106.0		%		80-120	10-JUN-20
Cadmium (Cd)-Dissolved			100.5		%		80-120	10-JUN-20
Calcium (Ca)-Dissolved			96.5		%		80-120	10-JUN-20
Cesium (Cs)-Dissolved			107.2		%		80-120	10-JUN-20
Chromium (Cr)-Dissolved			99.3		%		80-120	10-JUN-20
Cobalt (Co)-Dissolved			99.2		%		80-120	10-JUN-20
Copper (Cu)-Dissolved			100.7		%		80-120	10-JUN-20
Iron (Fe)-Dissolved			94.1		%		80-120	10-JUN-20

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 13 of 32

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-WP		Effluent						
Batch	R5116062							
WG3342921-2	LCS							
Lead (Pb)-Dissolved			102.2		%		80-120	10-JUN-20
Lithium (Li)-Dissolved			103.5		%		80-120	10-JUN-20
Magnesium (Mg)-Dissolved			102.6		%		80-120	10-JUN-20
Manganese (Mn)-Dissolved			102.7		%		80-120	10-JUN-20
Molybdenum (Mo)-Dissolved			100.5		%		80-120	10-JUN-20
Nickel (Ni)-Dissolved			98.5		%		80-120	10-JUN-20
Phosphorus (P)-Dissolved			103.3		%		80-120	10-JUN-20
Potassium (K)-Dissolved			96.5		%		80-120	10-JUN-20
Rubidium (Rb)-Dissolved			97.3		%		80-120	10-JUN-20
Selenium (Se)-Dissolved			96.8		%		80-120	10-JUN-20
Silicon (Si)-Dissolved			101.1		%		80-120	10-JUN-20
Silver (Ag)-Dissolved			100.4		%		80-120	10-JUN-20
Sodium (Na)-Dissolved			105.5		%		80-120	10-JUN-20
Strontium (Sr)-Dissolved			105.0		%		80-120	10-JUN-20
Sulfur (S)-Dissolved			106.7		%		80-120	10-JUN-20
Tellurium (Te)-Dissolved			98.4		%		80-120	10-JUN-20
Thallium (Tl)-Dissolved			102.6		%		80-120	10-JUN-20
Thorium (Th)-Dissolved			95.6		%		80-120	10-JUN-20
Tin (Sn)-Dissolved			99.5		%		80-120	10-JUN-20
Titanium (Ti)-Dissolved			98.2		%		80-120	10-JUN-20
Tungsten (W)-Dissolved			101.9		%		80-120	10-JUN-20
Uranium (U)-Dissolved			101.0		%		80-120	10-JUN-20
Vanadium (V)-Dissolved			100.7		%		80-120	10-JUN-20
Zinc (Zn)-Dissolved			98.8		%		80-120	10-JUN-20
Zirconium (Zr)-Dissolved			96.0		%		80-120	10-JUN-20
WG3342921-1	MB							
Aluminum (Al)-Dissolved			<0.0002		mg/L		0.001	10-JUN-20
Antimony (Sb)-Dissolved			<0.000005		mg/L		0.0001	10-JUN-20
Arsenic (As)-Dissolved			0.000065		mg/L		0.0001	10-JUN-20
Barium (Ba)-Dissolved			<0.000005		mg/L		0.0001	10-JUN-20
Beryllium (Be)-Dissolved			<0.000002		mg/L		0.0001	10-JUN-20
Bismuth (Bi)-Dissolved			<0.000001		mg/L		0.00005	10-JUN-20
Boron (B)-Dissolved			0.0055		mg/L		0.01	10-JUN-20
Cadmium (Cd)-Dissolved			<0.0000006		mg/L		0.000005	10-JUN-20

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 14 of 32

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-WP		Effluent						
Batch	R5116062							
WG3342921-1	MB							
Calcium (Ca)-Dissolved			0.004		mg/L		0.05	10-JUN-20
Cesium (Cs)-Dissolved			<0.000001		mg/L		0.00001	10-JUN-20
Chromium (Cr)-Dissolved			<0.00002		mg/L		0.0001	10-JUN-20
Cobalt (Co)-Dissolved			<0.000001		mg/L		0.0001	10-JUN-20
Copper (Cu)-Dissolved			0.00002		mg/L		0.0002	10-JUN-20
Iron (Fe)-Dissolved			<0.0002		mg/L		0.01	10-JUN-20
Lead (Pb)-Dissolved			<0.000005		mg/L		0.00005	10-JUN-20
Lithium (Li)-Dissolved			<0.00002		mg/L		0.001	10-JUN-20
Magnesium (Mg)-Dissolved			<0.0005		mg/L		0.005	10-JUN-20
Manganese (Mn)-Dissolved			<0.00002		mg/L		0.0001	10-JUN-20
Molybdenum (Mo)-Dissolved			<0.000002		mg/L		0.00005	10-JUN-20
Nickel (Ni)-Dissolved			<0.00002		mg/L		0.0005	10-JUN-20
Phosphorus (P)-Dissolved			0.004		mg/L		0.05	10-JUN-20
Potassium (K)-Dissolved			0.010		mg/L		0.05	10-JUN-20
Rubidium (Rb)-Dissolved			<0.000002		mg/L		0.0002	10-JUN-20
Selenium (Se)-Dissolved			0.000010		mg/L		0.00005	10-JUN-20
Silicon (Si)-Dissolved			0.021		mg/L		0.05	10-JUN-20
Silver (Ag)-Dissolved			<0.000001		mg/L		0.00001	10-JUN-20
Sodium (Na)-Dissolved			0.030		mg/L		0.05	10-JUN-20
Strontium (Sr)-Dissolved			0.00001		mg/L		0.0001	10-JUN-20
Sulfur (S)-Dissolved			<0.1		mg/L		0.5	10-JUN-20
Tellurium (Te)-Dissolved			<0.000005		mg/L		0.0002	10-JUN-20
Thallium (Tl)-Dissolved			<0.000001		mg/L		0.00001	10-JUN-20
Thorium (Th)-Dissolved			<0.00002		mg/L		0.0001	10-JUN-20
Tin (Sn)-Dissolved			<0.00001		mg/L		0.0001	10-JUN-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.0003	10-JUN-20
Tungsten (W)-Dissolved			<0.000002		mg/L		0.0001	10-JUN-20
Uranium (U)-Dissolved			<0.0000002		mg/L		0.00001	10-JUN-20
Vanadium (V)-Dissolved			0.00006		mg/L		0.0005	10-JUN-20
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.001	10-JUN-20
Zirconium (Zr)-Dissolved			<0.000002		mg/L		0.00006	10-JUN-20

MET-T-MISA-WP **Effluent**

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 15 of 32

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-WP		Effluent						
Batch	R5102695							
WG3331296-4	DUP	WG3331296-3						
Aluminum (Al)-Total		0.189	0.186		mg/L	1.2	20	29-MAY-20
Antimony (Sb)-Total		0.00026	0.00024		mg/L	2.4	20	29-MAY-20
Arsenic (As)-Total		0.00049	0.00049		mg/L	0.3	20	29-MAY-20
Barium (Ba)-Total		0.0365	0.0365		mg/L	0.0	20	29-MAY-20
Beryllium (Be)-Total		0.000012	0.000012	RPD-NA	mg/L	N/A	20	29-MAY-20
Bismuth (Bi)-Total		0.000015	<0.000005	RPD-NA	mg/L	N/A	20	29-MAY-20
Boron (B)-Total		0.0010	0.0010	RPD-NA	mg/L	N/A	20	29-MAY-20
Cadmium (Cd)-Total		0.000007	0.000010	J	mg/L	0.0000031	0.00001	29-MAY-20
Calcium (Ca)-Total		9.13	9.06		mg/L	0.8	20	29-MAY-20
Cesium (Cs)-Total		0.000030	0.000028		mg/L	3.7	20	29-MAY-20
Chromium (Cr)-Total		0.00044	0.00046		mg/L	8.2	20	29-MAY-20
Cobalt (Co)-Total		0.000344	0.000348		mg/L	0.9	20	29-MAY-20
Copper (Cu)-Total		0.00054	0.00058		mg/L	6.8	20	29-MAY-20
Iron (Fe)-Total		0.407	0.399		mg/L	1.9	20	29-MAY-20
Lead (Pb)-Total		0.000110	0.000105		mg/L	3.5	20	29-MAY-20
Lithium (Li)-Total		0.00058	0.00056	RPD-NA	mg/L	N/A	20	29-MAY-20
Magnesium (Mg)-Total		1.12	1.10		mg/L	1.1	20	29-MAY-20
Manganese (Mn)-Total		0.0435	0.0433		mg/L	0.4	20	29-MAY-20
Molybdenum (Mo)-Total		0.00356	0.00354		mg/L	0.4	20	29-MAY-20
Nickel (Ni)-Total		0.00056	0.00056		mg/L	0.7	20	29-MAY-20
Potassium (K)-Total		0.740	0.732		mg/L	1.0	20	29-MAY-20
Phosphorus (P)-Total		<0.002	<0.002	RPD-NA	mg/L	N/A	20	29-MAY-20
Rubidium (Rb)-Total		0.00144	0.00148		mg/L	2.4	20	29-MAY-20
Selenium (Se)-Total		0.000090	0.000070	J	mg/L	0.000018	0.0001	29-MAY-20
Silicon (Si)-Total		1.83	1.82		mg/L	0.5	20	29-MAY-20
Silver (Ag)-Total		0.000002	<0.000002	RPD-NA	mg/L	N/A	20	29-MAY-20
Sodium (Na)-Total		0.640	0.590		mg/L	7.9	20	29-MAY-20
Strontium (Sr)-Total		0.0237	0.0235		mg/L	0.9	20	29-MAY-20
Sulfur (S)-Total		2.4	2.4		mg/L	1.3	20	29-MAY-20
Tellurium (Te)-Total		0.000015	0.000035	RPD-NA	mg/L	N/A	20	29-MAY-20
Thallium (Tl)-Total		0.000009	0.000006	RPD-NA	mg/L	N/A	20	29-MAY-20
Thorium (Th)-Total		0.000040	0.000030	RPD-NA	mg/L	N/A	20	29-MAY-20
Tin (Sn)-Total		0.00014	0.00020		mg/L			29-MAY-20

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 16 of 32

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-WP		Effluent						
Batch	R5102695							
WG3331296-4	DUP	WG3331296-3						
Tin (Sn)-Total		0.00014	0.00020	J	mg/L	0.00006	0.0002	29-MAY-20
Titanium (Ti)-Total		0.00158	0.00174		mg/L	9.5	20	29-MAY-20
Tungsten (W)-Total		0.000008	0.000012	RPD-NA	mg/L	N/A	20	29-MAY-20
Uranium (U)-Total		0.0000274	0.0000288		mg/L	5.3	20	29-MAY-20
Vanadium (V)-Total		0.00036	0.00036	RPD-NA	mg/L	N/A	20	29-MAY-20
Zinc (Zn)-Total		0.0030	0.0030		mg/L	2.5	20	29-MAY-20
Zirconium (Zr)-Total		0.000116	0.000116		mg/L	0.1	20	29-MAY-20
WG3331297-4	DUP	WG3331297-3						
Aluminum (Al)-Total		0.194	0.223		mg/L	14	20	29-MAY-20
Antimony (Sb)-Total		0.00006	0.00004	RPD-NA	mg/L	N/A	20	29-MAY-20
Arsenic (As)-Total		0.00076	0.00077		mg/L	1.4	20	29-MAY-20
Barium (Ba)-Total		0.0178	0.0180		mg/L	1.0	20	29-MAY-20
Beryllium (Be)-Total		0.000020	0.000016	RPD-NA	mg/L	N/A	20	29-MAY-20
Bismuth (Bi)-Total		0.000015	<0.000005	RPD-NA	mg/L	N/A	20	29-MAY-20
Boron (B)-Total		0.0090	0.0095	RPD-NA	mg/L	N/A	20	29-MAY-20
Cadmium (Cd)-Total		0.000011	0.000012		mg/L	3.5	20	29-MAY-20
Calcium (Ca)-Total		34.1	34.0		mg/L	0.1	20	29-MAY-20
Cesium (Cs)-Total		0.000031	0.000034		mg/L	11	20	29-MAY-20
Chromium (Cr)-Total		0.00044	0.00050		mg/L	13	20	29-MAY-20
Cobalt (Co)-Total		0.000308	0.000318		mg/L	3.2	20	29-MAY-20
Copper (Cu)-Total		0.00228	0.00226		mg/L	1.1	20	29-MAY-20
Iron (Fe)-Total		0.358	0.389		mg/L	8.3	20	29-MAY-20
Lead (Pb)-Total		0.000165	0.000165		mg/L	0.3	20	29-MAY-20
Lithium (Li)-Total		0.00398	0.00400		mg/L	0.7	20	29-MAY-20
Magnesium (Mg)-Total		14.1	13.9		mg/L	1.4	20	29-MAY-20
Manganese (Mn)-Total		0.0819	0.0816		mg/L	0.3	20	29-MAY-20
Molybdenum (Mo)-Total		0.000910	0.000915		mg/L	0.7	20	29-MAY-20
Nickel (Ni)-Total		0.00140	0.00142		mg/L	2.1	20	29-MAY-20
Potassium (K)-Total		1.62	1.62		mg/L	0.3	20	29-MAY-20
Phosphorus (P)-Total		0.014	0.022	RPD-NA	mg/L	N/A	20	29-MAY-20
Rubidium (Rb)-Total		0.00144	0.00162		mg/L	12	20	29-MAY-20
Selenium (Se)-Total		0.000160	0.000160		mg/L	2.5	20	29-MAY-20
Silicon (Si)-Total		2.24	2.36		mg/L	5.3	20	29-MAY-20

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 17 of 32

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-WP		Effluent						
Batch	R5102695							
WG3331297-4	DUP	WG3331297-3						
Silver (Ag)-Total		0.000004	0.000004	RPD-NA	mg/L	N/A	20	29-MAY-20
Sodium (Na)-Total		4.74	4.63		mg/L	2.3	20	29-MAY-20
Strontium (Sr)-Total		0.0701	0.0705		mg/L	0.5	20	29-MAY-20
Sulfur (S)-Total		4.0	4.2		mg/L	3.7	20	29-MAY-20
Tellurium (Te)-Total		0.000035	0.000035	RPD-NA	mg/L	N/A	20	29-MAY-20
Thallium (Tl)-Total		0.000007	0.000006	RPD-NA	mg/L	N/A	20	29-MAY-20
Thorium (Th)-Total		0.000065	0.000055	RPD-NA	mg/L	N/A	20	29-MAY-20
Tin (Sn)-Total		0.000008	0.000008	RPD-NA	mg/L	N/A	20	29-MAY-20
Titanium (Ti)-Total		0.00626	0.00672		mg/L	7.0	20	29-MAY-20
Tungsten (W)-Total		0.000010	0.000008	RPD-NA	mg/L	N/A	20	29-MAY-20
Uranium (U)-Total		0.00117	0.00117		mg/L	0.7	20	29-MAY-20
Vanadium (V)-Total		0.00106	0.00112		mg/L	7.1	20	29-MAY-20
Zinc (Zn)-Total		0.0045	0.0045		mg/L	0.6	20	29-MAY-20
Zirconium (Zr)-Total		0.000322	0.000338		mg/L	5.0	20	29-MAY-20
WG3331296-2	LCS							
Aluminum (Al)-Total			100.8		%		80-120	29-MAY-20
Antimony (Sb)-Total			101.9		%		80-120	29-MAY-20
Arsenic (As)-Total			101.5		%		80-120	29-MAY-20
Barium (Ba)-Total			101.3		%		80-120	29-MAY-20
Beryllium (Be)-Total			96.8		%		80-120	29-MAY-20
Bismuth (Bi)-Total			94.3		%		70-130	29-MAY-20
Boron (B)-Total			97.1		%		80-120	29-MAY-20
Cadmium (Cd)-Total			100.8		%		80-120	29-MAY-20
Calcium (Ca)-Total			100.9		%		80-120	29-MAY-20
Cesium (Cs)-Total			105.7		%		80-120	29-MAY-20
Chromium (Cr)-Total			100.6		%		80-120	29-MAY-20
Cobalt (Co)-Total			100.7		%		80-120	29-MAY-20
Copper (Cu)-Total			100.2		%		80-120	29-MAY-20
Iron (Fe)-Total			126.1	MES	%		80-120	29-MAY-20
Lead (Pb)-Total			96.2		%		80-120	29-MAY-20
Lithium (Li)-Total			98.3		%		80-120	29-MAY-20
Magnesium (Mg)-Total			108.7		%		80-120	29-MAY-20
Manganese (Mn)-Total			101.7		%		80-120	29-MAY-20

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 18 of 32

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-WP		Effluent						
Batch	R5102695							
WG3331296-2 LCS								
Molybdenum (Mo)-Total			98.1		%		80-120	29-MAY-20
Nickel (Ni)-Total			99.3		%		80-120	29-MAY-20
Potassium (K)-Total			103.5		%		80-120	29-MAY-20
Phosphorus (P)-Total			103.9		%		80-120	29-MAY-20
Rubidium (Rb)-Total			102.9		%		80-120	29-MAY-20
Selenium (Se)-Total			100.3		%		80-120	29-MAY-20
Silicon (Si)-Total			99.9		%		80-120	29-MAY-20
Silver (Ag)-Total			99.0		%		80-120	29-MAY-20
Sodium (Na)-Total			102.4		%		80-120	29-MAY-20
Strontium (Sr)-Total			105.2		%		80-120	29-MAY-20
Sulfur (S)-Total			87.4		%		80-120	29-MAY-20
Tellurium (Te)-Total			100.8		%		80-120	29-MAY-20
Thallium (Tl)-Total			97.6		%		80-120	29-MAY-20
Thorium (Th)-Total			93.5		%		80-120	29-MAY-20
Tin (Sn)-Total			97.3		%		80-120	29-MAY-20
Titanium (Ti)-Total			97.9		%		80-120	29-MAY-20
Tungsten (W)-Total			96.0		%		80-120	29-MAY-20
Uranium (U)-Total			103.6		%		80-120	29-MAY-20
Vanadium (V)-Total			101.9		%		80-120	29-MAY-20
Zinc (Zn)-Total			100.7		%		80-120	29-MAY-20
Zirconium (Zr)-Total			98.2		%		80-120	29-MAY-20
WG3331297-2 LCS								
Aluminum (Al)-Total			101.6		%		80-120	29-MAY-20
Antimony (Sb)-Total			100.7		%		80-120	29-MAY-20
Arsenic (As)-Total			101.9		%		80-120	29-MAY-20
Barium (Ba)-Total			102.9		%		80-120	29-MAY-20
Beryllium (Be)-Total			96.8		%		80-120	29-MAY-20
Bismuth (Bi)-Total			96.8		%		70-130	29-MAY-20
Boron (B)-Total			98.3		%		80-120	29-MAY-20
Cadmium (Cd)-Total			101.1		%		80-120	29-MAY-20
Calcium (Ca)-Total			102.2		%		80-120	29-MAY-20
Cesium (Cs)-Total			104.1		%		80-120	29-MAY-20
Chromium (Cr)-Total			101.8		%		80-120	29-MAY-20
Cobalt (Co)-Total			101.6		%		80-120	29-MAY-20

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 19 of 32

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-WP		Effluent						
Batch	R5102695							
WG3331297-2	LCS							
Copper (Cu)-Total			101.6		%		80-120	29-MAY-20
Iron (Fe)-Total			96.6		%		80-120	29-MAY-20
Lead (Pb)-Total			95.4		%		80-120	29-MAY-20
Lithium (Li)-Total			99.3		%		80-120	29-MAY-20
Magnesium (Mg)-Total			111.8		%		80-120	29-MAY-20
Manganese (Mn)-Total			103.0		%		80-120	29-MAY-20
Molybdenum (Mo)-Total			99.1		%		80-120	29-MAY-20
Nickel (Ni)-Total			99.8		%		80-120	29-MAY-20
Potassium (K)-Total			103.3		%		80-120	29-MAY-20
Phosphorus (P)-Total			106.3		%		80-120	29-MAY-20
Rubidium (Rb)-Total			101.4		%		80-120	29-MAY-20
Selenium (Se)-Total			100.1		%		80-120	29-MAY-20
Silicon (Si)-Total			100.7		%		80-120	29-MAY-20
Silver (Ag)-Total			97.6		%		80-120	29-MAY-20
Sodium (Na)-Total			103.5		%		80-120	29-MAY-20
Strontium (Sr)-Total			103.4		%		80-120	29-MAY-20
Sulfur (S)-Total			89.6		%		80-120	29-MAY-20
Tellurium (Te)-Total			95.7		%		80-120	29-MAY-20
Thallium (Tl)-Total			96.8		%		80-120	29-MAY-20
Thorium (Th)-Total			95.5		%		80-120	29-MAY-20
Tin (Sn)-Total			96.8		%		80-120	29-MAY-20
Titanium (Ti)-Total			97.3		%		80-120	29-MAY-20
Tungsten (W)-Total			95.8		%		80-120	29-MAY-20
Uranium (U)-Total			102.9		%		80-120	29-MAY-20
Vanadium (V)-Total			101.9		%		80-120	29-MAY-20
Zinc (Zn)-Total			100.3		%		80-120	29-MAY-20
Zirconium (Zr)-Total			96.8		%		80-120	29-MAY-20
WG3331296-1	MB							
Aluminum (Al)-Total			0.0002		mg/L		0.003	29-MAY-20
Antimony (Sb)-Total			0.00004		mg/L		0.0001	29-MAY-20
Arsenic (As)-Total			0.00002		mg/L		0.0001	29-MAY-20
Barium (Ba)-Total			<0.000005		mg/L		0.0001	29-MAY-20
Beryllium (Be)-Total			<0.000002		mg/L		0.0001	29-MAY-20
Bismuth (Bi)-Total			<0.000005		mg/L		0.00005	29-MAY-20

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 20 of 32

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-WP		Effluent						
Batch	R5102695							
WG3331296-1	MB							
Boron (B)-Total			0.0010		mg/L		0.01	29-MAY-20
Cadmium (Cd)-Total			<0.000001		mg/L		0.000005	29-MAY-20
Calcium (Ca)-Total			<0.005		mg/L		0.05	29-MAY-20
Cesium (Cs)-Total			<0.000001		mg/L		0.00001	29-MAY-20
Chromium (Cr)-Total			<0.00002		mg/L		0.0001	29-MAY-20
Cobalt (Co)-Total			<0.000002		mg/L		0.0001	29-MAY-20
Copper (Cu)-Total			<0.00002		mg/L		0.0005	29-MAY-20
Iron (Fe)-Total			<0.001		mg/L		0.01	29-MAY-20
Lead (Pb)-Total			0.000005		mg/L		0.00005	29-MAY-20
Lithium (Li)-Total			0.00006		mg/L		0.001	29-MAY-20
Magnesium (Mg)-Total			<0.001		mg/L		0.005	29-MAY-20
Manganese (Mn)-Total			<0.00002		mg/L		0.0001	29-MAY-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.00005	29-MAY-20
Nickel (Ni)-Total			<0.00002		mg/L		0.0005	29-MAY-20
Potassium (K)-Total			<0.002		mg/L		0.05	29-MAY-20
Phosphorus (P)-Total			0.012		mg/L		0.05	29-MAY-20
Rubidium (Rb)-Total			<0.000005		mg/L		0.0002	29-MAY-20
Selenium (Se)-Total			0.000020		mg/L		0.00005	29-MAY-20
Silicon (Si)-Total			0.030		mg/L		0.1	29-MAY-20
Silver (Ag)-Total			<0.000002		mg/L		0.00001	29-MAY-20
Sodium (Na)-Total			<0.005		mg/L		0.05	29-MAY-20
Strontium (Sr)-Total			<0.000005		mg/L		0.0002	29-MAY-20
Sulfur (S)-Total			<0.1		mg/L		0.5	29-MAY-20
Tellurium (Te)-Total			<0.000005		mg/L		0.0002	29-MAY-20
Thallium (Tl)-Total			<0.000001		mg/L		0.00001	29-MAY-20
Thorium (Th)-Total			<0.000005		mg/L		0.0001	29-MAY-20
Tin (Sn)-Total			<0.00002		mg/L		0.0001	29-MAY-20
Titanium (Ti)-Total			<0.00002		mg/L		0.0003	29-MAY-20
Tungsten (W)-Total			<0.000002		mg/L		0.0001	29-MAY-20
Uranium (U)-Total			<0.0000002		mg/L		0.00001	29-MAY-20
Vanadium (V)-Total			0.00010		mg/L		0.0005	29-MAY-20
Zinc (Zn)-Total			<0.0005		mg/L		0.003	29-MAY-20
Zirconium (Zr)-Total			<0.000002		mg/L		0.00006	29-MAY-20
WG3331297-1	MB							

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 21 of 32

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-WP		Effluent						
Batch	R5102695							
WG3331297-1 MB								
Aluminum (Al)-Total			0.0002		mg/L		0.003	29-MAY-20
Antimony (Sb)-Total			0.00008		mg/L		0.0001	29-MAY-20
Arsenic (As)-Total			0.00002		mg/L		0.0001	29-MAY-20
Barium (Ba)-Total			0.000005		mg/L		0.0001	29-MAY-20
Beryllium (Be)-Total			<0.000002		mg/L		0.0001	29-MAY-20
Bismuth (Bi)-Total			0.000005		mg/L		0.00005	29-MAY-20
Boron (B)-Total			0.0005		mg/L		0.01	29-MAY-20
Cadmium (Cd)-Total			<0.000001		mg/L		0.000005	29-MAY-20
Calcium (Ca)-Total			<0.005		mg/L		0.05	29-MAY-20
Cesium (Cs)-Total			<0.000001		mg/L		0.00001	29-MAY-20
Chromium (Cr)-Total			<0.00002		mg/L		0.0001	29-MAY-20
Cobalt (Co)-Total			<0.000002		mg/L		0.0001	29-MAY-20
Copper (Cu)-Total			<0.00002		mg/L		0.0005	29-MAY-20
Iron (Fe)-Total			<0.001		mg/L		0.01	29-MAY-20
Lead (Pb)-Total			0.000005		mg/L		0.00005	29-MAY-20
Lithium (Li)-Total			0.00004		mg/L		0.001	29-MAY-20
Magnesium (Mg)-Total			<0.001		mg/L		0.005	29-MAY-20
Manganese (Mn)-Total			<0.00002		mg/L		0.0001	29-MAY-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.00005	29-MAY-20
Nickel (Ni)-Total			<0.00002		mg/L		0.0005	29-MAY-20
Potassium (K)-Total			<0.002		mg/L		0.05	29-MAY-20
Phosphorus (P)-Total			0.014		mg/L		0.05	29-MAY-20
Rubidium (Rb)-Total			<0.000005		mg/L		0.0002	29-MAY-20
Selenium (Se)-Total			0.000010		mg/L		0.00005	29-MAY-20
Silicon (Si)-Total			0.030		mg/L		0.1	29-MAY-20
Silver (Ag)-Total			<0.000002		mg/L		0.00001	29-MAY-20
Sodium (Na)-Total			<0.005		mg/L		0.05	29-MAY-20
Strontium (Sr)-Total			0.000005		mg/L		0.0002	29-MAY-20
Sulfur (S)-Total			<0.1		mg/L		0.5	29-MAY-20
Tellurium (Te)-Total			<0.000005		mg/L		0.0002	29-MAY-20
Thallium (Tl)-Total			<0.000001		mg/L		0.00001	29-MAY-20
Thorium (Th)-Total			0.000005		mg/L		0.0001	29-MAY-20
Tin (Sn)-Total			<0.00002		mg/L		0.0001	29-MAY-20

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 22 of 32

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-WP		Effluent						
Batch	R5102695							
WG3331297-1	MB							
Titanium (Ti)-Total			<0.00002		mg/L		0.0003	29-MAY-20
Tungsten (W)-Total			<0.000002		mg/L		0.0001	29-MAY-20
Uranium (U)-Total			0.0000006		mg/L		0.00001	29-MAY-20
Vanadium (V)-Total			0.00010		mg/L		0.0005	29-MAY-20
Zinc (Zn)-Total			<0.0005		mg/L		0.003	29-MAY-20
Zirconium (Zr)-Total			<0.000002		mg/L		0.00006	29-MAY-20
WG3331296-5	MS		WG3331296-3					
Aluminum (Al)-Total			98.0		%		70-130	29-MAY-20
Antimony (Sb)-Total			101.6		%		70-130	29-MAY-20
Arsenic (As)-Total			104.3		%		70-130	29-MAY-20
Barium (Ba)-Total			N/A	MS-B	%		-	29-MAY-20
Beryllium (Be)-Total			100.7		%		70-130	29-MAY-20
Bismuth (Bi)-Total			105.7		%		70-130	29-MAY-20
Boron (B)-Total			104.6		%		70-130	29-MAY-20
Cadmium (Cd)-Total			105.5		%		70-130	29-MAY-20
Calcium (Ca)-Total			N/A	MS-B	%		-	29-MAY-20
Cesium (Cs)-Total			106.5		%		70-130	29-MAY-20
Chromium (Cr)-Total			105.3		%		70-130	29-MAY-20
Cobalt (Co)-Total			104.0		%		70-130	29-MAY-20
Copper (Cu)-Total			105.8		%		70-130	29-MAY-20
Iron (Fe)-Total			105.0		%		70-130	29-MAY-20
Lead (Pb)-Total			100.6		%		70-130	29-MAY-20
Lithium (Li)-Total			101.5		%		70-130	29-MAY-20
Magnesium (Mg)-Total			N/A	MS-B	%		-	29-MAY-20
Manganese (Mn)-Total			N/A	MS-B	%		-	29-MAY-20
Molybdenum (Mo)-Total			100.5		%		70-130	29-MAY-20
Nickel (Ni)-Total			104.0		%		70-130	29-MAY-20
Potassium (K)-Total			100.7		%		70-130	29-MAY-20
Phosphorus (P)-Total			102.8		%		70-130	29-MAY-20
Rubidium (Rb)-Total			103.1		%		70-130	29-MAY-20
Selenium (Se)-Total			107.2		%		70-130	29-MAY-20
Silicon (Si)-Total			97.7		%		70-130	29-MAY-20
Silver (Ag)-Total			102.5		%		70-130	29-MAY-20
Sodium (Na)-Total			105.7		%		70-130	29-MAY-20

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 23 of 32

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-WP		Effluent						
Batch	R5102695							
WG3331296-5 MS	WG3331296-3							
Strontium (Sr)-Total			N/A	MS-B	%		-	29-MAY-20
Sulfur (S)-Total			103.0		%		70-130	29-MAY-20
Tellurium (Te)-Total			99.7		%		70-130	29-MAY-20
Thallium (Tl)-Total			101.4		%		70-130	29-MAY-20
Thorium (Th)-Total			107.4		%		70-130	29-MAY-20
Tin (Sn)-Total			100.6		%		70-130	29-MAY-20
Titanium (Ti)-Total			101.1		%		70-130	29-MAY-20
Tungsten (W)-Total			100.1		%		70-130	29-MAY-20
Uranium (U)-Total			108.2		%		70-130	29-MAY-20
Vanadium (V)-Total			104.7		%		70-130	29-MAY-20
Zinc (Zn)-Total			103.8		%		70-130	29-MAY-20
Zirconium (Zr)-Total			98.7		%		70-130	29-MAY-20
WG3331297-5 MS	WG3331297-3							
Aluminum (Al)-Total			112.8		%		70-130	29-MAY-20
Antimony (Sb)-Total			101.6		%		70-130	29-MAY-20
Arsenic (As)-Total			105.4		%		70-130	29-MAY-20
Barium (Ba)-Total			103.0		%		70-130	29-MAY-20
Beryllium (Be)-Total			106.0		%		70-130	29-MAY-20
Bismuth (Bi)-Total			98.9		%		70-130	29-MAY-20
Boron (B)-Total			110.1		%		70-130	29-MAY-20
Cadmium (Cd)-Total			104.4		%		70-130	29-MAY-20
Calcium (Ca)-Total			N/A	MS-B	%		-	29-MAY-20
Cesium (Cs)-Total			107.6		%		70-130	29-MAY-20
Chromium (Cr)-Total			105.1		%		70-130	29-MAY-20
Cobalt (Co)-Total			103.3		%		70-130	29-MAY-20
Copper (Cu)-Total			104.8		%		70-130	29-MAY-20
Iron (Fe)-Total			105.3		%		70-130	29-MAY-20
Lead (Pb)-Total			95.4		%		70-130	29-MAY-20
Lithium (Li)-Total			106.3		%		70-130	29-MAY-20
Magnesium (Mg)-Total			N/A	MS-B	%		-	29-MAY-20
Manganese (Mn)-Total			N/A	MS-B	%		-	29-MAY-20
Molybdenum (Mo)-Total			102.4		%		70-130	29-MAY-20
Nickel (Ni)-Total			102.7		%		70-130	29-MAY-20
Potassium (K)-Total			101.4		%		70-130	29-MAY-20

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 24 of 32

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-WP		Effluent						
Batch	R5102695							
WG3331297-5 MS		WG3331297-3						
Phosphorus (P)-Total			105.9		%		70-130	29-MAY-20
Rubidium (Rb)-Total			104.1		%		70-130	29-MAY-20
Selenium (Se)-Total			108.1		%		70-130	29-MAY-20
Silicon (Si)-Total			98.8		%		70-130	29-MAY-20
Silver (Ag)-Total			100.4		%		70-130	29-MAY-20
Sodium (Na)-Total			N/A	MS-B	%		-	29-MAY-20
Strontium (Sr)-Total			N/A	MS-B	%		-	29-MAY-20
Sulfur (S)-Total			104.0		%		70-130	29-MAY-20
Tellurium (Te)-Total			97.9		%		70-130	29-MAY-20
Thallium (Tl)-Total			95.5		%		70-130	29-MAY-20
Thorium (Th)-Total			104.6		%		70-130	29-MAY-20
Tin (Sn)-Total			100.4		%		70-130	29-MAY-20
Titanium (Ti)-Total			102.1		%		70-130	29-MAY-20
Tungsten (W)-Total			97.7		%		70-130	29-MAY-20
Uranium (U)-Total			103.1		%		70-130	29-MAY-20
Vanadium (V)-Total			105.6		%		70-130	29-MAY-20
Zinc (Zn)-Total			102.2		%		70-130	29-MAY-20
Zirconium (Zr)-Total			100.7		%		70-130	29-MAY-20
NH3-F-WT		Effluent						
Batch	R5094647							
WG3326665-3 DUP		WG3326665-3						
Ammonia, Total (as N)		0.632	0.640		mg/L	1.1	25	21-MAY-20
WG3326665-2 LCS			101.1		%		70-130	21-MAY-20
WG3326665-1 MB			<0.002		mg/L		0.02	21-MAY-20
WG3326665-4 MS		WG3326665-5						
Ammonia, Total (as N)			N/A	MS-B	%		-	21-MAY-20
Batch	R5096029							
WG3326767-3 DUP		WG3326767-5						
Ammonia, Total (as N)		0.020	0.020		mg/L	1.5	25	22-MAY-20
WG3326767-2 LCS			103.2		%		70-130	22-MAY-20
WG3326767-1 MB			<0.002		mg/L		0.02	22-MAY-20

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 25 of 32

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-F-WT		Effluent						
Batch	R5096029							
WG3326767-4	MS	WG3326767-5						
Ammonia, Total (as N)			105.5		%		70-130	22-MAY-20
NO2-MISA-IC-TB		Effluent						
Batch	R5089517							
WG3324149-2	LCS							
Nitrite (as N)			90.9		%		90-110	15-MAY-20
WG3324149-1	MB							
Nitrite (as N)			0.003		mg/L		0.01	15-MAY-20
Batch	R5090800							
WG3324319-3	DUP	L2447535-8						
Nitrite (as N)		0.010	0.011	RPD-NA	mg/L	N/A	20	17-MAY-20
WG3324319-2	LCS							
Nitrite (as N)			106.2		%		90-110	17-MAY-20
WG3324319-1	MB							
Nitrite (as N)			<0.001		mg/L		0.01	17-MAY-20
Batch	R5092873							
WG3325077-2	LCS							
Nitrite (as N)			96.5		%		90-110	19-MAY-20
WG3325275-2	LCS							
Nitrite (as N)			92.4		%		90-110	19-MAY-20
WG3325077-1	MB							
Nitrite (as N)			<0.001		mg/L		0.01	19-MAY-20
WG3325275-1	MB							
Nitrite (as N)			<0.001		mg/L		0.01	19-MAY-20
NO3-MISA-IC-TB		Effluent						
Batch	R5089517							
WG3324149-2	LCS							
Nitrate (as N)			91.5		%		90-110	15-MAY-20
WG3324149-1	MB							
Nitrate (as N)			0.004		mg/L		0.02	15-MAY-20
Batch	R5090800							
WG3324319-3	DUP	L2447535-8						
Nitrate (as N)		0.786	0.850		mg/L	7.7	20	17-MAY-20
WG3324319-2	LCS							
Nitrate (as N)			106.7		%		90-110	17-MAY-20
WG3324319-1	MB							
Nitrate (as N)			0.002				0.02	

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 26 of 32

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO3-MISA-IC-TB		Effluent						
Batch	R5090800							
WG3324319-1	MB							
Nitrate (as N)			0.002		mg/L		0.02	17-MAY-20
Batch	R5092873							
WG3325077-2	LCS							
Nitrate (as N)			100.3		%		90-110	19-MAY-20
WG3325275-2	LCS							
Nitrate (as N)			92.2		%		90-110	19-MAY-20
WG3325077-1	MB							
Nitrate (as N)			<0.002		mg/L		0.02	19-MAY-20
WG3325275-1	MB							
Nitrate (as N)			0.010		mg/L		0.02	19-MAY-20
OGG-TOT-WT		Effluent						
Batch	R5090418							
WG3324926-2	LCS							
Oil and Grease, Total			85.8		%		50-150	18-MAY-20
WG3324926-1	MB							
Oil and Grease, Total			0.6		mg/L		1	18-MAY-20
Batch	R5092259							
WG3325163-2	LCS							
Oil and Grease, Total			99.7		%		50-150	19-MAY-20
WG3325163-1	MB							
Oil and Grease, Total			0.4		mg/L		1	19-MAY-20
PH-MISA-TB		Effluent						
Batch	R5089476							
WG3324313-3	DUP	L2448033-8						
pH		7.95	7.97	J	pH	0.02	0.2	15-MAY-20
WG3324146-2	LCS							
pH			6.94		pH		6.9-7.1	15-MAY-20
WG3324313-2	LCS							
pH			6.94		pH		6.9-7.1	15-MAY-20
SO4-MISA-IC-TB		Effluent						
Batch	R5089517							
WG3324149-2	LCS							
Sulfate (SO4)			93.7		%		90-110	15-MAY-20
WG3324149-1	MB							
Sulfate (SO4)			<0.05		mg/L		0.3	15-MAY-20

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 28 of 32

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TKN-WT		Effluent						
Batch	R5095336							
WG3326645-3	DUP	WG3326645-5						
Total Kjeldahl Nitrogen		0.55	0.60		mg/L	6.3	20	22-MAY-20
WG3326777-3	DUP	WG3326777-5						
Total Kjeldahl Nitrogen		1.05	1.00		mg/L	4.3	20	22-MAY-20
WG3326645-2	LCS							
Total Kjeldahl Nitrogen			108.2		%		80-120	22-MAY-20
WG3326777-2	LCS							
Total Kjeldahl Nitrogen			79.2		%		75-125	22-MAY-20
WG3326645-1	MB							
Total Kjeldahl Nitrogen			<0.05		mg/L		0.18	22-MAY-20
WG3326777-1	MB							
Total Kjeldahl Nitrogen			<0.05		mg/L		0.18	22-MAY-20
WG3326645-4	MS	WG3326645-5						
Total Kjeldahl Nitrogen			106.0		%		70-130	22-MAY-20
WG3326777-4	MS	WG3326777-5						
Total Kjeldahl Nitrogen			109.1		%		70-130	22-MAY-20
TSS-MISA-TB		Effluent						
Batch	R5088642							
WG3324318-3	DUP	L2447535-3						
Total Suspended Solids		5.5	5.5		mg/L	4.9	20	15-MAY-20
WG3324318-2	LCS							
Total Suspended Solids			93.5		%		85-115	15-MAY-20
WG3324318-1	MB							
Total Suspended Solids			<0.5		mg/L		2	15-MAY-20
Batch	R5090216							
WG3324656-3	DUP	L2448402-1						
Total Suspended Solids		22.5	22.0		mg/L	1.8	20	16-MAY-20
WG3324656-2	LCS							
Total Suspended Solids			95.1		%		85-115	16-MAY-20
WG3324656-1	MB							
Total Suspended Solids			<0.5		mg/L		2	16-MAY-20
Batch	R5092579							
WG3325080-2	LCS							
Total Suspended Solids			99.1		%		85-115	19-MAY-20
WG3325080-1	MB							
Total Suspended Solids			<0.5		mg/L		2	19-MAY-20

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Page 29 of 32

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TSS-MISA-TB	Effluent							
Batch	R5092795							
WG3325484-3	DUP	L2448402-3						
Total Suspended Solids		38.5	33.0		mg/L	15	20	19-MAY-20
WG3325484-2	LCS							
Total Suspended Solids			97.1		%		85-115	19-MAY-20
WG3325484-1	MB							
Total Suspended Solids			<0.5		mg/L		2	19-MAY-20

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Page 30 of 32

Contact: Amanda Jacobs

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
J	Duplicate results and limits are expressed in terms of absolute difference.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0
 Contact: Amanda Jacobs

Page 31 of 32

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Colour, True							
	1	12-MAY-20 12:00	15-MAY-20 16:00	48	76	hours	EHTR
	2	12-MAY-20 12:00	15-MAY-20 16:00	48	76	hours	EHTR
	3	12-MAY-20 09:40	15-MAY-20 16:00	48	78	hours	EHTR
	4	12-MAY-20 11:10	15-MAY-20 16:00	48	77	hours	EHTR
	5	12-MAY-20 14:00	15-MAY-20 16:00	48	74	hours	EHTR
	6	12-MAY-20 13:00	15-MAY-20 16:00	48	75	hours	EHTR
	7	12-MAY-20 13:30	15-MAY-20 16:00	48	74	hours	EHTR
	8	12-MAY-20 12:00	15-MAY-20 16:00	48	76	hours	EHTR
	9	12-MAY-20 14:30	15-MAY-20 16:00	48	73	hours	EHTR
	10	13-MAY-20 12:45	15-MAY-20 16:00	48	51	hours	EHTL
	11	13-MAY-20 15:15	15-MAY-20 16:00	48	49	hours	EHTL
	12	13-MAY-20 15:30	15-MAY-20 17:15	48	50	hours	EHTL
	13	13-MAY-20 16:00	15-MAY-20 17:15	48	49	hours	EHTL
	16	12-MAY-20 14:00	15-MAY-20 16:00	48	74	hours	EHTR
	17	12-MAY-20 13:30	15-MAY-20 16:00	48	74	hours	EHTR
	18	12-MAY-20 11:45	15-MAY-20 16:00	48	76	hours	EHTR
	19	12-MAY-20 11:45	15-MAY-20 16:00	48	76	hours	EHTR
Turbidity							
	1	12-MAY-20 12:00	15-MAY-20 15:05	48	75	hours	EHTR
	2	12-MAY-20 12:00	15-MAY-20 15:05	48	75	hours	EHTR
	3	12-MAY-20 09:40	15-MAY-20 15:05	48	78	hours	EHTR
	4	12-MAY-20 11:10	15-MAY-20 15:05	48	76	hours	EHTR
	5	12-MAY-20 14:00	15-MAY-20 15:05	48	73	hours	EHTR
	6	12-MAY-20 13:00	15-MAY-20 15:05	48	74	hours	EHTR
	7	12-MAY-20 13:30	15-MAY-20 15:05	48	74	hours	EHTR
	8	12-MAY-20 12:00	15-MAY-20 15:05	48	75	hours	EHTR
	9	12-MAY-20 14:30	15-MAY-20 15:05	48	72	hours	EHTR
	10	13-MAY-20 12:45	15-MAY-20 15:05	48	50	hours	EHTL
	16	12-MAY-20 14:00	15-MAY-20 15:05	48	73	hours	EHTR
	17	12-MAY-20 13:30	15-MAY-20 15:05	48	74	hours	EHTR
	18	12-MAY-20 11:45	15-MAY-20 15:05	48	75	hours	EHTR
	19	12-MAY-20 11:45	15-MAY-20 15:05	48	75	hours	EHTR
Leachable Anions & Nutrients							
Nitrate in Water by IC							
	18	12-MAY-20 11:45	19-MAY-20 14:15	5	7	days	EHT
Nitrite in Water by IC							
	18	12-MAY-20 11:45	19-MAY-20 14:15	5	7	days	EHT
Organic / Inorganic Carbon							
Diss Organic Carbon by Combustion (MISA)							
	1	12-MAY-20 12:00	26-MAY-20 15:00	10	14	days	EHT
	2	12-MAY-20 12:00	26-MAY-20 15:00	10	14	days	EHT
	3	12-MAY-20 09:40	26-MAY-20 15:00	10	14	days	EHT
	4	12-MAY-20 11:10	26-MAY-20 15:00	10	14	days	EHT
	5	12-MAY-20 14:00	26-MAY-20 15:00	10	14	days	EHT
	6	12-MAY-20 13:00	26-MAY-20 15:00	10	14	days	EHT
	7	12-MAY-20 13:30	27-MAY-20 15:00	10	15	days	EHT
	8	12-MAY-20 12:00	27-MAY-20 15:00	10	15	days	EHT
	9	12-MAY-20 14:30	27-MAY-20 15:00	10	15	days	EHT
	10	13-MAY-20 12:45	27-MAY-20 15:00	10	14	days	EHT
	11	13-MAY-20 15:15	27-MAY-20 15:00	10	14	days	EHT
	12	13-MAY-20 15:30	27-MAY-20 15:00	10	14	days	EHT

Quality Control Report

Workorder: L2447535

Report Date: 19-JUN-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Amanda Jacobs

Page 32 of 32

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Organic / Inorganic Carbon							
Diss Organic Carbon by Combustion (MISA)							
	13	13-MAY-20 16:00	27-MAY-20 15:00	10	14	days	EHT
	14	14-MAY-20 08:30	27-MAY-20 15:00	10	13	days	EHT
	15	14-MAY-20 08:50	27-MAY-20 15:00	10	13	days	EHT
	16	12-MAY-20 14:00	27-MAY-20 15:00	10	15	days	EHT
	17	12-MAY-20 13:30	27-MAY-20 15:00	10	15	days	EHT
	18	12-MAY-20 11:45	27-MAY-20 15:00	10	15	days	EHT
	19	12-MAY-20 11:45	27-MAY-20 15:00	10	15	days	EHT

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2447535 were received on 15-MAY-20 11:00.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Your P.O. #: L2447535
Your C.O.C. #: N/A

Attention: Christine Paradis

ALS Laboratory Group
Environmental Div.
1081 Barton St.
Thunder Bay, ON
Canada P7B 5N3

Report Date: 2020/05/25
Report #: R6185099
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C0C0642

Received: 2020/05/19, 11:15

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Radium Isotopes by Alpha Spectrometry (1)	4	N/A	2020/05/22	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by BV Labs, unless otherwise agreed in writing. BV Labs is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by BV Labs, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Radium-226 results have not been corrected for blanks.



Your P.O. #: L2447535
Your C.O.C. #: N/A

Attention: Christine Paradis

ALS Laboratory Group
Environmental Div.
1081 Barton St.
Thunder Bay, ON
Canada P7B 5N3

Report Date: 2020/05/25
Report #: R6185099
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C0C0642
Received: 2020/05/19, 11:15

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Mayank Nigam, Project Manager
Email: Mayank.Nigam@bvlab.com
Phone# (905) 826-3080

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

BV Labs Job #: COC0642
Report Date: 2020/05/25

ALS Laboratory Group
Your P.O. #: L2447535

RESULTS OF ANALYSES OF WATER

BV Labs ID		MQR527	MQR528	MQR529	MQR530		
Sampling Date		2020/05/12	2020/05/12	2020/05/13	2020/05/12		
COC Number		N/A	N/A	N/A	N/A		
	UNITS	L2447535 - 6 SW23	L2447535 -7 SW24	L2447535 - 13 SW22A	L2447535 - 16 SW20	RDL	QC Batch
Radium-226	Bq/L	<0.010	<0.010	<0.010	<0.010	0.010	6734246
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



BUREAU
VERITAS

BV Labs Job #: COC0642
Report Date: 2020/05/25

ALS Laboratory Group
Your P.O. #: L2447535

TEST SUMMARY

BV Labs ID: MQR527
Sample ID: L2447535 - 6 SW23
Matrix: Water

Collected: 2020/05/12
Shipped:
Received: 2020/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6734246	N/A	2020/05/22	Barbara Kalbasi Esfahani

BV Labs ID: MQR528
Sample ID: L2447535 - 7 SW24
Matrix: Water

Collected: 2020/05/12
Shipped:
Received: 2020/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6734246	N/A	2020/05/22	Barbara Kalbasi Esfahani

BV Labs ID: MQR529
Sample ID: L2447535 - 13 SW22A
Matrix: Water

Collected: 2020/05/13
Shipped:
Received: 2020/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6734246	N/A	2020/05/22	Barbara Kalbasi Esfahani

BV Labs ID: MQR530
Sample ID: L2447535 - 16 SW20
Matrix: Water

Collected: 2020/05/12
Shipped:
Received: 2020/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6734246	N/A	2020/05/22	Barbara Kalbasi Esfahani



BUREAU
VERITAS

BV Labs Job #: COC0642
Report Date: 2020/05/25

ALS Laboratory Group
Your P.O. #: L2447535

GENERAL COMMENTS

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
6734246	BKE	Spiked Blank	Radium-226	2020/05/22		96	%	85 - 115
6734246	BKE	Method Blank	Radium-226	2020/05/22	<0.010		Bq/L	
6734246	BKE	RPD	Radium-226	2020/05/22	NC		%	N/A

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BUREAU
VERITAS

BV Labs Job #: COC0642
Report Date: 2020/05/25

ALS Laboratory Group
Your P.O. #: L2447535

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

<original signed by>


Steven Simpson, Lab Director

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Chain of Custody (COC) / Analytical Request Form



L2447535-COFC


Number: 14 -

Page of

Canada Toll Free: 1 800 668 9878

(lab use only)

Report To				Report Format / Distribution				Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)																					
Company:		New Gold Inc. Rainy River Project		Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel <input checked="" type="checkbox"/> EDD (Digital)				R <input checked="" type="checkbox"/> Regular (Standard TAT if received by 3pm - business days)																					
Contact:		Amanda Jacobs / Carolyn Winik		Quality Control (QC) Report with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				P <input type="checkbox"/> Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT																					
Address:		24 Marr Rd.		<input type="checkbox"/> Criteria on Report - provide details below if box checked				E <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT																					
City/Province:		Barwick ON		Select Distribution: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail <input type="checkbox"/> Fax				E2 <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT																					
Postal Code:		P0W 1A0		Email 1 or Fax: rainyriver.labresults@newgold.com				Date and Time Required for all E&P TATs: <u> </u>																					
Phone:		807-482-0900 x8076 or x8046						For tests that can not be performed according to the service level selected, you will be contacted.																					
				Email 2 yag.inviron@newgold.com				Analysis Request																					
Invoice To		Same as Report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Invoice Distribution				Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below																					
		Copy of Invoice with Report? <input type="checkbox"/> Yes <input type="checkbox"/> No		Select Invoice Distribution: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail <input type="checkbox"/> Fax																									
Company:				Email 1 or Fax: rainyriver.labresults@newgold.com				<div style="display: flex; justify-content: space-between;"> NG-SW-P-TB Ra226 Number of Containers </div>																					
Contact:				Email 2:																									
Project Information				Oil and Gas Required Fields (client use)																									
ALS Quote #:				Approver ID:		Cost Center:																							
Job #:		Surface Water		GL Account::		Routing Code:																							
PO / AFE:		4500018623		Activity Code:																									
LSD:				Location:																									
ALS Lab Work Order # (lab use only) L2447535				ALS Contact: Kyle Watkins		Sampler:																							
Sample Ref (upload EDD)		Sample Identification and/or Coordinates <small>(Description will appear on the report)</small>		Temp	Field pH	Field DO (mg/L)	Date (dd-MMM-yy)													Time (hh:mm)	Sample Type								
127979	Field Blank - Surface Water					12-May-20	12:00													Water	X								
127981	Travel Blank - Surface Water					12-May-20	12:00	Water	X																				
127982	SW16		8.91	7.84	8.47	12-May-20	09:40	Water	X																				
127983	SW17		11.67	8.05	6.98	12-May-20	11:10	Water	X																				



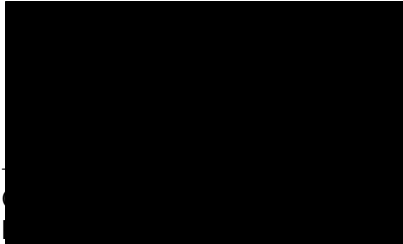
New Gold Inc. Rainy River Project
ATTN: Amanda Jacobs
24 Marr Rd
Barwick ON POW 1A0

Date Received: 19-JUN-20
Report Date: 15-JUL-20 13:13 (MT)
Version: FINAL

Client Phone: 807-482-0931

Certificate of Analysis

Lab Work Order #: L2463184
Project P.O. #: 4500038941
Job Reference: SURFACE WATER
C of C Numbers:
Legal Site Desc:



[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3, Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598



ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-1 FIELD BLANK - SURFACE WATER Sampled By: NB,AJ,GC,SJ on 16-JUN-20 @ 12:00 Matrix: Water							
Physical Tests							
Color, True	<2.0		2.0	CU		19-JUN-20	R5126169
Conductivity (EC)	<0.2	<W	1.0	uS/cm		20-JUN-20	R5126683
Hardness (as CaCO3)	<0.50		0.50			19-JUN-20	
pH	5.49		0.10	pH		20-JUN-20	R5126683
Total Suspended Solids	<0.5	<W	3.0	mg/L		20-JUN-20	R5127481
Total Dissolved Solids	4	<DL	10	mg/L		20-JUN-20	R5127600
Turbidity	<0.10		0.10	NTU		19-JUN-20	R5126303
Anions and Nutrients							
Acidity (as CaCO3)	0.6	<DL	2.0	mg/L		23-JUN-20	R5129936
Alkalinity, Total (as CaCO3)	<0.2	<W	2.0	mg/L		20-JUN-20	R5126683
Ammonia, Total (as N)	0.008	<DL	0.020	mg/L		24-JUN-20	R5131677
Chloride (Cl)	<0.10		0.10	mg/L		24-JUN-20	R5132207
Fluoride (F)	<0.020		0.020	mg/L		24-JUN-20	R5132207
Nitrate (as N)	0.010	<DL	0.020	mg/L		24-JUN-20	R5132207
Nitrite (as N)	<0.001	<W	0.010	mg/L		24-JUN-20	R5132207
Total Kjeldahl Nitrogen	<0.05	<W	0.18	mg/L	23-JUN-20	24-JUN-20	R5131463
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		22-JUN-20	R5127131
Phosphorus (P)-Total	<0.0001	<W	0.0030	mg/L		25-JUN-20	R5131975
Sulfate (SO4)	<0.05	<W	0.30	mg/L		24-JUN-20	R5132207
Cyanides							
Cyanide, Weak Acid Diss	0.0002	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Total	0.0004	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Free	0.0003	<DL	0.0020	mg/L		23-JUN-20	R5128800
Organic / Inorganic Carbon							
Dissolved Organic Carbon	<0.50		0.50	mg/L	16-JUN-20	29-JUN-20	R5135706
Total Organic Carbon	<0.50		0.50	mg/L		25-JUN-20	R5131803
Total Metals							
Aluminum (Al)-Total	0.0004	<DL	0.0050	mg/L		23-JUN-20	R5130082
Antimony (Sb)-Total	<0.000005	<W	0.00010	mg/L		23-JUN-20	R5130082
Arsenic (As)-Total	0.000010	<DL	0.00010	mg/L		23-JUN-20	R5130082
Barium (Ba)-Total	0.00004	<DL	0.00010	mg/L		23-JUN-20	R5130082
Beryllium (Be)-Total	<0.000002	<W	0.00010	mg/L		23-JUN-20	R5130082
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		23-JUN-20	R5130082
Boron (B)-Total	<0.002	<W	0.010	mg/L		23-JUN-20	R5130082
Cadmium (Cd)-Total	0.0000008	<DL	0.0000050	mg/L		23-JUN-20	R5130082
Calcium (Ca)-Total	0.040	<DL	0.050	mg/L		23-JUN-20	R5130082
Cesium (Cs)-Total	<0.0000002	<W	0.000010	mg/L		23-JUN-20	R5130082
Chromium (Cr)-Total	0.00004	<DL	0.00050	mg/L		23-JUN-20	R5130082
Cobalt (Co)-Total	<0.000002	<W	0.00010	mg/L		23-JUN-20	R5130082
Copper (Cu)-Total	0.00005	<DL	0.00050	mg/L		23-JUN-20	R5130082
Iron (Fe)-Total	<0.001	<W	0.010	mg/L		23-JUN-20	R5130082
Lead (Pb)-Total	<0.00002	<W	0.000050	mg/L		23-JUN-20	R5130082

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-1 FIELD BLANK - SURFACE WATER Sampled By: NB,AJ,GC,SJ on 16-JUN-20 @ 12:00 Matrix: Water							
Total Metals							
Lithium (Li)-Total	<0.0002	<W	0.0010	mg/L		23-JUN-20	R5130082
Magnesium (Mg)-Total	0.0010	<DL	0.0050	mg/L		23-JUN-20	R5130082
Manganese (Mn)-Total	0.00004	<DL	0.00050	mg/L		23-JUN-20	R5130082
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		22-JUN-20	R5127164
Molybdenum (Mo)-Total	<0.000005	<W	0.000050	mg/L		23-JUN-20	R5130082
Nickel (Ni)-Total	<0.00002	<W	0.00050	mg/L		23-JUN-20	R5130082
Phosphorus (P)-Total	0.002	<DL	0.050	mg/L		23-JUN-20	R5130082
Potassium (K)-Total	0.004	<DL	0.050	mg/L		23-JUN-20	R5130082
Rubidium (Rb)-Total	<0.000002	<W	0.00020	mg/L		23-JUN-20	R5130082
Selenium (Se)-Total	<0.000002	<W	0.000050	mg/L		23-JUN-20	R5130082
Silicon (Si)-Total	0.040	<DL	0.10	mg/L		23-JUN-20	R5130082
Silver (Ag)-Total	<0.0000005	<W	0.000050	mg/L		23-JUN-20	R5130082
Sodium (Na)-Total	0.040	<DL	0.050	mg/L		23-JUN-20	R5130082
Strontium (Sr)-Total	0.00005	<DL	0.0010	mg/L		23-JUN-20	R5130082
Sulfur (S)-Total	<0.05	<W	0.50	mg/L		23-JUN-20	R5130082
Tellurium (Te)-Total	<0.000005	<W	0.00020	mg/L		23-JUN-20	R5130082
Thallium (Tl)-Total	<0.000001	<W	0.000010	mg/L		23-JUN-20	R5130082
Thorium (Th)-Total	<0.000002	<W	0.00010	mg/L		23-JUN-20	R5130082
Tin (Sn)-Total	0.00015		0.00010	mg/L		23-JUN-20	R5130082
Titanium (Ti)-Total	0.00004	<DL	0.00030	mg/L		23-JUN-20	R5130082
Tungsten (W)-Total	<0.000002	<W	0.00010	mg/L		23-JUN-20	R5130082
Uranium (U)-Total	<0.0000005	<W	0.000010	mg/L		23-JUN-20	R5130082
Vanadium (V)-Total	0.00002	<DL	0.00050	mg/L		23-JUN-20	R5130082
Zinc (Zn)-Total	0.0002	<DL	0.0030	mg/L		23-JUN-20	R5130082
Zirconium (Zr)-Total	<0.000004	<W	0.00020	mg/L		23-JUN-20	R5130082
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-JUN-20	R5129318
Aluminum (Al)-Dissolved	0.0006	<DL	0.0050	mg/L		24-JUN-20	R5131971
Antimony (Sb)-Dissolved	<0.000005	<W	0.00010	mg/L		24-JUN-20	R5131971
Arsenic (As)-Dissolved	<0.000005	<W	0.00010	mg/L		24-JUN-20	R5131971
Barium (Ba)-Dissolved	0.00004	<DL	0.00010	mg/L		24-JUN-20	R5131971
Beryllium (Be)-Dissolved	<0.000002	<W	0.00010	mg/L		24-JUN-20	R5131971
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		24-JUN-20	R5131971
Boron (B)-Dissolved	<0.002	<W	0.010	mg/L		24-JUN-20	R5131971
Cadmium (Cd)-Dissolved	0.0000018	<DL	0.0000050	mg/L		24-JUN-20	R5131971
Calcium (Ca)-Dissolved	0.035	<DL	0.050	mg/L		24-JUN-20	R5131971
Cesium (Cs)-Dissolved	<0.0000002	<W	0.000010	mg/L		24-JUN-20	R5131971
Chromium (Cr)-Dissolved	0.00002	<DL	0.00050	mg/L		24-JUN-20	R5131971
Cobalt (Co)-Dissolved	<0.000002	<W	0.00010	mg/L		24-JUN-20	R5131971
Copper (Cu)-Dissolved	0.00015	<DL	0.00020	mg/L		24-JUN-20	R5131971
Iron (Fe)-Dissolved	<0.001	<W	0.010	mg/L		24-JUN-20	R5131971

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-1 FIELD BLANK - SURFACE WATER Sampled By: NB,AJ,GC,SJ on 16-JUN-20 @ 12:00 Matrix: Water							
Dissolved Metals							
Lead (Pb)-Dissolved	<0.00002	<W	0.000050	mg/L		24-JUN-20	R5131971
Lithium (Li)-Dissolved	<0.0002	<W	0.0010	mg/L		24-JUN-20	R5131971
Magnesium (Mg)-Dissolved	0.0015	<DL	0.0050	mg/L		24-JUN-20	R5131971
Manganese (Mn)-Dissolved	0.00004	<DL	0.00050	mg/L		24-JUN-20	R5131971
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		22-JUN-20	R5127166
Molybdenum (Mo)-Dissolved	<0.000005	<W	0.000050	mg/L		24-JUN-20	R5131971
Nickel (Ni)-Dissolved	0.00002	<DL	0.00050	mg/L		24-JUN-20	R5131971
Phosphorus (P)-Dissolved	<0.002	<W	0.050	mg/L		24-JUN-20	R5131971
Potassium (K)-Dissolved	<0.002	<W	0.050	mg/L		24-JUN-20	R5131971
Rubidium (Rb)-Dissolved	<0.000002	<W	0.00020	mg/L		24-JUN-20	R5131971
Selenium (Se)-Dissolved	<0.000002	<W	0.000050	mg/L		24-JUN-20	R5131971
Silicon (Si)-Dissolved	0.042	<DL	0.050	mg/L		24-JUN-20	R5131971
Silver (Ag)-Dissolved	0.0000020	<DL	0.000050	mg/L		24-JUN-20	R5131971
Sodium (Na)-Dissolved	0.035	<DL	0.050	mg/L		24-JUN-20	R5131971
Strontium (Sr)-Dissolved	0.00005	<DL	0.0010	mg/L		24-JUN-20	R5131971
Sulfur (S)-Dissolved	<0.05	<W	0.50	mg/L		24-JUN-20	R5131971
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		24-JUN-20	R5131971
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		24-JUN-20	R5131971
Thorium (Th)-Dissolved	<0.000002	<W	0.00010	mg/L		24-JUN-20	R5131971
Tin (Sn)-Dissolved	0.00012		0.00010	mg/L		24-JUN-20	R5131971
Titanium (Ti)-Dissolved	<0.00002	<W	0.00030	mg/L		24-JUN-20	R5131971
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		24-JUN-20	R5131971
Uranium (U)-Dissolved	<0.0000005	<W	0.000010	mg/L		24-JUN-20	R5131971
Vanadium (V)-Dissolved	<0.00002	<W	0.00050	mg/L		24-JUN-20	R5131971
Zinc (Zn)-Dissolved	0.0006	<DL	0.0010	mg/L		24-JUN-20	R5131971
Zirconium (Zr)-Dissolved	<0.000004	<W	0.00020	mg/L		24-JUN-20	R5131971
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-JUN-20	R5131341
COD	<10		10	mg/L		25-JUN-20	R5132031
Oil and Grease, Total	<0.2	<W	1.0	mg/L	22-JUN-20	22-JUN-20	R5128080
Report Remarks : Hold time exceeded for re-analysis or dilution, but initial testing was conducted within hold time.							
L2463184-2 SW02 Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 09:20 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	4.35		0	mg/L		22-JUN-20	R5126866
pH, Client Supplied	7.29		0.10	pH		25-JUN-20	R5131788
pH, Client Supplied	7.29		0.10	pH		22-JUN-20	R5126866
Temperature, Client	20.4		-50	Deg. C		25-JUN-20	R5131788
Temperature, Client Supplied	20.37		0	Degree C		22-JUN-20	R5126866
Physical Tests							
Color, True	145		2.0	CU		19-JUN-20	R5126169

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-2 SW02 Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 09:20 Matrix: Water							
Physical Tests							
Conductivity (EC)	119		1.0	uS/cm		20-JUN-20	R5126683
Hardness (as CaCO3)	72.7		0.50			19-JUN-20	
pH	7.73		0.10	pH		20-JUN-20	R5126683
Total Suspended Solids	3.0		3.0	mg/L		23-JUN-20	R5131004
Total Dissolved Solids	106		13	mg/L		23-JUN-20	R5131285
Turbidity	0.81		0.10	NTU		19-JUN-20	R5126303
Anions and Nutrients							
Acidity (as CaCO3)	1.2	<DL	2.0	mg/L		23-JUN-20	R5129936
Alkalinity, Total (as CaCO3)	67.4		2.0	mg/L		20-JUN-20	R5126683
Unionized ammonia	<0.00019		0.00019	mg/L		25-JUN-20	
Ammonia, Total (as N)	0.014	<DL	0.020	mg/L		24-JUN-20	R5131677
Chloride (Cl)	<0.10		0.10	mg/L		24-JUN-20	R5132207
Fluoride (F)	0.047		0.020	mg/L		24-JUN-20	R5132207
Nitrate (as N)	0.028	<T	0.020	mg/L		24-JUN-20	R5132207
Nitrite (as N)	<0.001	<W	0.010	mg/L		24-JUN-20	R5132207
Total Kjeldahl Nitrogen	0.95		0.18	mg/L	23-JUN-20	24-JUN-20	R5131463
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		22-JUN-20	R5127131
Phosphorus (P)-Total	0.0081	<T	0.0030	mg/L		25-JUN-20	R5131975
Sulfate (SO4)	<0.05	<W	0.30	mg/L		24-JUN-20	R5132207
Cyanides							
Cyanide, Weak Acid Diss	0.0012	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Total	0.0012	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Free	0.0007	<DL	0.0020	mg/L		23-JUN-20	R5128800
Organic / Inorganic Carbon							
Dissolved Organic Carbon	28.7	DLM	5.0	mg/L	20-JUN-20	29-JUN-20	R5135706
Total Organic Carbon	51.3	DLM	5.0	mg/L		25-JUN-20	R5131803
Total Metals							
Aluminum (Al)-Total	0.0326		0.0050	mg/L		23-JUN-20	R5130082
Antimony (Sb)-Total	0.000025	<DL	0.00010	mg/L		23-JUN-20	R5130082
Arsenic (As)-Total	0.000680	<T	0.00010	mg/L		23-JUN-20	R5130082
Barium (Ba)-Total	0.00892		0.00010	mg/L		23-JUN-20	R5130082
Beryllium (Be)-Total	0.000006	<DL	0.00010	mg/L		23-JUN-20	R5130082
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		23-JUN-20	R5130082
Boron (B)-Total	0.010	<T	0.010	mg/L		23-JUN-20	R5130082
Cadmium (Cd)-Total	0.0000042	<DL	0.000050	mg/L		23-JUN-20	R5130082
Calcium (Ca)-Total	17.1		0.050	mg/L		23-JUN-20	R5130082
Cesium (Cs)-Total	0.0000014	<DL	0.000010	mg/L		23-JUN-20	R5130082
Chromium (Cr)-Total	0.00016	<DL	0.00050	mg/L		23-JUN-20	R5130082
Cobalt (Co)-Total	0.000072	<DL	0.00010	mg/L		23-JUN-20	R5130082
Copper (Cu)-Total	0.00030	<DL	0.00050	mg/L		23-JUN-20	R5130082
Iron (Fe)-Total	0.203		0.010	mg/L		23-JUN-20	R5130082
Lead (Pb)-Total	0.00004	<DL	0.000050	mg/L		23-JUN-20	R5130082

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-2 SW02 Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 09:20 Matrix: Water							
Total Metals							
Lithium (Li)-Total	0.0016	<T	0.0010	mg/L		23-JUN-20	R5130082
Magnesium (Mg)-Total	7.37		0.0050	mg/L		23-JUN-20	R5130082
Manganese (Mn)-Total	0.0126		0.00050	mg/L		23-JUN-20	R5130082
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		22-JUN-20	R5127164
Molybdenum (Mo)-Total	0.000070	<T	0.000050	mg/L		23-JUN-20	R5130082
Nickel (Ni)-Total	0.00046	<DL	0.00050	mg/L		23-JUN-20	R5130082
Phosphorus (P)-Total	0.016	<DL	0.050	mg/L		23-JUN-20	R5130082
Potassium (K)-Total	0.102		0.050	mg/L		23-JUN-20	R5130082
Rubidium (Rb)-Total	0.000338		0.00020	mg/L		23-JUN-20	R5130082
Selenium (Se)-Total	0.000136	<T	0.000050	mg/L		23-JUN-20	R5130082
Silicon (Si)-Total	2.24		0.10	mg/L		23-JUN-20	R5130082
Silver (Ag)-Total	0.0000005	<DL	0.000050	mg/L		23-JUN-20	R5130082
Sodium (Na)-Total	0.910		0.050	mg/L		23-JUN-20	R5130082
Strontium (Sr)-Total	0.0295		0.0010	mg/L		23-JUN-20	R5130082
Sulfur (S)-Total	0.20	<DL	0.50	mg/L		23-JUN-20	R5130082
Tellurium (Te)-Total	0.000015	<DL	0.00020	mg/L		23-JUN-20	R5130082
Thallium (Tl)-Total	0.000002	<DL	0.000010	mg/L		23-JUN-20	R5130082
Thorium (Th)-Total	0.000010	<DL	0.00010	mg/L		23-JUN-20	R5130082
Tin (Sn)-Total	0.00013		0.00010	mg/L		23-JUN-20	R5130082
Titanium (Ti)-Total	0.00062		0.00030	mg/L		23-JUN-20	R5130082
Tungsten (W)-Total	<0.000002	<W	0.00010	mg/L		23-JUN-20	R5130082
Uranium (U)-Total	0.0000245	<T	0.000010	mg/L		23-JUN-20	R5130082
Vanadium (V)-Total	0.00020	<DL	0.00050	mg/L		23-JUN-20	R5130082
Zinc (Zn)-Total	0.0014	<DL	0.0030	mg/L		23-JUN-20	R5130082
Zirconium (Zr)-Total	0.000084	<DL	0.00020	mg/L		23-JUN-20	R5130082
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-JUN-20	R5129318
Aluminum (Al)-Dissolved	0.0222	<T	0.0050	mg/L		24-JUN-20	R5131971
Antimony (Sb)-Dissolved	0.000025	<DL	0.00010	mg/L		24-JUN-20	R5131971
Arsenic (As)-Dissolved	0.000690	<T	0.00010	mg/L		24-JUN-20	R5131971
Barium (Ba)-Dissolved	0.00950		0.00010	mg/L		24-JUN-20	R5131971
Beryllium (Be)-Dissolved	0.000008	<DL	0.00010	mg/L		24-JUN-20	R5131971
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		24-JUN-20	R5131971
Boron (B)-Dissolved	0.008	<DL	0.010	mg/L		24-JUN-20	R5131971
Cadmium (Cd)-Dissolved	0.0000072	<T	0.0000050	mg/L		24-JUN-20	R5131971
Calcium (Ca)-Dissolved	17.6		0.050	mg/L		24-JUN-20	R5131971
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		24-JUN-20	R5131971
Chromium (Cr)-Dissolved	0.00014	<DL	0.00050	mg/L		24-JUN-20	R5131971
Cobalt (Co)-Dissolved	0.000066	<DL	0.00010	mg/L		24-JUN-20	R5131971
Copper (Cu)-Dissolved	0.00025	<T	0.00020	mg/L		24-JUN-20	R5131971
Iron (Fe)-Dissolved	0.164		0.010	mg/L		24-JUN-20	R5131971

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-2 SW02 Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 09:20 Matrix: Water							
Dissolved Metals							
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		24-JUN-20	R5131971
Lithium (Li)-Dissolved	0.0018	<T	0.0010	mg/L		24-JUN-20	R5131971
Magnesium (Mg)-Dissolved	6.98		0.0050	mg/L		24-JUN-20	R5131971
Manganese (Mn)-Dissolved	0.0100		0.00050	mg/L		24-JUN-20	R5131971
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		22-JUN-20	R5127166
Molybdenum (Mo)-Dissolved	0.000075	<T	0.000050	mg/L		24-JUN-20	R5131971
Nickel (Ni)-Dissolved	0.00044	<DL	0.00050	mg/L		24-JUN-20	R5131971
Phosphorus (P)-Dissolved	0.004	<DL	0.050	mg/L		24-JUN-20	R5131971
Potassium (K)-Dissolved	0.096		0.050	mg/L		24-JUN-20	R5131971
Rubidium (Rb)-Dissolved	0.000338		0.00020	mg/L		24-JUN-20	R5131971
Selenium (Se)-Dissolved	0.000144	<T	0.000050	mg/L		24-JUN-20	R5131971
Silicon (Si)-Dissolved	2.17		0.050	mg/L		24-JUN-20	R5131971
Silver (Ag)-Dissolved	<0.0000005	<W	0.000050	mg/L		24-JUN-20	R5131971
Sodium (Na)-Dissolved	0.865		0.050	mg/L		24-JUN-20	R5131971
Strontium (Sr)-Dissolved	0.0295		0.0010	mg/L		24-JUN-20	R5131971
Sulfur (S)-Dissolved	0.20	<DL	0.50	mg/L		24-JUN-20	R5131971
Tellurium (Te)-Dissolved	0.000005	<DL	0.00020	mg/L		24-JUN-20	R5131971
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		24-JUN-20	R5131971
Thorium (Th)-Dissolved	0.000012	<DL	0.00010	mg/L		24-JUN-20	R5131971
Tin (Sn)-Dissolved	0.00006	<DL	0.00010	mg/L		24-JUN-20	R5131971
Titanium (Ti)-Dissolved	0.00032		0.00030	mg/L		24-JUN-20	R5131971
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		24-JUN-20	R5131971
Uranium (U)-Dissolved	0.0000180	<T	0.000010	mg/L		24-JUN-20	R5131971
Vanadium (V)-Dissolved	0.00018	<DL	0.00050	mg/L		24-JUN-20	R5131971
Zinc (Zn)-Dissolved	0.0020	<T	0.0010	mg/L		24-JUN-20	R5131971
Zirconium (Zr)-Dissolved	0.000100	<DL	0.00020	mg/L		24-JUN-20	R5131971
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-JUN-20	R5131341
COD	77		10	mg/L		25-JUN-20	R5132031
Oil and Grease, Total	<0.2	<W	1.0	mg/L	22-JUN-20	22-JUN-20	R5128080
L2463184-3 SW03 Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 10:55 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	5.22		0	mg/L		22-JUN-20	R5126866
pH, Client Supplied	7.61		0.10	pH		25-JUN-20	R5131788
pH, Client Supplied	7.61		0.10	pH		22-JUN-20	R5126866
Temperature, Client	22.9		-50	Deg. C		25-JUN-20	R5131788
Temperature, Client Supplied	22.88		0	Degree C		22-JUN-20	R5126866
Physical Tests							
Color, True	175		2.0	CU		19-JUN-20	R5126169
Conductivity (EC)	271		1.0	uS/cm		20-JUN-20	R5126683

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-3 SW03 Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 10:55 Matrix: Water							
Physical Tests							
Hardness (as CaCO3)	146		0.50			19-JUN-20	
pH	8.02		0.10	pH		20-JUN-20	R5126683
Total Suspended Solids	17.0		3.0	mg/L		23-JUN-20	R5131004
Total Dissolved Solids	206		20	mg/L		23-JUN-20	R5131285
Turbidity	13.7		0.10	NTU		19-JUN-20	R5126303
Anions and Nutrients							
Acidity (as CaCO3)	0.8	<DL	2.0	mg/L		23-JUN-20	R5129936
Alkalinity, Total (as CaCO3)	131		2.0	mg/L		20-JUN-20	R5126683
Unionized ammonia	0.00058		0.00047	mg/L		25-JUN-20	
Ammonia, Total (as N)	0.024	<T	0.020	mg/L		24-JUN-20	R5131677
Chloride (Cl)	9.19		0.10	mg/L		24-JUN-20	R5132207
Fluoride (F)	0.071		0.020	mg/L		24-JUN-20	R5132207
Nitrate (as N)	0.022	<T	0.020	mg/L		24-JUN-20	R5132207
Nitrite (as N)	<0.001	<W	0.010	mg/L		24-JUN-20	R5132207
Total Kjeldahl Nitrogen	1.35		0.18	mg/L	23-JUN-20	24-JUN-20	R5131463
Orthophosphate-Dissolved (as P)	0.0209		0.0030	mg/L		22-JUN-20	R5127134
Phosphorus (P)-Total	0.0672	<T	0.0030	mg/L		25-JUN-20	R5131975
Sulfate (SO4)	6.30		0.30	mg/L		24-JUN-20	R5132207
Cyanides							
Cyanide, Weak Acid Diss	0.0013	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Total	0.0012	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Free	0.0011	<DL	0.0020	mg/L		23-JUN-20	R5128800
Organic / Inorganic Carbon							
Dissolved Organic Carbon	33.6	DLM	5.0	mg/L	20-JUN-20	29-JUN-20	R5135706
Total Organic Carbon	58.5	DLM	5.0	mg/L		25-JUN-20	R5131803
Total Metals							
Aluminum (Al)-Total	0.424		0.0050	mg/L		23-JUN-20	R5130082
Antimony (Sb)-Total	0.000070	<DL	0.00010	mg/L		23-JUN-20	R5130082
Arsenic (As)-Total	0.00173	<T	0.00010	mg/L		23-JUN-20	R5130082
Barium (Ba)-Total	0.0228		0.00010	mg/L		23-JUN-20	R5130082
Beryllium (Be)-Total	0.000038	<DL	0.00010	mg/L		23-JUN-20	R5130082
Bismuth (Bi)-Total	0.000010	<DL	0.000050	mg/L		23-JUN-20	R5130082
Boron (B)-Total	0.020	<T	0.010	mg/L		23-JUN-20	R5130082
Cadmium (Cd)-Total	0.0000190	<T	0.0000050	mg/L		23-JUN-20	R5130082
Calcium (Ca)-Total	35.7		0.050	mg/L		23-JUN-20	R5130082
Cesium (Cs)-Total	0.0000610		0.000010	mg/L		23-JUN-20	R5130082
Chromium (Cr)-Total	0.00098	<T	0.00050	mg/L		23-JUN-20	R5130082
Cobalt (Co)-Total	0.000492	<T	0.00010	mg/L		23-JUN-20	R5130082
Copper (Cu)-Total	0.00260	<T	0.00050	mg/L		23-JUN-20	R5130082
Iron (Fe)-Total	0.814		0.010	mg/L		23-JUN-20	R5130082
Lead (Pb)-Total	0.00032	<T	0.000050	mg/L		23-JUN-20	R5130082
Lithium (Li)-Total	0.0056	<T	0.0010	mg/L		23-JUN-20	R5130082

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-3 SW03							
Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 10:55							
Matrix: Water							
Total Metals							
Magnesium (Mg)-Total	13.4		0.0050	mg/L		23-JUN-20	R5130082
Manganese (Mn)-Total	0.0876		0.00050	mg/L		23-JUN-20	R5130082
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		22-JUN-20	R5127164
Molybdenum (Mo)-Total	0.000450	<T	0.000050	mg/L		23-JUN-20	R5130082
Nickel (Ni)-Total	0.00248	<T	0.00050	mg/L		23-JUN-20	R5130082
Phosphorus (P)-Total	0.070		0.050	mg/L		23-JUN-20	R5130082
Potassium (K)-Total	1.18		0.050	mg/L		23-JUN-20	R5130082
Rubidium (Rb)-Total	0.00266		0.00020	mg/L		23-JUN-20	R5130082
Selenium (Se)-Total	0.000230	<T	0.000050	mg/L		23-JUN-20	R5130082
Silicon (Si)-Total	4.18		0.10	mg/L		23-JUN-20	R5130082
Silver (Ag)-Total	0.0000025	<DL	0.000050	mg/L		23-JUN-20	R5130082
Sodium (Na)-Total	5.70		0.050	mg/L		23-JUN-20	R5130082
Strontium (Sr)-Total	0.0787		0.0010	mg/L		23-JUN-20	R5130082
Sulfur (S)-Total	2.65		0.50	mg/L		23-JUN-20	R5130082
Tellurium (Te)-Total	0.000020	<DL	0.00020	mg/L		23-JUN-20	R5130082
Thallium (Tl)-Total	0.000009	<DL	0.000010	mg/L		23-JUN-20	R5130082
Thorium (Th)-Total	0.000076	<DL	0.00010	mg/L		23-JUN-20	R5130082
Tin (Sn)-Total	0.00007	<DL	0.00010	mg/L		23-JUN-20	R5130082
Titanium (Ti)-Total	0.0140		0.00030	mg/L		23-JUN-20	R5130082
Tungsten (W)-Total	0.000008	<DL	0.00010	mg/L		23-JUN-20	R5130082
Uranium (U)-Total	0.000517	<T	0.000010	mg/L		23-JUN-20	R5130082
Vanadium (V)-Total	0.00222	<T	0.00050	mg/L		23-JUN-20	R5130082
Zinc (Zn)-Total	0.0032	<T	0.0030	mg/L		23-JUN-20	R5130082
Zirconium (Zr)-Total	0.000564		0.00020	mg/L		23-JUN-20	R5130082
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-JUN-20	R5129318
Aluminum (Al)-Dissolved	0.0218	<T	0.0050	mg/L		24-JUN-20	R5131971
Antimony (Sb)-Dissolved	0.000070	<DL	0.00010	mg/L		24-JUN-20	R5131971
Arsenic (As)-Dissolved	0.00172	<T	0.00010	mg/L		24-JUN-20	R5131971
Barium (Ba)-Dissolved	0.0211		0.00010	mg/L		24-JUN-20	R5131971
Beryllium (Be)-Dissolved	0.000022	<DL	0.00010	mg/L		24-JUN-20	R5131971
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		24-JUN-20	R5131971
Boron (B)-Dissolved	0.018		0.010	mg/L		24-JUN-20	R5131971
Cadmium (Cd)-Dissolved	0.0000106	<T	0.0000050	mg/L		24-JUN-20	R5131971
Calcium (Ca)-Dissolved	37.2		0.050	mg/L		24-JUN-20	R5131971
Cesium (Cs)-Dissolved	0.0000012	<DL	0.000010	mg/L		24-JUN-20	R5131971
Chromium (Cr)-Dissolved	0.00020	<DL	0.00050	mg/L		24-JUN-20	R5131971
Cobalt (Co)-Dissolved	0.000244	<T	0.00010	mg/L		24-JUN-20	R5131971
Copper (Cu)-Dissolved	0.00200	<T	0.00020	mg/L		24-JUN-20	R5131971
Iron (Fe)-Dissolved	0.263		0.010	mg/L		24-JUN-20	R5131971
Lead (Pb)-Dissolved	0.00008	<T	0.000050	mg/L		24-JUN-20	R5131971

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-3 SW03 Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 10:55 Matrix: Water							
Dissolved Metals							
Lithium (Li)-Dissolved	0.0054	<T	0.0010	mg/L		24-JUN-20	R5131971
Magnesium (Mg)-Dissolved	13.0		0.0050	mg/L		24-JUN-20	R5131971
Manganese (Mn)-Dissolved	0.0704		0.00050	mg/L		24-JUN-20	R5131971
Mercury (Hg)-Dissolved	0.000005	<DL	0.000030	mg/L		22-JUN-20	R5127166
Molybdenum (Mo)-Dissolved	0.000475	<T	0.000050	mg/L		24-JUN-20	R5131971
Nickel (Ni)-Dissolved	0.00202	<T	0.00050	mg/L		24-JUN-20	R5131971
Phosphorus (P)-Dissolved	0.054		0.050	mg/L		24-JUN-20	R5131971
Potassium (K)-Dissolved	1.10		0.050	mg/L		24-JUN-20	R5131971
Rubidium (Rb)-Dissolved	0.00160		0.00020	mg/L		24-JUN-20	R5131971
Selenium (Se)-Dissolved	0.000270	<T	0.000050	mg/L		24-JUN-20	R5131971
Silicon (Si)-Dissolved	3.22		0.050	mg/L		24-JUN-20	R5131971
Silver (Ag)-Dissolved	0.0000020	<DL	0.000050	mg/L		24-JUN-20	R5131971
Sodium (Na)-Dissolved	5.44		0.050	mg/L		24-JUN-20	R5131971
Strontium (Sr)-Dissolved	0.0839		0.0010	mg/L		24-JUN-20	R5131971
Sulfur (S)-Dissolved	2.80		0.50	mg/L		24-JUN-20	R5131971
Tellurium (Te)-Dissolved	0.000020	<DL	0.00020	mg/L		24-JUN-20	R5131971
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		24-JUN-20	R5131971
Thorium (Th)-Dissolved	0.000036	<DL	0.00010	mg/L		24-JUN-20	R5131971
Tin (Sn)-Dissolved	0.00005	<DL	0.00010	mg/L		24-JUN-20	R5131971
Titanium (Ti)-Dissolved	0.00076		0.00030	mg/L		24-JUN-20	R5131971
Tungsten (W)-Dissolved	0.000008	<DL	0.00010	mg/L		24-JUN-20	R5131971
Uranium (U)-Dissolved	0.000502	<T	0.000010	mg/L		24-JUN-20	R5131971
Vanadium (V)-Dissolved	0.00114	<T	0.00050	mg/L		24-JUN-20	R5131971
Zinc (Zn)-Dissolved	0.0020	<T	0.0010	mg/L		24-JUN-20	R5131971
Zirconium (Zr)-Dissolved	0.000424		0.00020	mg/L		24-JUN-20	R5131971
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-JUN-20	R5131341
COD	95		10	mg/L		25-JUN-20	R5132031
Oil and Grease, Total	<0.2	<W	1.0	mg/L	22-JUN-20	22-JUN-20	R5128080
L2463184-4 SW06 Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 12:00 Matrix: Water							
Physical Tests							
Color, True	262		2.0	CU		19-JUN-20	R5126257
Conductivity (EC)	203		1.0	uS/cm		20-JUN-20	R5126683
Hardness (as CaCO3)	117		0.50			19-JUN-20	
pH	7.81		0.10	pH		20-JUN-20	R5126683
Total Suspended Solids	15.0		3.0	mg/L		23-JUN-20	R5131004
Total Dissolved Solids	172		20	mg/L		23-JUN-20	R5131285
Turbidity	15.4		0.10	NTU		19-JUN-20	R5126303
Anions and Nutrients							
Acidity (as CaCO3)	1.4	<DL	2.0	mg/L		23-JUN-20	R5129936

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-4 SW06							
Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 12:00							
Matrix: Water							
Anions and Nutrients							
Alkalinity, Total (as CaCO3)	105		2.0	mg/L		20-JUN-20	R5126683
Ammonia, Total (as N)	0.034	<T	0.020	mg/L		24-JUN-20	R5131677
Chloride (Cl)	4.05		0.10	mg/L		24-JUN-20	R5132207
Fluoride (F)	0.067		0.020	mg/L		24-JUN-20	R5132207
Nitrate (as N)	0.022	<T	0.020	mg/L		24-JUN-20	R5132207
Nitrite (as N)	<0.001	<W	0.010	mg/L		24-JUN-20	R5132207
Total Kjeldahl Nitrogen	1.30		0.18	mg/L	23-JUN-20	24-JUN-20	R5131463
Orthophosphate-Dissolved (as P)	0.0186		0.0030	mg/L		22-JUN-20	R5127134
Phosphorus (P)-Total	0.0656	<T	0.0030	mg/L		25-JUN-20	R5131975
Sulfate (SO4)	3.05	<T	0.30	mg/L		24-JUN-20	R5132207
Cyanides							
Cyanide, Weak Acid Diss	0.0016	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Total	0.0016	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Free	0.0018	<DL	0.0020	mg/L		23-JUN-20	R5128800
Organic / Inorganic Carbon							
Dissolved Organic Carbon	41.6	DLM	5.0	mg/L	20-JUN-20	29-JUN-20	R5135706
Total Organic Carbon	64.7	DLM	5.0	mg/L		25-JUN-20	R5131803
Total Metals							
Aluminum (Al)-Total	0.513		0.0050	mg/L		23-JUN-20	R5130082
Antimony (Sb)-Total	0.000060	<DL	0.00010	mg/L		23-JUN-20	R5130082
Arsenic (As)-Total	0.00181	<T	0.00010	mg/L		23-JUN-20	R5130082
Barium (Ba)-Total	0.0210		0.00010	mg/L		23-JUN-20	R5130082
Beryllium (Be)-Total	0.000040	<DL	0.00010	mg/L		23-JUN-20	R5130082
Bismuth (Bi)-Total	0.000010	<DL	0.000050	mg/L		23-JUN-20	R5130082
Boron (B)-Total	0.016	<T	0.010	mg/L		23-JUN-20	R5130082
Cadmium (Cd)-Total	0.0000208	<T	0.0000050	mg/L		23-JUN-20	R5130082
Calcium (Ca)-Total	27.0		0.050	mg/L		23-JUN-20	R5130082
Cesium (Cs)-Total	0.0000688		0.000010	mg/L		23-JUN-20	R5130082
Chromium (Cr)-Total	0.00108	<T	0.00050	mg/L		23-JUN-20	R5130082
Cobalt (Co)-Total	0.000538	<T	0.00010	mg/L		23-JUN-20	R5130082
Copper (Cu)-Total	0.00225	<T	0.00050	mg/L		23-JUN-20	R5130082
Iron (Fe)-Total	1.07		0.010	mg/L		23-JUN-20	R5130082
Lead (Pb)-Total	0.00044	<T	0.000050	mg/L		23-JUN-20	R5130082
Lithium (Li)-Total	0.0046	<T	0.0010	mg/L		23-JUN-20	R5130082
Magnesium (Mg)-Total	11.2		0.0050	mg/L		23-JUN-20	R5130082
Manganese (Mn)-Total	0.0960		0.00050	mg/L		23-JUN-20	R5130082
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		22-JUN-20	R5127164
Molybdenum (Mo)-Total	0.000365	<T	0.000050	mg/L		23-JUN-20	R5130082
Nickel (Ni)-Total	0.00252	<T	0.00050	mg/L		23-JUN-20	R5130082
Phosphorus (P)-Total	0.094		0.050	mg/L		23-JUN-20	R5130082
Potassium (K)-Total	0.816		0.050	mg/L		23-JUN-20	R5130082
Rubidium (Rb)-Total	0.00244		0.00020	mg/L		23-JUN-20	R5130082

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-4 SW06							
Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 12:00							
Matrix: Water							
Total Metals							
Selenium (Se)-Total	0.000236	<T	0.000050	mg/L		23-JUN-20	R5130082
Silicon (Si)-Total	4.03		0.10	mg/L		23-JUN-20	R5130082
Silver (Ag)-Total	0.0000040	<DL	0.000050	mg/L		23-JUN-20	R5130082
Sodium (Na)-Total	3.47		0.050	mg/L		23-JUN-20	R5130082
Strontium (Sr)-Total	0.0601		0.0010	mg/L		23-JUN-20	R5130082
Sulfur (S)-Total	1.60		0.50	mg/L		23-JUN-20	R5130082
Tellurium (Te)-Total	0.000020	<DL	0.00020	mg/L		23-JUN-20	R5130082
Thallium (Tl)-Total	0.000010	<T	0.000010	mg/L		23-JUN-20	R5130082
Thorium (Th)-Total	0.000100		0.00010	mg/L		23-JUN-20	R5130082
Tin (Sn)-Total	0.00008	<DL	0.00010	mg/L		23-JUN-20	R5130082
Titanium (Ti)-Total	0.0158		0.00030	mg/L		23-JUN-20	R5130082
Tungsten (W)-Total	0.000006	<DL	0.00010	mg/L		23-JUN-20	R5130082
Uranium (U)-Total	0.000386	<T	0.000010	mg/L		23-JUN-20	R5130082
Vanadium (V)-Total	0.00234	<T	0.00050	mg/L		23-JUN-20	R5130082
Zinc (Zn)-Total	0.0036	<T	0.0030	mg/L		23-JUN-20	R5130082
Zirconium (Zr)-Total	0.000668		0.00020	mg/L		23-JUN-20	R5130082
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-JUN-20	R5129318
Aluminum (Al)-Dissolved	0.0608		0.0050	mg/L		24-JUN-20	R5131971
Antimony (Sb)-Dissolved	0.000060	<DL	0.00010	mg/L		24-JUN-20	R5131971
Arsenic (As)-Dissolved	0.00186	<T	0.00010	mg/L		24-JUN-20	R5131971
Barium (Ba)-Dissolved	0.0184		0.00010	mg/L		24-JUN-20	R5131971
Beryllium (Be)-Dissolved	0.000022	<DL	0.00010	mg/L		24-JUN-20	R5131971
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		24-JUN-20	R5131971
Boron (B)-Dissolved	0.016		0.010	mg/L		24-JUN-20	R5131971
Cadmium (Cd)-Dissolved	0.0000180	<T	0.0000050	mg/L		24-JUN-20	R5131971
Calcium (Ca)-Dissolved	28.6		0.050	mg/L		24-JUN-20	R5131971
Cesium (Cs)-Dissolved	0.0000002	<DL	0.000010	mg/L		24-JUN-20	R5131971
Chromium (Cr)-Dissolved	0.00028	<DL	0.00050	mg/L		24-JUN-20	R5131971
Cobalt (Co)-Dissolved	0.000244	<T	0.00010	mg/L		24-JUN-20	R5131971
Copper (Cu)-Dissolved	0.00140	<T	0.00020	mg/L		24-JUN-20	R5131971
Iron (Fe)-Dissolved	0.424		0.010	mg/L		24-JUN-20	R5131971
Lead (Pb)-Dissolved	0.00014	<T	0.000050	mg/L		24-JUN-20	R5131971
Lithium (Li)-Dissolved	0.0044	<T	0.0010	mg/L		24-JUN-20	R5131971
Magnesium (Mg)-Dissolved	11.0		0.0050	mg/L		24-JUN-20	R5131971
Manganese (Mn)-Dissolved	0.0745		0.00050	mg/L		24-JUN-20	R5131971
Mercury (Hg)-Dissolved	0.000010	<DL	0.000030	mg/L		22-JUN-20	R5127166
Molybdenum (Mo)-Dissolved	0.000380	<T	0.000050	mg/L		24-JUN-20	R5131971
Nickel (Ni)-Dissolved	0.00180	<T	0.00050	mg/L		24-JUN-20	R5131971
Phosphorus (P)-Dissolved	0.036	<DL	0.050	mg/L		24-JUN-20	R5131971
Potassium (K)-Dissolved	0.710		0.050	mg/L		24-JUN-20	R5131971

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-4 SW06 Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 12:00 Matrix: Water							
Dissolved Metals							
Rubidium (Rb)-Dissolved	0.00126		0.00020	mg/L		24-JUN-20	R5131971
Selenium (Se)-Dissolved	0.000252	<T	0.000050	mg/L		24-JUN-20	R5131971
Silicon (Si)-Dissolved	3.03		0.050	mg/L		24-JUN-20	R5131971
Silver (Ag)-Dissolved	0.0000020	<DL	0.000050	mg/L		24-JUN-20	R5131971
Sodium (Na)-Dissolved	3.36		0.050	mg/L		24-JUN-20	R5131971
Strontium (Sr)-Dissolved	0.0643		0.0010	mg/L		24-JUN-20	R5131971
Sulfur (S)-Dissolved	1.70		0.50	mg/L		24-JUN-20	R5131971
Tellurium (Te)-Dissolved	0.000010	<DL	0.00020	mg/L		24-JUN-20	R5131971
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		24-JUN-20	R5131971
Thorium (Th)-Dissolved	0.000064	<DL	0.00010	mg/L		24-JUN-20	R5131971
Tin (Sn)-Dissolved	0.00027		0.00010	mg/L		24-JUN-20	R5131971
Titanium (Ti)-Dissolved	0.00188		0.00030	mg/L		24-JUN-20	R5131971
Tungsten (W)-Dissolved	0.000004	<DL	0.00010	mg/L		24-JUN-20	R5131971
Uranium (U)-Dissolved	0.000346	<T	0.000010	mg/L		24-JUN-20	R5131971
Vanadium (V)-Dissolved	0.00124	<T	0.00050	mg/L		24-JUN-20	R5131971
Zinc (Zn)-Dissolved	0.0022	<T	0.0010	mg/L		24-JUN-20	R5131971
Zirconium (Zr)-Dissolved	0.000520		0.00020	mg/L		24-JUN-20	R5131971
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-JUN-20	R5131341
COD	113		10	mg/L		25-JUN-20	R5132031
Oil and Grease, Total	<0.2	<W	1.0	mg/L	22-JUN-20	22-JUN-20	R5128080
L2463184-5 SW10 Sampled By: NB,AJ,GC,SJ on 16-JUN-20 @ 09:15 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	2.65		0	mg/L		22-JUN-20	R5126866
pH, Client Supplied	7.56		0.10	pH		25-JUN-20	R5131788
pH, Client Supplied	7.58		0.10	pH		22-JUN-20	R5126866
Temperature, Client	19.5		-50	Deg. C		25-JUN-20	R5131788
Temperature, Client Supplied	19.62		0	Degree C		22-JUN-20	R5126866
Physical Tests							
Color, True	196		2.0	CU		19-JUN-20	R5126169
Conductivity (EC)	237		1.0	uS/cm		20-JUN-20	R5126683
Hardness (as CaCO3)	128		0.50			19-JUN-20	
pH	7.94		0.10	pH		20-JUN-20	R5126683
Total Suspended Solids	6.5		3.0	mg/L		20-JUN-20	R5127481
Total Dissolved Solids	200		13	mg/L		20-JUN-20	R5127600
Turbidity	8.73		0.10	NTU		19-JUN-20	R5126303
Anions and Nutrients							
Acidity (as CaCO3)	1.0	<DL	2.0	mg/L		23-JUN-20	R5129936
Alkalinity, Total (as CaCO3)	112		2.0	mg/L		20-JUN-20	R5126683
Unionized ammonia	0.00049		0.00035	mg/L		25-JUN-20	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-5 SW10							
Sampled By: NB,AJ,GC,SJ on 16-JUN-20 @ 09:15							
Matrix: Water							
Anions and Nutrients							
Ammonia, Total (as N)	0.028	<T	0.020	mg/L		24-JUN-20	R5131677
Chloride (Cl)	13.6		0.10	mg/L		24-JUN-20	R5132207
Fluoride (F)	0.067		0.020	mg/L		24-JUN-20	R5132207
Nitrate (as N)	0.020	<T	0.020	mg/L		24-JUN-20	R5132207
Nitrite (as N)	<0.001	<W	0.010	mg/L		24-JUN-20	R5132207
Total Kjeldahl Nitrogen	1.35		0.18	mg/L	23-JUN-20	24-JUN-20	R5131463
Orthophosphate-Dissolved (as P)	0.0229		0.0030	mg/L		22-JUN-20	R5127131
Phosphorus (P)-Total	0.0556	<T	0.0030	mg/L		25-JUN-20	R5131975
Sulfate (SO4)	1.40	<T	0.30	mg/L		24-JUN-20	R5132207
Cyanides							
Cyanide, Weak Acid Diss	0.0012	<DL	0.0020	mg/L		22-JUN-20	R5128800
Cyanide, Total	0.0016	<DL	0.0020	mg/L		22-JUN-20	R5128800
Cyanide, Free	0.0006	<DL	0.0020	mg/L		22-JUN-20	R5128800
Organic / Inorganic Carbon							
Dissolved Organic Carbon	36.3	DLM	5.0	mg/L	20-JUN-20	29-JUN-20	R5135706
Total Organic Carbon	60.1	DLM	5.0	mg/L		25-JUN-20	R5131803
Total Metals							
Aluminum (Al)-Total	0.247		0.0050	mg/L		23-JUN-20	R5130082
Antimony (Sb)-Total	0.000055	<DL	0.00010	mg/L		23-JUN-20	R5130082
Arsenic (As)-Total	0.00137	<T	0.00010	mg/L		23-JUN-20	R5130082
Barium (Ba)-Total	0.0183		0.00010	mg/L		23-JUN-20	R5130082
Beryllium (Be)-Total	0.000032	<DL	0.00010	mg/L		23-JUN-20	R5130082
Bismuth (Bi)-Total	0.000005	<DL	0.000050	mg/L		23-JUN-20	R5130082
Boron (B)-Total	0.018	<T	0.010	mg/L		23-JUN-20	R5130082
Cadmium (Cd)-Total	0.0000120	<T	0.0000050	mg/L		23-JUN-20	R5130082
Calcium (Ca)-Total	28.1		0.050	mg/L		23-JUN-20	R5130082
Cesium (Cs)-Total	0.0000366		0.000010	mg/L		23-JUN-20	R5130082
Chromium (Cr)-Total	0.00064	<T	0.00050	mg/L		23-JUN-20	R5130082
Cobalt (Co)-Total	0.000306	<T	0.00010	mg/L		23-JUN-20	R5130082
Copper (Cu)-Total	0.00125	<T	0.00050	mg/L		23-JUN-20	R5130082
Iron (Fe)-Total	0.637		0.010	mg/L		23-JUN-20	R5130082
Lead (Pb)-Total	0.00020	<T	0.000050	mg/L		23-JUN-20	R5130082
Lithium (Li)-Total	0.0048	<T	0.0010	mg/L		23-JUN-20	R5130082
Magnesium (Mg)-Total	12.1		0.0050	mg/L		23-JUN-20	R5130082
Manganese (Mn)-Total	0.0574		0.00050	mg/L		23-JUN-20	R5130082
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		22-JUN-20	R5127164
Molybdenum (Mo)-Total	0.000445	<T	0.000050	mg/L		23-JUN-20	R5130082
Nickel (Ni)-Total	0.00202	<T	0.00050	mg/L		23-JUN-20	R5130082
Phosphorus (P)-Total	0.048	<DL	0.050	mg/L		23-JUN-20	R5130082
Potassium (K)-Total	0.854		0.050	mg/L		23-JUN-20	R5130082
Rubidium (Rb)-Total	0.00169		0.00020	mg/L		23-JUN-20	R5130082
Selenium (Se)-Total	0.000238	<T	0.000050	mg/L		23-JUN-20	R5130082

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-5 SW10							
Sampled By: NB,AJ,GC,SJ on 16-JUN-20 @ 09:15							
Matrix: Water							
Total Metals							
Silicon (Si)-Total	2.68		0.10	mg/L		23-JUN-20	R5130082
Silver (Ag)-Total	0.0000030	<DL	0.000050	mg/L		23-JUN-20	R5130082
Sodium (Na)-Total	7.51		0.050	mg/L		23-JUN-20	R5130082
Strontium (Sr)-Total	0.0752		0.0010	mg/L		23-JUN-20	R5130082
Sulfur (S)-Total	1.05		0.50	mg/L		23-JUN-20	R5130082
Tellurium (Te)-Total	0.000015	<DL	0.00020	mg/L		23-JUN-20	R5130082
Thallium (Tl)-Total	0.000006	<DL	0.000010	mg/L		23-JUN-20	R5130082
Thorium (Th)-Total	0.000066	<DL	0.00010	mg/L		23-JUN-20	R5130082
Tin (Sn)-Total	0.00017		0.00010	mg/L		23-JUN-20	R5130082
Titanium (Ti)-Total	0.00798		0.00030	mg/L		23-JUN-20	R5130082
Tungsten (W)-Total	0.000004	<DL	0.00010	mg/L		23-JUN-20	R5130082
Uranium (U)-Total	0.000399	<T	0.000010	mg/L		23-JUN-20	R5130082
Vanadium (V)-Total	0.00146	<T	0.00050	mg/L		23-JUN-20	R5130082
Zinc (Zn)-Total	0.0026	<DL	0.0030	mg/L		23-JUN-20	R5130082
Zirconium (Zr)-Total	0.000480		0.00020	mg/L		23-JUN-20	R5130082
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-JUN-20	R5129318
Aluminum (Al)-Dissolved	0.0246	<T	0.0050	mg/L		24-JUN-20	R5131971
Antimony (Sb)-Dissolved	0.000050	<DL	0.00010	mg/L		24-JUN-20	R5131971
Arsenic (As)-Dissolved	0.00146	<T	0.00010	mg/L		24-JUN-20	R5131971
Barium (Ba)-Dissolved	0.0178		0.00010	mg/L		24-JUN-20	R5131971
Beryllium (Be)-Dissolved	0.000026	<DL	0.00010	mg/L		24-JUN-20	R5131971
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		24-JUN-20	R5131971
Boron (B)-Dissolved	0.020		0.010	mg/L		24-JUN-20	R5131971
Cadmium (Cd)-Dissolved	0.0000134	<T	0.0000050	mg/L		24-JUN-20	R5131971
Calcium (Ca)-Dissolved	30.6		0.050	mg/L		24-JUN-20	R5131971
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		24-JUN-20	R5131971
Chromium (Cr)-Dissolved	0.00030	<DL	0.00050	mg/L		24-JUN-20	R5131971
Cobalt (Co)-Dissolved	0.000204	<T	0.00010	mg/L		24-JUN-20	R5131971
Copper (Cu)-Dissolved	0.00105	<T	0.00020	mg/L		24-JUN-20	R5131971
Iron (Fe)-Dissolved	0.327		0.010	mg/L		24-JUN-20	R5131971
Lead (Pb)-Dissolved	0.00008	<T	0.000050	mg/L		24-JUN-20	R5131971
Lithium (Li)-Dissolved	0.0052	<T	0.0010	mg/L		24-JUN-20	R5131971
Magnesium (Mg)-Dissolved	12.5		0.0050	mg/L		24-JUN-20	R5131971
Manganese (Mn)-Dissolved	0.0472		0.00050	mg/L		24-JUN-20	R5131971
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		22-JUN-20	R5127166
Molybdenum (Mo)-Dissolved	0.000445	<T	0.000050	mg/L		24-JUN-20	R5131971
Nickel (Ni)-Dissolved	0.00178	<T	0.00050	mg/L		24-JUN-20	R5131971
Phosphorus (P)-Dissolved	0.048	<DL	0.050	mg/L		24-JUN-20	R5131971
Potassium (K)-Dissolved	0.830		0.050	mg/L		24-JUN-20	R5131971
Rubidium (Rb)-Dissolved	0.00116		0.00020	mg/L		24-JUN-20	R5131971

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-5 SW10 Sampled By: NB,AJ,GC,SJ on 16-JUN-20 @ 09:15 Matrix: Water							
Dissolved Metals							
Selenium (Se)-Dissolved	0.000270	<T	0.000050	mg/L		24-JUN-20	R5131971
Silicon (Si)-Dissolved	2.24		0.050	mg/L		24-JUN-20	R5131971
Silver (Ag)-Dissolved	0.0000015	<DL	0.000050	mg/L		24-JUN-20	R5131971
Sodium (Na)-Dissolved	7.62		0.050	mg/L		24-JUN-20	R5131971
Strontium (Sr)-Dissolved	0.0786		0.0010	mg/L		24-JUN-20	R5131971
Sulfur (S)-Dissolved	1.10		0.50	mg/L		24-JUN-20	R5131971
Tellurium (Te)-Dissolved	0.000010	<DL	0.00020	mg/L		24-JUN-20	R5131971
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		24-JUN-20	R5131971
Thorium (Th)-Dissolved	0.000076	<DL	0.00010	mg/L		24-JUN-20	R5131971
Tin (Sn)-Dissolved	0.00016		0.00010	mg/L		24-JUN-20	R5131971
Titanium (Ti)-Dissolved	0.00140		0.00030	mg/L		24-JUN-20	R5131971
Tungsten (W)-Dissolved	0.000002	<DL	0.00010	mg/L		24-JUN-20	R5131971
Uranium (U)-Dissolved	0.000381	<T	0.000010	mg/L		24-JUN-20	R5131971
Vanadium (V)-Dissolved	0.00094	<T	0.00050	mg/L		24-JUN-20	R5131971
Zinc (Zn)-Dissolved	0.0050	<T	0.0010	mg/L		24-JUN-20	R5131971
Zirconium (Zr)-Dissolved	0.000528		0.00020	mg/L		24-JUN-20	R5131971
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-JUN-20	R5131341
COD	99		10	mg/L		25-JUN-20	R5132031
Oil and Grease, Total	<0.2	<W	1.0	mg/L	22-JUN-20	22-JUN-20	R5128080
L2463184-6 SW15 Sampled By: NB,AJ,GC,SJ on 16-JUN-20 @ 09:50 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	6.35		0	mg/L		22-JUN-20	R5126866
pH, Client Supplied	7.89		0.10	pH		25-JUN-20	R5131788
pH, Client Supplied	7.89		0.10	pH		22-JUN-20	R5126866
Temperature, Client	20.1		-50	Deg. C		25-JUN-20	R5131788
Temperature, Client Supplied	20.08		0	Degree C		22-JUN-20	R5126866
Physical Tests							
Color, True	251		2.0	CU		19-JUN-20	R5126169
Conductivity (EC)	184		1.0	uS/cm		20-JUN-20	R5126683
Hardness (as CaCO3)	104		0.50			19-JUN-20	
pH	7.89		0.10	pH		20-JUN-20	R5126683
Total Suspended Solids	13.5		3.0	mg/L		20-JUN-20	R5127481
Total Dissolved Solids	178		13	mg/L		20-JUN-20	R5127600
Turbidity	28.5		0.10	NTU		19-JUN-20	R5126303
Anions and Nutrients							
Acidity (as CaCO3)	1.6	<DL	2.0	mg/L		23-JUN-20	R5129936
Alkalinity, Total (as CaCO3)	90.0		2.0	mg/L		20-JUN-20	R5126683
Unionized ammonia	0.00077		0.00073	mg/L		25-JUN-20	
Ammonia, Total (as N)	0.022	<T	0.020	mg/L		24-JUN-20	R5131677

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-6 SW15							
Sampled By: NB,AJ,GC,SJ on 16-JUN-20 @ 09:50							
Matrix: Water							
Anions and Nutrients							
Chloride (Cl)	3.40		0.10	mg/L		24-JUN-20	R5132207
Fluoride (F)	0.060		0.020	mg/L		24-JUN-20	R5132207
Nitrate (as N)	0.052	<T	0.020	mg/L		24-JUN-20	R5132207
Nitrite (as N)	0.002	<DL	0.010	mg/L		24-JUN-20	R5132207
Total Kjeldahl Nitrogen	1.25		0.18	mg/L	23-JUN-20	24-JUN-20	R5131463
Orthophosphate-Dissolved (as P)	0.0113		0.0030	mg/L		22-JUN-20	R5127131
Phosphorus (P)-Total	0.0554	<T	0.0030	mg/L		25-JUN-20	R5131975
Sulfate (SO4)	4.10	<T	0.30	mg/L		24-JUN-20	R5132207
Cyanides							
Cyanide, Weak Acid Diss	0.0010	<DL	0.0020	mg/L		22-JUN-20	R5128800
Cyanide, Total	0.0010	<DL	0.0020	mg/L		22-JUN-20	R5128800
Cyanide, Free	0.0007	<DL	0.0020	mg/L		22-JUN-20	R5128800
Organic / Inorganic Carbon							
Dissolved Organic Carbon	45.3	DLM	5.0	mg/L	20-JUN-20	29-JUN-20	R5135706
Total Organic Carbon	64.9	DLM	5.0	mg/L		25-JUN-20	R5131803
Total Metals							
Aluminum (Al)-Total	0.531		0.0050	mg/L		23-JUN-20	R5130082
Antimony (Sb)-Total	0.000065	<DL	0.00010	mg/L		23-JUN-20	R5130082
Arsenic (As)-Total	0.00141	<T	0.00010	mg/L		23-JUN-20	R5130082
Barium (Ba)-Total	0.0203		0.00010	mg/L		23-JUN-20	R5130082
Beryllium (Be)-Total	0.000042	<DL	0.00010	mg/L		23-JUN-20	R5130082
Bismuth (Bi)-Total	0.000015	<DL	0.000050	mg/L		23-JUN-20	R5130082
Boron (B)-Total	0.014	<T	0.010	mg/L		23-JUN-20	R5130082
Cadmium (Cd)-Total	0.0000288	<T	0.0000050	mg/L		23-JUN-20	R5130082
Calcium (Ca)-Total	23.7		0.050	mg/L		23-JUN-20	R5130082
Cesium (Cs)-Total	0.0000756		0.000010	mg/L		23-JUN-20	R5130082
Chromium (Cr)-Total	0.00108	<T	0.00050	mg/L		23-JUN-20	R5130082
Cobalt (Co)-Total	0.000524	<T	0.00010	mg/L		23-JUN-20	R5130082
Copper (Cu)-Total	0.00200	<T	0.00050	mg/L		23-JUN-20	R5130082
Iron (Fe)-Total	0.914		0.010	mg/L		23-JUN-20	R5130082
Lead (Pb)-Total	0.00058	<T	0.000050	mg/L		23-JUN-20	R5130082
Lithium (Li)-Total	0.0048	<T	0.0010	mg/L		23-JUN-20	R5130082
Magnesium (Mg)-Total	10.9		0.0050	mg/L		23-JUN-20	R5130082
Manganese (Mn)-Total	0.0609		0.00050	mg/L		23-JUN-20	R5130082
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		22-JUN-20	R5127164
Molybdenum (Mo)-Total	0.000325	<T	0.000050	mg/L		23-JUN-20	R5130082
Nickel (Ni)-Total	0.00242	<T	0.00050	mg/L		23-JUN-20	R5130082
Phosphorus (P)-Total	0.034	<DL	0.050	mg/L		23-JUN-20	R5130082
Potassium (K)-Total	0.908		0.050	mg/L		23-JUN-20	R5130082
Rubidium (Rb)-Total	0.00217		0.00020	mg/L		23-JUN-20	R5130082
Selenium (Se)-Total	0.000180	<T	0.000050	mg/L		23-JUN-20	R5130082
Silicon (Si)-Total	3.79		0.10	mg/L		23-JUN-20	R5130082

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-6 SW15							
Sampled By: NB,AJ,GC,SJ on 16-JUN-20 @ 09:50							
Matrix: Water							
Total Metals							
Silver (Ag)-Total	0.0000045	<DL	0.000050	mg/L		23-JUN-20	R5130082
Sodium (Na)-Total	3.09		0.050	mg/L		23-JUN-20	R5130082
Strontium (Sr)-Total	0.0524		0.0010	mg/L		23-JUN-20	R5130082
Sulfur (S)-Total	1.80		0.50	mg/L		23-JUN-20	R5130082
Tellurium (Te)-Total	0.000015	<DL	0.00020	mg/L		23-JUN-20	R5130082
Thallium (Tl)-Total	0.000011	<T	0.000010	mg/L		23-JUN-20	R5130082
Thorium (Th)-Total	0.000160		0.00010	mg/L		23-JUN-20	R5130082
Tin (Sn)-Total	0.00042		0.00010	mg/L		23-JUN-20	R5130082
Titanium (Ti)-Total	0.0161		0.00030	mg/L		23-JUN-20	R5130082
Tungsten (W)-Total	0.000006	<DL	0.00010	mg/L		23-JUN-20	R5130082
Uranium (U)-Total	0.000577	<T	0.000010	mg/L		23-JUN-20	R5130082
Vanadium (V)-Total	0.00234	<T	0.00050	mg/L		23-JUN-20	R5130082
Zinc (Zn)-Total	0.0044	<T	0.0030	mg/L		23-JUN-20	R5130082
Zirconium (Zr)-Total	0.000880		0.00020	mg/L		23-JUN-20	R5130082
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-JUN-20	R5129318
Aluminum (Al)-Dissolved	0.0610		0.0050	mg/L		24-JUN-20	R5131971
Antimony (Sb)-Dissolved	0.000060	<DL	0.00010	mg/L		24-JUN-20	R5131971
Arsenic (As)-Dissolved	0.00131	<T	0.00010	mg/L		24-JUN-20	R5131971
Barium (Ba)-Dissolved	0.0167		0.00010	mg/L		24-JUN-20	R5131971
Beryllium (Be)-Dissolved	0.000020	<DL	0.00010	mg/L		24-JUN-20	R5131971
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		24-JUN-20	R5131971
Boron (B)-Dissolved	0.014		0.010	mg/L		24-JUN-20	R5131971
Cadmium (Cd)-Dissolved	0.0000174	<T	0.0000050	mg/L		24-JUN-20	R5131971
Calcium (Ca)-Dissolved	24.9		0.050	mg/L		24-JUN-20	R5131971
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		24-JUN-20	R5131971
Chromium (Cr)-Dissolved	0.00024	<DL	0.00050	mg/L		24-JUN-20	R5131971
Cobalt (Co)-Dissolved	0.000202	<T	0.00010	mg/L		24-JUN-20	R5131971
Copper (Cu)-Dissolved	0.00135	<T	0.00020	mg/L		24-JUN-20	R5131971
Iron (Fe)-Dissolved	0.266		0.010	mg/L		24-JUN-20	R5131971
Lead (Pb)-Dissolved	0.00010	<T	0.000050	mg/L		24-JUN-20	R5131971
Lithium (Li)-Dissolved	0.0050	<T	0.0010	mg/L		24-JUN-20	R5131971
Magnesium (Mg)-Dissolved	10.4		0.0050	mg/L		24-JUN-20	R5131971
Manganese (Mn)-Dissolved	0.0416		0.00050	mg/L		24-JUN-20	R5131971
Mercury (Hg)-Dissolved	0.000005	<DL	0.000030	mg/L		22-JUN-20	R5127166
Molybdenum (Mo)-Dissolved	0.000375	<T	0.000050	mg/L		24-JUN-20	R5131971
Nickel (Ni)-Dissolved	0.00152	<T	0.00050	mg/L		24-JUN-20	R5131971
Phosphorus (P)-Dissolved	0.026	<DL	0.050	mg/L		24-JUN-20	R5131971
Potassium (K)-Dissolved	0.786		0.050	mg/L		24-JUN-20	R5131971
Rubidium (Rb)-Dissolved	0.000988		0.00020	mg/L		24-JUN-20	R5131971
Selenium (Se)-Dissolved	0.000218	<T	0.000050	mg/L		24-JUN-20	R5131971

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-6 SW15 Sampled By: NB,AJ,GC,SJ on 16-JUN-20 @ 09:50 Matrix: Water							
Dissolved Metals							
Silicon (Si)-Dissolved	2.86		0.050	mg/L		24-JUN-20	R5131971
Silver (Ag)-Dissolved	0.0000015	<DL	0.000050	mg/L		24-JUN-20	R5131971
Sodium (Na)-Dissolved	3.00		0.050	mg/L		24-JUN-20	R5131971
Strontium (Sr)-Dissolved	0.0545		0.0010	mg/L		24-JUN-20	R5131971
Sulfur (S)-Dissolved	1.95		0.50	mg/L		24-JUN-20	R5131971
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		24-JUN-20	R5131971
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		24-JUN-20	R5131971
Thorium (Th)-Dissolved	0.000070	<DL	0.00010	mg/L		24-JUN-20	R5131971
Tin (Sn)-Dissolved	0.00018		0.00010	mg/L		24-JUN-20	R5131971
Titanium (Ti)-Dissolved	0.00126		0.00030	mg/L		24-JUN-20	R5131971
Tungsten (W)-Dissolved	0.000004	<DL	0.00010	mg/L		24-JUN-20	R5131971
Uranium (U)-Dissolved	0.000507	<T	0.000010	mg/L		24-JUN-20	R5131971
Vanadium (V)-Dissolved	0.00176	<T	0.00050	mg/L		24-JUN-20	R5131971
Zinc (Zn)-Dissolved	0.165	DTC	0.0010	mg/L		24-JUN-20	R5131971
Zirconium (Zr)-Dissolved	0.000452		0.00020	mg/L		24-JUN-20	R5131971
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-JUN-20	R5131341
COD	109		10	mg/L		25-JUN-20	R5132031
Oil and Grease, Total	<0.2	<W	1.0	mg/L	22-JUN-20	22-JUN-20	R5128080
L2463184-7 SW16 Sampled By: NB,AJ,GC,SJ on 16-JUN-20 @ 11:30 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	9.15		0	mg/L		22-JUN-20	R5126866
pH, Client Supplied	7.78		0.10	pH		25-JUN-20	R5131788
pH, Client Supplied	7.78		0.10	pH		22-JUN-20	R5126866
Temperature, Client	18.0		-50	Deg. C		25-JUN-20	R5131788
Temperature, Client Supplied	17.95		0	Degree C		22-JUN-20	R5126866
Physical Tests							
Color, True	68.5		2.0	CU		19-JUN-20	R5126169
Conductivity (EC)	73.0		1.0	uS/cm		20-JUN-20	R5126683
Hardness (as CaCO3)	32.7		0.50			19-JUN-20	
pH	7.51		0.10	pH		20-JUN-20	R5126683
Total Suspended Solids	5.5		3.0	mg/L		20-JUN-20	R5127481
Total Dissolved Solids	72		13	mg/L		20-JUN-20	R5127600
Turbidity	6.66		0.10	NTU		19-JUN-20	R5126303
Anions and Nutrients							
Acidity (as CaCO3)	1.0	<DL	2.0	mg/L		23-JUN-20	R5129936
Alkalinity, Total (as CaCO3)	31.4		2.0	mg/L		20-JUN-20	R5126683
Unionized ammonia	<0.00049		0.00049	mg/L		25-JUN-20	
Ammonia, Total (as N)	0.012	<DL	0.020	mg/L		24-JUN-20	R5131677
Chloride (Cl)	2.30		0.10	mg/L		24-JUN-20	R5132207

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-7 SW16							
Sampled By: NB,AJ,GC,SJ on 16-JUN-20 @ 11:30							
Matrix: Water							
Anions and Nutrients							
Fluoride (F)	0.056		0.020	mg/L		24-JUN-20	R5132207
Nitrate (as N)	0.038	<T	0.020	mg/L		24-JUN-20	R5132207
Nitrite (as N)	<0.001	<W	0.010	mg/L		24-JUN-20	R5132207
Total Kjeldahl Nitrogen	0.50		0.18	mg/L	23-JUN-20	24-JUN-20	R5131463
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		22-JUN-20	R5127131
Phosphorus (P)-Total	0.0206	<T	0.0030	mg/L		25-JUN-20	R5131975
Sulfate (SO4)	3.20	<T	0.30	mg/L		24-JUN-20	R5132207
Cyanides							
Cyanide, Weak Acid Diss	0.0006	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Total	0.0006	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Free	0.0006	<DL	0.0020	mg/L		23-JUN-20	R5128800
Organic / Inorganic Carbon							
Dissolved Organic Carbon	18.1	DLM	5.0	mg/L	20-JUN-20	29-JUN-20	R5135706
Total Organic Carbon	28.4	DLM	5.0	mg/L		25-JUN-20	R5131803
Total Metals							
Aluminum (Al)-Total	0.302		0.0050	mg/L		23-JUN-20	R5130082
Antimony (Sb)-Total	0.000060	<DL	0.00010	mg/L		23-JUN-20	R5130082
Arsenic (As)-Total	0.000530	<T	0.00010	mg/L		23-JUN-20	R5130082
Barium (Ba)-Total	0.0106		0.00010	mg/L		23-JUN-20	R5130082
Beryllium (Be)-Total	0.000020	<DL	0.00010	mg/L		23-JUN-20	R5130082
Bismuth (Bi)-Total	0.000005	<DL	0.000050	mg/L		23-JUN-20	R5130082
Boron (B)-Total	0.006	<DL	0.010	mg/L		23-JUN-20	R5130082
Cadmium (Cd)-Total	0.0000114	<T	0.000050	mg/L		23-JUN-20	R5130082
Calcium (Ca)-Total	8.08		0.050	mg/L		23-JUN-20	R5130082
Cesium (Cs)-Total	0.0000332		0.000010	mg/L		23-JUN-20	R5130082
Chromium (Cr)-Total	0.00064	<T	0.00050	mg/L		23-JUN-20	R5130082
Cobalt (Co)-Total	0.000148	<T	0.00010	mg/L		23-JUN-20	R5130082
Copper (Cu)-Total	0.00130	<T	0.00050	mg/L		23-JUN-20	R5130082
Iron (Fe)-Total	0.375		0.010	mg/L		23-JUN-20	R5130082
Lead (Pb)-Total	0.00018	<T	0.000050	mg/L		23-JUN-20	R5130082
Lithium (Li)-Total	0.0010	<T	0.0010	mg/L		23-JUN-20	R5130082
Magnesium (Mg)-Total	3.04		0.0050	mg/L		23-JUN-20	R5130082
Manganese (Mn)-Total	0.0172		0.00050	mg/L		23-JUN-20	R5130082
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		22-JUN-20	R5127164
Molybdenum (Mo)-Total	0.000170	<T	0.000050	mg/L		23-JUN-20	R5130082
Nickel (Ni)-Total	0.00114	<T	0.00050	mg/L		23-JUN-20	R5130082
Phosphorus (P)-Total	0.014	<DL	0.050	mg/L		23-JUN-20	R5130082
Potassium (K)-Total	0.766		0.050	mg/L		23-JUN-20	R5130082
Rubidium (Rb)-Total	0.00198		0.00020	mg/L		23-JUN-20	R5130082
Selenium (Se)-Total	0.000126	<T	0.000050	mg/L		23-JUN-20	R5130082
Silicon (Si)-Total	2.55		0.10	mg/L		23-JUN-20	R5130082
Silver (Ag)-Total	0.0000035	<DL	0.000050	mg/L		23-JUN-20	R5130082

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-7 SW16							
Sampled By: NB,AJ,GC,SJ on 16-JUN-20 @ 11:30							
Matrix: Water							
Total Metals							
Sodium (Na)-Total	2.67		0.050	mg/L		23-JUN-20	R5130082
Strontium (Sr)-Total	0.0237		0.0010	mg/L		23-JUN-20	R5130082
Sulfur (S)-Total	1.05		0.50	mg/L		23-JUN-20	R5130082
Tellurium (Te)-Total	0.000010	<DL	0.00020	mg/L		23-JUN-20	R5130082
Thallium (Tl)-Total	0.000006	<DL	0.000010	mg/L		23-JUN-20	R5130082
Thorium (Th)-Total	0.000044	<DL	0.00010	mg/L		23-JUN-20	R5130082
Tin (Sn)-Total	0.00009	<DL	0.00010	mg/L		23-JUN-20	R5130082
Titanium (Ti)-Total	0.00586		0.00030	mg/L		23-JUN-20	R5130082
Tungsten (W)-Total	0.000006	<DL	0.00010	mg/L		23-JUN-20	R5130082
Uranium (U)-Total	0.000116	<T	0.000010	mg/L		23-JUN-20	R5130082
Vanadium (V)-Total	0.00082	<T	0.00050	mg/L		23-JUN-20	R5130082
Zinc (Zn)-Total	0.0022	<DL	0.0030	mg/L		23-JUN-20	R5130082
Zirconium (Zr)-Total	0.000228		0.00020	mg/L		23-JUN-20	R5130082
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-JUN-20	R5129318
Aluminum (Al)-Dissolved	0.0278	<T	0.0050	mg/L		24-JUN-20	R5131971
Antimony (Sb)-Dissolved	0.000025	<DL	0.00010	mg/L		24-JUN-20	R5131971
Arsenic (As)-Dissolved	0.000460	<T	0.00010	mg/L		24-JUN-20	R5131971
Barium (Ba)-Dissolved	0.00922		0.00010	mg/L		24-JUN-20	R5131971
Beryllium (Be)-Dissolved	0.000008	<DL	0.00010	mg/L		24-JUN-20	R5131971
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		24-JUN-20	R5131971
Boron (B)-Dissolved	0.006	<DL	0.010	mg/L		24-JUN-20	R5131971
Cadmium (Cd)-Dissolved	0.0000058	<T	0.0000050	mg/L		24-JUN-20	R5131971
Calcium (Ca)-Dissolved	8.54		0.050	mg/L		24-JUN-20	R5131971
Cesium (Cs)-Dissolved	0.0000014	<DL	0.000010	mg/L		24-JUN-20	R5131971
Chromium (Cr)-Dissolved	0.00024	<DL	0.00050	mg/L		24-JUN-20	R5131971
Cobalt (Co)-Dissolved	0.000038	<DL	0.00010	mg/L		24-JUN-20	R5131971
Copper (Cu)-Dissolved	0.00130	<T	0.00020	mg/L		24-JUN-20	R5131971
Iron (Fe)-Dissolved	0.063		0.010	mg/L		24-JUN-20	R5131971
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		24-JUN-20	R5131971
Lithium (Li)-Dissolved	0.0014	<T	0.0010	mg/L		24-JUN-20	R5131971
Magnesium (Mg)-Dissolved	2.87		0.0050	mg/L		24-JUN-20	R5131971
Manganese (Mn)-Dissolved	0.00398		0.00050	mg/L		24-JUN-20	R5131971
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		22-JUN-20	R5127166
Molybdenum (Mo)-Dissolved	0.000160	<T	0.000050	mg/L		24-JUN-20	R5131971
Nickel (Ni)-Dissolved	0.00126	<T	0.00050	mg/L		24-JUN-20	R5131971
Phosphorus (P)-Dissolved	0.006	<DL	0.050	mg/L		24-JUN-20	R5131971
Potassium (K)-Dissolved	0.706		0.050	mg/L		24-JUN-20	R5131971
Rubidium (Rb)-Dissolved	0.00148		0.00020	mg/L		24-JUN-20	R5131971
Selenium (Se)-Dissolved	0.000126	<T	0.000050	mg/L		24-JUN-20	R5131971
Silicon (Si)-Dissolved	2.17		0.050	mg/L		24-JUN-20	R5131971

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-7 SW16 Sampled By: NB,AJ,GC,SJ on 16-JUN-20 @ 11:30 Matrix: Water							
Dissolved Metals							
Silver (Ag)-Dissolved	<0.0000005	<W	0.000050	mg/L		24-JUN-20	R5131971
Sodium (Na)-Dissolved	2.61		0.050	mg/L		24-JUN-20	R5131971
Strontium (Sr)-Dissolved	0.0242		0.0010	mg/L		24-JUN-20	R5131971
Sulfur (S)-Dissolved	1.30		0.50	mg/L		24-JUN-20	R5131971
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		24-JUN-20	R5131971
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		24-JUN-20	R5131971
Thorium (Th)-Dissolved	0.000042	<DL	0.00010	mg/L		24-JUN-20	R5131971
Tin (Sn)-Dissolved	0.00008	<DL	0.00010	mg/L		24-JUN-20	R5131971
Titanium (Ti)-Dissolved	0.00034		0.00030	mg/L		24-JUN-20	R5131971
Tungsten (W)-Dissolved	0.000004	<DL	0.00010	mg/L		24-JUN-20	R5131971
Uranium (U)-Dissolved	0.0000845	<T	0.000010	mg/L		24-JUN-20	R5131971
Vanadium (V)-Dissolved	0.00086	<T	0.00050	mg/L		24-JUN-20	R5131971
Zinc (Zn)-Dissolved	0.205	DTC	0.0010	mg/L		24-JUN-20	R5131971
Zirconium (Zr)-Dissolved	0.000188	<DL	0.00020	mg/L		24-JUN-20	R5131971
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-JUN-20	R5131341
COD	43		10	mg/L		25-JUN-20	R5132031
Oil and Grease, Total	0.4	<DL	1.0	mg/L	22-JUN-20	22-JUN-20	R5128080
Report Remarks : Hold time exceeded for re-analysis or dilution, but initial testing was conducted within hold time.							
L2463184-8 SW20 Sampled By: NB,AJ,GC,SJ on 16-JUN-20 @ 08:50 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	0		0	mg/L		22-JUN-20	R5126866
pH, Client Supplied	7.38		0.10	pH		25-JUN-20	R5131788
pH, Client Supplied	7.38		0.10	pH		22-JUN-20	R5126866
Temperature, Client	19.0		-50	Deg. C		25-JUN-20	R5131788
Temperature, Client Supplied	19.01		0	Degree C		22-JUN-20	R5126866
Physical Tests							
Color, True	178		2.0	CU		19-JUN-20	R5126169
Conductivity (EC)	259		1.0	uS/cm		20-JUN-20	R5126683
Hardness (as CaCO3)	125		0.50			19-JUN-20	
pH	7.89		0.10	pH		20-JUN-20	R5126683
Total Suspended Solids	4.0		3.0	mg/L		20-JUN-20	R5127481
Total Dissolved Solids	202		13	mg/L		20-JUN-20	R5127600
Turbidity	3.40		0.10	NTU		19-JUN-20	R5126303
Anions and Nutrients							
Acidity (as CaCO3)	1.4	<DL	2.0	mg/L		23-JUN-20	R5129936
Alkalinity, Total (as CaCO3)	112		2.0	mg/L		20-JUN-20	R5126683
Unionized ammonia	0.00030		0.00021	mg/L		25-JUN-20	
Ammonia, Total (as N)	0.028	<T	0.020	mg/L		24-JUN-20	R5131677
Chloride (Cl)	19.1		0.10	mg/L		24-JUN-20	R5132207

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-8 SW20							
Sampled By: NB,AJ,GC,SJ on 16-JUN-20 @ 08:50							
Matrix: Water							
Anions and Nutrients							
Fluoride (F)	0.067		0.020	mg/L		24-JUN-20	R5132207
Nitrate (as N)	0.018	<DL	0.020	mg/L		24-JUN-20	R5132207
Nitrite (as N)	<0.001	<W	0.010	mg/L		24-JUN-20	R5132207
Total Kjeldahl Nitrogen	1.35		0.18	mg/L	23-JUN-20	24-JUN-20	R5131463
Orthophosphate-Dissolved (as P)	0.0139		0.0030	mg/L		22-JUN-20	R5127131
Phosphorus (P)-Total	0.0418	<T	0.0030	mg/L		25-JUN-20	R5131975
Sulfate (SO4)	1.45	<T	0.30	mg/L		24-JUN-20	R5132207
Cyanides							
Cyanide, Weak Acid Diss	0.0010	<DL	0.0020	mg/L		22-JUN-20	R5128800
Cyanide, Total	0.0008	<DL	0.0020	mg/L		22-JUN-20	R5128800
Cyanide, Free	0.0008	<DL	0.0020	mg/L		22-JUN-20	R5128800
Organic / Inorganic Carbon							
Dissolved Organic Carbon	37.9	DLM	5.0	mg/L	20-JUN-20	29-JUN-20	R5135706
Total Organic Carbon	55.5	DLM	5.0	mg/L		25-JUN-20	R5131803
Total Metals							
Aluminum (Al)-Total	0.118		0.0050	mg/L		23-JUN-20	R5130082
Antimony (Sb)-Total	0.000060	<DL	0.00010	mg/L		23-JUN-20	R5130082
Arsenic (As)-Total	0.00131	<T	0.00010	mg/L		23-JUN-20	R5130082
Barium (Ba)-Total	0.0184		0.00010	mg/L		23-JUN-20	R5130082
Beryllium (Be)-Total	0.000020	<DL	0.00010	mg/L		23-JUN-20	R5130082
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		23-JUN-20	R5130082
Boron (B)-Total	0.018	<T	0.010	mg/L		23-JUN-20	R5130082
Cadmium (Cd)-Total	0.0000102	<T	0.000050	mg/L		23-JUN-20	R5130082
Calcium (Ca)-Total	29.1		0.050	mg/L		23-JUN-20	R5130082
Cesium (Cs)-Total	0.0000146		0.000010	mg/L		23-JUN-20	R5130082
Chromium (Cr)-Total	0.00044	<DL	0.00050	mg/L		23-JUN-20	R5130082
Cobalt (Co)-Total	0.000270	<T	0.00010	mg/L		23-JUN-20	R5130082
Copper (Cu)-Total	0.00105	<T	0.00050	mg/L		23-JUN-20	R5130082
Iron (Fe)-Total	0.548		0.010	mg/L		23-JUN-20	R5130082
Lead (Pb)-Total	0.00014	<T	0.000050	mg/L		23-JUN-20	R5130082
Lithium (Li)-Total	0.0044	<T	0.0010	mg/L		23-JUN-20	R5130082
Magnesium (Mg)-Total	12.0		0.0050	mg/L		23-JUN-20	R5130082
Manganese (Mn)-Total	0.0892		0.00050	mg/L		23-JUN-20	R5130082
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		22-JUN-20	R5127164
Molybdenum (Mo)-Total	0.000395	<T	0.000050	mg/L		23-JUN-20	R5130082
Nickel (Ni)-Total	0.00176	<T	0.00050	mg/L		23-JUN-20	R5130082
Phosphorus (P)-Total	0.046	<DL	0.050	mg/L		23-JUN-20	R5130082
Potassium (K)-Total	0.766		0.050	mg/L		23-JUN-20	R5130082
Rubidium (Rb)-Total	0.00141		0.00020	mg/L		23-JUN-20	R5130082
Selenium (Se)-Total	0.000212	<T	0.000050	mg/L		23-JUN-20	R5130082
Silicon (Si)-Total	3.11		0.10	mg/L		23-JUN-20	R5130082
Silver (Ag)-Total	0.0000025	<DL	0.000050	mg/L		23-JUN-20	R5130082

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-8 SW20							
Sampled By: NB,AJ,GC,SJ on 16-JUN-20 @ 08:50							
Matrix: Water							
Total Metals							
Sodium (Na)-Total	10.1		0.050	mg/L		23-JUN-20	R5130082
Strontium (Sr)-Total	0.0753		0.0010	mg/L		23-JUN-20	R5130082
Sulfur (S)-Total	1.00		0.50	mg/L		23-JUN-20	R5130082
Tellurium (Te)-Total	0.000020	<DL	0.00020	mg/L		23-JUN-20	R5130082
Thallium (Tl)-Total	0.000004	<DL	0.000010	mg/L		23-JUN-20	R5130082
Thorium (Th)-Total	0.000048	<DL	0.00010	mg/L		23-JUN-20	R5130082
Tin (Sn)-Total	0.00011		0.00010	mg/L		23-JUN-20	R5130082
Titanium (Ti)-Total	0.00364		0.00030	mg/L		23-JUN-20	R5130082
Tungsten (W)-Total	0.000004	<DL	0.00010	mg/L		23-JUN-20	R5130082
Uranium (U)-Total	0.000339	<T	0.000010	mg/L		23-JUN-20	R5130082
Vanadium (V)-Total	0.00102	<T	0.00050	mg/L		23-JUN-20	R5130082
Zinc (Zn)-Total	0.0034	<T	0.0030	mg/L		23-JUN-20	R5130082
Zirconium (Zr)-Total	0.000376		0.00020	mg/L		23-JUN-20	R5130082
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-JUN-20	R5129318
Aluminum (Al)-Dissolved	0.0210	<T	0.0050	mg/L		24-JUN-20	R5131971
Antimony (Sb)-Dissolved	0.000050	<DL	0.00010	mg/L		24-JUN-20	R5131971
Arsenic (As)-Dissolved	0.00134	<T	0.00010	mg/L		24-JUN-20	R5131971
Barium (Ba)-Dissolved	0.0181		0.00010	mg/L		24-JUN-20	R5131971
Beryllium (Be)-Dissolved	0.000026	<DL	0.00010	mg/L		24-JUN-20	R5131971
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		24-JUN-20	R5131971
Boron (B)-Dissolved	0.018		0.010	mg/L		24-JUN-20	R5131971
Cadmium (Cd)-Dissolved	0.0000066	<T	0.0000050	mg/L		24-JUN-20	R5131971
Calcium (Ca)-Dissolved	30.3		0.050	mg/L		24-JUN-20	R5131971
Cesium (Cs)-Dissolved	0.0000004	<DL	0.000010	mg/L		24-JUN-20	R5131971
Chromium (Cr)-Dissolved	0.00024	<DL	0.00050	mg/L		24-JUN-20	R5131971
Cobalt (Co)-Dissolved	0.000188	<T	0.00010	mg/L		24-JUN-20	R5131971
Copper (Cu)-Dissolved	0.00080	<T	0.00020	mg/L		24-JUN-20	R5131971
Iron (Fe)-Dissolved	0.341		0.010	mg/L		24-JUN-20	R5131971
Lead (Pb)-Dissolved	0.00006	<T	0.000050	mg/L		24-JUN-20	R5131971
Lithium (Li)-Dissolved	0.0050	<T	0.0010	mg/L		24-JUN-20	R5131971
Magnesium (Mg)-Dissolved	12.0		0.0050	mg/L		24-JUN-20	R5131971
Manganese (Mn)-Dissolved	0.0739		0.00050	mg/L		24-JUN-20	R5131971
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		22-JUN-20	R5127166
Molybdenum (Mo)-Dissolved	0.000400	<T	0.000050	mg/L		24-JUN-20	R5131971
Nickel (Ni)-Dissolved	0.00162	<T	0.00050	mg/L		24-JUN-20	R5131971
Phosphorus (P)-Dissolved	0.030	<DL	0.050	mg/L		24-JUN-20	R5131971
Potassium (K)-Dissolved	0.756		0.050	mg/L		24-JUN-20	R5131971
Rubidium (Rb)-Dissolved	0.00120		0.00020	mg/L		24-JUN-20	R5131971
Selenium (Se)-Dissolved	0.000256	<T	0.000050	mg/L		24-JUN-20	R5131971
Silicon (Si)-Dissolved	2.97		0.050	mg/L		24-JUN-20	R5131971

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-8 SW20 Sampled By: NB,AJ,GC,SJ on 16-JUN-20 @ 08:50 Matrix: Water							
Dissolved Metals							
Silver (Ag)-Dissolved	0.0000010	<DL	0.000050	mg/L		24-JUN-20	R5131971
Sodium (Na)-Dissolved	10.1		0.050	mg/L		24-JUN-20	R5131971
Strontium (Sr)-Dissolved	0.0789		0.0010	mg/L		24-JUN-20	R5131971
Sulfur (S)-Dissolved	1.10		0.50	mg/L		24-JUN-20	R5131971
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		24-JUN-20	R5131971
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		24-JUN-20	R5131971
Thorium (Th)-Dissolved	0.000054	<DL	0.00010	mg/L		24-JUN-20	R5131971
Tin (Sn)-Dissolved	0.00008	<DL	0.00010	mg/L		24-JUN-20	R5131971
Titanium (Ti)-Dissolved	0.00106		0.00030	mg/L		24-JUN-20	R5131971
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		24-JUN-20	R5131971
Uranium (U)-Dissolved	0.000313	<T	0.000010	mg/L		24-JUN-20	R5131971
Vanadium (V)-Dissolved	0.00076	<T	0.00050	mg/L		24-JUN-20	R5131971
Zinc (Zn)-Dissolved	0.0048	<T	0.0010	mg/L		24-JUN-20	R5131971
Zirconium (Zr)-Dissolved	0.000468		0.00020	mg/L		24-JUN-20	R5131971
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-JUN-20	R5131341
COD	98		10	mg/L		25-JUN-20	R5132031
Oil and Grease, Total	0.4	<DL	1.0	mg/L	22-JUN-20	23-JUN-20	R5128438
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		03-JUL-20	R5142974
L2463184-9 SW17 Sampled By: NB,AJ,GC,SJ on 16-JUN-20 @ 10:30 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	7.88		0	mg/L		22-JUN-20	R5126866
pH, Client Supplied	7.73		0.10	pH		25-JUN-20	R5131788
pH, Client Supplied	7.73		0.10	pH		22-JUN-20	R5126866
Temperature, Client	19.0		-50	Deg. C		25-JUN-20	R5131788
Temperature, Client Supplied	19.02		0	Degree C		22-JUN-20	R5126866
Physical Tests							
Color, True	103		2.0	CU		19-JUN-20	R5126169
Conductivity (EC)	102		1.0	uS/cm		20-JUN-20	R5126683
Hardness (as CaCO3)	52.5		0.50			19-JUN-20	
pH	7.68		0.10	pH		20-JUN-20	R5126683
Total Suspended Solids	3.5		3.0	mg/L		20-JUN-20	R5127481
Total Dissolved Solids	92		13	mg/L		20-JUN-20	R5127600
Turbidity	7.42		0.10	NTU		19-JUN-20	R5126303
Anions and Nutrients							
Acidity (as CaCO3)	1.4	<DL	2.0	mg/L		23-JUN-20	R5129936
Alkalinity, Total (as CaCO3)	46.8		2.0	mg/L		20-JUN-20	R5126683
Unionized ammonia	<0.00047		0.00047	mg/L		25-JUN-20	
Ammonia, Total (as N)	0.010	<DL	0.020	mg/L		24-JUN-20	R5131677

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-9 SW17							
Sampled By: NB,AJ,GC,SJ on 16-JUN-20 @ 10:30							
Matrix: Water							
Anions and Nutrients							
Chloride (Cl)	2.36		0.10	mg/L		24-JUN-20	R5132207
Fluoride (F)	0.060		0.020	mg/L		24-JUN-20	R5132207
Nitrate (as N)	0.056	<T	0.020	mg/L		24-JUN-20	R5132207
Nitrite (as N)	<0.001	<W	0.010	mg/L		24-JUN-20	R5132207
Total Kjeldahl Nitrogen	0.60		0.18	mg/L	23-JUN-20	24-JUN-20	R5131463
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		22-JUN-20	R5127131
Phosphorus (P)-Total	0.0206	<T	0.0030	mg/L		25-JUN-20	R5131975
Sulfate (SO4)	3.20	<T	0.30	mg/L		24-JUN-20	R5132207
Cyanides							
Cyanide, Weak Acid Diss	0.0007	<DL	0.0020	mg/L		22-JUN-20	R5128800
Cyanide, Total	0.0006	<DL	0.0020	mg/L		22-JUN-20	R5128800
Cyanide, Free	0.0005	<DL	0.0020	mg/L		22-JUN-20	R5128800
Organic / Inorganic Carbon							
Dissolved Organic Carbon	23.5	DLM	5.0	mg/L	20-JUN-20	29-JUN-20	R5135706
Total Organic Carbon	32.9	DLM	5.0	mg/L		25-JUN-20	R5131803
Total Metals							
Aluminum (Al)-Total	0.207		0.0050	mg/L		23-JUN-20	R5130082
Antimony (Sb)-Total	0.000045	<DL	0.00010	mg/L		23-JUN-20	R5130082
Arsenic (As)-Total	0.000750	<T	0.00010	mg/L		23-JUN-20	R5130082
Barium (Ba)-Total	0.0132		0.00010	mg/L		23-JUN-20	R5130082
Beryllium (Be)-Total	0.000016	<DL	0.00010	mg/L		23-JUN-20	R5130082
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		23-JUN-20	R5130082
Boron (B)-Total	0.008	<DL	0.010	mg/L		23-JUN-20	R5130082
Cadmium (Cd)-Total	0.0000130	<T	0.0000050	mg/L		23-JUN-20	R5130082
Calcium (Ca)-Total	11.9		0.050	mg/L		23-JUN-20	R5130082
Cesium (Cs)-Total	0.0000282		0.000010	mg/L		23-JUN-20	R5130082
Chromium (Cr)-Total	0.00056	<T	0.00050	mg/L		23-JUN-20	R5130082
Cobalt (Co)-Total	0.000150	<T	0.00010	mg/L		23-JUN-20	R5130082
Copper (Cu)-Total	0.00140	<T	0.00050	mg/L		23-JUN-20	R5130082
Iron (Fe)-Total	0.381		0.010	mg/L		23-JUN-20	R5130082
Lead (Pb)-Total	0.00020	<T	0.000050	mg/L		23-JUN-20	R5130082
Lithium (Li)-Total	0.0016	<T	0.0010	mg/L		23-JUN-20	R5130082
Magnesium (Mg)-Total	4.52		0.0050	mg/L		23-JUN-20	R5130082
Manganese (Mn)-Total	0.0256		0.00050	mg/L		23-JUN-20	R5130082
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		22-JUN-20	R5127164
Molybdenum (Mo)-Total	0.000210	<T	0.000050	mg/L		23-JUN-20	R5130082
Nickel (Ni)-Total	0.00126	<T	0.00050	mg/L		23-JUN-20	R5130082
Phosphorus (P)-Total	0.016	<DL	0.050	mg/L		23-JUN-20	R5130082
Potassium (K)-Total	0.840		0.050	mg/L		23-JUN-20	R5130082
Rubidium (Rb)-Total	0.00199		0.00020	mg/L		23-JUN-20	R5130082
Selenium (Se)-Total	0.000144	<T	0.000050	mg/L		23-JUN-20	R5130082
Silicon (Si)-Total	2.72		0.10	mg/L		23-JUN-20	R5130082

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-9 SW17							
Sampled By: NB,AJ,GC,SJ on 16-JUN-20 @ 10:30							
Matrix: Water							
Total Metals							
Silver (Ag)-Total	0.0000025	<DL	0.000050	mg/L		23-JUN-20	R5130082
Sodium (Na)-Total	2.72		0.050	mg/L		23-JUN-20	R5130082
Strontium (Sr)-Total	0.0282		0.0010	mg/L		23-JUN-20	R5130082
Sulfur (S)-Total	1.15		0.50	mg/L		23-JUN-20	R5130082
Tellurium (Te)-Total	0.000010	<DL	0.00020	mg/L		23-JUN-20	R5130082
Thallium (Tl)-Total	0.000005	<DL	0.000010	mg/L		23-JUN-20	R5130082
Thorium (Th)-Total	0.000052	<DL	0.00010	mg/L		23-JUN-20	R5130082
Tin (Sn)-Total	0.00007	<DL	0.00010	mg/L		23-JUN-20	R5130082
Titanium (Ti)-Total	0.00530		0.00030	mg/L		23-JUN-20	R5130082
Tungsten (W)-Total	0.000006	<DL	0.00010	mg/L		23-JUN-20	R5130082
Uranium (U)-Total	0.000162	<T	0.000010	mg/L		23-JUN-20	R5130082
Vanadium (V)-Total	0.00094	<T	0.00050	mg/L		23-JUN-20	R5130082
Zinc (Zn)-Total	0.0022	<DL	0.0030	mg/L		23-JUN-20	R5130082
Zirconium (Zr)-Total	0.000288		0.00020	mg/L		23-JUN-20	R5130082
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-JUN-20	R5129318
Aluminum (Al)-Dissolved	0.0404		0.0050	mg/L		24-JUN-20	R5131971
Antimony (Sb)-Dissolved	0.000025	<DL	0.00010	mg/L		25-JUN-20	R5131971
Arsenic (As)-Dissolved	0.000715	<T	0.00010	mg/L		24-JUN-20	R5131971
Barium (Ba)-Dissolved	0.0127		0.00010	mg/L		24-JUN-20	R5131971
Beryllium (Be)-Dissolved	0.000014	<DL	0.00010	mg/L		24-JUN-20	R5131971
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		24-JUN-20	R5131971
Boron (B)-Dissolved	0.010		0.010	mg/L		24-JUN-20	R5131971
Cadmium (Cd)-Dissolved	0.0000074	<T	0.0000050	mg/L		25-JUN-20	R5131971
Calcium (Ca)-Dissolved	13.4		0.050	mg/L		24-JUN-20	R5131971
Cesium (Cs)-Dissolved	0.0000026	<DL	0.000010	mg/L		25-JUN-20	R5131971
Chromium (Cr)-Dissolved	0.00030	<DL	0.00050	mg/L		24-JUN-20	R5131971
Cobalt (Co)-Dissolved	0.000058	<DL	0.00010	mg/L		24-JUN-20	R5131971
Copper (Cu)-Dissolved	0.00120	<T	0.00020	mg/L		24-JUN-20	R5131971
Iron (Fe)-Dissolved	0.166		0.010	mg/L		24-JUN-20	R5131971
Lead (Pb)-Dissolved	0.00008	<T	0.000050	mg/L		24-JUN-20	R5131971
Lithium (Li)-Dissolved	0.0018	<T	0.0010	mg/L		24-JUN-20	R5131971
Magnesium (Mg)-Dissolved	4.62		0.0050	mg/L		24-JUN-20	R5131971
Manganese (Mn)-Dissolved	0.0133		0.00050	mg/L		24-JUN-20	R5131971
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		22-JUN-20	R5127166
Molybdenum (Mo)-Dissolved	0.000200	<T	0.000050	mg/L		25-JUN-20	R5131971
Nickel (Ni)-Dissolved	0.00104	<T	0.00050	mg/L		24-JUN-20	R5131971
Phosphorus (P)-Dissolved	0.012	<DL	0.050	mg/L		24-JUN-20	R5131971
Potassium (K)-Dissolved	0.838		0.050	mg/L		24-JUN-20	R5131971
Rubidium (Rb)-Dissolved	0.00162		0.00020	mg/L		24-JUN-20	R5131971
Selenium (Se)-Dissolved	0.000160	<T	0.000050	mg/L		24-JUN-20	R5131971

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-9 SW17 Sampled By: NB,AJ,GC,SJ on 16-JUN-20 @ 10:30 Matrix: Water							
Dissolved Metals							
Silicon (Si)-Dissolved	2.44		0.050	mg/L		24-JUN-20	R5131971
Silver (Ag)-Dissolved	<0.0000005	<W	0.000050	mg/L		25-JUN-20	R5131971
Sodium (Na)-Dissolved	2.81		0.050	mg/L		24-JUN-20	R5131971
Strontium (Sr)-Dissolved	0.0294		0.0010	mg/L		25-JUN-20	R5131971
Sulfur (S)-Dissolved	1.30		0.50	mg/L		24-JUN-20	R5131971
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		25-JUN-20	R5131971
Thallium (Tl)-Dissolved	0.000001	<DL	0.000010	mg/L		24-JUN-20	R5131971
Thorium (Th)-Dissolved	0.000070	<DL	0.00010	mg/L		24-JUN-20	R5131971
Tin (Sn)-Dissolved	0.00003	<DL	0.00010	mg/L		25-JUN-20	R5131971
Titanium (Ti)-Dissolved	0.00156		0.00030	mg/L		24-JUN-20	R5131971
Tungsten (W)-Dissolved	0.000004	<DL	0.00010	mg/L		24-JUN-20	R5131971
Uranium (U)-Dissolved	0.000158	<T	0.000010	mg/L		24-JUN-20	R5131971
Vanadium (V)-Dissolved	0.00056	<T	0.00050	mg/L		24-JUN-20	R5131971
Zinc (Zn)-Dissolved	0.0034	<T	0.0010	mg/L		24-JUN-20	R5131971
Zirconium (Zr)-Dissolved	0.000312		0.00020	mg/L		25-JUN-20	R5131971
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-JUN-20	R5131341
COD	57		10	mg/L		25-JUN-20	R5132031
Oil and Grease, Total	0.8	<DL	1.0	mg/L	22-JUN-20	23-JUN-20	R5128438
L2463184-10 SW21A Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 12:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	3.89		0	mg/L		22-JUN-20	R5126866
pH, Client Supplied	7.51		0.10	pH		25-JUN-20	R5131788
pH, Client Supplied	7.51		0.10	pH		22-JUN-20	R5126866
Temperature, Client	23.8		-50	Deg. C		25-JUN-20	R5131788
Temperature, Client Supplied	23.76		0	Degree C		22-JUN-20	R5126866
Physical Tests							
Color, True	144		2.0	CU		19-JUN-20	R5126257
Conductivity (EC)	312		1.0	uS/cm		20-JUN-20	R5126683
Hardness (as CaCO3)	159		0.50			19-JUN-20	
pH	7.94		0.10	pH		20-JUN-20	R5126683
Total Suspended Solids	3.0		3.0	mg/L		23-JUN-20	R5131004
Total Dissolved Solids	224		20	mg/L		23-JUN-20	R5131285
Turbidity	2.03		0.10	NTU		19-JUN-20	R5126303
Anions and Nutrients							
Acidity (as CaCO3)	0.6	<DL	2.0	mg/L		23-JUN-20	R5129936
Alkalinity, Total (as CaCO3)	148		2.0	mg/L		20-JUN-20	R5126683
Unionized ammonia	<0.00040		0.00040	mg/L		25-JUN-20	
Ammonia, Total (as N)	0.016	<DL	0.020	mg/L		24-JUN-20	R5131677
Chloride (Cl)	14.7		0.10	mg/L		24-JUN-20	R5132207

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-10 SW21A							
Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 12:00							
Matrix: Water							
Anions and Nutrients							
Fluoride (F)	0.081		0.020	mg/L		24-JUN-20	R5132207
Nitrate (as N)	<0.002	<W	0.020	mg/L		24-JUN-20	R5132207
Nitrite (as N)	<0.001	<W	0.010	mg/L		24-JUN-20	R5132207
Total Kjeldahl Nitrogen	1.30		0.18	mg/L	23-JUN-20	24-JUN-20	R5131463
Orthophosphate-Dissolved (as P)	0.0427	DLHC	0.0060	mg/L		22-JUN-20	R5127134
Phosphorus (P)-Total	0.0816	<T	0.0030	mg/L		25-JUN-20	R5131975
Sulfate (SO4)	6.95		0.30	mg/L		24-JUN-20	R5132207
Cyanides							
Cyanide, Weak Acid Diss	0.0014	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Total	0.0012	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Free	0.0011	<DL	0.0020	mg/L		23-JUN-20	R5128800
Organic / Inorganic Carbon							
Dissolved Organic Carbon	36.3	DLM	5.0	mg/L	20-JUN-20	29-JUN-20	R5135706
Total Organic Carbon	46.9	DLM	5.0	mg/L		25-JUN-20	R5131803
Total Metals							
Aluminum (Al)-Total	0.0482		0.0050	mg/L		23-JUN-20	R5130082
Antimony (Sb)-Total	0.000080	<DL	0.00010	mg/L		23-JUN-20	R5130082
Arsenic (As)-Total	0.00163	<T	0.00010	mg/L		23-JUN-20	R5130082
Barium (Ba)-Total	0.0195		0.00010	mg/L		23-JUN-20	R5130082
Beryllium (Be)-Total	0.000016	<DL	0.00010	mg/L		23-JUN-20	R5130082
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		23-JUN-20	R5130082
Boron (B)-Total	0.022	<T	0.010	mg/L		23-JUN-20	R5130082
Cadmium (Cd)-Total	0.0000082	<T	0.000050	mg/L		23-JUN-20	R5130082
Calcium (Ca)-Total	37.3		0.050	mg/L		23-JUN-20	R5130082
Cesium (Cs)-Total	0.0000054	<DL	0.000010	mg/L		23-JUN-20	R5130082
Chromium (Cr)-Total	0.00032	<DL	0.00050	mg/L		23-JUN-20	R5130082
Cobalt (Co)-Total	0.000250	<T	0.00010	mg/L		23-JUN-20	R5130082
Copper (Cu)-Total	0.00100	<T	0.00050	mg/L		23-JUN-20	R5130082
Iron (Fe)-Total	0.408		0.010	mg/L		23-JUN-20	R5130082
Lead (Pb)-Total	0.00008	<T	0.000050	mg/L		23-JUN-20	R5130082
Lithium (Li)-Total	0.0058	<T	0.0010	mg/L		23-JUN-20	R5130082
Magnesium (Mg)-Total	15.7		0.0050	mg/L		23-JUN-20	R5130082
Manganese (Mn)-Total	0.0803		0.00050	mg/L		23-JUN-20	R5130082
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		24-JUN-20	R5131134
Molybdenum (Mo)-Total	0.000455	<T	0.000050	mg/L		23-JUN-20	R5130082
Nickel (Ni)-Total	0.00178	<T	0.00050	mg/L		23-JUN-20	R5130082
Phosphorus (P)-Total	0.078		0.050	mg/L		23-JUN-20	R5130082
Potassium (K)-Total	1.32		0.050	mg/L		23-JUN-20	R5130082
Rubidium (Rb)-Total	0.00217		0.00020	mg/L		23-JUN-20	R5130082
Selenium (Se)-Total	0.000230	<T	0.000050	mg/L		23-JUN-20	R5130082
Silicon (Si)-Total	4.01		0.10	mg/L		23-JUN-20	R5130082
Silver (Ag)-Total	0.0000010	<DL	0.000050	mg/L		23-JUN-20	R5130082

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-10 SW21A							
Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 12:00							
Matrix: Water							
Total Metals							
Sodium (Na)-Total	8.40		0.050	mg/L		23-JUN-20	R5130082
Strontium (Sr)-Total	0.0989		0.0010	mg/L		23-JUN-20	R5130082
Sulfur (S)-Total	3.05		0.50	mg/L		23-JUN-20	R5130082
Tellurium (Te)-Total	0.000010	<DL	0.00020	mg/L		23-JUN-20	R5130082
Thallium (Tl)-Total	0.000002	<DL	0.000010	mg/L		23-JUN-20	R5130082
Thorium (Th)-Total	0.000024	<DL	0.00010	mg/L		23-JUN-20	R5130082
Tin (Sn)-Total	0.00004	<DL	0.00010	mg/L		23-JUN-20	R5130082
Titanium (Ti)-Total	0.00188		0.00030	mg/L		23-JUN-20	R5130082
Tungsten (W)-Total	0.000012	<DL	0.00010	mg/L		23-JUN-20	R5130082
Uranium (U)-Total	0.000356	<T	0.000010	mg/L		23-JUN-20	R5130082
Vanadium (V)-Total	0.00080	<T	0.00050	mg/L		23-JUN-20	R5130082
Zinc (Zn)-Total	0.0014	<DL	0.0030	mg/L		23-JUN-20	R5130082
Zirconium (Zr)-Total	0.000304		0.00020	mg/L		23-JUN-20	R5130082
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-JUN-20	R5129318
Aluminum (Al)-Dissolved	0.0068	<T	0.0050	mg/L		24-JUN-20	R5131971
Antimony (Sb)-Dissolved	0.000070	<DL	0.00010	mg/L		24-JUN-20	R5131971
Arsenic (As)-Dissolved	0.00171	<T	0.00010	mg/L		24-JUN-20	R5131971
Barium (Ba)-Dissolved	0.0188		0.00010	mg/L		24-JUN-20	R5131971
Beryllium (Be)-Dissolved	0.000016	<DL	0.00010	mg/L		24-JUN-20	R5131971
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		24-JUN-20	R5131971
Boron (B)-Dissolved	0.022		0.010	mg/L		24-JUN-20	R5131971
Cadmium (Cd)-Dissolved	0.0000108	<T	0.0000050	mg/L		24-JUN-20	R5131971
Calcium (Ca)-Dissolved	38.4		0.050	mg/L		24-JUN-20	R5131971
Cesium (Cs)-Dissolved	0.0000002	<DL	0.000010	mg/L		24-JUN-20	R5131971
Chromium (Cr)-Dissolved	0.00020	<DL	0.00050	mg/L		24-JUN-20	R5131971
Cobalt (Co)-Dissolved	0.000200	<T	0.00010	mg/L		24-JUN-20	R5131971
Copper (Cu)-Dissolved	0.00065	<T	0.00020	mg/L		24-JUN-20	R5131971
Iron (Fe)-Dissolved	0.260		0.010	mg/L		24-JUN-20	R5131971
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		24-JUN-20	R5131971
Lithium (Li)-Dissolved	0.0060	<T	0.0010	mg/L		24-JUN-20	R5131971
Magnesium (Mg)-Dissolved	15.2		0.0050	mg/L		24-JUN-20	R5131971
Manganese (Mn)-Dissolved	0.0574		0.00050	mg/L		24-JUN-20	R5131971
Mercury (Hg)-Dissolved	0.000005	<DL	0.000030	mg/L		22-JUN-20	R5127166
Molybdenum (Mo)-Dissolved	0.000445	<T	0.000050	mg/L		24-JUN-20	R5131971
Nickel (Ni)-Dissolved	0.00166	<T	0.00050	mg/L		24-JUN-20	R5131971
Phosphorus (P)-Dissolved	0.078		0.050	mg/L		24-JUN-20	R5131971
Potassium (K)-Dissolved	1.26		0.050	mg/L		24-JUN-20	R5131971
Rubidium (Rb)-Dissolved	0.00197		0.00020	mg/L		24-JUN-20	R5131971
Selenium (Se)-Dissolved	0.000256	<T	0.000050	mg/L		24-JUN-20	R5131971
Silicon (Si)-Dissolved	3.83		0.050	mg/L		24-JUN-20	R5131971

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-10 SW21A Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 12:00 Matrix: Water							
Dissolved Metals							
Silver (Ag)-Dissolved	0.0000005	<DL	0.000050	mg/L		24-JUN-20	R5131971
Sodium (Na)-Dissolved	7.98		0.050	mg/L		24-JUN-20	R5131971
Strontium (Sr)-Dissolved	0.0986		0.0010	mg/L		24-JUN-20	R5131971
Sulfur (S)-Dissolved	3.15		0.50	mg/L		24-JUN-20	R5131971
Tellurium (Te)-Dissolved	0.000020	<DL	0.00020	mg/L		24-JUN-20	R5131971
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		24-JUN-20	R5131971
Thorium (Th)-Dissolved	0.000026	<DL	0.00010	mg/L		24-JUN-20	R5131971
Tin (Sn)-Dissolved	0.00008	<DL	0.00010	mg/L		24-JUN-20	R5131971
Titanium (Ti)-Dissolved	0.00044		0.00030	mg/L		24-JUN-20	R5131971
Tungsten (W)-Dissolved	0.000010	<DL	0.00010	mg/L		24-JUN-20	R5131971
Uranium (U)-Dissolved	0.000321	<T	0.000010	mg/L		24-JUN-20	R5131971
Vanadium (V)-Dissolved	0.00066	<T	0.00050	mg/L		24-JUN-20	R5131971
Zinc (Zn)-Dissolved	0.0028	<T	0.0010	mg/L		24-JUN-20	R5131971
Zirconium (Zr)-Dissolved	0.000368		0.00020	mg/L		24-JUN-20	R5131971
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-JUN-20	R5131341
COD	90		10	mg/L		25-JUN-20	R5132031
Oil and Grease, Total	<0.2	<W	1.0	mg/L	22-JUN-20	23-JUN-20	R5128438
L2463184-11 SW22A Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 12:30 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	7.42		0	mg/L		22-JUN-20	R5126866
pH, Client Supplied	7.73		0.10	pH		25-JUN-20	R5131788
pH, Client Supplied	7.73		0.10	pH		22-JUN-20	R5126866
Temperature, Client	24.9		-50	Deg. C		25-JUN-20	R5131788
Temperature, Client Supplied	24.88		0	Degree C		22-JUN-20	R5126866
Physical Tests							
Color, True	130		2.0	CU		19-JUN-20	R5126257
Conductivity (EC)	320		1.0	uS/cm		20-JUN-20	R5126683
Hardness (as CaCO3)	166		0.50			19-JUN-20	
pH	8.05		0.10	pH		20-JUN-20	R5126683
Total Suspended Solids	5.0		3.0	mg/L		23-JUN-20	R5131004
Total Dissolved Solids	226		20	mg/L		23-JUN-20	R5131285
Turbidity	2.89		0.10	NTU		19-JUN-20	R5126303
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		23-JUN-20	R5129936
Alkalinity, Total (as CaCO3)	150		2.0	mg/L		20-JUN-20	R5126683
Unionized ammonia	<0.00071		0.00071	mg/L		25-JUN-20	
Ammonia, Total (as N)	0.018	<DL	0.020	mg/L		24-JUN-20	R5131677
Chloride (Cl)	13.9		0.10	mg/L		24-JUN-20	R5132207
Fluoride (F)	0.082		0.020	mg/L		24-JUN-20	R5132207

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-11 SW22A							
Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 12:30							
Matrix: Water							
Anions and Nutrients							
Nitrate (as N)	0.016	<DL	0.020	mg/L		24-JUN-20	R5132207
Nitrite (as N)	<0.001	<W	0.010	mg/L		24-JUN-20	R5132207
Total Kjeldahl Nitrogen	1.30		0.18	mg/L	23-JUN-20	24-JUN-20	R5131463
Orthophosphate-Dissolved (as P)	0.0372		0.0030	mg/L		22-JUN-20	R5127134
Phosphorus (P)-Total	0.0730	<T	0.0030	mg/L		25-JUN-20	R5131975
Sulfate (SO4)	8.40		0.30	mg/L		24-JUN-20	R5132207
Cyanides							
Cyanide, Weak Acid Diss	0.0015	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Total	0.0012	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Free	0.0011	<DL	0.0020	mg/L		23-JUN-20	R5128800
Organic / Inorganic Carbon							
Dissolved Organic Carbon	36.2	DLM	5.0	mg/L	20-JUN-20	29-JUN-20	R5135706
Total Organic Carbon	48.2	DLM	5.0	mg/L		25-JUN-20	R5131803
Total Metals							
Aluminum (Al)-Total	0.0848		0.0050	mg/L		23-JUN-20	R5130082
Antimony (Sb)-Total	0.000090	<DL	0.00010	mg/L		23-JUN-20	R5130082
Arsenic (As)-Total	0.00162	<T	0.00010	mg/L		23-JUN-20	R5130082
Barium (Ba)-Total	0.0186		0.00010	mg/L		23-JUN-20	R5130082
Beryllium (Be)-Total	0.000016	<DL	0.00010	mg/L		23-JUN-20	R5130082
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		23-JUN-20	R5130082
Boron (B)-Total	0.022	<T	0.010	mg/L		23-JUN-20	R5130082
Cadmium (Cd)-Total	0.0000070	<T	0.000050	mg/L		23-JUN-20	R5130082
Calcium (Ca)-Total	38.0		0.050	mg/L		23-JUN-20	R5130082
Cesium (Cs)-Total	0.0000094	<DL	0.000010	mg/L		23-JUN-20	R5130082
Chromium (Cr)-Total	0.00032	<DL	0.00050	mg/L		23-JUN-20	R5130082
Cobalt (Co)-Total	0.000226	<T	0.00010	mg/L		23-JUN-20	R5130082
Copper (Cu)-Total	0.00095	<T	0.00050	mg/L		23-JUN-20	R5130082
Iron (Fe)-Total	0.373		0.010	mg/L		23-JUN-20	R5130082
Lead (Pb)-Total	0.00018	<T	0.000050	mg/L		23-JUN-20	R5130082
Lithium (Li)-Total	0.0058	<T	0.0010	mg/L		23-JUN-20	R5130082
Magnesium (Mg)-Total	15.6		0.0050	mg/L		23-JUN-20	R5130082
Manganese (Mn)-Total	0.0486		0.00050	mg/L		23-JUN-20	R5130082
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		24-JUN-20	R5131134
Molybdenum (Mo)-Total	0.000530	<T	0.000050	mg/L		23-JUN-20	R5130082
Nickel (Ni)-Total	0.00178	<T	0.00050	mg/L		23-JUN-20	R5130082
Phosphorus (P)-Total	0.088		0.050	mg/L		23-JUN-20	R5130082
Potassium (K)-Total	1.30		0.050	mg/L		23-JUN-20	R5130082
Rubidium (Rb)-Total	0.00197		0.00020	mg/L		23-JUN-20	R5130082
Selenium (Se)-Total	0.000222	<T	0.000050	mg/L		23-JUN-20	R5130082
Silicon (Si)-Total	3.54		0.10	mg/L		23-JUN-20	R5130082
Silver (Ag)-Total	0.0000030	<DL	0.000050	mg/L		23-JUN-20	R5130082
Sodium (Na)-Total	7.88		0.050	mg/L		23-JUN-20	R5130082

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-11 SW22A							
Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 12:30							
Matrix: Water							
Total Metals							
Strontium (Sr)-Total	0.0965		0.0010	mg/L		23-JUN-20	R5130082
Sulfur (S)-Total	3.55		0.50	mg/L		23-JUN-20	R5130082
Tellurium (Te)-Total	0.000020	<DL	0.00020	mg/L		23-JUN-20	R5130082
Thallium (Tl)-Total	0.000003	<DL	0.000010	mg/L		23-JUN-20	R5130082
Thorium (Th)-Total	0.000028	<DL	0.00010	mg/L		23-JUN-20	R5130082
Tin (Sn)-Total	0.00006	<DL	0.00010	mg/L		23-JUN-20	R5130082
Titanium (Ti)-Total	0.00330		0.00030	mg/L		23-JUN-20	R5130082
Tungsten (W)-Total	0.000010	<DL	0.00010	mg/L		23-JUN-20	R5130082
Uranium (U)-Total	0.000495	<T	0.000010	mg/L		23-JUN-20	R5130082
Vanadium (V)-Total	0.00096	<T	0.00050	mg/L		23-JUN-20	R5130082
Zinc (Zn)-Total	0.0026	<DL	0.0030	mg/L		23-JUN-20	R5130082
Zirconium (Zr)-Total	0.000288		0.00020	mg/L		23-JUN-20	R5130082
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-JUN-20	R5129318
Aluminum (Al)-Dissolved	0.0066	<T	0.0050	mg/L		24-JUN-20	R5131971
Antimony (Sb)-Dissolved	0.000075	<DL	0.00010	mg/L		24-JUN-20	R5131971
Arsenic (As)-Dissolved	0.00166	<T	0.00010	mg/L		24-JUN-20	R5131971
Barium (Ba)-Dissolved	0.0192		0.00010	mg/L		24-JUN-20	R5131971
Beryllium (Be)-Dissolved	0.000016	<DL	0.00010	mg/L		24-JUN-20	R5131971
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		24-JUN-20	R5131971
Boron (B)-Dissolved	0.022		0.010	mg/L		24-JUN-20	R5131971
Cadmium (Cd)-Dissolved	0.0000082	<T	0.0000050	mg/L		24-JUN-20	R5131971
Calcium (Ca)-Dissolved	40.5		0.050	mg/L		24-JUN-20	R5131971
Cesium (Cs)-Dissolved	0.0000006	<DL	0.000010	mg/L		24-JUN-20	R5131971
Chromium (Cr)-Dissolved	0.00020	<DL	0.00050	mg/L		24-JUN-20	R5131971
Cobalt (Co)-Dissolved	0.000182	<T	0.00010	mg/L		24-JUN-20	R5131971
Copper (Cu)-Dissolved	0.00080	<T	0.00020	mg/L		24-JUN-20	R5131971
Iron (Fe)-Dissolved	0.201		0.010	mg/L		24-JUN-20	R5131971
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		24-JUN-20	R5131971
Lithium (Li)-Dissolved	0.0066	<T	0.0010	mg/L		24-JUN-20	R5131971
Magnesium (Mg)-Dissolved	15.9		0.0050	mg/L		24-JUN-20	R5131971
Manganese (Mn)-Dissolved	0.0387		0.00050	mg/L		24-JUN-20	R5131971
Mercury (Hg)-Dissolved	0.000015	<DL	0.000030	mg/L		22-JUN-20	R5127166
Molybdenum (Mo)-Dissolved	0.000540	<T	0.000050	mg/L		24-JUN-20	R5131971
Nickel (Ni)-Dissolved	0.00164	<T	0.00050	mg/L		24-JUN-20	R5131971
Phosphorus (P)-Dissolved	0.090		0.050	mg/L		24-JUN-20	R5131971
Potassium (K)-Dissolved	1.31		0.050	mg/L		24-JUN-20	R5131971
Rubidium (Rb)-Dissolved	0.00188		0.00020	mg/L		24-JUN-20	R5131971
Selenium (Se)-Dissolved	0.000252	<T	0.000050	mg/L		24-JUN-20	R5131971
Silicon (Si)-Dissolved	3.37		0.050	mg/L		24-JUN-20	R5131971
Silver (Ag)-Dissolved	0.0000010	<DL	0.000050	mg/L		24-JUN-20	R5131971

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-11 SW22A Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 12:30 Matrix: Water							
Dissolved Metals							
Sodium (Na)-Dissolved	7.84		0.050	mg/L		24-JUN-20	R5131971
Strontium (Sr)-Dissolved	0.101		0.0010	mg/L		24-JUN-20	R5131971
Sulfur (S)-Dissolved	3.70		0.50	mg/L		24-JUN-20	R5131971
Tellurium (Te)-Dissolved	0.000020	<DL	0.00020	mg/L		24-JUN-20	R5131971
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		24-JUN-20	R5131971
Thorium (Th)-Dissolved	0.000024	<DL	0.00010	mg/L		24-JUN-20	R5131971
Tin (Sn)-Dissolved	0.00005	<DL	0.00010	mg/L		24-JUN-20	R5131971
Titanium (Ti)-Dissolved	0.00036		0.00030	mg/L		24-JUN-20	R5131971
Tungsten (W)-Dissolved	0.000010	<DL	0.00010	mg/L		24-JUN-20	R5131971
Uranium (U)-Dissolved	0.000470	<T	0.000010	mg/L		24-JUN-20	R5131971
Vanadium (V)-Dissolved	0.00074	<T	0.00050	mg/L		24-JUN-20	R5131971
Zinc (Zn)-Dissolved	0.0024	<T	0.0010	mg/L		24-JUN-20	R5131971
Zirconium (Zr)-Dissolved	0.000352		0.00020	mg/L		24-JUN-20	R5131971
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-JUN-20	R5131341
COD	86		10	mg/L		25-JUN-20	R5132031
Oil and Grease, Total	0.8	<DL	1.0	mg/L	22-JUN-20	23-JUN-20	R5128438
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		03-JUL-20	R5142974
L2463184-12 SW23 Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 09:40 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	5.22		0	mg/L		22-JUN-20	R5126866
pH, Client Supplied	7.50		0.10	pH		25-JUN-20	R5131788
pH, Client Supplied	7.5		0.10	pH		22-JUN-20	R5126866
Temperature, Client	22.0		-50	Deg. C		25-JUN-20	R5131788
Temperature, Client Supplied	21.94		0	Degree C		22-JUN-20	R5126866
Physical Tests							
Color, True	257		2.0	CU		19-JUN-20	R5126169
Conductivity (EC)	199		1.0	uS/cm		20-JUN-20	R5126683
Hardness (as CaCO3)	125		0.50			19-JUN-20	
pH	7.92		0.10	pH		20-JUN-20	R5126683
Total Suspended Solids	14.5		3.0	mg/L		23-JUN-20	R5131004
Total Dissolved Solids	176		13	mg/L		23-JUN-20	R5131285
Turbidity	15.7		0.10	NTU		19-JUN-20	R5126303
Anions and Nutrients							
Acidity (as CaCO3)	1.4	<DL	2.0	mg/L		23-JUN-20	R5129936
Alkalinity, Total (as CaCO3)	105		2.0	mg/L		20-JUN-20	R5126683
Unionized ammonia	0.00052		0.00035	mg/L		25-JUN-20	
Ammonia, Total (as N)	0.030	<T	0.020	mg/L		24-JUN-20	R5131677
Chloride (Cl)	4.09		0.10	mg/L		24-JUN-20	R5132207

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-12 SW23							
Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 09:40							
Matrix: Water							
Anions and Nutrients							
Fluoride (F)	0.067		0.020	mg/L		24-JUN-20	R5132207
Nitrate (as N)	0.034	<T	0.020	mg/L		24-JUN-20	R5132207
Nitrite (as N)	<0.001	<W	0.010	mg/L		24-JUN-20	R5132207
Total Kjeldahl Nitrogen	1.50		0.18	mg/L	23-JUN-20	24-JUN-20	R5131463
Orthophosphate-Dissolved (as P)	0.0210		0.0030	mg/L		22-JUN-20	R5127134
Phosphorus (P)-Total	0.0625	<T	0.0030	mg/L		25-JUN-20	R5131975
Sulfate (SO4)	3.20	<T	0.30	mg/L		24-JUN-20	R5132207
Cyanides							
Cyanide, Weak Acid Diss	0.0016	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Total	0.0018	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Free	0.0018	<DL	0.0020	mg/L		23-JUN-20	R5128800
Organic / Inorganic Carbon							
Dissolved Organic Carbon	47.1	DLM	5.0	mg/L	20-JUN-20	29-JUN-20	R5135706
Total Organic Carbon	67.0	DLM	5.0	mg/L		25-JUN-20	R5131803
Total Metals							
Aluminum (Al)-Total	0.494		0.0050	mg/L		23-JUN-20	R5130082
Antimony (Sb)-Total	0.000060	<DL	0.00010	mg/L		23-JUN-20	R5130082
Arsenic (As)-Total	0.00190	<T	0.00010	mg/L		23-JUN-20	R5130082
Barium (Ba)-Total	0.0209		0.00010	mg/L		23-JUN-20	R5130082
Beryllium (Be)-Total	0.000040	<DL	0.00010	mg/L		23-JUN-20	R5130082
Bismuth (Bi)-Total	0.000010	<DL	0.000050	mg/L		23-JUN-20	R5130082
Boron (B)-Total	0.018	<T	0.010	mg/L		23-JUN-20	R5130082
Cadmium (Cd)-Total	0.0000232	<T	0.0000050	mg/L		23-JUN-20	R5130082
Calcium (Ca)-Total	27.4		0.050	mg/L		23-JUN-20	R5130082
Cesium (Cs)-Total	0.0000694		0.000010	mg/L		23-JUN-20	R5130082
Chromium (Cr)-Total	0.00112	<T	0.00050	mg/L		23-JUN-20	R5130082
Cobalt (Co)-Total	0.000520	<T	0.00010	mg/L		23-JUN-20	R5130082
Copper (Cu)-Total	0.00195	<T	0.00050	mg/L		23-JUN-20	R5130082
Iron (Fe)-Total	1.03		0.010	mg/L		23-JUN-20	R5130082
Lead (Pb)-Total	0.00042	<T	0.000050	mg/L		23-JUN-20	R5130082
Lithium (Li)-Total	0.0046	<T	0.0010	mg/L		23-JUN-20	R5130082
Magnesium (Mg)-Total	11.3		0.0050	mg/L		23-JUN-20	R5130082
Manganese (Mn)-Total	0.0954		0.00050	mg/L		23-JUN-20	R5130082
Mercury (Hg)-Total	0.000010	<DL	0.000030	mg/L		24-JUN-20	R5131134
Molybdenum (Mo)-Total	0.000360	<T	0.000050	mg/L		23-JUN-20	R5130082
Nickel (Ni)-Total	0.00246	<T	0.00050	mg/L		23-JUN-20	R5130082
Phosphorus (P)-Total	0.072		0.050	mg/L		23-JUN-20	R5130082
Potassium (K)-Total	0.806		0.050	mg/L		23-JUN-20	R5130082
Rubidium (Rb)-Total	0.00228		0.00020	mg/L		23-JUN-20	R5130082
Selenium (Se)-Total	0.000222	<T	0.000050	mg/L		23-JUN-20	R5130082
Silicon (Si)-Total	3.91		0.10	mg/L		23-JUN-20	R5130082
Silver (Ag)-Total	0.0000040	<DL	0.000050	mg/L		23-JUN-20	R5130082

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-12 SW23							
Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 09:40							
Matrix: Water							
Total Metals							
Sodium (Na)-Total	3.48		0.050	mg/L		23-JUN-20	R5130082
Strontium (Sr)-Total	0.0615		0.0010	mg/L		23-JUN-20	R5130082
Sulfur (S)-Total	1.65		0.50	mg/L		23-JUN-20	R5130082
Tellurium (Te)-Total	0.000015	<DL	0.00020	mg/L		23-JUN-20	R5130082
Thallium (Tl)-Total	0.000011	<T	0.000010	mg/L		23-JUN-20	R5130082
Thorium (Th)-Total	0.000106		0.00010	mg/L		23-JUN-20	R5130082
Tin (Sn)-Total	0.00010		0.00010	mg/L		23-JUN-20	R5130082
Titanium (Ti)-Total	0.0156		0.00030	mg/L		23-JUN-20	R5130082
Tungsten (W)-Total	0.000008	<DL	0.00010	mg/L		23-JUN-20	R5130082
Uranium (U)-Total	0.000401	<T	0.000010	mg/L		23-JUN-20	R5130082
Vanadium (V)-Total	0.00230	<T	0.00050	mg/L		23-JUN-20	R5130082
Zinc (Zn)-Total	0.0034	<T	0.0030	mg/L		23-JUN-20	R5130082
Zirconium (Zr)-Total	0.000660		0.00020	mg/L		23-JUN-20	R5130082
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-JUN-20	R5129318
Aluminum (Al)-Dissolved	0.0642		0.0050	mg/L		24-JUN-20	R5131971
Antimony (Sb)-Dissolved	0.000065	<DL	0.00010	mg/L		24-JUN-20	R5131971
Arsenic (As)-Dissolved	0.00191	<T	0.00010	mg/L		24-JUN-20	R5131971
Barium (Ba)-Dissolved	0.0187		0.00010	mg/L		24-JUN-20	R5131971
Beryllium (Be)-Dissolved	0.000026	<DL	0.00010	mg/L		24-JUN-20	R5131971
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		24-JUN-20	R5131971
Boron (B)-Dissolved	0.020		0.010	mg/L		24-JUN-20	R5131971
Cadmium (Cd)-Dissolved	0.0000134	<T	0.0000050	mg/L		24-JUN-20	R5131971
Calcium (Ca)-Dissolved	30.8		0.050	mg/L		24-JUN-20	R5131971
Cesium (Cs)-Dissolved	0.0000006	<DL	0.000010	mg/L		24-JUN-20	R5131971
Chromium (Cr)-Dissolved	0.00028	<DL	0.00050	mg/L		24-JUN-20	R5131971
Cobalt (Co)-Dissolved	0.000254	<T	0.00010	mg/L		24-JUN-20	R5131971
Copper (Cu)-Dissolved	0.00150	<T	0.00020	mg/L		24-JUN-20	R5131971
Iron (Fe)-Dissolved	0.433		0.010	mg/L		24-JUN-20	R5131971
Lead (Pb)-Dissolved	0.00014	<T	0.000050	mg/L		24-JUN-20	R5131971
Lithium (Li)-Dissolved	0.0056	<T	0.0010	mg/L		24-JUN-20	R5131971
Magnesium (Mg)-Dissolved	11.7		0.0050	mg/L		24-JUN-20	R5131971
Manganese (Mn)-Dissolved	0.0781		0.00050	mg/L		24-JUN-20	R5131971
Mercury (Hg)-Dissolved	0.000005	<DL	0.000030	mg/L		22-JUN-20	R5127166
Molybdenum (Mo)-Dissolved	0.000450	<T	0.000050	mg/L		24-JUN-20	R5131971
Nickel (Ni)-Dissolved	0.00190	<T	0.00050	mg/L		24-JUN-20	R5131971
Phosphorus (P)-Dissolved	0.050		0.050	mg/L		24-JUN-20	R5131971
Potassium (K)-Dissolved	0.766		0.050	mg/L		24-JUN-20	R5131971
Rubidium (Rb)-Dissolved	0.00120		0.00020	mg/L		24-JUN-20	R5131971
Selenium (Se)-Dissolved	0.000258	<T	0.000050	mg/L		24-JUN-20	R5131971
Silicon (Si)-Dissolved	3.10		0.050	mg/L		24-JUN-20	R5131971

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-12 SW23 Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 09:40 Matrix: Water							
Dissolved Metals							
Silver (Ag)-Dissolved	0.0000015	<DL	0.000050	mg/L		24-JUN-20	R5131971
Sodium (Na)-Dissolved	3.68		0.050	mg/L		24-JUN-20	R5131971
Strontium (Sr)-Dissolved	0.0680		0.0010	mg/L		24-JUN-20	R5131971
Sulfur (S)-Dissolved	1.85		0.50	mg/L		24-JUN-20	R5131971
Tellurium (Te)-Dissolved	0.000010	<DL	0.00020	mg/L		24-JUN-20	R5131971
Thallium (Tl)-Dissolved	0.000001	<DL	0.000010	mg/L		24-JUN-20	R5131971
Thorium (Th)-Dissolved	0.000070	<DL	0.00010	mg/L		24-JUN-20	R5131971
Tin (Sn)-Dissolved	0.00007	<DL	0.00010	mg/L		24-JUN-20	R5131971
Titanium (Ti)-Dissolved	0.00192		0.00030	mg/L		24-JUN-20	R5131971
Tungsten (W)-Dissolved	0.000004	<DL	0.00010	mg/L		24-JUN-20	R5131971
Uranium (U)-Dissolved	0.000380	<T	0.000010	mg/L		24-JUN-20	R5131971
Vanadium (V)-Dissolved	0.00128	<T	0.00050	mg/L		24-JUN-20	R5131971
Zinc (Zn)-Dissolved	0.0028	<T	0.0010	mg/L		24-JUN-20	R5131971
Zirconium (Zr)-Dissolved	0.000584		0.00020	mg/L		24-JUN-20	R5131971
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-JUN-20	R5131341
COD	124		10	mg/L		25-JUN-20	R5132031
Oil and Grease, Total	0.4	<DL	1.0	mg/L	22-JUN-20	23-JUN-20	R5128438
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		03-JUL-20	R5142974
L2463184-13 SW24 Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 10:10 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	5.35		0	mg/L		22-JUN-20	R5126866
pH, Client Supplied	7.50		0.10	pH		25-JUN-20	R5131788
pH, Client Supplied	7.5		0.10	pH		22-JUN-20	R5126866
Temperature, Client	21.9		-50	Deg. C		25-JUN-20	R5131788
Temperature, Client Supplied	21.94		0	Degree C		22-JUN-20	R5126866
Physical Tests							
Color, True	271		2.0	CU		19-JUN-20	R5126169
Conductivity (EC)	195		1.0	uS/cm		20-JUN-20	R5126683
Hardness (as CaCO3)	116		0.50			19-JUN-20	
pH	7.92		0.10	pH		20-JUN-20	R5126683
Total Suspended Solids	19.0		3.0	mg/L		23-JUN-20	R5131004
Total Dissolved Solids	178		13	mg/L		23-JUN-20	R5131285
Turbidity	18.3		0.10	NTU		19-JUN-20	R5126303
Anions and Nutrients							
Acidity (as CaCO3)	1.8	<DL	2.0	mg/L		23-JUN-20	R5129936
Alkalinity, Total (as CaCO3)	104		2.0	mg/L		20-JUN-20	R5126683
Unionized ammonia	0.00055		0.00035	mg/L		25-JUN-20	
Ammonia, Total (as N)	0.032	<T	0.020	mg/L		24-JUN-20	R5131677

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-13 SW24							
Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 10:10							
Matrix: Water							
Anions and Nutrients							
Chloride (Cl)	3.97		0.10	mg/L		24-JUN-20	R5132207
Fluoride (F)	0.066		0.020	mg/L		24-JUN-20	R5132207
Nitrate (as N)	0.018	<DL	0.020	mg/L		24-JUN-20	R5132207
Nitrite (as N)	0.002	<DL	0.010	mg/L		24-JUN-20	R5132207
Total Kjeldahl Nitrogen	1.60		0.18	mg/L	23-JUN-20	24-JUN-20	R5131463
Orthophosphate-Dissolved (as P)	0.0205		0.0030	mg/L		22-JUN-20	R5127134
Phosphorus (P)-Total	0.0670	<T	0.0030	mg/L		25-JUN-20	R5131975
Sulfate (SO4)	3.05	<T	0.30	mg/L		24-JUN-20	R5132207
Cyanides							
Cyanide, Weak Acid Diss	0.0015	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Total	0.0014	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Free	0.0015	<DL	0.0020	mg/L		23-JUN-20	R5128800
Organic / Inorganic Carbon							
Dissolved Organic Carbon	50.8	DLM	5.0	mg/L	20-JUN-20	29-JUN-20	R5135706
Total Organic Carbon	72.3	DLM	5.0	mg/L		25-JUN-20	R5131803
Total Metals							
Aluminum (Al)-Total	0.576		0.0050	mg/L		23-JUN-20	R5130082
Antimony (Sb)-Total	0.000065	<DL	0.00010	mg/L		23-JUN-20	R5130082
Arsenic (As)-Total	0.00190	<T	0.00010	mg/L		23-JUN-20	R5130082
Barium (Ba)-Total	0.0218		0.00010	mg/L		23-JUN-20	R5130082
Beryllium (Be)-Total	0.000040	<DL	0.00010	mg/L		23-JUN-20	R5130082
Bismuth (Bi)-Total	0.000010	<DL	0.000050	mg/L		23-JUN-20	R5130082
Boron (B)-Total	0.018	<T	0.010	mg/L		23-JUN-20	R5130082
Cadmium (Cd)-Total	0.0000282	<T	0.0000050	mg/L		23-JUN-20	R5130082
Calcium (Ca)-Total	27.4		0.050	mg/L		23-JUN-20	R5130082
Cesium (Cs)-Total	0.0000818		0.000010	mg/L		23-JUN-20	R5130082
Chromium (Cr)-Total	0.00124	<T	0.00050	mg/L		23-JUN-20	R5130082
Cobalt (Co)-Total	0.000600	<T	0.00010	mg/L		23-JUN-20	R5130082
Copper (Cu)-Total	0.00230	<T	0.00050	mg/L		23-JUN-20	R5130082
Iron (Fe)-Total	1.14		0.010	mg/L		23-JUN-20	R5130082
Lead (Pb)-Total	0.00052	<T	0.000050	mg/L		23-JUN-20	R5130082
Lithium (Li)-Total	0.0046	<T	0.0010	mg/L		23-JUN-20	R5130082
Magnesium (Mg)-Total	11.5		0.0050	mg/L		23-JUN-20	R5130082
Manganese (Mn)-Total	0.104		0.00050	mg/L		23-JUN-20	R5130082
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		24-JUN-20	R5131134
Molybdenum (Mo)-Total	0.000375	<T	0.000050	mg/L		23-JUN-20	R5130082
Nickel (Ni)-Total	0.00268	<T	0.00050	mg/L		23-JUN-20	R5130082
Phosphorus (P)-Total	0.050		0.050	mg/L		23-JUN-20	R5130082
Potassium (K)-Total	0.836		0.050	mg/L		23-JUN-20	R5130082
Rubidium (Rb)-Total	0.00259		0.00020	mg/L		23-JUN-20	R5130082
Selenium (Se)-Total	0.000238	<T	0.000050	mg/L		23-JUN-20	R5130082
Silicon (Si)-Total	4.19		0.10	mg/L		23-JUN-20	R5130082

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-13 SW24							
Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 10:10							
Matrix: Water							
Total Metals							
Silver (Ag)-Total	0.0000060	<DL	0.000050	mg/L		23-JUN-20	R5130082
Sodium (Na)-Total	3.57		0.050	mg/L		23-JUN-20	R5130082
Strontium (Sr)-Total	0.0610		0.0010	mg/L		23-JUN-20	R5130082
Sulfur (S)-Total	1.55		0.50	mg/L		23-JUN-20	R5130082
Tellurium (Te)-Total	0.000010	<DL	0.00020	mg/L		23-JUN-20	R5130082
Thallium (Tl)-Total	0.000011	<T	0.000010	mg/L		23-JUN-20	R5130082
Thorium (Th)-Total	0.000114		0.00010	mg/L		23-JUN-20	R5130082
Tin (Sn)-Total	0.00011		0.00010	mg/L		23-JUN-20	R5130082
Titanium (Ti)-Total	0.0185		0.00030	mg/L		23-JUN-20	R5130082
Tungsten (W)-Total	0.000012	<DL	0.00010	mg/L		23-JUN-20	R5130082
Uranium (U)-Total	0.000404	<T	0.000010	mg/L		23-JUN-20	R5130082
Vanadium (V)-Total	0.00252	<T	0.00050	mg/L		23-JUN-20	R5130082
Zinc (Zn)-Total	0.0044	<T	0.0030	mg/L		23-JUN-20	R5130082
Zirconium (Zr)-Total	0.000724		0.00020	mg/L		23-JUN-20	R5130082
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-JUN-20	R5129318
Aluminum (Al)-Dissolved	0.0676		0.0050	mg/L		24-JUN-20	R5131971
Antimony (Sb)-Dissolved	0.000055	<DL	0.00010	mg/L		24-JUN-20	R5131971
Arsenic (As)-Dissolved	0.00185	<T	0.00010	mg/L		24-JUN-20	R5131971
Barium (Ba)-Dissolved	0.0178		0.00010	mg/L		24-JUN-20	R5131971
Beryllium (Be)-Dissolved	0.000028	<DL	0.00010	mg/L		24-JUN-20	R5131971
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		24-JUN-20	R5131971
Boron (B)-Dissolved	0.016		0.010	mg/L		24-JUN-20	R5131971
Cadmium (Cd)-Dissolved	0.0000136	<T	0.0000050	mg/L		24-JUN-20	R5131971
Calcium (Ca)-Dissolved	28.2		0.050	mg/L		24-JUN-20	R5131971
Cesium (Cs)-Dissolved	0.0000008	<DL	0.000010	mg/L		24-JUN-20	R5131971
Chromium (Cr)-Dissolved	0.00026	<DL	0.00050	mg/L		24-JUN-20	R5131971
Cobalt (Co)-Dissolved	0.000258	<T	0.00010	mg/L		24-JUN-20	R5131971
Copper (Cu)-Dissolved	0.00140	<T	0.00020	mg/L		24-JUN-20	R5131971
Iron (Fe)-Dissolved	0.433		0.010	mg/L		24-JUN-20	R5131971
Lead (Pb)-Dissolved	0.00014	<T	0.000050	mg/L		24-JUN-20	R5131971
Lithium (Li)-Dissolved	0.0048	<T	0.0010	mg/L		24-JUN-20	R5131971
Magnesium (Mg)-Dissolved	11.0		0.0050	mg/L		24-JUN-20	R5131971
Manganese (Mn)-Dissolved	0.0772		0.00050	mg/L		24-JUN-20	R5131971
Mercury (Hg)-Dissolved	0.000005	<DL	0.000030	mg/L		22-JUN-20	R5127166
Molybdenum (Mo)-Dissolved	0.000400	<T	0.000050	mg/L		24-JUN-20	R5131971
Nickel (Ni)-Dissolved	0.00182	<T	0.00050	mg/L		24-JUN-20	R5131971
Phosphorus (P)-Dissolved	0.042	<DL	0.050	mg/L		24-JUN-20	R5131971
Potassium (K)-Dissolved	0.706		0.050	mg/L		24-JUN-20	R5131971
Rubidium (Rb)-Dissolved	0.00113		0.00020	mg/L		24-JUN-20	R5131971
Selenium (Se)-Dissolved	0.000252	<T	0.000050	mg/L		24-JUN-20	R5131971

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-13 SW24 Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 10:10 Matrix: Water							
Dissolved Metals							
Silicon (Si)-Dissolved	3.10		0.050	mg/L		24-JUN-20	R5131971
Silver (Ag)-Dissolved	0.0000015	<DL	0.000050	mg/L		24-JUN-20	R5131971
Sodium (Na)-Dissolved	3.39		0.050	mg/L		24-JUN-20	R5131971
Strontium (Sr)-Dissolved	0.0636		0.0010	mg/L		24-JUN-20	R5131971
Sulfur (S)-Dissolved	1.80		0.50	mg/L		24-JUN-20	R5131971
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		24-JUN-20	R5131971
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		24-JUN-20	R5131971
Thorium (Th)-Dissolved	0.000062	<DL	0.00010	mg/L		24-JUN-20	R5131971
Tin (Sn)-Dissolved	0.00005	<DL	0.00010	mg/L		24-JUN-20	R5131971
Titanium (Ti)-Dissolved	0.00198		0.00030	mg/L		24-JUN-20	R5131971
Tungsten (W)-Dissolved	0.000004	<DL	0.00010	mg/L		24-JUN-20	R5131971
Uranium (U)-Dissolved	0.000348	<T	0.000010	mg/L		24-JUN-20	R5131971
Vanadium (V)-Dissolved	0.00122	<T	0.00050	mg/L		24-JUN-20	R5131971
Zinc (Zn)-Dissolved	0.0032	<T	0.0010	mg/L		24-JUN-20	R5131971
Zirconium (Zr)-Dissolved	0.000532		0.00020	mg/L		24-JUN-20	R5131971
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-JUN-20	R5131341
COD	120		10	mg/L		25-JUN-20	R5132031
Oil and Grease, Total	0.6	<DL	1.0	mg/L	22-JUN-20	23-JUN-20	R5128438
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		03-JUL-20	R5142974
L2463184-14 SW25 Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 09:40 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	5.4		0	mg/L		22-JUN-20	R5126866
pH, Client Supplied	7.80		0.10	pH		25-JUN-20	R5131788
pH, Client Supplied	7.8		0.10	pH		22-JUN-20	R5126866
Temperature, Client	21.0		-50	Deg. C		25-JUN-20	R5131788
Temperature, Client Supplied	21.04		0	Degree C		22-JUN-20	R5126866
Physical Tests							
Color, True	68.5		2.0	CU		19-JUN-20	R5126169
Conductivity (EC)	282		1.0	uS/cm		20-JUN-20	R5126683
Hardness (as CaCO3)	145		0.50			19-JUN-20	
pH	8.14		0.10	pH		20-JUN-20	R5126683
Total Suspended Solids	5.5		3.0	mg/L		23-JUN-20	R5131004
Total Dissolved Solids	182		20	mg/L		23-JUN-20	R5131285
Turbidity	5.49		0.10	NTU		19-JUN-20	R5126303
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		23-JUN-20	R5129936
Alkalinity, Total (as CaCO3)	131		2.0	mg/L		20-JUN-20	R5126683
Unionized ammonia	<0.00064		0.00064	mg/L		25-JUN-20	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-14 SW25							
Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 09:40							
Matrix: Water							
Anions and Nutrients							
Ammonia, Total (as N)	0.016	<DL	0.020	mg/L		24-JUN-20	R5131677
Chloride (Cl)	12.7		0.10	mg/L		24-JUN-20	R5132207
Fluoride (F)	0.077		0.020	mg/L		24-JUN-20	R5132207
Nitrate (as N)	<0.002	<W	0.020	mg/L		24-JUN-20	R5132207
Nitrite (as N)	<0.001	<W	0.010	mg/L		24-JUN-20	R5132207
Total Kjeldahl Nitrogen	0.40		0.18	mg/L	23-JUN-20	24-JUN-20	R5131463
Orthophosphate-Dissolved (as P)	0.0038		0.0030	mg/L		22-JUN-20	R5127134
Phosphorus (P)-Total	0.0448	<T	0.0030	mg/L		25-JUN-20	R5131975
Sulfate (SO4)	8.25		0.30	mg/L		24-JUN-20	R5132207
Cyanides							
Cyanide, Weak Acid Diss	0.0011	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Total	0.0012	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Free	0.0011	<DL	0.0020	mg/L		23-JUN-20	R5128800
Organic / Inorganic Carbon							
Dissolved Organic Carbon	23.4	DLM	5.0	mg/L	20-JUN-20	29-JUN-20	R5135706
Total Organic Carbon	34.1	DLM	5.0	mg/L		25-JUN-20	R5131803
Total Metals							
Aluminum (Al)-Total	0.105		0.0050	mg/L		23-JUN-20	R5130082
Antimony (Sb)-Total	0.000095	<DL	0.00010	mg/L		23-JUN-20	R5130082
Arsenic (As)-Total	0.00129	<T	0.00010	mg/L		23-JUN-20	R5130082
Barium (Ba)-Total	0.0159		0.00010	mg/L		23-JUN-20	R5130082
Beryllium (Be)-Total	0.000014	<DL	0.00010	mg/L		23-JUN-20	R5130082
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		23-JUN-20	R5130082
Boron (B)-Total	0.014	<T	0.010	mg/L		23-JUN-20	R5130082
Cadmium (Cd)-Total	0.0000074	<T	0.0000050	mg/L		23-JUN-20	R5130082
Calcium (Ca)-Total	34.7		0.050	mg/L		23-JUN-20	R5130082
Cesium (Cs)-Total	0.0000176		0.000010	mg/L		23-JUN-20	R5130082
Chromium (Cr)-Total	0.00028	<DL	0.00050	mg/L		23-JUN-20	R5130082
Cobalt (Co)-Total	0.000300	<T	0.00010	mg/L		23-JUN-20	R5130082
Copper (Cu)-Total	0.00170	<T	0.00050	mg/L		23-JUN-20	R5130082
Iron (Fe)-Total	0.346		0.010	mg/L		23-JUN-20	R5130082
Lead (Pb)-Total	0.00010	<T	0.000050	mg/L		23-JUN-20	R5130082
Lithium (Li)-Total	0.0034	<T	0.0010	mg/L		23-JUN-20	R5130082
Magnesium (Mg)-Total	12.9		0.0050	mg/L		23-JUN-20	R5130082
Manganese (Mn)-Total	0.168		0.00050	mg/L		23-JUN-20	R5130082
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		24-JUN-20	R5131134
Molybdenum (Mo)-Total	0.000790	<T	0.000050	mg/L		23-JUN-20	R5130082
Nickel (Ni)-Total	0.00132	<T	0.00050	mg/L		23-JUN-20	R5130082
Phosphorus (P)-Total	0.038	<DL	0.050	mg/L		23-JUN-20	R5130082
Potassium (K)-Total	1.49		0.050	mg/L		23-JUN-20	R5130082
Rubidium (Rb)-Total	0.00166		0.00020	mg/L		23-JUN-20	R5130082
Selenium (Se)-Total	0.000154	<T	0.000050	mg/L		23-JUN-20	R5130082

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-14 SW25							
Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 09:40							
Matrix: Water							
Total Metals							
Silicon (Si)-Total	1.07		0.10	mg/L		23-JUN-20	R5130082
Silver (Ag)-Total	0.0000020	<DL	0.000050	mg/L		23-JUN-20	R5130082
Sodium (Na)-Total	6.14		0.050	mg/L		23-JUN-20	R5130082
Strontium (Sr)-Total	0.0712		0.0010	mg/L		23-JUN-20	R5130082
Sulfur (S)-Total	3.15		0.50	mg/L		23-JUN-20	R5130082
Tellurium (Te)-Total	0.000025	<DL	0.00020	mg/L		23-JUN-20	R5130082
Thallium (Tl)-Total	0.000004	<DL	0.000010	mg/L		23-JUN-20	R5130082
Thorium (Th)-Total	0.000022	<DL	0.00010	mg/L		23-JUN-20	R5130082
Tin (Sn)-Total	0.00042		0.00010	mg/L		23-JUN-20	R5130082
Titanium (Ti)-Total	0.00352		0.00030	mg/L		23-JUN-20	R5130082
Tungsten (W)-Total	0.000010	<DL	0.00010	mg/L		23-JUN-20	R5130082
Uranium (U)-Total	0.000842	<T	0.000010	mg/L		23-JUN-20	R5130082
Vanadium (V)-Total	0.00092	<T	0.00050	mg/L		23-JUN-20	R5130082
Zinc (Zn)-Total	0.0024	<DL	0.0030	mg/L		23-JUN-20	R5130082
Zirconium (Zr)-Total	0.000196	<DL	0.00020	mg/L		23-JUN-20	R5130082
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-JUN-20	R5129318
Aluminum (Al)-Dissolved	0.0048	<DL	0.0050	mg/L		24-JUN-20	R5131971
Antimony (Sb)-Dissolved	0.000090	<DL	0.00010	mg/L		24-JUN-20	R5131971
Arsenic (As)-Dissolved	0.00133	<T	0.00010	mg/L		24-JUN-20	R5131971
Barium (Ba)-Dissolved	0.0152		0.00010	mg/L		24-JUN-20	R5131971
Beryllium (Be)-Dissolved	0.000010	<DL	0.00010	mg/L		24-JUN-20	R5131971
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		24-JUN-20	R5131971
Boron (B)-Dissolved	0.014		0.010	mg/L		24-JUN-20	R5131971
Cadmium (Cd)-Dissolved	0.0000066	<T	0.0000050	mg/L		24-JUN-20	R5131971
Calcium (Ca)-Dissolved	36.5		0.050	mg/L		24-JUN-20	R5131971
Cesium (Cs)-Dissolved	0.0000022	<DL	0.000010	mg/L		24-JUN-20	R5131971
Chromium (Cr)-Dissolved	0.00012	<DL	0.00050	mg/L		24-JUN-20	R5131971
Cobalt (Co)-Dissolved	0.000228	<T	0.00010	mg/L		24-JUN-20	R5131971
Copper (Cu)-Dissolved	0.00135	<T	0.00020	mg/L		24-JUN-20	R5131971
Iron (Fe)-Dissolved	0.149		0.010	mg/L		24-JUN-20	R5131971
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		24-JUN-20	R5131971
Lithium (Li)-Dissolved	0.0038	<T	0.0010	mg/L		24-JUN-20	R5131971
Magnesium (Mg)-Dissolved	13.0		0.0050	mg/L		24-JUN-20	R5131971
Manganese (Mn)-Dissolved	0.149		0.00050	mg/L		24-JUN-20	R5131971
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		22-JUN-20	R5127166
Molybdenum (Mo)-Dissolved	0.000805	<T	0.000050	mg/L		24-JUN-20	R5131971
Nickel (Ni)-Dissolved	0.00114	<T	0.00050	mg/L		24-JUN-20	R5131971
Phosphorus (P)-Dissolved	0.032	<DL	0.050	mg/L		24-JUN-20	R5131971
Potassium (K)-Dissolved	1.50		0.050	mg/L		24-JUN-20	R5131971
Rubidium (Rb)-Dissolved	0.00142		0.00020	mg/L		24-JUN-20	R5131971

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-14 SW25 Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 09:40 Matrix: Water							
Dissolved Metals							
Selenium (Se)-Dissolved	0.000170	<T	0.000050	mg/L		24-JUN-20	R5131971
Silicon (Si)-Dissolved	0.886		0.050	mg/L		24-JUN-20	R5131971
Silver (Ag)-Dissolved	0.0000005	<DL	0.000050	mg/L		24-JUN-20	R5131971
Sodium (Na)-Dissolved	6.14		0.050	mg/L		24-JUN-20	R5131971
Strontium (Sr)-Dissolved	0.0775		0.0010	mg/L		24-JUN-20	R5131971
Sulfur (S)-Dissolved	3.35		0.50	mg/L		24-JUN-20	R5131971
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		24-JUN-20	R5131971
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		24-JUN-20	R5131971
Thorium (Th)-Dissolved	0.000018	<DL	0.00010	mg/L		24-JUN-20	R5131971
Tin (Sn)-Dissolved	0.00009	<DL	0.00010	mg/L		24-JUN-20	R5131971
Titanium (Ti)-Dissolved	0.00030		0.00030	mg/L		24-JUN-20	R5131971
Tungsten (W)-Dissolved	0.000008	<DL	0.00010	mg/L		24-JUN-20	R5131971
Uranium (U)-Dissolved	0.000807	<T	0.000010	mg/L		24-JUN-20	R5131971
Vanadium (V)-Dissolved	0.00060	<T	0.00050	mg/L		24-JUN-20	R5131971
Zinc (Zn)-Dissolved	0.0026	<T	0.0010	mg/L		24-JUN-20	R5131971
Zirconium (Zr)-Dissolved	0.000220	<T	0.00020	mg/L		24-JUN-20	R5131971
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-JUN-20	R5131341
COD	57		10	mg/L		25-JUN-20	R5132031
Oil and Grease, Total	0.6	<DL	1.0	mg/L	22-JUN-20	23-JUN-20	R5128438
L2463184-15 SW26 Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 10:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	6.13		0	mg/L		22-JUN-20	R5126866
pH, Client Supplied	7.97		0.10	pH		25-JUN-20	R5131788
pH, Client Supplied	7.97		0.10	pH		22-JUN-20	R5126866
Temperature, Client	21.4		-50	Deg. C		25-JUN-20	R5131788
Temperature, Client Supplied	21.43		0	Degree C		22-JUN-20	R5126866
Physical Tests							
Color, True	70.1		2.0	CU		19-JUN-20	R5126169
Conductivity (EC)	304		1.0	uS/cm		20-JUN-20	R5126683
Hardness (as CaCO3)	157		0.50			19-JUN-20	
pH	8.20		0.10	pH		20-JUN-20	R5126683
Total Suspended Solids	3.5		3.0	mg/L		23-JUN-20	R5131004
Total Dissolved Solids	196		20	mg/L		23-JUN-20	R5131285
Turbidity	6.20		0.10	NTU		19-JUN-20	R5126303
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		23-JUN-20	R5129936
Alkalinity, Total (as CaCO3)	144		2.0	mg/L		20-JUN-20	R5126683
Unionized ammonia	<0.00096		0.00096	mg/L		25-JUN-20	
Ammonia, Total (as N)	0.012	<DL	0.020	mg/L		24-JUN-20	R5131677

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-15 SW26 Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 10:00 Matrix: Water							
Anions and Nutrients							
Chloride (Cl)	13.1		0.10	mg/L		24-JUN-20	R5132207
Fluoride (F)	0.083		0.020	mg/L		24-JUN-20	R5132207
Nitrate (as N)	0.008	<DL	0.020	mg/L		24-JUN-20	R5132207
Nitrite (as N)	<0.001	<W	0.010	mg/L		24-JUN-20	R5132207
Total Kjeldahl Nitrogen	0.65		0.18	mg/L	23-JUN-20	24-JUN-20	R5131463
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		22-JUN-20	R5127134
Phosphorus (P)-Total	0.0403	<T	0.0030	mg/L		25-JUN-20	R5131975
Sulfate (SO4)	10.4		0.30	mg/L		24-JUN-20	R5132207
Cyanides							
Cyanide, Weak Acid Diss	0.0010	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Total	0.0010	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Free	0.0011	<DL	0.0020	mg/L		23-JUN-20	R5128800
Organic / Inorganic Carbon							
Dissolved Organic Carbon	26.9	DLM	5.0	mg/L	20-JUN-20	29-JUN-20	R5135706
Total Organic Carbon	32.3	DLM	5.0	mg/L		25-JUN-20	R5131803
Total Metals							
Aluminum (Al)-Total	0.201		0.0050	mg/L		26-JUN-20	R5134512
Antimony (Sb)-Total	0.000130	<T	0.00010	mg/L		26-JUN-20	R5134512
Arsenic (As)-Total	0.00154	<T	0.00010	mg/L		26-JUN-20	R5134512
Barium (Ba)-Total	0.0166		0.00010	mg/L		26-JUN-20	R5134512
Beryllium (Be)-Total	0.000018	<DL	0.00010	mg/L		26-JUN-20	R5134512
Bismuth (Bi)-Total	0.000005	<DL	0.000050	mg/L		26-JUN-20	R5134512
Boron (B)-Total	0.016	<T	0.010	mg/L		26-JUN-20	R5134512
Cadmium (Cd)-Total	0.0000066	<T	0.0000050	mg/L		26-JUN-20	R5134512
Calcium (Ca)-Total	38.9		0.050	mg/L		26-JUN-20	R5134512
Cesium (Cs)-Total	0.0000268		0.000010	mg/L		26-JUN-20	R5134512
Chromium (Cr)-Total	0.00038	<DL	0.00050	mg/L		26-JUN-20	R5134512
Cobalt (Co)-Total	0.000276	<T	0.00010	mg/L		26-JUN-20	R5134512
Copper (Cu)-Total	0.00190	<T	0.00050	mg/L		26-JUN-20	R5134512
Iron (Fe)-Total	0.376		0.010	mg/L		26-JUN-20	R5134512
Lead (Pb)-Total	0.00014	<T	0.000050	mg/L		26-JUN-20	R5134512
Lithium (Li)-Total	0.0044	<T	0.0010	mg/L		26-JUN-20	R5134512
Magnesium (Mg)-Total	13.7		0.0050	mg/L		26-JUN-20	R5134512
Manganese (Mn)-Total	0.0993		0.00050	mg/L		26-JUN-20	R5134512
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		24-JUN-20	R5131134
Molybdenum (Mo)-Total	0.000995	<T	0.000050	mg/L		26-JUN-20	R5134512
Nickel (Ni)-Total	0.00138	<T	0.00050	mg/L		26-JUN-20	R5134512
Phosphorus (P)-Total	0.038	<DL	0.050	mg/L		26-JUN-20	R5134512
Potassium (K)-Total	1.57		0.050	mg/L		26-JUN-20	R5134512
Rubidium (Rb)-Total	0.00173		0.00020	mg/L		26-JUN-20	R5134512
Selenium (Se)-Total	0.000176	<T	0.000050	mg/L		26-JUN-20	R5134512
Silicon (Si)-Total	1.30		0.10	mg/L		26-JUN-20	R5134512

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-15 SW26							
Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 10:00							
Matrix: Water							
Total Metals							
Silver (Ag)-Total	0.0000050	<DL	0.000050	mg/L		26-JUN-20	R5134512
Sodium (Na)-Total	6.05		0.050	mg/L		26-JUN-20	R5134512
Strontium (Sr)-Total	0.0865		0.0010	mg/L		26-JUN-20	R5134512
Sulfur (S)-Total	3.95		0.50	mg/L		26-JUN-20	R5134512
Tellurium (Te)-Total	0.000010	<DL	0.00020	mg/L		26-JUN-20	R5134512
Thallium (Tl)-Total	0.000006	<DL	0.000010	mg/L		26-JUN-20	R5134512
Thorium (Th)-Total	0.000038	<DL	0.00010	mg/L		26-JUN-20	R5134512
Tin (Sn)-Total	0.00004	<DL	0.00010	mg/L		26-JUN-20	R5134512
Titanium (Ti)-Total	0.00742		0.00030	mg/L		26-JUN-20	R5134512
Tungsten (W)-Total	0.000014	<DL	0.00010	mg/L		26-JUN-20	R5134512
Uranium (U)-Total	0.000955	<T	0.000010	mg/L		26-JUN-20	R5134512
Vanadium (V)-Total	0.00120	<T	0.00050	mg/L		26-JUN-20	R5134512
Zinc (Zn)-Total	0.0054	<T	0.0030	mg/L		26-JUN-20	R5134512
Zirconium (Zr)-Total	0.000432		0.00020	mg/L		26-JUN-20	R5134512
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-JUN-20	R5129318
Aluminum (Al)-Dissolved	0.0050	<T	0.0050	mg/L		25-JUN-20	R5131971
Antimony (Sb)-Dissolved	0.000105	<T	0.00010	mg/L		25-JUN-20	R5131971
Arsenic (As)-Dissolved	0.00157	<T	0.00010	mg/L		25-JUN-20	R5131971
Barium (Ba)-Dissolved	0.0160		0.00010	mg/L		25-JUN-20	R5131971
Beryllium (Be)-Dissolved	0.000008	<DL	0.00010	mg/L		25-JUN-20	R5131971
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		25-JUN-20	R5131971
Boron (B)-Dissolved	0.016		0.010	mg/L		25-JUN-20	R5131971
Cadmium (Cd)-Dissolved	0.0000058	<T	0.0000050	mg/L		25-JUN-20	R5131971
Calcium (Ca)-Dissolved	39.1		0.050	mg/L		25-JUN-20	R5131971
Cesium (Cs)-Dissolved	0.0000040	<DL	0.000010	mg/L		25-JUN-20	R5131971
Chromium (Cr)-Dissolved	0.00010	<DL	0.00050	mg/L		25-JUN-20	R5131971
Cobalt (Co)-Dissolved	0.000194	<T	0.00010	mg/L		25-JUN-20	R5131971
Copper (Cu)-Dissolved	0.00150	<T	0.00020	mg/L		25-JUN-20	R5131971
Iron (Fe)-Dissolved	0.111		0.010	mg/L		25-JUN-20	R5131971
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		25-JUN-20	R5131971
Lithium (Li)-Dissolved	0.0044	<T	0.0010	mg/L		25-JUN-20	R5131971
Magnesium (Mg)-Dissolved	14.3		0.0050	mg/L		25-JUN-20	R5131971
Manganese (Mn)-Dissolved	0.0866		0.00050	mg/L		25-JUN-20	R5131971
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		22-JUN-20	R5127166
Molybdenum (Mo)-Dissolved	0.000965	<T	0.000050	mg/L		25-JUN-20	R5131971
Nickel (Ni)-Dissolved	0.00128	<T	0.00050	mg/L		25-JUN-20	R5131971
Phosphorus (P)-Dissolved	0.038	<DL	0.050	mg/L		25-JUN-20	R5131971
Potassium (K)-Dissolved	1.64		0.050	mg/L		25-JUN-20	R5131971
Rubidium (Rb)-Dissolved	0.00159		0.00020	mg/L		25-JUN-20	R5131971
Selenium (Se)-Dissolved	0.000188	<T	0.000050	mg/L		25-JUN-20	R5131971

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-15 SW26 Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 10:00 Matrix: Water							
Dissolved Metals							
Silicon (Si)-Dissolved	0.898		0.050	mg/L		25-JUN-20	R5131971
Silver (Ag)-Dissolved	<0.0000005	<W	0.000050	mg/L		25-JUN-20	R5131971
Sodium (Na)-Dissolved	6.51		0.050	mg/L		25-JUN-20	R5131971
Strontium (Sr)-Dissolved	0.0886		0.0010	mg/L		25-JUN-20	R5131971
Sulfur (S)-Dissolved	3.95		0.50	mg/L		25-JUN-20	R5131971
Tellurium (Te)-Dissolved	0.000010	<DL	0.00020	mg/L		25-JUN-20	R5131971
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		25-JUN-20	R5131971
Thorium (Th)-Dissolved	0.000018	<DL	0.00010	mg/L		25-JUN-20	R5131971
Tin (Sn)-Dissolved	0.00005	<DL	0.00010	mg/L		25-JUN-20	R5131971
Titanium (Ti)-Dissolved	0.00040		0.00030	mg/L		25-JUN-20	R5131971
Tungsten (W)-Dissolved	0.000008	<DL	0.00010	mg/L		25-JUN-20	R5131971
Uranium (U)-Dissolved	0.000839	<T	0.000010	mg/L		25-JUN-20	R5131971
Vanadium (V)-Dissolved	0.00068	<T	0.00050	mg/L		25-JUN-20	R5131971
Zinc (Zn)-Dissolved	0.0062	<T	0.0010	mg/L		25-JUN-20	R5131971
Zirconium (Zr)-Dissolved	0.000232	<T	0.00020	mg/L		25-JUN-20	R5131971
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-JUN-20	R5131341
COD	56		10	mg/L		25-JUN-20	R5132031
Oil and Grease, Total	0.4	<DL	1.0	mg/L	22-JUN-20	23-JUN-20	R5128438
L2463184-16 SW27 Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 00:20 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	5.64		0	mg/L		22-JUN-20	R5126866
pH, Client Supplied	7.72		0.10	pH		25-JUN-20	R5131788
pH, Client Supplied	7.72		0.10	pH		22-JUN-20	R5126866
Temperature, Client	23.0		-50	Deg. C		25-JUN-20	R5131788
Temperature, Client Supplied	22.95		0	Degree C		22-JUN-20	R5126866
Physical Tests							
Color, True	68.4		2.0	CU		19-JUN-20	R5126169
Conductivity (EC)	338		1.0	uS/cm		20-JUN-20	R5126683
Hardness (as CaCO3)	179		0.50			19-JUN-20	
pH	8.16		0.10	pH		20-JUN-20	R5126683
Total Suspended Solids	4.5		3.0	mg/L		23-JUN-20	R5131004
Total Dissolved Solids	210		20	mg/L		23-JUN-20	R5131285
Turbidity	4.35		0.10	NTU		19-JUN-20	R5126303
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		23-JUN-20	R5129936
Alkalinity, Total (as CaCO3)	165		2.0	mg/L		20-JUN-20	R5126683
Unionized ammonia	<0.00061		0.00061	mg/L		25-JUN-20	
Ammonia, Total (as N)	0.012	<DL	0.020	mg/L		24-JUN-20	R5131677
Chloride (Cl)	10.9		0.10	mg/L		24-JUN-20	R5132207

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-16 SW27							
Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 00:20							
Matrix: Water							
Anions and Nutrients							
Fluoride (F)	0.089		0.020	mg/L		24-JUN-20	R5132207
Nitrate (as N)	<0.002	<W	0.020	mg/L		24-JUN-20	R5132207
Nitrite (as N)	<0.001	<W	0.010	mg/L		24-JUN-20	R5132207
Total Kjeldahl Nitrogen	0.85		0.18	mg/L	23-JUN-20	24-JUN-20	R5131463
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		22-JUN-20	R5127131
Phosphorus (P)-Total	0.0395	<T	0.0030	mg/L		25-JUN-20	R5131975
Sulfate (SO4)	13.9		0.30	mg/L		24-JUN-20	R5132207
Cyanides							
Cyanide, Weak Acid Diss	0.0012	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Total	0.0012	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Free	0.0012	<DL	0.0020	mg/L		23-JUN-20	R5128800
Organic / Inorganic Carbon							
Dissolved Organic Carbon	26.5	DLM	5.0	mg/L	20-JUN-20	29-JUN-20	R5135706
Total Organic Carbon	31.2	DLM	5.0	mg/L		25-JUN-20	R5131803
Total Metals							
Aluminum (Al)-Total	0.0978		0.0050	mg/L		24-JUN-20	R5130082
Antimony (Sb)-Total	0.000115	<T	0.00010	mg/L		23-JUN-20	R5130082
Arsenic (As)-Total	0.00145	<T	0.00010	mg/L		24-JUN-20	R5130082
Barium (Ba)-Total	0.0184		0.00010	mg/L		24-JUN-20	R5130082
Beryllium (Be)-Total	0.000012	<DL	0.00010	mg/L		23-JUN-20	R5130082
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		23-JUN-20	R5130082
Boron (B)-Total	0.018	<T	0.010	mg/L		23-JUN-20	R5130082
Cadmium (Cd)-Total	0.0000088	<T	0.000050	mg/L		24-JUN-20	R5130082
Calcium (Ca)-Total	42.1		0.050	mg/L		23-JUN-20	R5130082
Cesium (Cs)-Total	0.0000126		0.000010	mg/L		23-JUN-20	R5130082
Chromium (Cr)-Total	0.00026	<DL	0.00050	mg/L		24-JUN-20	R5130082
Cobalt (Co)-Total	0.000234	<T	0.00010	mg/L		24-JUN-20	R5130082
Copper (Cu)-Total	0.00160	<T	0.00050	mg/L		24-JUN-20	R5130082
Iron (Fe)-Total	0.276		0.010	mg/L		24-JUN-20	R5130082
Lead (Pb)-Total	0.00010	<T	0.000050	mg/L		23-JUN-20	R5130082
Lithium (Li)-Total	0.0054	<T	0.0010	mg/L		23-JUN-20	R5130082
Magnesium (Mg)-Total	15.9		0.0050	mg/L		24-JUN-20	R5130082
Manganese (Mn)-Total	0.0828		0.00050	mg/L		24-JUN-20	R5130082
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		24-JUN-20	R5131134
Molybdenum (Mo)-Total	0.000835	<T	0.000050	mg/L		23-JUN-20	R5130082
Nickel (Ni)-Total	0.00142	<T	0.00050	mg/L		24-JUN-20	R5130082
Phosphorus (P)-Total	0.042	<DL	0.050	mg/L		24-JUN-20	R5130082
Potassium (K)-Total	1.40		0.050	mg/L		24-JUN-20	R5130082
Rubidium (Rb)-Total	0.00164		0.00020	mg/L		24-JUN-20	R5130082
Selenium (Se)-Total	0.000170	<T	0.000050	mg/L		23-JUN-20	R5130082
Silicon (Si)-Total	1.44		0.10	mg/L		23-JUN-20	R5130082
Silver (Ag)-Total	0.0000015	<DL	0.000050	mg/L		23-JUN-20	R5130082

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-16 SW27							
Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 00:20							
Matrix: Water							
Total Metals							
Sodium (Na)-Total	6.70		0.050	mg/L		24-JUN-20	R5130082
Strontium (Sr)-Total	0.0934		0.0010	mg/L		23-JUN-20	R5130082
Sulfur (S)-Total	5.25		0.50	mg/L		23-JUN-20	R5130082
Tellurium (Te)-Total	0.000020	<DL	0.00020	mg/L		23-JUN-20	R5130082
Thallium (Tl)-Total	0.000004	<DL	0.000010	mg/L		23-JUN-20	R5130082
Thorium (Th)-Total	0.000022	<DL	0.00010	mg/L		23-JUN-20	R5130082
Tin (Sn)-Total	0.00011		0.00010	mg/L		24-JUN-20	R5130082
Titanium (Ti)-Total	0.00348		0.00030	mg/L		24-JUN-20	R5130082
Tungsten (W)-Total	0.000008	<DL	0.00010	mg/L		23-JUN-20	R5130082
Uranium (U)-Total	0.000964	<T	0.000010	mg/L		23-JUN-20	R5130082
Vanadium (V)-Total	0.00096	<T	0.00050	mg/L		24-JUN-20	R5130082
Zinc (Zn)-Total	0.0034	<T	0.0030	mg/L		24-JUN-20	R5130082
Zirconium (Zr)-Total	0.000204		0.00020	mg/L		23-JUN-20	R5130082
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-JUN-20	R5129318
Aluminum (Al)-Dissolved	0.0036	<DL	0.0050	mg/L		24-JUN-20	R5131971
Antimony (Sb)-Dissolved	0.000105	<T	0.00010	mg/L		24-JUN-20	R5131971
Arsenic (As)-Dissolved	0.00140	<T	0.00010	mg/L		24-JUN-20	R5131971
Barium (Ba)-Dissolved	0.0181		0.00010	mg/L		24-JUN-20	R5131971
Beryllium (Be)-Dissolved	0.000010	<DL	0.00010	mg/L		24-JUN-20	R5131971
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		24-JUN-20	R5131971
Boron (B)-Dissolved	0.018		0.010	mg/L		24-JUN-20	R5131971
Cadmium (Cd)-Dissolved	0.0000066	<T	0.0000050	mg/L		24-JUN-20	R5131971
Calcium (Ca)-Dissolved	44.3		0.050	mg/L		24-JUN-20	R5131971
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		24-JUN-20	R5131971
Chromium (Cr)-Dissolved	0.00012	<DL	0.00050	mg/L		24-JUN-20	R5131971
Cobalt (Co)-Dissolved	0.000166	<T	0.00010	mg/L		24-JUN-20	R5131971
Copper (Cu)-Dissolved	0.00135	<T	0.00020	mg/L		24-JUN-20	R5131971
Iron (Fe)-Dissolved	0.100		0.010	mg/L		24-JUN-20	R5131971
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		24-JUN-20	R5131971
Lithium (Li)-Dissolved	0.0060	<T	0.0010	mg/L		24-JUN-20	R5131971
Magnesium (Mg)-Dissolved	16.7		0.0050	mg/L		24-JUN-20	R5131971
Manganese (Mn)-Dissolved	0.0649		0.00050	mg/L		24-JUN-20	R5131971
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		22-JUN-20	R5127166
Molybdenum (Mo)-Dissolved	0.000865	<T	0.000050	mg/L		24-JUN-20	R5131971
Nickel (Ni)-Dissolved	0.00132	<T	0.00050	mg/L		24-JUN-20	R5131971
Phosphorus (P)-Dissolved	0.028	<DL	0.050	mg/L		24-JUN-20	R5131971
Potassium (K)-Dissolved	1.44		0.050	mg/L		24-JUN-20	R5131971
Rubidium (Rb)-Dissolved	0.00131		0.00020	mg/L		24-JUN-20	R5131971
Selenium (Se)-Dissolved	0.000196	<T	0.000050	mg/L		24-JUN-20	R5131971
Silicon (Si)-Dissolved	1.20		0.050	mg/L		24-JUN-20	R5131971

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-16 SW27 Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 00:20 Matrix: Water							
Dissolved Metals							
Silver (Ag)-Dissolved	0.0000005	<DL	0.000050	mg/L		24-JUN-20	R5131971
Sodium (Na)-Dissolved	6.96		0.050	mg/L		24-JUN-20	R5131971
Strontium (Sr)-Dissolved	0.0997		0.0010	mg/L		24-JUN-20	R5131971
Sulfur (S)-Dissolved	5.70		0.50	mg/L		24-JUN-20	R5131971
Tellurium (Te)-Dissolved	0.000015	<DL	0.00020	mg/L		24-JUN-20	R5131971
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		24-JUN-20	R5131971
Thorium (Th)-Dissolved	0.000016	<DL	0.00010	mg/L		24-JUN-20	R5131971
Tin (Sn)-Dissolved	0.00011		0.00010	mg/L		24-JUN-20	R5131971
Titanium (Ti)-Dissolved	0.00038		0.00030	mg/L		24-JUN-20	R5131971
Tungsten (W)-Dissolved	0.000006	<DL	0.00010	mg/L		24-JUN-20	R5131971
Uranium (U)-Dissolved	0.000906	<T	0.000010	mg/L		24-JUN-20	R5131971
Vanadium (V)-Dissolved	0.00068	<T	0.00050	mg/L		24-JUN-20	R5131971
Zinc (Zn)-Dissolved	0.0044	<T	0.0010	mg/L		24-JUN-20	R5131971
Zirconium (Zr)-Dissolved	0.000236	<T	0.00020	mg/L		24-JUN-20	R5131971
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-JUN-20	R5131341
COD	53		10	mg/L		25-JUN-20	R5132031
Oil and Grease, Total	0.4	<DL	1.0	mg/L	22-JUN-20	23-JUN-20	R5128438
L2463184-17 SW28A Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 09:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	7.84		0	mg/L		22-JUN-20	R5126866
pH, Client Supplied	7.90		0.10	pH		25-JUN-20	R5131788
pH, Client Supplied	7.9		0.10	pH		22-JUN-20	R5126866
Temperature, Client	20.5		-50	Deg. C		25-JUN-20	R5131788
Temperature, Client Supplied	20.46		0	Degree C		22-JUN-20	R5126866
Physical Tests							
Color, True	129		2.0	CU		19-JUN-20	R5126169
Conductivity (EC)	212		1.0	uS/cm		20-JUN-20	R5126683
Hardness (as CaCO3)	124		0.50			19-JUN-20	
pH	8.10		0.10	pH		20-JUN-20	R5126683
Total Suspended Solids	17.0		3.0	mg/L		23-JUN-20	R5131004
Total Dissolved Solids	162		20	mg/L		23-JUN-20	R5131285
Turbidity	12.1		0.10	NTU		19-JUN-20	R5126303
Anions and Nutrients							
Acidity (as CaCO3)	0.8	<DL	2.0	mg/L		23-JUN-20	R5129936
Alkalinity, Total (as CaCO3)	117		2.0	mg/L		20-JUN-20	R5126683
Unionized ammonia	0.00087		0.00077	mg/L		25-JUN-20	
Ammonia, Total (as N)	0.022	<T	0.020	mg/L		24-JUN-20	R5131677
Chloride (Cl)	2.04		0.10	mg/L		24-JUN-20	R5132207
Fluoride (F)	0.070		0.020	mg/L		24-JUN-20	R5132207

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-17 SW28A							
Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 09:00							
Matrix: Water							
Anions and Nutrients							
Nitrate (as N)	0.036	<T	0.020	mg/L		24-JUN-20	R5132207
Nitrite (as N)	<0.001	<W	0.010	mg/L		24-JUN-20	R5132207
Total Kjeldahl Nitrogen	1.25		0.18	mg/L	23-JUN-20	24-JUN-20	R5131463
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		22-JUN-20	R5127131
Phosphorus (P)-Total	0.0380	<T	0.0030	mg/L		25-JUN-20	R5131975
Sulfate (SO4)	1.45	<T	0.30	mg/L		24-JUN-20	R5132207
Cyanides							
Cyanide, Weak Acid Diss	0.0015	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Total	0.0014	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Free	0.0008	<DL	0.0020	mg/L		23-JUN-20	R5128800
Organic / Inorganic Carbon							
Dissolved Organic Carbon	32.8	DLM	5.0	mg/L	20-JUN-20	29-JUN-20	R5135706
Total Organic Carbon	47.9	DLM	5.0	mg/L		25-JUN-20	R5131803
Total Metals							
Aluminum (Al)-Total	0.393		0.0050	mg/L		23-JUN-20	R5130082
Antimony (Sb)-Total	0.000045	<DL	0.00010	mg/L		23-JUN-20	R5130082
Arsenic (As)-Total	0.00126	<T	0.00010	mg/L		23-JUN-20	R5130082
Barium (Ba)-Total	0.0192		0.00010	mg/L		23-JUN-20	R5130082
Beryllium (Be)-Total	0.000032	<DL	0.00010	mg/L		23-JUN-20	R5130082
Bismuth (Bi)-Total	0.000005	<DL	0.000050	mg/L		23-JUN-20	R5130082
Boron (B)-Total	0.016	<T	0.010	mg/L		23-JUN-20	R5130082
Cadmium (Cd)-Total	0.0000210	<T	0.000050	mg/L		23-JUN-20	R5130082
Calcium (Ca)-Total	28.1		0.050	mg/L		23-JUN-20	R5130082
Cesium (Cs)-Total	0.0000582		0.000010	mg/L		23-JUN-20	R5130082
Chromium (Cr)-Total	0.00080	<T	0.00050	mg/L		23-JUN-20	R5130082
Cobalt (Co)-Total	0.000370	<T	0.00010	mg/L		23-JUN-20	R5130082
Copper (Cu)-Total	0.00135	<T	0.00050	mg/L		23-JUN-20	R5130082
Iron (Fe)-Total	0.668		0.010	mg/L		23-JUN-20	R5130082
Lead (Pb)-Total	0.00028	<T	0.000050	mg/L		23-JUN-20	R5130082
Lithium (Li)-Total	0.0046	<T	0.0010	mg/L		23-JUN-20	R5130082
Magnesium (Mg)-Total	13.2		0.0050	mg/L		23-JUN-20	R5130082
Manganese (Mn)-Total	0.0494		0.00050	mg/L		23-JUN-20	R5130082
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		24-JUN-20	R5131134
Molybdenum (Mo)-Total	0.000605	<T	0.000050	mg/L		23-JUN-20	R5130082
Nickel (Ni)-Total	0.00162	<T	0.00050	mg/L		23-JUN-20	R5130082
Phosphorus (P)-Total	0.032	<DL	0.050	mg/L		23-JUN-20	R5130082
Potassium (K)-Total	0.768		0.050	mg/L		23-JUN-20	R5130082
Rubidium (Rb)-Total	0.00265		0.00020	mg/L		23-JUN-20	R5130082
Selenium (Se)-Total	0.000172	<T	0.000050	mg/L		23-JUN-20	R5130082
Silicon (Si)-Total	2.30		0.10	mg/L		23-JUN-20	R5130082
Silver (Ag)-Total	0.0000040	<DL	0.000050	mg/L		23-JUN-20	R5130082
Sodium (Na)-Total	1.73		0.050	mg/L		23-JUN-20	R5130082

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-17 SW28A							
Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 09:00							
Matrix: Water							
Total Metals							
Strontium (Sr)-Total	0.0688		0.0010	mg/L		23-JUN-20	R5130082
Sulfur (S)-Total	0.95		0.50	mg/L		23-JUN-20	R5130082
Tellurium (Te)-Total	0.000020	<DL	0.00020	mg/L		23-JUN-20	R5130082
Thallium (Tl)-Total	0.000009	<DL	0.000010	mg/L		23-JUN-20	R5130082
Thorium (Th)-Total	0.000050	<DL	0.00010	mg/L		23-JUN-20	R5130082
Tin (Sn)-Total	0.00014		0.00010	mg/L		23-JUN-20	R5130082
Titanium (Ti)-Total	0.0108		0.00030	mg/L		23-JUN-20	R5130082
Tungsten (W)-Total	0.000004	<DL	0.00010	mg/L		23-JUN-20	R5130082
Uranium (U)-Total	0.000473	<T	0.000010	mg/L		23-JUN-20	R5130082
Vanadium (V)-Total	0.00174	<T	0.00050	mg/L		23-JUN-20	R5130082
Zinc (Zn)-Total	0.0030	<T	0.0030	mg/L		23-JUN-20	R5130082
Zirconium (Zr)-Total	0.000420		0.00020	mg/L		23-JUN-20	R5130082
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-JUN-20	R5129318
Aluminum (Al)-Dissolved	0.0080	<T	0.0050	mg/L		24-JUN-20	R5131971
Antimony (Sb)-Dissolved	0.000035	<DL	0.00010	mg/L		24-JUN-20	R5131971
Arsenic (As)-Dissolved	0.00117	<T	0.00010	mg/L		24-JUN-20	R5131971
Barium (Ba)-Dissolved	0.0162		0.00010	mg/L		24-JUN-20	R5131971
Beryllium (Be)-Dissolved	0.000012	<DL	0.00010	mg/L		24-JUN-20	R5131971
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		24-JUN-20	R5131971
Boron (B)-Dissolved	0.016		0.010	mg/L		24-JUN-20	R5131971
Cadmium (Cd)-Dissolved	0.0000094	<T	0.0000050	mg/L		24-JUN-20	R5131971
Calcium (Ca)-Dissolved	28.5		0.050	mg/L		24-JUN-20	R5131971
Cesium (Cs)-Dissolved	0.0000004	<DL	0.000010	mg/L		24-JUN-20	R5131971
Chromium (Cr)-Dissolved	0.00016	<DL	0.00050	mg/L		24-JUN-20	R5131971
Cobalt (Co)-Dissolved	0.000150	<T	0.00010	mg/L		24-JUN-20	R5131971
Copper (Cu)-Dissolved	0.00075	<T	0.00020	mg/L		24-JUN-20	R5131971
Iron (Fe)-Dissolved	0.193		0.010	mg/L		24-JUN-20	R5131971
Lead (Pb)-Dissolved	0.00006	<T	0.000050	mg/L		24-JUN-20	R5131971
Lithium (Li)-Dissolved	0.0046	<T	0.0010	mg/L		24-JUN-20	R5131971
Magnesium (Mg)-Dissolved	13.0		0.0050	mg/L		24-JUN-20	R5131971
Manganese (Mn)-Dissolved	0.0247		0.00050	mg/L		24-JUN-20	R5131971
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		22-JUN-20	R5127166
Molybdenum (Mo)-Dissolved	0.000605	<T	0.000050	mg/L		24-JUN-20	R5131971
Nickel (Ni)-Dissolved	0.00110	<T	0.00050	mg/L		24-JUN-20	R5131971
Phosphorus (P)-Dissolved	0.010	<DL	0.050	mg/L		24-JUN-20	R5131971
Potassium (K)-Dissolved	0.668		0.050	mg/L		24-JUN-20	R5131971
Rubidium (Rb)-Dissolved	0.00134		0.00020	mg/L		24-JUN-20	R5131971
Selenium (Se)-Dissolved	0.000198	<T	0.000050	mg/L		24-JUN-20	R5131971
Silicon (Si)-Dissolved	1.53		0.050	mg/L		24-JUN-20	R5131971
Silver (Ag)-Dissolved	<0.0000005	<W	0.000050	mg/L		24-JUN-20	R5131971

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-17 SW28A Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 09:00 Matrix: Water							
Dissolved Metals							
Sodium (Na)-Dissolved	1.67		0.050	mg/L		24-JUN-20	R5131971
Strontium (Sr)-Dissolved	0.0717		0.0010	mg/L		24-JUN-20	R5131971
Sulfur (S)-Dissolved	1.05		0.50	mg/L		24-JUN-20	R5131971
Tellurium (Te)-Dissolved	0.000010	<DL	0.00020	mg/L		24-JUN-20	R5131971
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		24-JUN-20	R5131971
Thorium (Th)-Dissolved	0.000028	<DL	0.00010	mg/L		24-JUN-20	R5131971
Tin (Sn)-Dissolved	0.00010		0.00010	mg/L		24-JUN-20	R5131971
Titanium (Ti)-Dissolved	0.00052		0.00030	mg/L		24-JUN-20	R5131971
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		24-JUN-20	R5131971
Uranium (U)-Dissolved	0.000420	<T	0.000010	mg/L		24-JUN-20	R5131971
Vanadium (V)-Dissolved	0.00066	<T	0.00050	mg/L		24-JUN-20	R5131971
Zinc (Zn)-Dissolved	0.0018	<T	0.0010	mg/L		24-JUN-20	R5131971
Zirconium (Zr)-Dissolved	0.000232	<T	0.00020	mg/L		24-JUN-20	R5131971
Aggregate Organics							
Biochemical Oxygen Demand	2.1		2.0	mg/L		19-JUN-20	R5131341
COD	92		10	mg/L		25-JUN-20	R5132031
Oil and Grease, Total	0.8	<DL	1.0	mg/L	22-JUN-20	23-JUN-20	R5128438
L2463184-18 TRAVEL BLANK - SURFACE WATER Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 09:00 Matrix: Water							
Physical Tests							
Color, True	<2.0		2.0	CU		19-JUN-20	R5126169
Conductivity (EC)	<0.2	<W	1.0	uS/cm		20-JUN-20	R5126683
Hardness (as CaCO3)	<0.50		0.50			19-JUN-20	
pH	5.48		0.10	pH		20-JUN-20	R5126683
Total Suspended Solids	1.5	<DL	3.0	mg/L		23-JUN-20	R5131004
Total Dissolved Solids	6	<DL	10	mg/L		23-JUN-20	R5131285
Turbidity	<0.10		0.10	NTU		19-JUN-20	R5126303
Anions and Nutrients							
Acidity (as CaCO3)	0.4	<DL	2.0	mg/L		23-JUN-20	R5129936
Alkalinity, Total (as CaCO3)	<0.2	<W	2.0	mg/L		20-JUN-20	R5126683
Ammonia, Total (as N)	0.004	<DL	0.020	mg/L		24-JUN-20	R5131677
Chloride (Cl)	<0.10		0.10	mg/L		24-JUN-20	R5132207
Fluoride (F)	<0.020		0.020	mg/L		24-JUN-20	R5132207
Nitrate (as N)	0.002	<DL	0.020	mg/L		24-JUN-20	R5132207
Nitrite (as N)	<0.001	<W	0.010	mg/L		24-JUN-20	R5132207
Total Kjeldahl Nitrogen	<0.05	<W	0.18	mg/L	23-JUN-20	24-JUN-20	R5131463
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L		22-JUN-20	R5127131
Phosphorus (P)-Total	<0.0001	<W	0.0030	mg/L		25-JUN-20	R5131975
Sulfate (SO4)	<0.05	<W	0.30	mg/L		24-JUN-20	R5132207
Cyanides							
Cyanide, Weak Acid Diss	0.0003	<DL	0.0020	mg/L		23-JUN-20	R5128800

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-18 TRAVEL BLANK - SURFACE WATER Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 09:00 Matrix: Water							
Cyanides							
Cyanide, Total	0.0004	<DL	0.0020	mg/L		23-JUN-20	R5128800
Cyanide, Free	<0.0001	<W	0.0020	mg/L		23-JUN-20	R5128800
Organic / Inorganic Carbon							
Dissolved Organic Carbon	<0.50		0.50	mg/L	17-JUN-20	29-JUN-20	R5135706
Total Organic Carbon	<0.50		0.50	mg/L		25-JUN-20	R5131803
Total Metals							
Aluminum (Al)-Total	<0.0002	<W	0.0050	mg/L		23-JUN-20	R5130082
Antimony (Sb)-Total	<0.000005	<W	0.00010	mg/L		23-JUN-20	R5130082
Arsenic (As)-Total	0.000010	<DL	0.00010	mg/L		23-JUN-20	R5130082
Barium (Ba)-Total	<0.00002	<W	0.00010	mg/L		23-JUN-20	R5130082
Beryllium (Be)-Total	<0.000002	<W	0.00010	mg/L		23-JUN-20	R5130082
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		23-JUN-20	R5130082
Boron (B)-Total	<0.002	<W	0.010	mg/L		23-JUN-20	R5130082
Cadmium (Cd)-Total	0.0000004	<DL	0.0000050	mg/L		23-JUN-20	R5130082
Calcium (Ca)-Total	0.005	<DL	0.050	mg/L		23-JUN-20	R5130082
Cesium (Cs)-Total	<0.0000002	<W	0.000010	mg/L		23-JUN-20	R5130082
Chromium (Cr)-Total	0.00018	<DL	0.00050	mg/L		23-JUN-20	R5130082
Cobalt (Co)-Total	<0.000002	<W	0.00010	mg/L		23-JUN-20	R5130082
Copper (Cu)-Total	<0.00005	<W	0.00050	mg/L		23-JUN-20	R5130082
Iron (Fe)-Total	<0.001	<W	0.010	mg/L		23-JUN-20	R5130082
Lead (Pb)-Total	<0.00002	<W	0.000050	mg/L		23-JUN-20	R5130082
Lithium (Li)-Total	<0.0002	<W	0.0010	mg/L		23-JUN-20	R5130082
Magnesium (Mg)-Total	0.0005	<DL	0.0050	mg/L		23-JUN-20	R5130082
Manganese (Mn)-Total	0.00004	<DL	0.00050	mg/L		23-JUN-20	R5130082
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		24-JUN-20	R5131134
Molybdenum (Mo)-Total	<0.000005	<W	0.000050	mg/L		23-JUN-20	R5130082
Nickel (Ni)-Total	<0.00002	<W	0.00050	mg/L		23-JUN-20	R5130082
Phosphorus (P)-Total	0.010	<DL	0.050	mg/L		23-JUN-20	R5130082
Potassium (K)-Total	<0.002	<W	0.050	mg/L		23-JUN-20	R5130082
Rubidium (Rb)-Total	<0.000002	<W	0.00020	mg/L		23-JUN-20	R5130082
Selenium (Se)-Total	<0.000002	<W	0.000050	mg/L		23-JUN-20	R5130082
Silicon (Si)-Total	0.008	<DL	0.10	mg/L		23-JUN-20	R5130082
Silver (Ag)-Total	<0.0000005	<W	0.000050	mg/L		23-JUN-20	R5130082
Sodium (Na)-Total	<0.005	<W	0.050	mg/L		23-JUN-20	R5130082
Strontium (Sr)-Total	0.00001	<DL	0.0010	mg/L		23-JUN-20	R5130082
Sulfur (S)-Total	<0.05	<W	0.50	mg/L		23-JUN-20	R5130082
Tellurium (Te)-Total	<0.000005	<W	0.00020	mg/L		23-JUN-20	R5130082
Thallium (Tl)-Total	<0.000001	<W	0.000010	mg/L		23-JUN-20	R5130082
Thorium (Th)-Total	<0.000002	<W	0.00010	mg/L		23-JUN-20	R5130082
Tin (Sn)-Total	0.00002	<DL	0.00010	mg/L		23-JUN-20	R5130082
Titanium (Ti)-Total	0.00004	<DL	0.00030	mg/L		23-JUN-20	R5130082

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-18 TRAVEL BLANK - SURFACE WATER Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 09:00 Matrix: Water							
Total Metals							
Tungsten (W)-Total	<0.000002	<W	0.00010	mg/L		23-JUN-20	R5130082
Uranium (U)-Total	<0.0000005	<W	0.000010	mg/L		23-JUN-20	R5130082
Vanadium (V)-Total	<0.00002	<W	0.00050	mg/L		23-JUN-20	R5130082
Zinc (Zn)-Total	<0.0002	<W	0.0030	mg/L		23-JUN-20	R5130082
Zirconium (Zr)-Total	<0.000004	<W	0.00020	mg/L		23-JUN-20	R5130082
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-JUN-20	R5129318
Aluminum (Al)-Dissolved	<0.0002	<W	0.0050	mg/L		24-JUN-20	R5131971
Antimony (Sb)-Dissolved	<0.000005	<W	0.00010	mg/L		24-JUN-20	R5131971
Arsenic (As)-Dissolved	<0.000005	<W	0.00010	mg/L		24-JUN-20	R5131971
Barium (Ba)-Dissolved	<0.00002	<W	0.00010	mg/L		24-JUN-20	R5131971
Beryllium (Be)-Dissolved	<0.000002	<W	0.00010	mg/L		24-JUN-20	R5131971
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		24-JUN-20	R5131971
Boron (B)-Dissolved	<0.002	<W	0.010	mg/L		24-JUN-20	R5131971
Cadmium (Cd)-Dissolved	0.0000004	<DL	0.0000050	mg/L		24-JUN-20	R5131971
Calcium (Ca)-Dissolved	<0.005	<W	0.050	mg/L		24-JUN-20	R5131971
Cesium (Cs)-Dissolved	<0.0000002	<W	0.000010	mg/L		24-JUN-20	R5131971
Chromium (Cr)-Dissolved	0.00018	<DL	0.00050	mg/L		24-JUN-20	R5131971
Cobalt (Co)-Dissolved	<0.000002	<W	0.00010	mg/L		24-JUN-20	R5131971
Copper (Cu)-Dissolved	<0.00005	<W	0.00020	mg/L		24-JUN-20	R5131971
Iron (Fe)-Dissolved	<0.001	<W	0.010	mg/L		24-JUN-20	R5131971
Lead (Pb)-Dissolved	<0.00002	<W	0.000050	mg/L		24-JUN-20	R5131971
Lithium (Li)-Dissolved	<0.0002	<W	0.0010	mg/L		24-JUN-20	R5131971
Magnesium (Mg)-Dissolved	<0.0005	<W	0.0050	mg/L		24-JUN-20	R5131971
Manganese (Mn)-Dissolved	<0.00002	<W	0.00050	mg/L		24-JUN-20	R5131971
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		22-JUN-20	R5127166
Molybdenum (Mo)-Dissolved	<0.000005	<W	0.000050	mg/L		24-JUN-20	R5131971
Nickel (Ni)-Dissolved	<0.00002	<W	0.00050	mg/L		24-JUN-20	R5131971
Phosphorus (P)-Dissolved	<0.002	<W	0.050	mg/L		24-JUN-20	R5131971
Potassium (K)-Dissolved	<0.002	<W	0.050	mg/L		24-JUN-20	R5131971
Rubidium (Rb)-Dissolved	0.000002	<DL	0.00020	mg/L		24-JUN-20	R5131971
Selenium (Se)-Dissolved	0.000004	<DL	0.000050	mg/L		24-JUN-20	R5131971
Silicon (Si)-Dissolved	0.014	<DL	0.050	mg/L		24-JUN-20	R5131971
Silver (Ag)-Dissolved	<0.0000005	<W	0.000050	mg/L		24-JUN-20	R5131971
Sodium (Na)-Dissolved	<0.005	<W	0.050	mg/L		24-JUN-20	R5131971
Strontium (Sr)-Dissolved	<0.00001	<W	0.0010	mg/L		24-JUN-20	R5131971
Sulfur (S)-Dissolved	<0.05	<W	0.50	mg/L		24-JUN-20	R5131971
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		24-JUN-20	R5131971
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		24-JUN-20	R5131971
Thorium (Th)-Dissolved	<0.000002	<W	0.00010	mg/L		24-JUN-20	R5131971
Tin (Sn)-Dissolved	0.00002	<DL	0.00010	mg/L		24-JUN-20	R5131971

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2463184-18 TRAVEL BLANK - SURFACE WATER Sampled By: NB,AJ,GC,SJ on 17-JUN-20 @ 09:00 Matrix: Water							
Dissolved Metals							
Titanium (Ti)-Dissolved	<0.00002	<W	0.00030	mg/L		24-JUN-20	R5131971
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		24-JUN-20	R5131971
Uranium (U)-Dissolved	<0.0000005	<W	0.000010	mg/L		24-JUN-20	R5131971
Vanadium (V)-Dissolved	<0.00002	<W	0.00050	mg/L		24-JUN-20	R5131971
Zinc (Zn)-Dissolved	0.0010	<T	0.0010	mg/L		24-JUN-20	R5131971
Zirconium (Zr)-Dissolved	<0.000004	<W	0.00020	mg/L		24-JUN-20	R5131971
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-JUN-20	R5131341
COD	<10		10	mg/L		25-JUN-20	R5132031
Oil and Grease, Total	0.4	<DL	1.0	mg/L	22-JUN-20	23-JUN-20	R5128438

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
---------------------	-----------	-----------	-----------------------------

Sample Parameter Qualifier key listed:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.
PEHR	Parameter Exceeded Recommended Holding Time On Receipt: Proceed With Analysis As Requested.
PEHT	Parameter Exceeded Recommended Holding Time Prior to Analysis

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-MISA-TB	Effluent	Acidity (as CaCO ₃)	APHA 2310 B-POTENTIOMETRIC TITRATION
Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample.			
ALK-MISA-TB	Effluent	Alkalinity, Total (as CaCO ₃)	APHA 2320 B-Auto-Pot. Titration
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
BOD-TB	Water	Biochemical Oxygen Demand (BOD)	APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND
All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation.			
CL-L-IC-N-WT	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).			
CN-FREE-MISA-CFA-WT	Effluent	Free Cyanide by Continuous Flow Analyzer	ASTM D7237-10 (modified)
This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis.			
CN-T-MISA-CFA-WT	Effluent	Total Cyanide by CFA	ISO 14403-2:2012 (modified)
This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis.			
Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.			
CN-WAD-MISA-CFA-WT	Effluent	Weak Acid Dissociable Cyanide by CFA	APHA 4500-CN CYANIDE (modified)
This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.			
COD-T-WT	Water	Chemical Oxygen Demand	APHA 5220 D
This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.			
COLOUR-TB	Water	Colour, True	APHA 2120 C
True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard.			
DO-CLIENT-TB	Water	Dissolved Oxygen, Client Supplied	Result supplied by Client
DOC-WT	Effluent	Dissolved Organic Carbon for MISA	APHA 5310 B-Instrumental
EC-MISA-TB	Effluent	Conductivity (EC)	APHA 2510 B-ELECTRODE

Reference Information

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

EC-SCREEN-WT	Water	Conductivity Screen (Internal Use Only)	APHA 2510
--------------	-------	---	-----------

Qualitative analysis of conductivity where required during preparation of other tests - e.g. TDS, metals, etc.

ETL-NH3-UNION-CLI-WT	Water	Un-ionized ammonia	CALCULATION
----------------------	-------	--------------------	-------------

F-IC-N-WT	Water	Fluoride in Water by IC	EPA 300.1 (mod)
-----------	-------	-------------------------	-----------------

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Effluent	Hardness (as CaCO ₃)	CALCULATION
------------------	----------	----------------------------------	-------------

HG-DIS-WT	Effluent	Mercury (Hg)-Dissolved for MISA	SW846 7470A
-----------	----------	---------------------------------	-------------

HG-TOT-WT	Effluent	Mercury (Hg)-Total for MISA	SW846 7470A
-----------	----------	-----------------------------	-------------

MET-D-MISA-MS-WT	Effluent	Diss. Metals in Effluent by ICPMS (MISA)	EPA 200.8
------------------	----------	--	-----------

The concentration of metals determined on an filtered effluent sample for the MISA regulation. The samples are analyzed directly (undigested) by ICP-MS.

MET-T-MISA-MS-WT	Effluent	Total Metals by ICPMS	EPA 200.8
------------------	----------	-----------------------	-----------

The concentration of metals determined on an unfiltered effluent sample for the MISA regulation. The samples are digested in acid and analyzed by ICP-MS.

NH3-F-WT	Effluent	Ammonia, Total as N	J. ENVIRON. MONIT., 2005, 7, 37-42, RSC
----------	----------	---------------------	---

This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.

NO2-MISA-IC-WT	Effluent	Nitrite in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

NO3-MISA-IC-WT	Effluent	Nitrate in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

OGG-TOT-WT	Effluent	Oil and Grease, Total for MISA	APHA 5520 B-Hexane Gravimetric
------------	----------	--------------------------------	--------------------------------

P-T-MISA-COL-WT	Effluent	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)
-----------------	----------	---------------------------------------	--------------------------------

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

PH,TEMP-CLIENT-WT	Water	pH & Temperature	Results supplied by client
-------------------	-------	------------------	----------------------------

PH-CLIENT-TB	Water	pH	Result supplied by Client
--------------	-------	----	---------------------------

PH-MISA-TB	Effluent	pH	APHA 4500-H-ELECTRODE
------------	----------	----	-----------------------

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

PO4-DO-COL-WT	Water	Diss. Orthophosphate in Water by Colour	APHA 4500-P PHOSPHORUS
---------------	-------	---	------------------------

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Dissolved Orthophosphate is determined colourimetrically on a sample that has been lab or field filtered through a 0.45 micron membrane filter.

RA226-MMER-BE	Water	Radium 226	Radium Isotopes by Alpha Spectrometry
---------------	-------	------------	---------------------------------------

Determination of Gamma Emitting Radionuclides In Water and Solids by Gamma Spectrometry.

SO4-MISA-IC-WT	Effluent	Sulphate in Water by IC	EPA 300.1 (mod)
----------------	----------	-------------------------	-----------------

Reference Information

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

TDS-MISA-TB	Effluent	Total Dissolved Solids	APHA 2540 C (modified)
-------------	----------	------------------------	------------------------

Aqueous matrices are analyzed using gravimetry and evaporation

TEMP-CLIENT-TB	Water	Temperature	Result supplied by Client
----------------	-------	-------------	---------------------------

TKN-WT	Effluent	Total Kjeldahl Nitrogen for MISA	APHA 4500-N
--------	----------	----------------------------------	-------------

TOC-WT	Water	Total Organic Carbon	APHA 5310B
--------	-------	----------------------	------------

Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

TSS-MISA-TB	Effluent	Total Suspended Solids	APHA 2540 D (modified)
-------------	----------	------------------------	------------------------

Aqueous matrices are analyzed using gravimetry

TURBIDITY-TB	Water	Turbidity	APHA 2130 B-Nephelometer
--------------	-------	-----------	--------------------------

Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
BE	BECQUEREL LABORATORIES INC. - MISSISSAUGA, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2463184

Report Date: 15-JUL-20

Page 1 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BOD-TB		Water						
Batch	R5131341							
WG3345694-2	LCS							
Biochemical Oxygen Demand			85.2		%		85-115	19-JUN-20
WG3345694-6	LCS							
Biochemical Oxygen Demand			85.4		%		85-115	19-JUN-20
WG3345694-1	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	19-JUN-20
WG3345694-5	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	19-JUN-20
CL-L-IC-N-WT		Water						
Batch	R5132207							
WG3349413-4	DUP	WG3349413-3						
Chloride (Cl)		14.7	14.7		mg/L	0.0	25	24-JUN-20
WG3349413-9	DUP	WG3349413-8						
Chloride (Cl)		1.01	1.00		mg/L	0.3	25	24-JUN-20
WG3349413-2	LCS							
Chloride (Cl)			103.0		%		70-130	24-JUN-20
WG3349413-7	LCS							
Chloride (Cl)			103.1		%		70-130	24-JUN-20
WG3349413-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	24-JUN-20
WG3349413-6	MB							
Chloride (Cl)			<0.10		mg/L		0.1	24-JUN-20
WG3349413-10	MS	WG3349413-8						
Chloride (Cl)			99.1		%		70-130	24-JUN-20
WG3349413-5	MS	WG3349413-3						
Chloride (Cl)			104.9		%		70-130	24-JUN-20
COD-T-WT		Water						
Batch	R5132031							
WG3349691-3	DUP	L2462597-2						
COD		22	24		mg/L	4.8	20	25-JUN-20
WG3349691-2	LCS							
COD			104.4		%		85-115	25-JUN-20
WG3349691-1	MB							
COD			<10		mg/L		10	25-JUN-20
WG3349691-4	MS	L2462597-2						
COD			101.0		%		75-125	25-JUN-20
COLOUR-TB		Water						

Quality Control Report

Workorder: L2463184

Report Date: 15-JUL-20

Page 2 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
COLOUR-TB		Water						
Batch	R5126169							
WG3345981-3	DUP	L2463184-6						
Color, True		251	252		CU	0.6	20	19-JUN-20
WG3345981-2	LCS							
Color, True			100.3		%		85-115	19-JUN-20
WG3345981-1	MB							
Color, True			<2.0		CU		2	19-JUN-20
Batch	R5126257							
WG3345985-3	DUP	L2463247-11						
Color, True		<2.0	<2.0	RPD-NA	CU	N/A	20	19-JUN-20
WG3345985-2	LCS							
Color, True			94.0		%		85-115	19-JUN-20
WG3345985-1	MB							
Color, True			<2.0		CU		2	19-JUN-20
F-IC-N-WT		Water						
Batch	R5132207							
WG3349413-4	DUP	WG3349413-3						
Fluoride (F)		0.080	0.081		mg/L	0.5	20	24-JUN-20
WG3349413-9	DUP	WG3349413-8						
Fluoride (F)		0.120	0.121		mg/L	0.5	20	24-JUN-20
WG3349413-2	LCS							
Fluoride (F)			102.7		%		90-110	24-JUN-20
WG3349413-7	LCS							
Fluoride (F)			101.6		%		90-110	24-JUN-20
WG3349413-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	24-JUN-20
WG3349413-6	MB							
Fluoride (F)			<0.020		mg/L		0.02	24-JUN-20
WG3349413-10	MS	WG3349413-8						
Fluoride (F)			98.0		%		75-125	24-JUN-20
WG3349413-5	MS	WG3349413-3						
Fluoride (F)			102.5		%		75-125	24-JUN-20
PO4-DO-COL-WT		Water						
Batch	R5127131							
WG3346869-7	DUP	L2462442-3						
Orthophosphate-Dissolved (as P)		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	22-JUN-20
WG3346869-6	LCS							
Orthophosphate-Dissolved (as P)			95.9		%		80-120	22-JUN-20
WG3346869-5	MB							

Quality Control Report

Workorder: L2463184

Report Date: 15-JUL-20

Page 3 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PO4-DO-COL-WT								
	Water							
Batch	R5127131							
WG3346869-5	MB							
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	22-JUN-20
WG3346869-8	MS	L2462442-3						
Orthophosphate-Dissolved (as P)			98.0		%		70-130	22-JUN-20
Batch	R5127134							
WG3347148-3	DUP	L2462467-1						
Orthophosphate-Dissolved (as P)			<0.0030	RPD-NA	mg/L	N/A	20	22-JUN-20
WG3347148-2	LCS							
Orthophosphate-Dissolved (as P)			106.7		%		80-120	22-JUN-20
WG3347148-1	MB							
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	22-JUN-20
WG3347148-4	MS	L2462467-1						
Orthophosphate-Dissolved (as P)			85.2		%		70-130	22-JUN-20
TOC-WT								
	Water							
Batch	R5131803							
WG3347539-3	DUP	L2463184-18						
Total Organic Carbon			<0.50	RPD-NA	mg/L	N/A	20	25-JUN-20
WG3347539-2	LCS							
Total Organic Carbon			106.1		%		80-120	25-JUN-20
WG3347539-1	MB							
Total Organic Carbon			<0.50		mg/L		0.5	25-JUN-20
WG3347539-4	MS	L2463184-18						
Total Organic Carbon			105.1		%		70-130	25-JUN-20
TURBIDITY-TB								
	Water							
Batch	R5126303							
WG3346209-3	DUP	L2463184-6						
Turbidity			28.5		NTU	2.1	15	19-JUN-20
WG3346209-2	LCS							
Turbidity			99.5		%		85-115	19-JUN-20
WG3346209-1	MB							
Turbidity			<0.10		NTU		0.1	19-JUN-20
ACY-MISA-TB								
	Effluent							
Batch	R5129936							
WG3345992-3	DUP	L2463184-12						
Acidity (as CaCO3)			1.4	RPD-NA	mg/L	N/A	20	23-JUN-20
WG3345992-2	LCS							
Acidity (as CaCO3)			105.0		%		85-115	23-JUN-20

Quality Control Report

Workorder: L2463184

Report Date: 15-JUL-20

Page 4 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-MISA-TB		Effluent						
Batch	R5129936							
WG3345992-1	MB							
Acidity (as CaCO3)			0.8		mg/L		4	23-JUN-20
ALK-MISA-TB		Effluent						
Batch	R5126683							
WG3345967-2	LCS							
Alkalinity, Total (as CaCO3)			105.9		%		85-115	20-JUN-20
WG3345977-2	LCS							
Alkalinity, Total (as CaCO3)			106.3		%		85-115	20-JUN-20
WG3345967-1	MB							
Alkalinity, Total (as CaCO3)			0.4		mg/L		2	20-JUN-20
Alkalinity, Phenolphthalein			<0.2		mg/L		2	20-JUN-20
WG3345977-1	MB							
Alkalinity, Total (as CaCO3)			<0.2		mg/L		2	20-JUN-20
Alkalinity, Phenolphthalein			<0.2		mg/L		2	20-JUN-20
CN-FREE-MISA-CFA-WT		Effluent						
Batch	R5128800							
WG3347296-11	DUP	L2463184-2						
Cyanide, Free		0.0007	0.0010	RPD-NA	mg/L	N/A	20	23-JUN-20
WG3347296-7	DUP	L2463184-8						
Cyanide, Free		0.0008	0.0007	RPD-NA	mg/L	N/A	20	22-JUN-20
WG3347296-10	LCS							
Cyanide, Free			99.5		%		80-120	23-JUN-20
WG3347296-6	LCS							
Cyanide, Free			99.4		%		80-120	22-JUN-20
WG3347296-5	MB							
Cyanide, Free			0.0004		mg/L		0.002	22-JUN-20
WG3347296-9	MB							
Cyanide, Free			0.0002		mg/L		0.002	23-JUN-20
WG3347296-12	MS	L2463184-2						
Cyanide, Free			102.8		%		75-125	23-JUN-20
WG3347296-8	MS	L2463184-8						
Cyanide, Free			100.2		%		75-125	22-JUN-20
CN-T-MISA-CFA-WT		Effluent						

Quality Control Report

Workorder: L2463184

Report Date: 15-JUL-20

Page 5 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CN-T-MISA-CFA-WT		Effluent						
Batch	R5128800							
WG3347296-11	DUP	L2463184-2						
Cyanide, Total		0.0012	0.0012	RPD-NA	mg/L	N/A	20	23-JUN-20
WG3347296-7	DUP	L2463184-8						
Cyanide, Total		0.0008	0.0008	RPD-NA	mg/L	N/A	20	22-JUN-20
WG3347296-10	LCS							
Cyanide, Total			94.5		%		80-120	23-JUN-20
WG3347296-6	LCS							
Cyanide, Total			95.2		%		80-120	22-JUN-20
WG3347296-5	MB							
Cyanide, Total			<0.0002		mg/L		0.002	22-JUN-20
WG3347296-9	MB							
Cyanide, Total			<0.0002		mg/L		0.002	23-JUN-20
WG3347296-12	MS	L2463184-2						
Cyanide, Total			88.6		%		75-125	23-JUN-20
WG3347296-8	MS	L2463184-8						
Cyanide, Total			85.8		%		75-125	22-JUN-20
CN-WAD-MISA-CFA-WT		Effluent						
Batch	R5128800							
WG3347296-11	DUP	L2463184-2						
Cyanide, Weak Acid Diss		0.0012	0.0013	RPD-NA	mg/L	N/A	20	23-JUN-20
WG3347296-7	DUP	L2463184-8						
Cyanide, Weak Acid Diss		0.0010	0.0010	RPD-NA	mg/L	N/A	20	22-JUN-20
WG3347296-10	LCS							
Cyanide, Weak Acid Diss			100.9		%		80-120	23-JUN-20
WG3347296-6	LCS							
Cyanide, Weak Acid Diss			94.9		%		80-120	22-JUN-20
WG3347296-5	MB							
Cyanide, Weak Acid Diss			<0.0001		mg/L		0.002	22-JUN-20
WG3347296-9	MB							
Cyanide, Weak Acid Diss			<0.0001		mg/L		0.002	23-JUN-20
WG3347296-12	MS	L2463184-2						
Cyanide, Weak Acid Diss			96.6		%		75-125	23-JUN-20
WG3347296-8	MS	L2463184-8						
Cyanide, Weak Acid Diss			94.5		%		75-125	22-JUN-20

DOC-WT **Effluent**

Quality Control Report

Workorder: L2463184

Report Date: 15-JUL-20

Page 6 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DOC-WT		Effluent						
Batch	R5135706							
WG3346546-3	DUP	L2463184-2						
Dissolved Organic Carbon		28.7	26.6		mg/L	7.4	25	29-JUN-20
WG3346546-2	LCS							
Dissolved Organic Carbon			90.8		%		70-130	29-JUN-20
WG3346546-1	MB							
Dissolved Organic Carbon			<0.50		mg/L		0.5	29-JUN-20
EC-MISA-TB		Effluent						
Batch	R5126683							
WG3345967-2	LCS							
Conductivity (EC)			101.1		%		90-110	20-JUN-20
WG3345977-2	LCS							
Conductivity (EC)			99.3		%		90-110	20-JUN-20
WG3345967-1	MB							
Conductivity (EC)			1.0		uS/cm		2	20-JUN-20
WG3345977-1	MB							
Conductivity (EC)			1.2		uS/cm		2	20-JUN-20
HG-DIS-WT		Effluent						
Batch	R5127166							
WG3346957-3	DUP	L2463184-1						
Mercury (Hg)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	22-JUN-20
WG3346957-2	LCS							
Mercury (Hg)-Dissolved			98.6		%		80-120	22-JUN-20
WG3346957-1	MB							
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.00003	22-JUN-20
WG3346957-4	MS	L2463184-2						
Mercury (Hg)-Dissolved			105.2		%		70-130	22-JUN-20
HG-TOT-WT		Effluent						
Batch	R5127164							
WG3346955-3	DUP	L2462413-6						
Mercury (Hg)-Total		0.000010	0.000010	RPD-NA	mg/L	N/A	20	22-JUN-20
WG3346955-2	LCS							
Mercury (Hg)-Total			102.0		%		80-120	22-JUN-20
WG3346955-1	MB							
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	22-JUN-20
WG3346955-4	MS	L2462413-7						
Mercury (Hg)-Total			112.0		%		70-130	22-JUN-20

Quality Control Report

Workorder: L2463184

Report Date: 15-JUL-20

Page 7 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-TOT-WT		Effluent						
Batch	R5131134							
WG3348218-3	DUP	L2463184-10						
Mercury (Hg)-Total		0.000005	<0.000005	RPD-NA	mg/L	N/A	20	24-JUN-20
WG3348218-2	LCS							
Mercury (Hg)-Total			106.0		%		80-120	24-JUN-20
WG3348218-1	MB							
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	24-JUN-20
WG3348218-4	MS	L2463184-11						
Mercury (Hg)-Total			104.2		%		70-130	24-JUN-20
MET-D-MISA-MS-WT		Effluent						
Batch	R5131971							
WG3348084-4	DUP	WG3348084-3						
Aluminum (Al)-Dissolved		0.0006	0.0004	RPD-NA	mg/L	N/A	20	24-JUN-20
Antimony (Sb)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	24-JUN-20
Arsenic (As)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	24-JUN-20
Barium (Ba)-Dissolved		0.00004	0.00004	RPD-NA	mg/L	N/A	20	24-JUN-20
Beryllium (Be)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	24-JUN-20
Bismuth (Bi)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	24-JUN-20
Boron (B)-Dissolved		<0.002	<0.002	RPD-NA	mg/L	N/A	20	24-JUN-20
Cadmium (Cd)-Dissolved		0.0000018	0.0000032	RPD-NA	mg/L	N/A	20	24-JUN-20
Calcium (Ca)-Dissolved		0.035	0.055	RPD-NA	mg/L	N/A	20	24-JUN-20
Cesium (Cs)-Dissolved		<0.0000002	0.0000002	RPD-NA	mg/L	N/A	25	24-JUN-20
Chromium (Cr)-Dissolved		0.00002	0.00002	RPD-NA	mg/L	N/A	20	24-JUN-20
Cobalt (Co)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	24-JUN-20
Copper (Cu)-Dissolved		0.00015	0.00020	RPD-NA	mg/L	N/A	20	24-JUN-20
Iron (Fe)-Dissolved		<0.001	0.001	RPD-NA	mg/L	N/A	20	24-JUN-20
Lead (Pb)-Dissolved		<0.00002	<0.00002	RPD-NA	mg/L	N/A	20	24-JUN-20
Lithium (Li)-Dissolved		<0.0002	<0.0002	RPD-NA	mg/L	N/A	20	24-JUN-20
Magnesium (Mg)-Dissolved		0.0015	0.0025	RPD-NA	mg/L	N/A	20	24-JUN-20
Manganese (Mn)-Dissolved		0.00004	0.00006	RPD-NA	mg/L	N/A	20	24-JUN-20
Molybdenum (Mo)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	24-JUN-20
Nickel (Ni)-Dissolved		0.00002	<0.00002	RPD-NA	mg/L	N/A	20	24-JUN-20
Phosphorus (P)-Dissolved		<0.002	<0.002	RPD-NA	mg/L	N/A	25	24-JUN-20
Potassium (K)-Dissolved		<0.002	<0.002	RPD-NA	mg/L	N/A	20	24-JUN-20
Rubidium (Rb)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	25	24-JUN-20
Selenium (Se)-Dissolved		<0.000002	0.000002	RPD-NA	mg/L	N/A	20	24-JUN-20

Quality Control Report

Workorder: L2463184

Report Date: 15-JUL-20

Page 8 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-MS-WT		Effluent						
Batch	R5131971							
WG3348084-4	DUP	WG3348084-3						
Silicon (Si)-Dissolved		0.042	0.042	RPD-NA	mg/L	N/A	25	24-JUN-20
Silver (Ag)-Dissolved		0.0000020	<0.0000005	RPD-NA	mg/L	N/A	20	24-JUN-20
Sodium (Na)-Dissolved		0.035	0.035	RPD-NA	mg/L	N/A	20	24-JUN-20
Strontium (Sr)-Dissolved		0.00005	0.00006	RPD-NA	mg/L	N/A	20	24-JUN-20
Sulfur (S)-Dissolved		<0.05	<0.05	RPD-NA	mg/L	N/A	25	24-JUN-20
Tellurium (Te)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	25	24-JUN-20
Thallium (Tl)-Dissolved		<0.000001	<0.000001	RPD-NA	mg/L	N/A	20	24-JUN-20
Thorium (Th)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	25	24-JUN-20
Tin (Sn)-Dissolved		0.00012	0.00016	J	mg/L	0.00004	0.0002	24-JUN-20
Titanium (Ti)-Dissolved		<0.00002	<0.00002	RPD-NA	mg/L	N/A	20	24-JUN-20
Tungsten (W)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	24-JUN-20
Uranium (U)-Dissolved		<0.0000005	<0.0000005	RPD-NA	mg/L	N/A	20	24-JUN-20
Vanadium (V)-Dissolved		<0.00002	<0.00002	RPD-NA	mg/L	N/A	20	24-JUN-20
Zinc (Zn)-Dissolved		0.0006	0.0006	RPD-NA	mg/L	N/A	20	24-JUN-20
Zirconium (Zr)-Dissolved		<0.000004	<0.000004	RPD-NA	mg/L	N/A	20	24-JUN-20
WG3348084-1	MB							
Aluminum (Al)-Dissolved			0.0004		mg/L		0.005	24-JUN-20
Antimony (Sb)-Dissolved			0.000015		mg/L		0.0001	24-JUN-20
Arsenic (As)-Dissolved			<0.000005		mg/L		0.0001	24-JUN-20
Barium (Ba)-Dissolved			<0.00002		mg/L		0.0001	24-JUN-20
Beryllium (Be)-Dissolved			<0.000002		mg/L		0.0001	24-JUN-20
Bismuth (Bi)-Dissolved			<0.000005		mg/L		0.00005	24-JUN-20
Boron (B)-Dissolved			<0.002		mg/L		0.01	24-JUN-20
Cadmium (Cd)-Dissolved			<0.0000002		mg/L		0.000005	24-JUN-20
Calcium (Ca)-Dissolved			0.005		mg/L		0.05	24-JUN-20
Cesium (Cs)-Dissolved			<0.0000002		mg/L		0.00001	24-JUN-20
Chromium (Cr)-Dissolved			<0.00002		mg/L		0.0005	24-JUN-20
Cobalt (Co)-Dissolved			<0.000002		mg/L		0.0001	24-JUN-20
Copper (Cu)-Dissolved			<0.00005		mg/L		0.0002	24-JUN-20
Iron (Fe)-Dissolved			<0.001		mg/L		0.01	24-JUN-20
Lead (Pb)-Dissolved			<0.00002		mg/L		0.00005	24-JUN-20
Lithium (Li)-Dissolved			<0.0002		mg/L		0.001	24-JUN-20
Magnesium (Mg)-Dissolved			<0.0005		mg/L		0.005	24-JUN-20

Quality Control Report

Workorder: L2463184

Report Date: 15-JUL-20

Page 9 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-MS-WT		Effluent						
Batch	R5131971							
WG3348084-1	MB							
Manganese (Mn)-Dissolved			<0.00002		mg/L		0.0005	24-JUN-20
Molybdenum (Mo)-Dissolved			<0.000005		mg/L		0.00005	24-JUN-20
Nickel (Ni)-Dissolved			<0.00002		mg/L		0.0005	24-JUN-20
Phosphorus (P)-Dissolved			<0.002		mg/L		0.05	24-JUN-20
Potassium (K)-Dissolved			<0.002		mg/L		0.05	24-JUN-20
Rubidium (Rb)-Dissolved			<0.000002		mg/L		0.0002	24-JUN-20
Selenium (Se)-Dissolved			<0.000002		mg/L		0.00005	24-JUN-20
Silicon (Si)-Dissolved			<0.002		mg/L		0.05	24-JUN-20
Silver (Ag)-Dissolved			0.0000010		mg/L		0.00005	24-JUN-20
Sodium (Na)-Dissolved			<0.005		mg/L		0.05	24-JUN-20
Strontium (Sr)-Dissolved			<0.00001		mg/L		0.001	24-JUN-20
Sulfur (S)-Dissolved			0.05		mg/L		0.5	24-JUN-20
Tellurium (Te)-Dissolved			<0.000005		mg/L		0.0002	24-JUN-20
Thallium (Tl)-Dissolved			0.000002		mg/L		0.00001	24-JUN-20
Thorium (Th)-Dissolved			<0.000002		mg/L		0.0001	24-JUN-20
Tin (Sn)-Dissolved			<0.00001		mg/L		0.0001	24-JUN-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.0003	24-JUN-20
Tungsten (W)-Dissolved			<0.000002		mg/L		0.0001	24-JUN-20
Uranium (U)-Dissolved			0.0000015		mg/L		0.00001	24-JUN-20
Vanadium (V)-Dissolved			<0.00002		mg/L		0.0005	24-JUN-20
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.001	24-JUN-20
Zirconium (Zr)-Dissolved			<0.000004		mg/L		0.0002	24-JUN-20
MET-T-MISA-MS-WT		Effluent						
Batch	R5130082							
WG3346854-4	DUP	WG3346854-3						
Aluminum (Al)-Total		0.0142	0.0142		mg/L	0.0	25	23-JUN-20
Antimony (Sb)-Total		0.000625	0.000625		mg/L	0.1	25	23-JUN-20
Arsenic (As)-Total		0.000680	0.000680		mg/L	0.1	25	23-JUN-20
Barium (Ba)-Total		0.108	0.110		mg/L	1.6	25	23-JUN-20
Beryllium (Be)-Total		0.000002	<0.000002	RPD-NA	mg/L	N/A	25	23-JUN-20
Bismuth (Bi)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	25	23-JUN-20
Boron (B)-Total		0.070	0.072		mg/L	2.3	25	23-JUN-20
Cadmium (Cd)-Total		0.0000038	0.0000040	RPD-NA	mg/L	N/A	25	23-JUN-20

Quality Control Report

Workorder: L2463184

Report Date: 15-JUL-20

Page 10 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-MS-WT		Effluent						
Batch	R5130082							
WG3346854-4	DUP	WG3346854-3						
Calcium (Ca)-Total		52.4	51.6		mg/L	1.4	25	23-JUN-20
Cesium (Cs)-Total		0.0000846	0.0000864		mg/L	2.2	25	23-JUN-20
Chromium (Cr)-Total		0.00008	0.00010	RPD-NA	mg/L	N/A	25	23-JUN-20
Cobalt (Co)-Total		0.000488	0.000474		mg/L	2.9	25	23-JUN-20
Copper (Cu)-Total		0.00020	0.00020	RPD-NA	mg/L	N/A	25	23-JUN-20
Iron (Fe)-Total		0.260	0.266		mg/L	2.2	25	23-JUN-20
Lead (Pb)-Total		0.00006	0.00006		mg/L	2.9	25	23-JUN-20
Lithium (Li)-Total		0.0062	0.0062		mg/L	1.2	25	23-JUN-20
Magnesium (Mg)-Total		15.4	15.8		mg/L	2.9	25	23-JUN-20
Manganese (Mn)-Total		0.241	0.243		mg/L	0.6	25	23-JUN-20
Molybdenum (Mo)-Total		0.00597	0.00595		mg/L	0.5	25	23-JUN-20
Nickel (Ni)-Total		0.00260	0.00260		mg/L	0.0	25	23-JUN-20
Phosphorus (P)-Total		<0.002	0.004	RPD-NA	mg/L	N/A	25	23-JUN-20
Potassium (K)-Total		4.52	4.59		mg/L	1.6	25	23-JUN-20
Rubidium (Rb)-Total		0.00602	0.00589		mg/L	2.2	25	23-JUN-20
Selenium (Se)-Total		0.000144	0.000138		mg/L	3.6	25	23-JUN-20
Silicon (Si)-Total		0.566	0.574		mg/L	1.2	25	23-JUN-20
Silver (Ag)-Total		0.0000005	<0.0000005	RPD-NA	mg/L	N/A	25	23-JUN-20
Sodium (Na)-Total		62.1	63.0		mg/L	1.4	25	23-JUN-20
Strontium (Sr)-Total		0.431	0.426		mg/L	1.0	25	23-JUN-20
Sulfur (S)-Total		31.3	31.3		mg/L	0.1	25	23-JUN-20
Tellurium (Te)-Total		0.000055	0.000080	RPD-NA	mg/L	N/A	25	23-JUN-20
Thallium (Tl)-Total		0.000018	0.000019		mg/L	2.2	25	23-JUN-20
Thorium (Th)-Total		0.000002	<0.000002	RPD-NA	mg/L	N/A	25	23-JUN-20
Tin (Sn)-Total		0.00001	0.00007	RPD-NA	mg/L	N/A	25	23-JUN-20
Titanium (Ti)-Total		0.00030	0.00030	RPD-NA	mg/L	N/A	25	23-JUN-20
Tungsten (W)-Total		0.000024	0.000020	RPD-NA	mg/L	N/A	25	23-JUN-20
Uranium (U)-Total		0.0000065	0.0000070	RPD-NA	mg/L	N/A	25	23-JUN-20
Vanadium (V)-Total		0.00052	0.00054		mg/L	2.6	25	23-JUN-20
Zinc (Zn)-Total		0.0030	0.0034	RPD-NA	mg/L	N/A	25	23-JUN-20
Zirconium (Zr)-Total		0.000008	0.000012	RPD-NA	mg/L	N/A	25	23-JUN-20
WG3346854-1	MB							
Aluminum (Al)-Total			0.0008		mg/L		0.005	23-JUN-20

Quality Control Report

Workorder: L2463184

Report Date: 15-JUL-20

Page 11 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-MS-WT		Effluent						
Batch	R5130082							
WG3346854-1 MB								
Antimony (Sb)-Total			0.000010		mg/L		0.0001	23-JUN-20
Arsenic (As)-Total			<0.000005		mg/L		0.0001	23-JUN-20
Barium (Ba)-Total			<0.00002		mg/L		0.0001	23-JUN-20
Beryllium (Be)-Total			<0.000002		mg/L		0.0001	23-JUN-20
Bismuth (Bi)-Total			<0.000005		mg/L		0.00005	23-JUN-20
Boron (B)-Total			<0.002		mg/L		0.01	23-JUN-20
Cadmium (Cd)-Total			<0.0000002		mg/L		0.000005	23-JUN-20
Calcium (Ca)-Total			<0.005		mg/L		0.05	23-JUN-20
Cesium (Cs)-Total			<0.0000002		mg/L		0.00001	23-JUN-20
Chromium (Cr)-Total			<0.00002		mg/L		0.0005	23-JUN-20
Cobalt (Co)-Total			<0.000002		mg/L		0.0001	23-JUN-20
Copper (Cu)-Total			<0.00005		mg/L		0.0005	23-JUN-20
Iron (Fe)-Total			<0.001		mg/L		0.01	23-JUN-20
Lead (Pb)-Total			<0.00002		mg/L		0.00005	23-JUN-20
Lithium (Li)-Total			<0.0002		mg/L		0.001	23-JUN-20
Magnesium (Mg)-Total			0.0005		mg/L		0.005	23-JUN-20
Manganese (Mn)-Total			<0.00002		mg/L		0.0005	23-JUN-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.00005	23-JUN-20
Nickel (Ni)-Total			0.00004		mg/L		0.0005	23-JUN-20
Phosphorus (P)-Total			0.008		mg/L		0.05	23-JUN-20
Potassium (K)-Total			<0.002		mg/L		0.05	23-JUN-20
Rubidium (Rb)-Total			0.000002		mg/L		0.0002	23-JUN-20
Selenium (Se)-Total			<0.000002		mg/L		0.00005	23-JUN-20
Silicon (Si)-Total			0.018		mg/L		0.1	23-JUN-20
Silver (Ag)-Total			<0.0000005		mg/L		0.00005	23-JUN-20
Sodium (Na)-Total			<0.005		mg/L		0.05	23-JUN-20
Strontium (Sr)-Total			<0.00001		mg/L		0.001	23-JUN-20
Sulfur (S)-Total			<0.05		mg/L		0.5	23-JUN-20
Tellurium (Te)-Total			<0.000005		mg/L		0.0002	23-JUN-20
Thallium (Tl)-Total			<0.000001		mg/L		0.00001	23-JUN-20
Thorium (Th)-Total			<0.000002		mg/L		0.0001	23-JUN-20
Tin (Sn)-Total			<0.00001		mg/L		0.0001	23-JUN-20
Titanium (Ti)-Total			<0.00002		mg/L		0.0003	23-JUN-20

Quality Control Report

Workorder: L2463184

Report Date: 15-JUL-20

Page 12 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-MS-WT		Effluent						
Batch R5130082								
WG3346854-1 MB								
Tungsten (W)-Total			<0.000002		mg/L		0.0001	23-JUN-20
Uranium (U)-Total			<0.000000E		mg/L		0.00001	23-JUN-20
Vanadium (V)-Total			0.00004		mg/L		0.0005	23-JUN-20
Zinc (Zn)-Total			<0.0002		mg/L		0.003	23-JUN-20
Zirconium (Zr)-Total			<0.000004		mg/L		0.0002	23-JUN-20
Batch R5134512								
WG3350453-4 DUP		WG3350453-3						
Aluminum (Al)-Total		0.0352	0.0348		mg/L	1.2	25	26-JUN-20
Antimony (Sb)-Total		0.000600	0.000615		mg/L	2.2	25	26-JUN-20
Arsenic (As)-Total		0.000630	0.000600		mg/L	4.4	25	26-JUN-20
Barium (Ba)-Total		0.112	0.111		mg/L	0.3	25	26-JUN-20
Beryllium (Be)-Total		0.000004	0.000004	RPD-NA	mg/L	N/A	25	26-JUN-20
Bismuth (Bi)-Total		0.000010	<0.000005	RPD-NA	mg/L	N/A	25	26-JUN-20
Boron (B)-Total		0.076	0.080		mg/L	5.5	25	26-JUN-20
Cadmium (Cd)-Total		0.0000044	0.0000050	RPD-NA	mg/L	N/A	25	26-JUN-20
Calcium (Ca)-Total		49.8	52.6		mg/L	5.5	25	26-JUN-20
Cesium (Cs)-Total		0.000100	0.000101		mg/L	1.0	25	26-JUN-20
Chromium (Cr)-Total		0.00012	0.00008	RPD-NA	mg/L	N/A	25	26-JUN-20
Cobalt (Co)-Total		0.000490	0.000490		mg/L	0.1	25	26-JUN-20
Copper (Cu)-Total		0.00020	0.00025	RPD-NA	mg/L	N/A	25	26-JUN-20
Iron (Fe)-Total		0.228	0.228		mg/L	0.2	25	26-JUN-20
Lead (Pb)-Total		0.00018	0.00008	J	mg/L	0.000090	0.0001	26-JUN-20
Lithium (Li)-Total		0.0060	0.0064		mg/L	6.5	25	26-JUN-20
Magnesium (Mg)-Total		15.3	15.2		mg/L	0.9	25	26-JUN-20
Manganese (Mn)-Total		0.314	0.313		mg/L	0.4	25	26-JUN-20
Molybdenum (Mo)-Total		0.00562	0.00570		mg/L	1.3	25	26-JUN-20
Nickel (Ni)-Total		0.00254	0.00246		mg/L	2.5	25	26-JUN-20
Phosphorus (P)-Total		0.010	0.010	RPD-NA	mg/L	N/A	25	26-JUN-20
Potassium (K)-Total		4.58	4.52		mg/L	1.4	25	26-JUN-20
Rubidium (Rb)-Total		0.00630	0.00608		mg/L	3.5	25	26-JUN-20
Selenium (Se)-Total		0.000146	0.000134		mg/L	8.5	25	26-JUN-20
Silicon (Si)-Total		0.802	0.806		mg/L	0.3	25	26-JUN-20
Silver (Ag)-Total		<0.0000005	<0.000000E	RPD-NA	mg/L	N/A	25	26-JUN-20

Quality Control Report

Workorder: L2463184

Report Date: 15-JUL-20

Page 13 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-MS-WT		Effluent						
Batch	R5134512							
WG3350453-4	DUP	WG3350453-3						
Sodium (Na)-Total		62.4	62.3		mg/L	0.1	25	26-JUN-20
Strontium (Sr)-Total		0.413	0.430		mg/L	4.0	25	26-JUN-20
Sulfur (S)-Total		32.0	32.3		mg/L	0.8	25	26-JUN-20
Tellurium (Te)-Total		0.000040	0.000040	RPD-NA	mg/L	N/A	25	26-JUN-20
Thallium (Tl)-Total		0.000034	0.000033		mg/L	4.2	25	26-JUN-20
Thorium (Th)-Total		0.000006	0.000004	RPD-NA	mg/L	N/A	25	26-JUN-20
Tin (Sn)-Total		0.00007	0.00002	RPD-NA	mg/L	N/A	25	26-JUN-20
Titanium (Ti)-Total		0.00046	0.00050		mg/L	8.9	25	26-JUN-20
Tungsten (W)-Total		0.000026	0.000028	RPD-NA	mg/L	N/A	25	26-JUN-20
Uranium (U)-Total		0.0000185	0.0000190		mg/L	2.2	25	26-JUN-20
Vanadium (V)-Total		0.00052	0.00056		mg/L	7.0	25	26-JUN-20
Zinc (Zn)-Total		0.0034	0.0034		mg/L	2.5	25	26-JUN-20
Zirconium (Zr)-Total		0.000016	0.000012	RPD-NA	mg/L	N/A	25	26-JUN-20
WG3350453-1	MB							
Aluminum (Al)-Total			0.0008		mg/L		0.005	26-JUN-20
Antimony (Sb)-Total			0.000035		mg/L		0.0001	26-JUN-20
Arsenic (As)-Total			0.000020		mg/L		0.0001	26-JUN-20
Barium (Ba)-Total			<0.00002		mg/L		0.0001	26-JUN-20
Beryllium (Be)-Total			<0.000002		mg/L		0.0001	26-JUN-20
Bismuth (Bi)-Total			<0.000005		mg/L		0.00005	26-JUN-20
Boron (B)-Total			<0.002		mg/L		0.01	26-JUN-20
Cadmium (Cd)-Total			0.0000006		mg/L		0.000005	26-JUN-20
Calcium (Ca)-Total			<0.005		mg/L		0.05	26-JUN-20
Cesium (Cs)-Total			<0.0000002		mg/L		0.00001	26-JUN-20
Chromium (Cr)-Total			<0.00002		mg/L		0.0005	26-JUN-20
Cobalt (Co)-Total			<0.000002		mg/L		0.0001	26-JUN-20
Copper (Cu)-Total			<0.00005		mg/L		0.0005	26-JUN-20
Iron (Fe)-Total			<0.001		mg/L		0.01	26-JUN-20
Lead (Pb)-Total			<0.00002		mg/L		0.00005	26-JUN-20
Lithium (Li)-Total			<0.0002		mg/L		0.001	26-JUN-20
Magnesium (Mg)-Total			0.0010		mg/L		0.005	26-JUN-20
Manganese (Mn)-Total			<0.00002		mg/L		0.0005	26-JUN-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.00005	26-JUN-20

Quality Control Report

Workorder: L2463184

Report Date: 15-JUL-20

Page 14 of 20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-MS-WT		Effluent						
Batch	R5134512							
WG3350453-1	MB							
Nickel (Ni)-Total			0.00004		mg/L		0.0005	26-JUN-20
Phosphorus (P)-Total			0.004		mg/L		0.05	26-JUN-20
Potassium (K)-Total			0.002		mg/L		0.05	26-JUN-20
Rubidium (Rb)-Total			0.000004		mg/L		0.0002	26-JUN-20
Selenium (Se)-Total			0.000002		mg/L		0.00005	26-JUN-20
Silicon (Si)-Total			0.020		mg/L		0.1	26-JUN-20
Silver (Ag)-Total			0.0000035		mg/L		0.00005	26-JUN-20
Sodium (Na)-Total			<0.005		mg/L		0.05	26-JUN-20
Strontium (Sr)-Total			<0.00001		mg/L		0.001	26-JUN-20
Sulfur (S)-Total			<0.05		mg/L		0.5	26-JUN-20
Tellurium (Te)-Total			<0.000005		mg/L		0.0002	26-JUN-20
Thallium (Tl)-Total			<0.000001		mg/L		0.00001	26-JUN-20
Thorium (Th)-Total			<0.000002		mg/L		0.0001	26-JUN-20
Tin (Sn)-Total			<0.00001		mg/L		0.0001	26-JUN-20
Titanium (Ti)-Total			<0.00002		mg/L		0.0003	26-JUN-20
Tungsten (W)-Total			<0.000002		mg/L		0.0001	26-JUN-20
Uranium (U)-Total			<0.0000005		mg/L		0.00001	26-JUN-20
Vanadium (V)-Total			0.00014		mg/L		0.0005	26-JUN-20
Zinc (Zn)-Total			<0.0002		mg/L		0.003	26-JUN-20
Zirconium (Zr)-Total			<0.000004		mg/L		0.0002	26-JUN-20
NH3-F-WT		Effluent						
Batch	R5131677							
WG3347544-3	DUP	WG3347544-5						
Ammonia, Total (as N)		0.012	0.012	RPD-NA	mg/L	N/A	25	24-JUN-20
WG3347544-2	LCS							
Ammonia, Total (as N)			102.7		%		70-130	24-JUN-20
WG3347544-1	MB							
Ammonia, Total (as N)			0.002		mg/L		0.02	24-JUN-20
WG3347544-4	MS	WG3347544-5						
Ammonia, Total (as N)			96.6		%		70-130	24-JUN-20
NO2-MISA-IC-WT		Effluent						
Batch	R5132207							
WG3349413-4	DUP	WG3349413-3						
Nitrite (as N)		<0.001	<0.001	RPD-NA	mg/L	N/A	25	24-JUN-20
WG3349413-9	DUP	WG3349413-8						

Quality Control Report

Workorder: L2463184

Report Date: 15-JUL-20

Page 15 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO2-MISA-IC-WT		Effluent						
Batch	R5132207							
WG3349413-9	DUP	WG3349413-8						
Nitrite (as N)		<0.001	<0.001	RPD-NA	mg/L	N/A	25	24-JUN-20
WG3349413-2	LCS							
Nitrite (as N)			104.0		%		70-130	24-JUN-20
WG3349413-7	LCS							
Nitrite (as N)			103.3		%		70-130	24-JUN-20
WG3349413-1	MB							
Nitrite (as N)			<0.001		mg/L		0.01	24-JUN-20
WG3349413-6	MB							
Nitrite (as N)			<0.001		mg/L		0.01	24-JUN-20
WG3349413-10	MS	WG3349413-8						
Nitrite (as N)			99.4		%		70-130	24-JUN-20
WG3349413-5	MS	WG3349413-3						
Nitrite (as N)			106.0		%		70-130	24-JUN-20
NO3-MISA-IC-WT		Effluent						
Batch	R5132207							
WG3349413-4	DUP	WG3349413-3						
Nitrate (as N)		0.002	<0.002	RPD-NA	mg/L	N/A	25	24-JUN-20
WG3349413-9	DUP	WG3349413-8						
Nitrate (as N)		<0.002	<0.002	RPD-NA	mg/L	N/A	25	24-JUN-20
WG3349413-2	LCS							
Nitrate (as N)			101.9		%		70-130	24-JUN-20
WG3349413-7	LCS							
Nitrate (as N)			101.8		%		70-130	24-JUN-20
WG3349413-1	MB							
Nitrate (as N)			<0.002		mg/L		0.02	24-JUN-20
WG3349413-6	MB							
Nitrate (as N)			<0.002		mg/L		0.02	24-JUN-20
WG3349413-10	MS	WG3349413-8						
Nitrate (as N)			94.9		%		70-130	24-JUN-20
WG3349413-5	MS	WG3349413-3						
Nitrate (as N)			101.7		%		70-130	24-JUN-20
OGG-TOT-WT		Effluent						
Batch	R5128080							
WG3347266-2	LCS							
Oil and Grease, Total			97.8		%		50-150	22-JUN-20
WG3347266-1	MB							
Oil and Grease, Total			0.6		mg/L		1	22-JUN-20

Quality Control Report

Workorder: L2463184

Report Date: 15-JUL-20

Page 16 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OGG-TOT-WT		Effluent						
Batch	R5128438							
WG3347630-2	LCS							
Oil and Grease, Total			93.6		%		50-150	23-JUN-20
WG3347630-1	MB							
Oil and Grease, Total			0.6		mg/L		1	23-JUN-20
P-T-MISA-COL-WT		Effluent						
Batch	R5131975							
WG3347543-3	DUP	WG3347543-5						
Phosphorus (P)-Total		0.0403	0.0411		mg/L	2.1	25	25-JUN-20
WG3347543-2	LCS							
Phosphorus (P)-Total			108.6		%		70-130	25-JUN-20
WG3347543-1	MB							
Phosphorus (P)-Total			<0.0001		mg/L		0.003	25-JUN-20
WG3347543-4	MS	WG3347543-5						
Phosphorus (P)-Total			98.3		%		70-130	25-JUN-20
PH-MISA-TB		Effluent						
Batch	R5126683							
WG3345967-2	LCS							
pH			7.01		pH		6.9-7.1	20-JUN-20
WG3345977-2	LCS							
pH			7.01		pH		6.9-7.1	20-JUN-20
SO4-MISA-IC-WT		Effluent						
Batch	R5132207							
WG3349413-4	DUP	WG3349413-3						
Sulfate (SO4)		6.95	6.95		mg/L	0.0	25	24-JUN-20
WG3349413-9	DUP	WG3349413-8						
Sulfate (SO4)		27.5	27.5		mg/L	0.1	25	24-JUN-20
WG3349413-2	LCS							
Sulfate (SO4)			103.8		%		70-130	24-JUN-20
WG3349413-7	LCS							
Sulfate (SO4)			103.8		%		70-130	24-JUN-20
WG3349413-1	MB							
Sulfate (SO4)			<0.05		mg/L		0.3	24-JUN-20
WG3349413-6	MB							
Sulfate (SO4)			<0.05		mg/L		0.3	24-JUN-20
WG3349413-10	MS	WG3349413-8						
Sulfate (SO4)			97.5		%		70-130	24-JUN-20
WG3349413-5	MS	WG3349413-3						

Quality Control Report

Workorder: L2463184

Report Date: 15-JUL-20

Page 17 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SO4-MISA-IC-WT								
	Effluent							
Batch	R5132207							
WG3349413-5	MS	WG3349413-3						
Sulfate (SO4)			106.8		%		70-130	24-JUN-20
TDS-MISA-TB								
	Effluent							
Batch	R5127600							
WG3346457-2	LCS							
Total Dissolved Solids			95.1		%		85-115	20-JUN-20
WG3346457-1	MB							
Total Dissolved Solids			<2		mg/L		10	20-JUN-20
Batch	R5131285							
WG3347914-2	LCS							
Total Dissolved Solids			95.8		%		85-115	23-JUN-20
WG3347914-1	MB							
Total Dissolved Solids			4		mg/L		10	23-JUN-20
TKN-WT								
	Effluent							
Batch	R5131463							
WG3347546-3	DUP	WG3347546-5						
Total Kjeldahl Nitrogen		1.25	1.25		mg/L	1.9	20	24-JUN-20
WG3347546-2	LCS							
Total Kjeldahl Nitrogen			104.8		%		75-125	24-JUN-20
WG3347546-1	MB							
Total Kjeldahl Nitrogen			<0.05		mg/L		0.18	24-JUN-20
WG3347546-4	MS	WG3347546-5						
Total Kjeldahl Nitrogen			99.0		%		70-130	24-JUN-20
TSS-MISA-TB								
	Effluent							
Batch	R5127481							
WG3346455-2	LCS							
Total Suspended Solids			92.8		%		85-115	20-JUN-20
WG3346455-1	MB							
Total Suspended Solids			<0.5		mg/L		3	20-JUN-20
Batch	R5131004							
WG3347906-2	LCS							
Total Suspended Solids			104.7		%		85-115	23-JUN-20
WG3347906-1	MB							
Total Suspended Solids			<0.5		mg/L		3	23-JUN-20

Quality Control Report

Workorder: L2463184

Report Date: 15-JUL-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Page 18 of 20

Contact: Amanda Jacobs

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L2463184

Report Date: 15-JUL-20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Leachable Anions & Nutrients							
Nitrate in Water by IC							
	1	16-JUN-20 12:00	24-JUN-20 16:56	5	8	days	EHT
	2	17-JUN-20 09:20	24-JUN-20 16:56	5	7	days	EHT
	3	17-JUN-20 10:55	24-JUN-20 16:56	5	7	days	EHT
	4	17-JUN-20 12:00	24-JUN-20 16:56	5	7	days	EHT
	5	16-JUN-20 09:15	24-JUN-20 16:56	5	8	days	EHT
	6	16-JUN-20 09:50	24-JUN-20 16:56	5	8	days	EHT
	7	16-JUN-20 11:30	24-JUN-20 16:56	5	8	days	EHT
	8	16-JUN-20 08:50	24-JUN-20 16:56	5	8	days	EHT
	9	16-JUN-20 10:30	24-JUN-20 16:56	5	8	days	EHT
	10	17-JUN-20 12:00	24-JUN-20 16:56	5	7	days	EHT
	11	17-JUN-20 12:30	24-JUN-20 16:56	5	7	days	EHT
	12	17-JUN-20 09:40	24-JUN-20 16:56	5	7	days	EHT
	13	17-JUN-20 10:10	24-JUN-20 16:56	5	7	days	EHT
	14	17-JUN-20 09:40	24-JUN-20 16:56	5	7	days	EHT
	15	17-JUN-20 10:00	24-JUN-20 16:56	5	7	days	EHT
	16	17-JUN-20 00:20	24-JUN-20 16:56	5	8	days	EHT
	17	17-JUN-20 09:00	24-JUN-20 16:56	5	7	days	EHT
	18	17-JUN-20 09:00	24-JUN-20 16:56	5	7	days	EHT
Nitrite in Water by IC							
	1	16-JUN-20 12:00	24-JUN-20 16:56	5	8	days	EHT
	2	17-JUN-20 09:20	24-JUN-20 16:56	5	7	days	EHT
	3	17-JUN-20 10:55	24-JUN-20 16:56	5	7	days	EHT
	4	17-JUN-20 12:00	24-JUN-20 16:56	5	7	days	EHT
	5	16-JUN-20 09:15	24-JUN-20 16:56	5	8	days	EHT
	6	16-JUN-20 09:50	24-JUN-20 16:56	5	8	days	EHT
	7	16-JUN-20 11:30	24-JUN-20 16:56	5	8	days	EHT
	8	16-JUN-20 08:50	24-JUN-20 16:56	5	8	days	EHT
	9	16-JUN-20 10:30	24-JUN-20 16:56	5	8	days	EHT
	10	17-JUN-20 12:00	24-JUN-20 16:56	5	7	days	EHT
	11	17-JUN-20 12:30	24-JUN-20 16:56	5	7	days	EHT
	12	17-JUN-20 09:40	24-JUN-20 16:56	5	7	days	EHT
	13	17-JUN-20 10:10	24-JUN-20 16:56	5	7	days	EHT
	14	17-JUN-20 09:40	24-JUN-20 16:56	5	7	days	EHT
	15	17-JUN-20 10:00	24-JUN-20 16:56	5	7	days	EHT
	16	17-JUN-20 00:20	24-JUN-20 16:56	5	8	days	EHT
	17	17-JUN-20 09:00	24-JUN-20 16:56	5	7	days	EHT
	18	17-JUN-20 09:00	24-JUN-20 16:56	5	7	days	EHT
Organic / Inorganic Carbon							
Dissolved Organic Carbon for MISA							
	2	17-JUN-20 09:20	29-JUN-20 09:00	10	12	days	EHT
	3	17-JUN-20 10:55	29-JUN-20 09:00	10	12	days	EHT
	4	17-JUN-20 12:00	29-JUN-20 09:00	10	12	days	EHT
	5	16-JUN-20 09:15	20-JUN-20 01:00	3	4	days	EHT
	6	16-JUN-20 09:50	20-JUN-20 01:00	3	4	days	EHT
	7	16-JUN-20 11:30	20-JUN-20 01:00	3	4	days	EHT
	8	16-JUN-20 08:50	20-JUN-20 01:00	3	4	days	EHT
	9	16-JUN-20 10:30	20-JUN-20 01:00	3	4	days	EHT
	10	17-JUN-20 12:00	29-JUN-20 09:00	10	12	days	EHT
	11	17-JUN-20 12:30	29-JUN-20 09:00	10	12	days	EHT
	12	17-JUN-20 09:40	29-JUN-20 09:00	10	12	days	EHT
	13	17-JUN-20 10:10	29-JUN-20 09:00	10	12	days	EHT
	14	17-JUN-20 09:40	29-JUN-20 09:00	10	12	days	EHT

Quality Control Report

Workorder: L2463184

Report Date: 15-JUL-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Page 20 of 20

Contact: Amanda Jacobs

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Organic / Inorganic Carbon							
Dissolved Organic Carbon for MISA							
	15	17-JUN-20 10:00	29-JUN-20 09:00	10	12	days	EHT
	17	17-JUN-20 09:00	29-JUN-20 09:00	10	12	days	EHT
	18	17-JUN-20 09:00	29-JUN-20 09:00	10	12	days	EHT

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2463184 were received on 19-JUN-20 09:56.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Your P.O. #: L2463184
Your C.O.C. #: N/A

Attention: Christine Paradis

ALS Laboratory Group
Environmental Div.
1081 Barton St.
Thunder Bay, ON
Canada P7B 5N3

Report Date: 2020/07/06
Report #: R6235376
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C0F3797

Received: 2020/06/22, 10:20

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Radium Isotopes by Alpha Spectrometry (1)	4	N/A	2020/07/03	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by BV Labs, unless otherwise agreed in writing. BV Labs is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by BV Labs, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Radium-226 results have not been corrected for blanks.



Your P.O. #: L2463184
Your C.O.C. #: N/A

Attention: Christine Paradis

ALS Laboratory Group
Environmental Div.
1081 Barton St.
Thunder Bay, ON
Canada P7B 5N3

Report Date: 2020/07/06
Report #: R6235376
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C0F3797
Received: 2020/06/22, 10:20

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Mayank Nigam, Project Manager
Email: Mayank.Nigam@bvlab.com
Phone# (905) 826-3080

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

BV Labs Job #: COF3797
Report Date: 2020/07/06

ALS Laboratory Group
Your P.O. #: L2463184

RESULTS OF ANALYSES OF WATER

BV Labs ID		MXT470	MXT471	MXT472	MXT473		
Sampling Date		2020/06/16	2020/06/17	2020/06/17	2020/06/17		
COC Number		N/A	N/A	N/A	N/A		
	UNITS	L2463184 - 8 SW20	L2463184 -11 SW22A	L2463184 -12 SW23	L2463184 -13 SW24	RDL	QC Batch
Radium-226	Bq/L	<0.010	<0.010	<0.010	<0.010	0.010	6812397
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



BUREAU
VERITAS

BV Labs Job #: COF3797
Report Date: 2020/07/06

ALS Laboratory Group
Your P.O. #: L2463184

TEST SUMMARY

BV Labs ID: MXT470
Sample ID: L2463184 - 8 SW20
Matrix: Water

Collected: 2020/06/16
Shipped:
Received: 2020/06/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6812397	N/A	2020/07/03	Barbara Kalbasi Esfahani

BV Labs ID: MXT471
Sample ID: L2463184 -11 SW22A
Matrix: Water

Collected: 2020/06/17
Shipped:
Received: 2020/06/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6812397	N/A	2020/07/03	Barbara Kalbasi Esfahani

BV Labs ID: MXT472
Sample ID: L2463184 -12 SW23
Matrix: Water

Collected: 2020/06/17
Shipped:
Received: 2020/06/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6812397	N/A	2020/07/03	Barbara Kalbasi Esfahani

BV Labs ID: MXT473
Sample ID: L2463184 -13 SW24
Matrix: Water

Collected: 2020/06/17
Shipped:
Received: 2020/06/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6812397	N/A	2020/07/03	Barbara Kalbasi Esfahani



BUREAU
VERITAS

BV Labs Job #: COF3797
Report Date: 2020/07/06

ALS Laboratory Group
Your P.O. #: L2463184

GENERAL COMMENTS

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: COF3797
Report Date: 2020/07/06

ALS Laboratory Group
Your P.O. #: L2463184

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
6812397	BKE	Spiked Blank	Radium-226	2020/07/03		100	%	85 - 115
6812397	BKE	Method Blank	Radium-226	2020/07/03	<0.010		Bq/L	
6812397	BKE	RPD	Radium-226	2020/07/03	NC		%	N/A

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference $\leq 2x$ RDL).



BUREAU
VERITAS

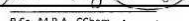
BV Labs Job #: COF3797
Report Date: 2020/07/06

ALS Laboratory Group
Your P.O. #: L2463184

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

<original signed by>


Steven Simpson, Lab Director

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



L2463184-COFC

130064	SW10	19.62	7.58	2.65	16-Jun-20	09:15	Water	x											
130065	SW15	20.08	7.89	6.35	16-Jun-20	09:50	Water	x											
130066	SW16	17.95	7.78	9.15	16-Jun-20	11:30	Water	x											
130067	SW20	19.01	7.38	0	16-Jun-20	08:50	Water	x	x										
130068	SW17	19.02	7.73	7.88	16-Jun-20	10:30	Water	x											
130069	SW21A	23.76	7.51	3.89	17-Jun-20	12:00	Water	x											
130070	SW22A	24.88	7.73	7.42	17-Jun-20	12:30	Water	x	x										
130071	SW23	21.98	7.5	5.22	17-Jun-20	09:40	Water	x	x										
130072	SW24	21.94	7.5	5.35	17-Jun-20	10:10	Water	x	x										
130073	SW25	21.04	7.8	5.4	17-Jun-20	09:40	Water	x											
130074	SW26	21.43	7.97	6.13	17-Jun-20	10:00	Water	x											
130075	SW27	22.95	7.72	5.64	17-Jun-20	12:20	Water	x											
130076	SW28A	20.46	7.9	7.84	17-Jun-20	09:00	Water	x											
130078	Travel Blank - Surface Water				17-Jun-20	12:00	Water	x											

Drinking Water (DW) Samples' (client use)		Special Instructions / Specify Criteria to add on report (client Use)			SAMPLE CONDITION AS RECEIVED (lab use only)					
Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		MISA [Template NGSWMISA]			Frozen <input type="checkbox"/> SIF Observations <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Are samples for human drinking water use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Ice packs <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody seal intact <input type="checkbox"/> Yes <input type="checkbox"/> No					
					Cooling Initiated <input checked="" type="checkbox"/>					
					INITIAL COOLER TEMPERATURES °C		FINAL COOLER TEMPERATURES °C			
					9.3					
SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)				
Released by: Amanda Jacobs	Date: 2020-06-18	Time: 10:00	Received by: SD	Date: June 19/20	Time: 9:56	Received by:	Date:	Time:		

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION WHITE - LABORATORY COPY YELLOW - CLIENT COPY NA-FM-0326e v09 Front/04 January 2014

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

Client: New Gold



Sample Layout Verification:

Verified By SD	Date June 19 / 2020	Time 9:58
--------------------------	-------------------------------	---------------------

L2463184-COFC

Labels Verification:

Verified By	Do any samples require prep?
	NO P F/P

*DOC, Diss Metals and Diss
+ by SD
Fractions
2-17*


		Sample #:	1-7	8	9-10	11-13	14-18											
1L	Plastic			1		1												
500mL	Plastic		1	1	1	1	1											
250mL	Plastic		2	2	2	2	2											
145mL	Plastic																	
60mL	Plastic		3	3	3	3	3											
Micro																		
Toxicity Pail																		
1L	Glass																	
500mL	Glass																	
250mL	Glass		2	2	2	2	2											
120mL	Glass																	
60mL	Glass																	
40mL	Vial (Glass)		2	2	2	2	2											
40mL	Methanol Vials																	
Soil Jar (120, 250 or 500mL)																		
Other:	100ml glass		2	2	2	2	2											
Other:																		
Total Number of Bottles			12	13	12	13	12											

Trip/Travel/Field Blank Information

Solids Batch#: 105221 June 4/20 Metals Batch#: 441/441 T: June 25/20 D: June 25/20 EPP
 Routine Batch#: 105221 June 4/20 Mercury Batch#: 442/442 T: June 25/20 D: June 25/20 Small
 BOD Batch#: 437 June 25/20 Cyanide Batch#: 1061855 Aug 20/20 Med
 Nutrients Batch#: 105221 June 4/20 OGG Batch#: 10490 Aug 20 20 Lrg
 DOC/Carbon Batch#: 105221 June 4/20 Phenols Batch#: _____
 VOC Batch#: _____
 Other: _____

COOLER TRACKING

_____ Coleman
 _____ Micro (5QT)
 _____ Sm(9QT)
 _____ Med(16QT)
 _____ Lrg(28QT)
 _____ Lrg(48QT)



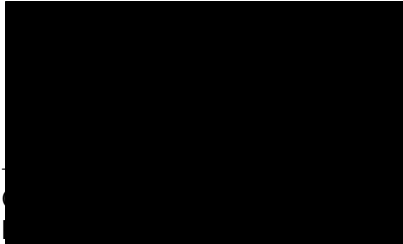
New Gold Inc. Rainy River Project
ATTN: Amanda Jacobs
24 Marr Rd
Barwick ON POW 1A0

Date Received: 25-JUN-20
Report Date: 08-JUL-20 14:23 (MT)
Version: FINAL

Client Phone: 807-482-0931

Certificate of Analysis

Lab Work Order #: L2465750
Project P.O. #: 4500038941
Job Reference: SURFACE WATER
C of C Numbers:
Legal Site Desc:



[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3, Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598



ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2465750-1 SW29							
Sampled By: NB KL on 23-JUN-20 @ 09:30							
Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	2.98		0	mg/L		26-JUN-20	R5132878
pH, Client Supplied	6.90		0.10	pH		29-JUN-20	R5135627
Temperature, Client	17.6		-50	Deg. C		29-JUN-20	R5135627
Physical Tests							
Color, True	309		2.0	CU		25-JUN-20	R5132237
Conductivity (EC)	127		1.0	uS/cm		25-JUN-20	R5133063
Hardness (as CaCO3)	78.0		0.50			25-JUN-20	
pH	7.44		0.10	pH		25-JUN-20	R5133063
Total Suspended Solids	1.0	<DL	3.0	mg/L		26-JUN-20	R5135046
Total Dissolved Solids	154		13	mg/L		26-JUN-20	R5135069
Turbidity	0.93		0.10	NTU		25-JUN-20	R5132299
Anions and Nutrients							
Acidity (as CaCO3)	4.2		2.0	mg/L		25-JUN-20	R5133063
Alkalinity, Total (as CaCO3)	66.6		2.0	mg/L		26-JUN-20	R5134416
Unionized ammonia	<0.000064		0.000064	mg/L		01-JUL-20	
Ammonia, Total (as N)	0.016	<DL	0.020	mg/L		30-JUN-20	R5139079
Chloride (Cl)	0.29		0.10	mg/L		29-JUN-20	R5138577
Fluoride (F)	0.052		0.020	mg/L		29-JUN-20	R5138577
Nitrate (as N)	0.018	<DL	0.020	mg/L		29-JUN-20	R5138577
Nitrite (as N)	<0.001	<W	0.010	mg/L		29-JUN-20	R5138577
Total Kjeldahl Nitrogen	1.55		0.18	mg/L	29-JUN-20	30-JUN-20	R5138920
Orthophosphate-Dissolved (as P)	0.0042		0.0030	mg/L		29-JUN-20	R5135587
Sulfate (SO4)	0.65	<T	0.30	mg/L		29-JUN-20	R5138577
Cyanides							
Cyanide, Weak Acid Diss	0.0024	<T	0.0020	mg/L		26-JUN-20	R5135672
Cyanide, Total	0.0020	<T	0.0020	mg/L		26-JUN-20	R5135672
Cyanide, Free	0.0002	<DL	0.0020	mg/L		26-JUN-20	R5135672
Organic / Inorganic Carbon							
Dissolved Organic Carbon	49.6	DLM	5.0	mg/L	26-JUN-20	30-JUN-20	R5139452
Total Organic Carbon	80.2	DLM	5.0	mg/L		02-JUL-20	R5141242
Total Metals							
Aluminum (Al)-Total	0.106		0.0050	mg/L		30-JUN-20	R5138616
Antimony (Sb)-Total	0.000055	<DL	0.00010	mg/L		30-JUN-20	R5138616
Arsenic (As)-Total	0.00138	<T	0.00010	mg/L		30-JUN-20	R5138616
Barium (Ba)-Total	0.0113		0.00010	mg/L		30-JUN-20	R5138616
Beryllium (Be)-Total	0.000018	<DL	0.00010	mg/L		30-JUN-20	R5138616
Bismuth (Bi)-Total	0.000005	<DL	0.000050	mg/L		30-JUN-20	R5138616
Boron (B)-Total	0.014	<T	0.010	mg/L		30-JUN-20	R5138616
Cadmium (Cd)-Total	0.0000064	<T	0.0000050	mg/L		30-JUN-20	R5138616
Calcium (Ca)-Total	19.4		0.050	mg/L		30-JUN-20	R5138616
Cesium (Cs)-Total	0.0000036	<DL	0.000010	mg/L		30-JUN-20	R5138616
Chromium (Cr)-Total	0.00028	<DL	0.00050	mg/L		30-JUN-20	R5138616

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2465750-1 SW29							
Sampled By: NB KL on 23-JUN-20 @ 09:30							
Matrix: Water							
Total Metals							
Cobalt (Co)-Total	0.000156	<T	0.00010	mg/L		30-JUN-20	R5138616
Copper (Cu)-Total	0.00080	<T	0.00050	mg/L		30-JUN-20	R5138616
Iron (Fe)-Total	0.512		0.010	mg/L		30-JUN-20	R5138616
Lead (Pb)-Total	0.00012	<T	0.000050	mg/L		30-JUN-20	R5138616
Lithium (Li)-Total	0.0030	<T	0.0010	mg/L		30-JUN-20	R5138616
Magnesium (Mg)-Total	7.94		0.0050	mg/L		30-JUN-20	R5138616
Manganese (Mn)-Total	0.0300		0.00050	mg/L		30-JUN-20	R5138616
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		29-JUN-20	R5135773
Molybdenum (Mo)-Total	0.000160	<T	0.000050	mg/L		30-JUN-20	R5138616
Nickel (Ni)-Total	0.00124	<T	0.00050	mg/L		30-JUN-20	R5138616
Phosphorus (P)-Total	0.014	<DL	0.050	mg/L		30-JUN-20	R5138616
Potassium (K)-Total	0.312		0.050	mg/L		30-JUN-20	R5138616
Rubidium (Rb)-Total	0.00129		0.00020	mg/L		30-JUN-20	R5138616
Selenium (Se)-Total	0.000158	<T	0.000050	mg/L		30-JUN-20	R5138616
Silicon (Si)-Total	2.29		0.10	mg/L		30-JUN-20	R5138616
Silver (Ag)-Total	0.0000025	<DL	0.000050	mg/L		30-JUN-20	R5138616
Sodium (Na)-Total	1.50		0.050	mg/L		30-JUN-20	R5138616
Strontium (Sr)-Total	0.0423		0.0010	mg/L		30-JUN-20	R5138616
Sulfur (S)-Total	0.85		0.50	mg/L		30-JUN-20	R5138616
Tellurium (Te)-Total	0.000020	<DL	0.00020	mg/L		30-JUN-20	R5138616
Thallium (Tl)-Total	0.000001	<DL	0.000010	mg/L		30-JUN-20	R5138616
Thorium (Th)-Total	0.000040	<DL	0.00010	mg/L		30-JUN-20	R5138616
Tin (Sn)-Total	0.00005	<DL	0.00010	mg/L		30-JUN-20	R5138616
Titanium (Ti)-Total	0.00226		0.00030	mg/L		30-JUN-20	R5138616
Tungsten (W)-Total	0.000002	<DL	0.00010	mg/L		30-JUN-20	R5138616
Uranium (U)-Total	0.0000835	<T	0.000010	mg/L		30-JUN-20	R5138616
Vanadium (V)-Total	0.00050	<T	0.00050	mg/L		30-JUN-20	R5138616
Zinc (Zn)-Total	0.0012	<DL	0.0030	mg/L		30-JUN-20	R5138616
Zirconium (Zr)-Total	0.000300		0.00020	mg/L		30-JUN-20	R5138616
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					29-JUN-20	R5135680
Aluminum (Al)-Dissolved	0.101		0.0050	mg/L		30-JUN-20	R5137237
Antimony (Sb)-Dissolved	0.000055	<DL	0.00010	mg/L		30-JUN-20	R5137237
Arsenic (As)-Dissolved	0.00153	<T	0.00010	mg/L		30-JUN-20	R5137237
Barium (Ba)-Dissolved	0.0101		0.00010	mg/L		30-JUN-20	R5137237
Beryllium (Be)-Dissolved	0.000022	<DL	0.00010	mg/L		30-JUN-20	R5137237
Bismuth (Bi)-Dissolved	0.000010	<DL	0.000050	mg/L		30-JUN-20	R5137237
Boron (B)-Dissolved	0.014		0.010	mg/L		30-JUN-20	R5137237
Cadmium (Cd)-Dissolved	0.0000100	<T	0.0000050	mg/L		30-JUN-20	R5137237
Calcium (Ca)-Dissolved	18.2		0.050	mg/L		30-JUN-20	R5137237
Cesium (Cs)-Dissolved	0.0000014	<DL	0.000010	mg/L		30-JUN-20	R5137237

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2465750-1 SW29							
Sampled By: NB KL on 23-JUN-20 @ 09:30							
Matrix: Water							
Dissolved Metals							
Chromium (Cr)-Dissolved	0.00026	<DL	0.00050	mg/L		30-JUN-20	R5137237
Cobalt (Co)-Dissolved	0.000126	<T	0.00010	mg/L		30-JUN-20	R5137237
Copper (Cu)-Dissolved	0.00040	<T	0.00020	mg/L		30-JUN-20	R5137237
Iron (Fe)-Dissolved	0.449		0.010	mg/L		30-JUN-20	R5137237
Lead (Pb)-Dissolved	0.00010	<T	0.000050	mg/L		30-JUN-20	R5137237
Lithium (Li)-Dissolved	0.0042	<T	0.0010	mg/L		30-JUN-20	R5137237
Magnesium (Mg)-Dissolved	7.89		0.0050	mg/L		30-JUN-20	R5137237
Manganese (Mn)-Dissolved	0.0164		0.00050	mg/L		30-JUN-20	R5137237
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		29-JUN-20	R5135774
Molybdenum (Mo)-Dissolved	0.000130	<T	0.000050	mg/L		30-JUN-20	R5137237
Nickel (Ni)-Dissolved	0.00104	<T	0.00050	mg/L		30-JUN-20	R5137237
Phosphorus (P)-Dissolved	0.034	<DL	0.050	mg/L		30-JUN-20	R5137237
Potassium (K)-Dissolved	0.248		0.050	mg/L		30-JUN-20	R5137237
Rubidium (Rb)-Dissolved	0.00105		0.00020	mg/L		30-JUN-20	R5137237
Selenium (Se)-Dissolved	0.000220	<T	0.000050	mg/L		30-JUN-20	R5137237
Silicon (Si)-Dissolved	2.62		0.050	mg/L		30-JUN-20	R5137237
Silver (Ag)-Dissolved	0.0000040	<DL	0.000050	mg/L		30-JUN-20	R5137237
Sodium (Na)-Dissolved	1.54		0.050	mg/L		30-JUN-20	R5137237
Strontium (Sr)-Dissolved	0.0417		0.0010	mg/L		30-JUN-20	R5137237
Sulfur (S)-Dissolved	0.85		0.50	mg/L		30-JUN-20	R5137237
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		30-JUN-20	R5137237
Thallium (Tl)-Dissolved	0.000002	<DL	0.000010	mg/L		30-JUN-20	R5137237
Thorium (Th)-Dissolved	0.000046	<DL	0.00010	mg/L		30-JUN-20	R5137237
Tin (Sn)-Dissolved	0.00009	<DL	0.00010	mg/L		30-JUN-20	R5137237
Titanium (Ti)-Dissolved	0.00180		0.00030	mg/L		30-JUN-20	R5137237
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		30-JUN-20	R5137237
Uranium (U)-Dissolved	0.0000795	<T	0.000010	mg/L		30-JUN-20	R5137237
Vanadium (V)-Dissolved	0.00046	<DL	0.00050	mg/L		30-JUN-20	R5137237
Zinc (Zn)-Dissolved	0.0034	<T	0.0010	mg/L		30-JUN-20	R5137237
Zirconium (Zr)-Dissolved	0.000324		0.00020	mg/L		01-JUL-20	R5137237
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		25-JUN-20	R5138637
COD	133		10	mg/L		06-JUL-20	R5142983
Oil and Grease, Total	<0.2	<W	1.0	mg/L	30-JUN-20	30-JUN-20	R5138987

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Ammonia, Total (as N)	MS-B	L2465750-1

Sample Parameter Qualifier key listed:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-MISA-TB	Effluent	Acidity (as CaCO ₃)	APHA 2310 B-POTENTIOMETRIC TITRATION
Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample.			
ALK-MISA-TB	Effluent	Alkalinity, Total (as CaCO ₃)	APHA 2320 B-Auto-Pot. Titration
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
BOD-TB	Water	Biochemical Oxygen Demand (BOD)	APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND
All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation.			
CL-L-IC-N-WT	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).			
CN-FREE-MISA-CFA-WT	Effluent	Free Cyanide by Continuous Flow Analyzer	ASTM D7237-10 (modified)
This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis.			
CN-T-MISA-CFA-WT	Effluent	Total Cyanide by CFA	ISO 14403-2:2012 (modified)
This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis.			
Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.			
CN-WAD-MISA-CFA-WT	Effluent	Weak Acid Dissociable Cyanide by CFA	APHA 4500-CN CYANIDE (modified)
This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.			
COD-T-WT	Water	Chemical Oxygen Demand	APHA 5220 D
This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.			
COLOUR-TB	Water	Colour, True	APHA 2120 C
True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard.			
DO-CLIENT-TB	Water	Dissolved Oxygen, Client Supplied	Result supplied by Client
DOC-WT	Effluent	Dissolved Organic Carbon for MISA	APHA 5310 B-Instrumental
EC-MISA-TB	Effluent	Conductivity (EC)	APHA 2510 B-ELECTRODE
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			

Reference Information

EC-SCREEN-WT	Water	Conductivity Screen (Internal Use Only)	APHA 2510
--------------	-------	---	-----------

Qualitative analysis of conductivity where required during preparation of other tests - e.g. TDS, metals, etc.

ETL-NH3-UNION-CLI-WT	Water	Un-ionized ammonia	CALCULATION
----------------------	-------	--------------------	-------------

F-IC-N-WT	Water	Fluoride in Water by IC	EPA 300.1 (mod)
-----------	-------	-------------------------	-----------------

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Effluent	Hardness (as CaCO ₃)	CALCULATION
------------------	----------	----------------------------------	-------------

HG-DIS-WT	Effluent	Mercury (Hg)-Dissolved for MISA	SW846 7470A
-----------	----------	---------------------------------	-------------

HG-TOT-WT	Effluent	Mercury (Hg)-Total for MISA	SW846 7470A
-----------	----------	-----------------------------	-------------

MET-D-MISA-MS-WT	Effluent	Diss. Metals in Effluent by ICPMS (MISA)	EPA 200.8
------------------	----------	--	-----------

The concentration of metals determined on an filtered effluent sample for the MISA regulation. The samples are analyzed directly (undigested) by ICP-MS.

MET-T-MISA-MS-WT	Effluent	Total Metals by ICPMS	EPA 200.8
------------------	----------	-----------------------	-----------

The concentration of metals determined on an unfiltered effluent sample for the MISA regulation. The samples are digested in acid and analyzed by ICP-MS.

NH3-F-WT	Effluent	Ammonia, Total as N	J. ENVIRON. MONIT., 2005, 7, 37-42, RSC
----------	----------	---------------------	---

This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.

NO2-MISA-IC-WT	Effluent	Nitrite in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

NO3-MISA-IC-WT	Effluent	Nitrate in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

OGG-TOT-WT	Effluent	Oil and Grease, Total for MISA	APHA 5520 B-Hexane Gravimetric
------------	----------	--------------------------------	--------------------------------

PH,TEMP-CLIENT-WT	Water	pH & Temperature	Results supplied by client
-------------------	-------	------------------	----------------------------

PH-MISA-TB	Effluent	pH	APHA 4500-H-ELECTRODE
------------	----------	----	-----------------------

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

PO4-DO-COL-WT	Water	Diss. Orthophosphate in Water by Colour	APHA 4500-P PHOSPHORUS
---------------	-------	---	------------------------

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Dissolved Orthophosphate is determined colourimetrically on a sample that has been lab or field filtered through a 0.45 micron membrane filter.

SO4-MISA-IC-WT	Effluent	Sulphate in Water by IC	EPA 300.1 (mod)
----------------	----------	-------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

TDS-MISA-TB	Effluent	Total Dissolved Solids	APHA 2540 C (modified)
-------------	----------	------------------------	------------------------

Aqueous matrices are analyzed using gravimetry and evaporation

TKN-WT	Effluent	Total Kjeldahl Nitrogen for MISA	APHA 4500-N
--------	----------	----------------------------------	-------------

TOC-WT	Water	Total Organic Carbon	APHA 5310B
--------	-------	----------------------	------------

Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

Reference Information

TSS-MISA-TB Effluent Total Suspended Solids APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

TURBIDITY-TB Water Turbidity APHA 2130 B-Nephelometer

Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code Laboratory Location

TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2465750

Report Date: 08-JUL-20

Page 1 of 14

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BOD-TB								
Water								
Batch R5138637								
WG3349745-6	LCS							
Biochemical Oxygen Demand			102.5		%		85-115	25-JUN-20
WG3349745-5	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	25-JUN-20
CL-L-IC-N-WT								
Water								
Batch R5138577								
WG3352558-14	DUP	WG3352558-13						
Chloride (Cl)		7.18	7.19		mg/L	0.0	25	29-JUN-20
WG3352558-12	LCS							
Chloride (Cl)			103.6		%		70-130	29-JUN-20
WG3352558-11	MB							
Chloride (Cl)			<0.10		mg/L		0.1	29-JUN-20
WG3352558-15	MS	WG3352558-13						
Chloride (Cl)			103.4		%		70-130	29-JUN-20
COD-T-WT								
Water								
Batch R5142983								
WG3356058-3	DUP	L2464279-1						
COD		22	24		mg/L	8.7	20	06-JUL-20
WG3356058-2	LCS							
COD			105.2		%		85-115	06-JUL-20
WG3356058-1	MB							
COD			<10		mg/L		10	06-JUL-20
WG3356058-4	MS	L2464279-1						
COD			98.1		%		75-125	06-JUL-20
COLOUR-TB								
Water								
Batch R5132237								
WG3350181-3	DUP	L2465714-1						
Color, True		30.2	30.6		CU	1.4	20	25-JUN-20
WG3350181-2	LCS							
Color, True			100.4		%		85-115	25-JUN-20
WG3350181-1	MB							
Color, True			<2.0		CU		2	25-JUN-20
F-IC-N-WT								
Water								
Batch R5138577								
WG3352558-14	DUP	WG3352558-13						
Fluoride (F)		0.275	0.277		mg/L	0.7	20	29-JUN-20
WG3352558-12	LCS							

Quality Control Report

Workorder: L2465750

Report Date: 08-JUL-20

Page 2 of 14

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F-IC-N-WT		Water						
Batch	R5138577							
WG3352558-12	LCS							
Fluoride (F)			102.9		%		90-110	29-JUN-20
WG3352558-11	MB							
Fluoride (F)			<0.020		mg/L		0.02	29-JUN-20
WG3352558-15	MS	WG3352558-13						
Fluoride (F)			100.5		%		75-125	29-JUN-20
PO4-DO-COL-WT		Water						
Batch	R5135587							
WG3351851-8	DUP	L2465744-1						
Orthophosphate-Dissolved (as P)		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	29-JUN-20
WG3351851-7	LCS							
Orthophosphate-Dissolved (as P)			108.4		%		80-120	29-JUN-20
WG3351851-6	MB							
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	29-JUN-20
WG3351851-9	MS	L2465744-1						
Orthophosphate-Dissolved (as P)			103.2		%		70-130	29-JUN-20
TOC-WT		Water						
Batch	R5141242							
WG3352039-3	DUP	L2466489-5						
Total Organic Carbon		3.96	4.28		mg/L	7.9	20	02-JUL-20
WG3352039-2	LCS							
Total Organic Carbon			107.6		%		80-120	02-JUL-20
WG3352039-1	MB							
Total Organic Carbon			<0.50		mg/L		0.5	02-JUL-20
WG3352039-4	MS	L2466489-5						
Total Organic Carbon			115.3		%		70-130	02-JUL-20
TURBIDITY-TB		Water						
Batch	R5132299							
WG3350238-3	DUP	L2465750-1						
Turbidity		0.93	0.89		NTU	4.5	15	25-JUN-20
WG3350238-2	LCS							
Turbidity			99.0		%		85-115	25-JUN-20
WG3350238-1	MB							
Turbidity			<0.10		NTU		0.1	25-JUN-20
ACY-MISA-TB	Effluent							

Quality Control Report

Workorder: L2465750

Report Date: 08-JUL-20

Page 3 of 14

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-MISA-TB								
	Effluent							
Batch	R5133063							
WG3350168-3	DUP	L2465690-1						
Acidity (as CaCO3)		4.6	4.4		mg/L	7.2	20	25-JUN-20
WG3350168-2	LCS							
Acidity (as CaCO3)			98.1		%		85-115	25-JUN-20
WG3350168-1	MB							
Acidity (as CaCO3)			1.2		mg/L		4	25-JUN-20
ALK-MISA-TB								
	Effluent							
Batch	R5134416							
WG3349847-2	LCS							
Alkalinity, Total (as CaCO3)			106.4		%		85-115	26-JUN-20
WG3349847-1	MB							
Alkalinity, Total (as CaCO3)			<0.2		mg/L		2	26-JUN-20
Alkalinity, Phenolphthalein			<0.2		mg/L		2	26-JUN-20
CN-FREE-MISA-CFA-WT								
	Effluent							
Batch	R5135672							
WG3351161-2	LCS							
Cyanide, Free			100.9		%		80-120	26-JUN-20
WG3351161-1	MB							
Cyanide, Free			0.0008		mg/L		0.002	26-JUN-20
CN-T-MISA-CFA-WT								
	Effluent							
Batch	R5135672							
WG3351161-3	DUP	L2465690-1						
Cyanide, Total		0.0564	0.0536		mg/L	5.2	20	26-JUN-20
WG3351161-2	LCS							
Cyanide, Total			92.3		%		80-120	26-JUN-20
WG3351161-1	MB							
Cyanide, Total			<0.0002		mg/L		0.002	26-JUN-20
WG3351161-4	MS	L2465690-1						
Cyanide, Total			89.2		%		75-125	26-JUN-20
CN-WAD-MISA-CFA-WT								
	Effluent							
Batch	R5135672							
WG3351161-3	DUP	L2465690-1						
Cyanide, Weak Acid Diss		0.0362	0.0374		mg/L	3.1	20	26-JUN-20
WG3351161-2	LCS							
Cyanide, Weak Acid Diss			102.7		%		80-120	26-JUN-20
WG3351161-1	MB							
Cyanide, Weak Acid Diss			<0.0001		mg/L		0.002	26-JUN-20

Quality Control Report

Workorder: L2465750

Report Date: 08-JUL-20

Page 5 of 14

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-TOT-WT		Effluent						
Batch	R5135773							
WG3352146-4 MS		L2465158-1						
Mercury (Hg)-Total			104.5		%		70-130	29-JUN-20
MET-D-MISA-MS-WT		Effluent						
Batch	R5137237							
WG3352142-4 DUP		WG3352142-3						
Aluminum (Al)-Dissolved		0.0048	0.0042	RPD-NA	mg/L	N/A	20	29-JUN-20
Antimony (Sb)-Dissolved		0.000030	0.000025	RPD-NA	mg/L	N/A	20	29-JUN-20
Arsenic (As)-Dissolved		0.000310	0.000340		mg/L	8.8	20	29-JUN-20
Barium (Ba)-Dissolved		0.0168	0.0171		mg/L	1.5	20	29-JUN-20
Beryllium (Be)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	29-JUN-20
Bismuth (Bi)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	29-JUN-20
Boron (B)-Dissolved		0.020	0.022		mg/L	2.8	20	29-JUN-20
Cadmium (Cd)-Dissolved		0.0000034	0.0000040	RPD-NA	mg/L	N/A	20	29-JUN-20
Calcium (Ca)-Dissolved		12.2	12.4		mg/L	1.7	20	29-JUN-20
Cesium (Cs)-Dissolved		<0.0000002	0.0000008	RPD-NA	mg/L	N/A	25	29-JUN-20
Chromium (Cr)-Dissolved		0.00014	0.00016	RPD-NA	mg/L	N/A	20	29-JUN-20
Cobalt (Co)-Dissolved		0.000034	0.000030	RPD-NA	mg/L	N/A	20	29-JUN-20
Copper (Cu)-Dissolved		0.00080	0.00080		mg/L	2.2	20	29-JUN-20
Iron (Fe)-Dissolved		0.137	0.158		mg/L	14	20	29-JUN-20
Lead (Pb)-Dissolved		0.00202	0.00200		mg/L	0.6	20	29-JUN-20
Lithium (Li)-Dissolved		0.0022	0.0022		mg/L	8.4	20	29-JUN-20
Magnesium (Mg)-Dissolved		2.50	2.49		mg/L	0.3	20	29-JUN-20
Manganese (Mn)-Dissolved		0.00484	0.00484		mg/L	0.1	20	29-JUN-20
Molybdenum (Mo)-Dissolved		0.00436	0.00437		mg/L	0.0	20	29-JUN-20
Nickel (Ni)-Dissolved		0.00020	0.00016	RPD-NA	mg/L	N/A	20	29-JUN-20
Phosphorus (P)-Dissolved		0.018	0.020	RPD-NA	mg/L	N/A	25	29-JUN-20
Potassium (K)-Dissolved		1.36	1.36		mg/L	0.2	20	29-JUN-20
Rubidium (Rb)-Dissolved		0.000454	0.000438		mg/L	3.6	25	29-JUN-20
Selenium (Se)-Dissolved		0.000020	0.000014	RPD-NA	mg/L	N/A	20	29-JUN-20
Silicon (Si)-Dissolved		0.354	0.356		mg/L	0.8	25	29-JUN-20
Silver (Ag)-Dissolved		0.0000015	<0.0000005	RPD-NA	mg/L	N/A	20	29-JUN-20
Sodium (Na)-Dissolved		37.9	38.4		mg/L	1.2	20	29-JUN-20
Strontium (Sr)-Dissolved		0.291	0.292		mg/L	0.2	20	29-JUN-20

Quality Control Report

Workorder: L2465750

Report Date: 08-JUL-20

Page 6 of 14

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-MS-WT		Effluent						
Batch	R5137237							
WG3352142-4	DUP	WG3352142-3						
Sulfur (S)-Dissolved		0.40	0.40	RPD-NA	mg/L	N/A	25	29-JUN-20
Tellurium (Te)-Dissolved		0.000005	0.000010	RPD-NA	mg/L	N/A	25	29-JUN-20
Thallium (Tl)-Dissolved		0.000002	<0.000001	RPD-NA	mg/L	N/A	20	29-JUN-20
Thorium (Th)-Dissolved		0.000002	<0.000002	RPD-NA	mg/L	N/A	25	29-JUN-20
Tin (Sn)-Dissolved		0.00094	0.00095		mg/L	0.3	20	29-JUN-20
Titanium (Ti)-Dissolved		0.00014	0.00014	RPD-NA	mg/L	N/A	20	29-JUN-20
Tungsten (W)-Dissolved		0.000004	0.000004	RPD-NA	mg/L	N/A	20	29-JUN-20
Uranium (U)-Dissolved		0.0000010	0.0000010	RPD-NA	mg/L	N/A	20	29-JUN-20
Vanadium (V)-Dissolved		<0.00002	0.00002	RPD-NA	mg/L	N/A	20	29-JUN-20
Zinc (Zn)-Dissolved		0.0140	0.0136		mg/L	2.1	20	29-JUN-20
Zirconium (Zr)-Dissolved		0.000020	0.000020	RPD-NA	mg/L	N/A	20	29-JUN-20
WG3352142-1	MB							
Aluminum (Al)-Dissolved			0.0004		mg/L		0.005	29-JUN-20
Antimony (Sb)-Dissolved			<0.000005		mg/L		0.0001	29-JUN-20
Arsenic (As)-Dissolved			<0.000005		mg/L		0.0001	29-JUN-20
Barium (Ba)-Dissolved			<0.00002		mg/L		0.0001	29-JUN-20
Beryllium (Be)-Dissolved			<0.000002		mg/L		0.0001	29-JUN-20
Bismuth (Bi)-Dissolved			<0.000005		mg/L		0.00005	29-JUN-20
Boron (B)-Dissolved			<0.002		mg/L		0.01	29-JUN-20
Cadmium (Cd)-Dissolved			<0.0000002		mg/L		0.000005	29-JUN-20
Calcium (Ca)-Dissolved			<0.005		mg/L		0.05	29-JUN-20
Cesium (Cs)-Dissolved			<0.0000002		mg/L		0.00001	29-JUN-20
Chromium (Cr)-Dissolved			<0.00002		mg/L		0.0005	29-JUN-20
Cobalt (Co)-Dissolved			<0.000002		mg/L		0.0001	29-JUN-20
Copper (Cu)-Dissolved			<0.00005		mg/L		0.0002	29-JUN-20
Iron (Fe)-Dissolved			<0.001		mg/L		0.01	29-JUN-20
Lead (Pb)-Dissolved			<0.00002		mg/L		0.00005	29-JUN-20
Lithium (Li)-Dissolved			<0.0002		mg/L		0.001	29-JUN-20
Magnesium (Mg)-Dissolved			<0.0005		mg/L		0.005	29-JUN-20
Manganese (Mn)-Dissolved			<0.00002		mg/L		0.0005	29-JUN-20
Molybdenum (Mo)-Dissolved			<0.000005		mg/L		0.00005	29-JUN-20
Nickel (Ni)-Dissolved			<0.00002		mg/L		0.0005	29-JUN-20
Phosphorus (P)-Dissolved			<0.002		mg/L		0.05	29-JUN-20

Quality Control Report

Workorder: L2465750

Report Date: 08-JUL-20

Page 7 of 14

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-MS-WT		Effluent						
Batch R5137237								
WG3352142-1 MB								
Potassium (K)-Dissolved			<0.002		mg/L		0.05	29-JUN-20
Rubidium (Rb)-Dissolved			<0.000002		mg/L		0.0002	29-JUN-20
Selenium (Se)-Dissolved			<0.000002		mg/L		0.00005	29-JUN-20
Silicon (Si)-Dissolved			<0.002		mg/L		0.05	29-JUN-20
Silver (Ag)-Dissolved			<0.0000005		mg/L		0.00005	29-JUN-20
Sodium (Na)-Dissolved			<0.005		mg/L		0.05	29-JUN-20
Strontium (Sr)-Dissolved			<0.00001		mg/L		0.001	29-JUN-20
Sulfur (S)-Dissolved			<0.05		mg/L		0.5	29-JUN-20
Tellurium (Te)-Dissolved			<0.000005		mg/L		0.0002	29-JUN-20
Thallium (Tl)-Dissolved			<0.000001		mg/L		0.00001	29-JUN-20
Thorium (Th)-Dissolved			<0.000002		mg/L		0.0001	29-JUN-20
Tin (Sn)-Dissolved			<0.00001		mg/L		0.0001	29-JUN-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.0003	29-JUN-20
Tungsten (W)-Dissolved			<0.000002		mg/L		0.0001	29-JUN-20
Uranium (U)-Dissolved			<0.0000005		mg/L		0.00001	29-JUN-20
Vanadium (V)-Dissolved			<0.00002		mg/L		0.0005	29-JUN-20
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.001	29-JUN-20
Zirconium (Zr)-Dissolved			<0.000004		mg/L		0.0002	29-JUN-20
MET-T-MISA-MS-WT		Effluent						
Batch R5138616								
WG3352633-4 DUP								
		WG3352633-3						
Aluminum (Al)-Total		0.0156	0.0158		mg/L	0.7	25	30-JUN-20
Antimony (Sb)-Total		0.000020	0.000015	RPD-NA	mg/L	N/A	25	30-JUN-20
Arsenic (As)-Total		0.000540	0.000545		mg/L	0.9	25	30-JUN-20
Barium (Ba)-Total		0.00562	0.00568		mg/L	1.0	25	30-JUN-20
Beryllium (Be)-Total		0.000002	<0.000002	RPD-NA	mg/L	N/A	25	30-JUN-20
Bismuth (Bi)-Total		0.000010	<0.000005	RPD-NA	mg/L	N/A	25	30-JUN-20
Boron (B)-Total		0.020	0.020		mg/L	4.3	25	30-JUN-20
Cadmium (Cd)-Total		0.0000024	0.0000026	RPD-NA	mg/L	N/A	25	30-JUN-20
Calcium (Ca)-Total		15.5	15.2		mg/L	1.7	25	30-JUN-20
Cesium (Cs)-Total		0.0000198	0.0000212		mg/L	7.3	25	30-JUN-20
Chromium (Cr)-Total		0.00010	0.00010	RPD-NA	mg/L	N/A	25	30-JUN-20
Cobalt (Co)-Total		0.000050	0.000044	RPD-NA	mg/L	N/A	25	30-JUN-20

Quality Control Report

Workorder: L2465750

Report Date: 08-JUL-20

Page 8 of 14

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-MS-WT		Effluent						
Batch	R5138616							
WG3352633-4 DUP		WG3352633-3						
Copper (Cu)-Total		0.00040	0.00040	RPD-NA	mg/L	N/A	25	30-JUN-20
Iron (Fe)-Total		0.049	0.048		mg/L	1.3	25	30-JUN-20
Lead (Pb)-Total		0.00006	0.00006		mg/L	4.9	25	30-JUN-20
Lithium (Li)-Total		<0.0002	<0.0002	RPD-NA	mg/L	N/A	25	30-JUN-20
Magnesium (Mg)-Total		1.83	1.81		mg/L	1.4	25	30-JUN-20
Manganese (Mn)-Total		0.0500	0.0497		mg/L	0.6	25	30-JUN-20
Molybdenum (Mo)-Total		0.000260	0.000260		mg/L	1.3	25	30-JUN-20
Nickel (Ni)-Total		0.00014	0.00014	RPD-NA	mg/L	N/A	25	30-JUN-20
Phosphorus (P)-Total		<0.002	<0.002	RPD-NA	mg/L	N/A	25	30-JUN-20
Potassium (K)-Total		0.922	0.932		mg/L	1.2	25	30-JUN-20
Rubidium (Rb)-Total		0.00171	0.00151		mg/L	12	25	30-JUN-20
Selenium (Se)-Total		0.000056	0.000036	RPD-NA	mg/L	N/A	25	30-JUN-20
Silicon (Si)-Total		1.35	1.31		mg/L	2.6	25	30-JUN-20
Silver (Ag)-Total		0.0000015	0.0000015	RPD-NA	mg/L	N/A	25	30-JUN-20
Sodium (Na)-Total		2.48	2.46		mg/L	0.8	25	30-JUN-20
Strontium (Sr)-Total		0.0270	0.0280		mg/L	3.4	25	30-JUN-20
Sulfur (S)-Total		1.60	1.65		mg/L	2.6	25	30-JUN-20
Tellurium (Te)-Total		0.000010	<0.000005	RPD-NA	mg/L	N/A	25	30-JUN-20
Thallium (Tl)-Total		0.000003	0.000001	RPD-NA	mg/L	N/A	25	30-JUN-20
Thorium (Th)-Total		0.000008	0.000008	RPD-NA	mg/L	N/A	25	30-JUN-20
Tin (Sn)-Total		0.00011	0.00006	RPD-NA	mg/L	N/A	25	30-JUN-20
Titanium (Ti)-Total		0.00014	0.00018	RPD-NA	mg/L	N/A	25	30-JUN-20
Tungsten (W)-Total		0.000004	0.000004	RPD-NA	mg/L	N/A	25	30-JUN-20
Uranium (U)-Total		0.0000160	0.0000165		mg/L	4.9	25	30-JUN-20
Vanadium (V)-Total		0.00028	0.00028	RPD-NA	mg/L	N/A	25	30-JUN-20
Zinc (Zn)-Total		0.0042	0.0038		mg/L	9.0	25	30-JUN-20
Zirconium (Zr)-Total		0.000036	0.000032	RPD-NA	mg/L	N/A	25	30-JUN-20
WG3352633-1 MB								
Aluminum (Al)-Total			0.0014		mg/L		0.005	30-JUN-20
Antimony (Sb)-Total			0.000010		mg/L		0.0001	30-JUN-20
Arsenic (As)-Total			<0.000005		mg/L		0.0001	30-JUN-20
Barium (Ba)-Total			<0.00002		mg/L		0.0001	30-JUN-20
Beryllium (Be)-Total			<0.000002		mg/L		0.0001	30-JUN-20

Quality Control Report

Workorder: L2465750

Report Date: 08-JUL-20

Page 9 of 14

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-MS-WT		Effluent						
Batch	R5138616							
WG3352633-1 MB								
Bismuth (Bi)-Total			<0.000005		mg/L		0.00005	30-JUN-20
Boron (B)-Total			<0.002		mg/L		0.01	30-JUN-20
Cadmium (Cd)-Total			<0.0000002		mg/L		0.000005	30-JUN-20
Calcium (Ca)-Total			0.005		mg/L		0.05	30-JUN-20
Cesium (Cs)-Total			<0.0000002		mg/L		0.00001	30-JUN-20
Chromium (Cr)-Total			0.00008		mg/L		0.0005	30-JUN-20
Cobalt (Co)-Total			0.000002		mg/L		0.0001	30-JUN-20
Copper (Cu)-Total			<0.00005		mg/L		0.0005	30-JUN-20
Iron (Fe)-Total			0.001		mg/L		0.01	30-JUN-20
Lead (Pb)-Total			<0.00002		mg/L		0.00005	30-JUN-20
Lithium (Li)-Total			<0.0002		mg/L		0.001	30-JUN-20
Magnesium (Mg)-Total			0.0030		mg/L		0.005	30-JUN-20
Manganese (Mn)-Total			0.00006		mg/L		0.0005	30-JUN-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.00005	30-JUN-20
Nickel (Ni)-Total			0.00008		mg/L		0.0005	30-JUN-20
Phosphorus (P)-Total			0.014		mg/L		0.05	30-JUN-20
Potassium (K)-Total			<0.002		mg/L		0.05	30-JUN-20
Rubidium (Rb)-Total			<0.000002		mg/L		0.0002	30-JUN-20
Selenium (Se)-Total			0.000004		mg/L		0.00005	30-JUN-20
Silicon (Si)-Total			0.018		mg/L		0.1	30-JUN-20
Silver (Ag)-Total			<0.0000005		mg/L		0.00005	30-JUN-20
Sodium (Na)-Total			<0.005		mg/L		0.05	30-JUN-20
Strontium (Sr)-Total			<0.00001		mg/L		0.001	30-JUN-20
Sulfur (S)-Total			<0.05		mg/L		0.5	30-JUN-20
Tellurium (Te)-Total			<0.000005		mg/L		0.0002	30-JUN-20
Thallium (Tl)-Total			0.000002		mg/L		0.00001	30-JUN-20
Thorium (Th)-Total			<0.000002		mg/L		0.0001	30-JUN-20
Tin (Sn)-Total			0.00003		mg/L		0.0001	30-JUN-20
Titanium (Ti)-Total			<0.00002		mg/L		0.0003	30-JUN-20
Tungsten (W)-Total			<0.000002		mg/L		0.0001	30-JUN-20
Uranium (U)-Total			<0.0000005		mg/L		0.00001	30-JUN-20
Vanadium (V)-Total			0.00006		mg/L		0.0005	30-JUN-20
Zinc (Zn)-Total			<0.0002		mg/L		0.003	30-JUN-20

Quality Control Report

Workorder: L2465750

Report Date: 08-JUL-20

Page 10 of 14

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-MS-WT Effluent								
Batch	R5138616							
WG3352633-1	MB							
Zirconium (Zr)-Total			<0.000004		mg/L		0.0002	30-JUN-20
NH3-F-WT Effluent								
Batch	R5139079							
WG3351942-3	DUP	WG3351942-5						
Ammonia, Total (as N)		1.60	1.57		mg/L	1.8	25	30-JUN-20
WG3351942-2	LCS							
Ammonia, Total (as N)			99.4		%		70-130	30-JUN-20
WG3351942-1	MB							
Ammonia, Total (as N)			<0.002		mg/L		0.02	30-JUN-20
WG3351942-4	MS	WG3351942-5						
Ammonia, Total (as N)			N/A	MS-B	%		-	30-JUN-20
NO2-MISA-IC-WT Effluent								
Batch	R5138577							
WG3352558-14	DUP	WG3352558-13						
Nitrite (as N)		0.007	0.007	RPD-NA	mg/L	N/A	25	29-JUN-20
WG3352558-12	LCS							
Nitrite (as N)			103.5		%		70-130	29-JUN-20
WG3352558-11	MB							
Nitrite (as N)			<0.001		mg/L		0.01	29-JUN-20
WG3352558-15	MS	WG3352558-13						
Nitrite (as N)			103.6		%		70-130	29-JUN-20
NO3-MISA-IC-WT Effluent								
Batch	R5138577							
WG3352558-14	DUP	WG3352558-13						
Nitrate (as N)		0.008	0.006	RPD-NA	mg/L	N/A	25	29-JUN-20
WG3352558-12	LCS							
Nitrate (as N)			102.8		%		70-130	29-JUN-20
WG3352558-11	MB							
Nitrate (as N)			<0.002		mg/L		0.02	29-JUN-20
WG3352558-15	MS	WG3352558-13						
Nitrate (as N)			100.9		%		70-130	29-JUN-20
OGG-TOT-WT Effluent								

Quality Control Report

Workorder: L2465750

Report Date: 08-JUL-20

Page 11 of 14

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OGG-TOT-WT		Effluent						
Batch	R5138987							
WG3353226-2	LCS							
Oil and Grease, Total			91.6		%		50-150	30-JUN-20
WG3353226-1	MB							
Oil and Grease, Total			0.6		mg/L		1	30-JUN-20
PH-MISA-TB		Effluent						
Batch	R5133063							
WG3350168-3	DUP	L2465690-1						
pH		7.52	7.55	J	pH	0.03	0.2	25-JUN-20
WG3350168-2	LCS							
pH			6.97		pH		6.9-7.1	25-JUN-20
SO4-MISA-IC-WT		Effluent						
Batch	R5138577							
WG3352558-14	DUP	WG3352558-13						
Sulfate (SO4)		28.2	28.2		mg/L	0.1	25	29-JUN-20
WG3352558-12	LCS							
Sulfate (SO4)			104.4		%		70-130	29-JUN-20
WG3352558-11	MB							
Sulfate (SO4)			<0.05		mg/L		0.3	29-JUN-20
WG3352558-15	MS	WG3352558-13						
Sulfate (SO4)			104.9		%		70-130	29-JUN-20
TDS-MISA-TB		Effluent						
Batch	R5135069							
WG3350998-2	LCS							
Total Dissolved Solids			95.6		%		85-115	26-JUN-20
WG3350998-1	MB							
Total Dissolved Solids			<2		mg/L		10	26-JUN-20
TKN-WT		Effluent						
Batch	R5138920							
WG3351884-3	DUP	WG3351884-5						
Total Kjeldahl Nitrogen		15.4	14.7		mg/L	5.0	20	30-JUN-20
WG3351884-2	LCS							
Total Kjeldahl Nitrogen			112.6		%		75-125	30-JUN-20
WG3351884-1	MB							
Total Kjeldahl Nitrogen			<0.05		mg/L		0.18	30-JUN-20
WG3351884-4	MS	WG3351884-5						
Total Kjeldahl Nitrogen			108.5		%		70-130	30-JUN-20
TSS-MISA-TB		Effluent						

Quality Control Report

Workorder: L2465750

Report Date: 08-JUL-20

Page 12 of 14

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TSS-MISA-TB	Effluent							
Batch	R5135046							
WG3350995-2	LCS							
Total Suspended Solids			95.2		%		85-115	26-JUN-20
WG3350995-1	MB							
Total Suspended Solids			<0.5		mg/L		3	26-JUN-20

Quality Control Report

Workorder: L2465750

Report Date: 08-JUL-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Page 13 of 14

Contact: Amanda Jacobs

Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L2465750

Report Date: 08-JUL-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Page 14 of 14

Contact: Amanda Jacobs

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Leachable Anions & Nutrients							
Nitrate in Water by IC	1	23-JUN-20 09:30	29-JUN-20 16:02	5	6	days	EHT
Nitrite in Water by IC	1	23-JUN-20 09:30	29-JUN-20 16:02	5	6	days	EHT

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2465750 were received on 25-JUN-20 09:30.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

L2465750



L2465750-COFC

JD



**Chain of Custody (COC),
Analytical Request Form**

Canada Toll Free: 1 800 668 9878

OC Number: 14 -

Page ____ of ____

Attach ALS barcode label here
(lab use only)

Report To				Report Format / Distribution				Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)													
Company:		New Gold Inc. Rainy River Project		Report Format:		<input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel <input checked="" type="checkbox"/> EDD (Digital)		R <input checked="" type="checkbox"/> Regular (Standard TAT if received by 3pm - business days)													
Contact:		Amanda Jacobs / Carolyn Winik		Quality Control (QC) Report with Report		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		P <input type="checkbox"/> Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT													
Address:		24 Marr Rd.		Criteria on Report - provide details below if box checked		<input type="checkbox"/>		E <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT													
City/Province:		Barwick ON		Select Distribution:		<input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail <input type="checkbox"/> Fax		E2 <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT													
Postal Code:		P0W 1A0		Email 1 or Fax:		rainyriver.labresults@newgold.com		Date and Time Required for all E&P TATs:													
Phone:		807-482-0900 x8076 or x8046						For tests that can not be performed according to the service level selected, you will be contacted.													
				Email 2		yag.inviron@newgold.com		Analysis Request													
Invoice To		Same as Report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Invoice Distribution				Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below													
		Copy of Invoice with Report? <input type="checkbox"/> Yes <input type="checkbox"/> No		Select Invoice Distribution:		<input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail <input type="checkbox"/> Fax															
Company:				Email 1 or Fax:		rainyriver.labresults@newgold.com															
Contact:				Email 2:																	
Project Information				Oil and Gas Required Fields (client use)																	
ALS Quote #:				Approver ID:		Cost Center:															
Job #:		Surface Water		GL Account::		Routing Code:															
PO / AFE:				Activity Code:																	
LSD:				Location:																	
ALS Lab Work Order # (lab use only)				ALS Contact:		Christine Paradis		Sampler:		NB KL											
Sample Ref (upload EDD)	Sample Identification and/or Coordinates <small>(Description will appear on the report)</small>	Temp	Field pH	Field DO (mg/L)	Date (dd-MMM-yy)	Time (hh:mm)	Sample Type														
130097	SW29	17.64	6.9	2.98	23-Jun-20	09:30	Water														

Number of Containers

2

Drinking Water (DW) Samples' (client use)			Special Instructions / Specify Criteria to add on report (client Use)			SAMPLE CONDITION AS RECEIVED (lab use only)								
Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are samples for human drinking water use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			MISA [Template NGSWMISA]			Frozen <input type="checkbox"/> SIF Observations <input type="checkbox"/> Yes <input type="checkbox"/> No Ice packs <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody seal intact <input type="checkbox"/> Yes <input type="checkbox"/> No Cooling Initiated <input checked="" type="checkbox"/>								
						INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C					
									9.8					
SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)								
Released by: Amanda Jacobs	Date: 2020-06-24	Time: 9:30	Received by: y	Date: 2020 06 25	Time: 9:30	Received by:	Date:	Time:						

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NA-FM-0326e v09 Front/04 January 2014

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

JD





L2465750-COFC

JD

Client: New Gold

Sample Layout Verification:

Verified By <u>y</u>	Date <u>2020 06 25</u>	Time <u>NA</u>
-------------------------	-------------------------------	-------------------

Sample Integrity Issues
Enter information on back page

Labels Verification:


Verified By

Do any samples require prep?
NO P (E/P) DOC

		Sample #:																			
1L	Plastic																				
500mL	Plastic																				
250mL	Plastic																				
145mL	Plastic																				
60mL	Plastic																				
Micro																					
Toxicity Pail																					
1L	Glass																				
500mL	Glass																				
250mL	Glass																				
120mL	Glass																				
60mL	Glass																				
40mL	Vial (Glass)																				
40mL	Methanol Vials																				
Soil Jar (120, 250 or 500mL)																					
Other:																					
Other:																					
Total Number of Bottles																					

Trip/Travel/Field Blank Information			
Solids Batch#:	Metals Batch#:	T:	D:
Routine Batch#:	Mercury Batch#:	T:	D:
BOD Batch#:	Cyanide Batch#:	T:	D:
Nutrients Batch#:	OGG Batch#:		
DOC/Carbon Batch#:	Phenols Batch#:		
VOC Batch#:			
Other:			

COOLER TRACKING	
EPP	Coleman
Small	Micro (5QT) _____
Med	Sm(9QT) _____
Lrg	Med(16QT) _____
Micro Box	Lrg(28QT) _____
	Lrg(48QT) _____



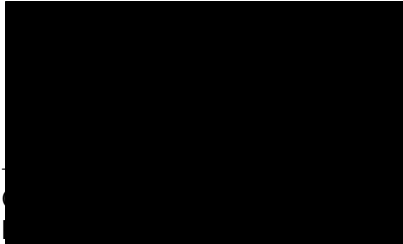
New Gold Inc. Rainy River Project
ATTN: Amanda Jacobs
24 Marr Rd
Barwick ON POW 1A0

Date Received: 10-JUL-20
Report Date: 31-JUL-20 21:15 (MT)
Version: FINAL

Client Phone: 807-482-0931

Certificate of Analysis

Lab Work Order #: L2472458
Project P.O. #: 4500038941
Job Reference: SURFACE WATER
C of C Numbers:
Legal Site Desc:



[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3, Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598



ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-1 SW02							
Sampled By: Client on 07-JUL-20 @ 13:00							
Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	3.6		0	mg/L		13-JUL-20	R5149208
pH, Client Supplied	6.89		0.10	pH		15-JUL-20	R5153541
Temperature, Client	20.8		-50	Deg. C		15-JUL-20	R5153541
Physical Tests							
Color, True	153		2.0	CU		10-JUL-20	R5147871
Conductivity (EC)	148		1.0	uS/cm		11-JUL-20	R5148736
Hardness (as CaCO3)	90.9		0.50			10-JUL-20	
pH	7.75		0.10	pH		11-JUL-20	R5148736
Total Suspended Solids	0.5	<DL	3.0	mg/L		15-JUL-20	R5154544
Total Dissolved Solids	138		13	mg/L		14-JUL-20	R5153966
Turbidity	0.89		0.10	NTU		10-JUL-20	R5147928
Anions and Nutrients							
Acidity (as CaCO3)	0.8	<DL	2.0	mg/L		12-JUL-20	R5152626
Alkalinity, Total (as CaCO3)	86.0		2.0	mg/L		11-JUL-20	R5148736
Unionized ammonia	0.00178		0.000079	mg/L		16-JUL-20	
Ammonia, Total (as N)	0.450		0.020	mg/L		15-JUL-20	R5155599
Chloride (Cl)	0.19		0.10	mg/L	10-JUL-20	10-JUL-20	R5148636
Fluoride (F)	0.045		0.020	mg/L	10-JUL-20	10-JUL-20	R5148636
Nitrate (as N)	0.024	<T	0.020	mg/L		10-JUL-20	R5148636
Nitrite (as N)	0.001	<DL	0.010	mg/L		10-JUL-20	R5148636
Total Kjeldahl Nitrogen	1.35		0.18	mg/L	14-JUL-20	15-JUL-20	R5154030
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	10-JUL-20	10-JUL-20	R5148676
Sulfate (SO4)	0.05	<DL	0.30	mg/L		10-JUL-20	R5148636
Cyanides							
Cyanide, Weak Acid Diss	0.0008	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Total	0.0008	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Free	0.0013	<DL	0.0020	mg/L		13-JUL-20	R5152261
Organic / Inorganic Carbon							
Dissolved Organic Carbon	38.5	DLM	5.0	mg/L	10-JUL-20	16-JUL-20	R5157078
Total Organic Carbon	45.8	DLM	5.0	mg/L		16-JUL-20	R5157084
Total Metals							
Aluminum (Al)-Total	0.0298	<T	0.0050	mg/L		13-JUL-20	R5151279
Antimony (Sb)-Total	0.000010	<DL	0.00010	mg/L		13-JUL-20	R5151279
Arsenic (As)-Total	0.000970	<T	0.00010	mg/L		13-JUL-20	R5151279
Barium (Ba)-Total	0.0120		0.00010	mg/L		13-JUL-20	R5151279
Beryllium (Be)-Total	0.000008	<DL	0.00010	mg/L		13-JUL-20	R5151279
Bismuth (Bi)-Total	0.000005	<DL	0.000050	mg/L		13-JUL-20	R5151279
Boron (B)-Total	0.010	<T	0.010	mg/L		13-JUL-20	R5151279
Cadmium (Cd)-Total	0.0000052	<T	0.0000050	mg/L		13-JUL-20	R5151279
Calcium (Ca)-Total	22.7		0.050	mg/L		13-JUL-20	R5151279
Cesium (Cs)-Total	0.0000030	<DL	0.000010	mg/L		13-JUL-20	R5151279
Chromium (Cr)-Total	0.00018	<DL	0.00050	mg/L		13-JUL-20	R5151279

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-1 SW02							
Sampled By: Client on 07-JUL-20 @ 13:00							
Matrix: Water							
Total Metals							
Cobalt (Co)-Total	0.000182	<T	0.00010	mg/L		13-JUL-20	R5151279
Copper (Cu)-Total	0.00025	<DL	0.00050	mg/L		13-JUL-20	R5151279
Iron (Fe)-Total	0.408		0.010	mg/L		13-JUL-20	R5151279
Lead (Pb)-Total	0.00006	<T	0.000050	mg/L		13-JUL-20	R5151279
Lithium (Li)-Total	0.0018	<T	0.0010	mg/L		13-JUL-20	R5151279
Magnesium (Mg)-Total	8.08		0.0050	mg/L		13-JUL-20	R5151279
Manganese (Mn)-Total	0.0610		0.00050	mg/L		13-JUL-20	R5151279
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-JUL-20	R5149902
Molybdenum (Mo)-Total	0.000065	<T	0.000050	mg/L		13-JUL-20	R5151279
Nickel (Ni)-Total	0.00062	<T	0.00050	mg/L		13-JUL-20	R5151279
Phosphorus (P)-Total	0.010	<DL	0.050	mg/L		13-JUL-20	R5151279
Potassium (K)-Total	0.092		0.050	mg/L		13-JUL-20	R5151279
Rubidium (Rb)-Total	0.000536		0.00020	mg/L		13-JUL-20	R5151279
Selenium (Se)-Total	0.000122	<T	0.000050	mg/L		13-JUL-20	R5151279
Silicon (Si)-Total	4.72		0.10	mg/L		13-JUL-20	R5151279
Silver (Ag)-Total	<0.0000005	<W	0.000050	mg/L		13-JUL-20	R5151279
Sodium (Na)-Total	0.810		0.050	mg/L		13-JUL-20	R5151279
Strontium (Sr)-Total	0.0377		0.0010	mg/L		13-JUL-20	R5151279
Sulfur (S)-Total	0.30	<DL	0.50	mg/L		13-JUL-20	R5151279
Tellurium (Te)-Total	0.000010	<DL	0.00020	mg/L		13-JUL-20	R5151279
Thallium (Tl)-Total	0.000002	<DL	0.000010	mg/L		13-JUL-20	R5151279
Thorium (Th)-Total	0.000014	<DL	0.00010	mg/L		13-JUL-20	R5151279
Tin (Sn)-Total	0.00013		0.00010	mg/L		13-JUL-20	R5151279
Titanium (Ti)-Total	<0.0020	DLUI	0.0020	mg/L		13-JUL-20	R5151279
Tungsten (W)-Total	<0.000002	<W	0.00010	mg/L		13-JUL-20	R5151279
Uranium (U)-Total	0.0000405	<T	0.000010	mg/L		13-JUL-20	R5151279
Vanadium (V)-Total	0.00024	<DL	0.00050	mg/L		13-JUL-20	R5151279
Zinc (Zn)-Total	0.0012	<DL	0.0030	mg/L		13-JUL-20	R5151279
Zirconium (Zr)-Total	0.000128	<DL	0.00020	mg/L		13-JUL-20	R5151279
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					12-JUL-20	R5149142
Aluminum (Al)-Dissolved	0.0230	<T	0.0050	mg/L		13-JUL-20	R5149960
Antimony (Sb)-Dissolved	<0.000005	<W	0.00010	mg/L		13-JUL-20	R5149960
Arsenic (As)-Dissolved	0.00113	<T	0.00010	mg/L		13-JUL-20	R5149960
Barium (Ba)-Dissolved	0.0125		0.00010	mg/L		13-JUL-20	R5149960
Beryllium (Be)-Dissolved	0.000010	<DL	0.00010	mg/L		13-JUL-20	R5149960
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		13-JUL-20	R5149960
Boron (B)-Dissolved	0.010		0.010	mg/L		13-JUL-20	R5149960
Cadmium (Cd)-Dissolved	0.0000054	<T	0.0000050	mg/L		13-JUL-20	R5149960
Calcium (Ca)-Dissolved	21.9		0.050	mg/L		13-JUL-20	R5149960
Cesium (Cs)-Dissolved	0.0000016	<DL	0.000010	mg/L		13-JUL-20	R5149960

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-1 SW02 Sampled By: Client on 07-JUL-20 @ 13:00 Matrix: Water							
Dissolved Metals							
Chromium (Cr)-Dissolved	0.00014	<DL	0.00050	mg/L		13-JUL-20	R5149960
Cobalt (Co)-Dissolved	0.000166	<T	0.00010	mg/L		13-JUL-20	R5149960
Copper (Cu)-Dissolved	0.00025	<T	0.00020	mg/L		13-JUL-20	R5149960
Iron (Fe)-Dissolved	0.373		0.010	mg/L		13-JUL-20	R5149960
Lead (Pb)-Dissolved	0.00012	<T	0.000050	mg/L		14-JUL-20	R5149960
Lithium (Li)-Dissolved	0.0018	<T	0.0010	mg/L		13-JUL-20	R5149960
Magnesium (Mg)-Dissolved	8.77		0.0050	mg/L		13-JUL-20	R5149960
Manganese (Mn)-Dissolved	0.0575		0.00050	mg/L		13-JUL-20	R5149960
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		14-JUL-20	R5152045
Molybdenum (Mo)-Dissolved	0.000070	<T	0.000050	mg/L		13-JUL-20	R5149960
Nickel (Ni)-Dissolved	0.00062	<T	0.00050	mg/L		13-JUL-20	R5149960
Phosphorus (P)-Dissolved	0.008	<DL	0.050	mg/L		13-JUL-20	R5149960
Potassium (K)-Dissolved	0.096		0.050	mg/L		13-JUL-20	R5149960
Rubidium (Rb)-Dissolved	0.000530		0.00020	mg/L		13-JUL-20	R5149960
Selenium (Se)-Dissolved	0.000180	<T	0.000050	mg/L		13-JUL-20	R5149960
Silicon (Si)-Dissolved	4.74		0.050	mg/L		13-JUL-20	R5149960
Silver (Ag)-Dissolved	<0.0000005	<W	0.000050	mg/L		13-JUL-20	R5149960
Sodium (Na)-Dissolved	0.910		0.050	mg/L		13-JUL-20	R5149960
Strontium (Sr)-Dissolved	0.0383		0.0010	mg/L		13-JUL-20	R5149960
Sulfur (S)-Dissolved	0.25	<DL	0.50	mg/L		13-JUL-20	R5149960
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		13-JUL-20	R5149960
Thallium (Tl)-Dissolved	0.000002	<DL	0.000010	mg/L		13-JUL-20	R5149960
Thorium (Th)-Dissolved	0.000014	<DL	0.00010	mg/L		13-JUL-20	R5149960
Tin (Sn)-Dissolved	0.00006	<DL	0.00010	mg/L		13-JUL-20	R5149960
Titanium (Ti)-Dissolved	0.00050		0.00030	mg/L		13-JUL-20	R5149960
Tungsten (W)-Dissolved	<0.000002	<W	0.00010	mg/L		13-JUL-20	R5149960
Uranium (U)-Dissolved	0.0000370	<T	0.000010	mg/L		13-JUL-20	R5149960
Vanadium (V)-Dissolved	0.00020	<DL	0.00050	mg/L		13-JUL-20	R5149960
Zinc (Zn)-Dissolved	0.0020	<T	0.0010	mg/L		13-JUL-20	R5149960
Zirconium (Zr)-Dissolved	0.000144	<DL	0.00020	mg/L		13-JUL-20	R5149960
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		10-JUL-20	R5154048
COD	90		10	mg/L		20-JUL-20	R5158418
Oil and Grease, Total	0.6	<DL	1.0	mg/L	16-JUL-20	16-JUL-20	R5156137
L2472458-2 SW03 Sampled By: Client on 07-JUL-20 @ 10:10 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	3.44		0	mg/L		13-JUL-20	R5149208
pH, Client Supplied	7.65		0.10	pH		15-JUL-20	R5153541
Temperature, Client	23.5		-50	Deg. C		15-JUL-20	R5153541
Physical Tests							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-2 SW03							
Sampled By: Client on 07-JUL-20 @ 10:10							
Matrix: Water							
Physical Tests							
Color, True	87.0		2.0	CU		10-JUL-20	R5147871
Conductivity (EC)	377		1.0	uS/cm		11-JUL-20	R5148736
Hardness (as CaCO3)	203		0.50			10-JUL-20	
pH	8.12		0.10	pH		11-JUL-20	R5148736
Total Suspended Solids	12.5		3.0	mg/L		13-JUL-20	R5151896
Total Dissolved Solids	294		20	mg/L		13-JUL-20	R5152091
Turbidity	11.8		0.10	NTU		10-JUL-20	R5147928
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		12-JUL-20	R5152626
Alkalinity, Total (as CaCO3)	177		2.0	mg/L		11-JUL-20	R5148736
Unionized ammonia	0.00991		0.00054	mg/L		16-JUL-20	
Ammonia, Total (as N)	0.366		0.020	mg/L		15-JUL-20	R5155599
Chloride (Cl)	5.99		0.10	mg/L	10-JUL-20	10-JUL-20	R5148636
Fluoride (F)	0.089		0.020	mg/L	10-JUL-20	10-JUL-20	R5148636
Nitrate (as N)	0.010	<DL	0.020	mg/L		10-JUL-20	R5148636
Nitrite (as N)	<0.001	<W	0.010	mg/L		10-JUL-20	R5148636
Total Kjeldahl Nitrogen	1.35		0.18	mg/L	14-JUL-20	15-JUL-20	R5154030
Orthophosphate-Dissolved (as P)	0.0392		0.0030	mg/L	10-JUL-20	10-JUL-20	R5148676
Sulfate (SO4)	31.9		0.30	mg/L		10-JUL-20	R5148636
Cyanides							
Cyanide, Weak Acid Diss	0.0009	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Total	0.0008	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Free	0.0012	<DL	0.0020	mg/L		13-JUL-20	R5152261
Organic / Inorganic Carbon							
Dissolved Organic Carbon	34.2	DLM	5.0	mg/L	10-JUL-20	16-JUL-20	R5157078
Total Organic Carbon	43.5	DLM	5.0	mg/L		16-JUL-20	R5157084
Total Metals							
Aluminum (Al)-Total	0.277		0.0050	mg/L		13-JUL-20	R5151279
Antimony (Sb)-Total	0.000135	<T	0.00010	mg/L		13-JUL-20	R5151279
Arsenic (As)-Total	0.00274	<T	0.00010	mg/L		13-JUL-20	R5151279
Barium (Ba)-Total	0.0281		0.00010	mg/L		13-JUL-20	R5151279
Beryllium (Be)-Total	0.000034	<DL	0.00010	mg/L		13-JUL-20	R5151279
Bismuth (Bi)-Total	0.000010	<DL	0.000050	mg/L		13-JUL-20	R5151279
Boron (B)-Total	0.028	<T	0.010	mg/L		13-JUL-20	R5151279
Cadmium (Cd)-Total	0.0000182	<T	0.0000050	mg/L		13-JUL-20	R5151279
Calcium (Ca)-Total	49.8		0.050	mg/L		13-JUL-20	R5151279
Cesium (Cs)-Total	0.0000360		0.000010	mg/L		13-JUL-20	R5151279
Chromium (Cr)-Total	0.00056	<T	0.00050	mg/L		13-JUL-20	R5151279
Cobalt (Co)-Total	0.000432	<T	0.00010	mg/L		13-JUL-20	R5151279
Copper (Cu)-Total	0.00160	<T	0.00050	mg/L		13-JUL-20	R5151279
Iron (Fe)-Total	0.514		0.010	mg/L		13-JUL-20	R5151279
Lead (Pb)-Total	0.00028	<T	0.000050	mg/L		13-JUL-20	R5151279

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-2 SW03							
Sampled By: Client on 07-JUL-20 @ 10:10							
Matrix: Water							
Total Metals							
Lithium (Li)-Total	0.0078	<T	0.0010	mg/L		13-JUL-20	R5151279
Magnesium (Mg)-Total	19.4		0.0050	mg/L		13-JUL-20	R5151279
Manganese (Mn)-Total	0.133		0.00050	mg/L		13-JUL-20	R5151279
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-JUL-20	R5149902
Molybdenum (Mo)-Total	0.00139	<T	0.000050	mg/L		13-JUL-20	R5151279
Nickel (Ni)-Total	0.00220	<T	0.00050	mg/L		13-JUL-20	R5151279
Phosphorus (P)-Total	0.092		0.050	mg/L		13-JUL-20	R5151279
Potassium (K)-Total	1.51		0.050	mg/L		13-JUL-20	R5151279
Rubidium (Rb)-Total	0.00222		0.00020	mg/L		13-JUL-20	R5151279
Selenium (Se)-Total	0.000254	<T	0.000050	mg/L		13-JUL-20	R5151279
Silicon (Si)-Total	3.39		0.10	mg/L		13-JUL-20	R5151279
Silver (Ag)-Total	0.0000015	<DL	0.000050	mg/L		13-JUL-20	R5151279
Sodium (Na)-Total	6.44		0.050	mg/L		13-JUL-20	R5151279
Strontium (Sr)-Total	0.126		0.0010	mg/L		13-JUL-20	R5151279
Sulfur (S)-Total	11.3		0.50	mg/L		13-JUL-20	R5151279
Tellurium (Te)-Total	0.000025	<DL	0.00020	mg/L		13-JUL-20	R5151279
Thallium (Tl)-Total	0.000006	<DL	0.000010	mg/L		13-JUL-20	R5151279
Thorium (Th)-Total	0.000070	<DL	0.00010	mg/L		13-JUL-20	R5151279
Tin (Sn)-Total	0.00023		0.00010	mg/L		13-JUL-20	R5151279
Titanium (Ti)-Total	0.00874		0.00030	mg/L		13-JUL-20	R5151279
Tungsten (W)-Total	0.000014	<DL	0.00010	mg/L		13-JUL-20	R5151279
Uranium (U)-Total	0.000853	<T	0.000010	mg/L		13-JUL-20	R5151279
Vanadium (V)-Total	0.00220	<T	0.00050	mg/L		13-JUL-20	R5151279
Zinc (Zn)-Total	0.0020	<DL	0.0030	mg/L		13-JUL-20	R5151279
Zirconium (Zr)-Total	0.000544		0.00020	mg/L		13-JUL-20	R5151279
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					12-JUL-20	R5149142
Aluminum (Al)-Dissolved	0.0122	<T	0.0050	mg/L		13-JUL-20	R5149960
Antimony (Sb)-Dissolved	0.000130	<T	0.00010	mg/L		13-JUL-20	R5149960
Arsenic (As)-Dissolved	0.00301	<T	0.00010	mg/L		13-JUL-20	R5149960
Barium (Ba)-Dissolved	0.0261		0.00010	mg/L		13-JUL-20	R5149960
Beryllium (Be)-Dissolved	0.000014	<DL	0.00010	mg/L		13-JUL-20	R5149960
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		13-JUL-20	R5149960
Boron (B)-Dissolved	0.026		0.010	mg/L		13-JUL-20	R5149960
Cadmium (Cd)-Dissolved	0.0000076	<T	0.0000050	mg/L		13-JUL-20	R5149960
Calcium (Ca)-Dissolved	47.8		0.050	mg/L		13-JUL-20	R5149960
Cesium (Cs)-Dissolved	0.0000012	<DL	0.000010	mg/L		13-JUL-20	R5149960
Chromium (Cr)-Dissolved	0.00014	<DL	0.00050	mg/L		13-JUL-20	R5149960
Cobalt (Co)-Dissolved	0.000264	<T	0.00010	mg/L		13-JUL-20	R5149960
Copper (Cu)-Dissolved	0.00140	<T	0.00020	mg/L		13-JUL-20	R5149960
Iron (Fe)-Dissolved	0.132		0.010	mg/L		13-JUL-20	R5149960

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-2 SW03 Sampled By: Client on 07-JUL-20 @ 10:10 Matrix: Water							
Dissolved Metals							
Lead (Pb)-Dissolved	0.00004	<DL	0.000050	mg/L		13-JUL-20	R5149960
Lithium (Li)-Dissolved	0.0074	<T	0.0010	mg/L		13-JUL-20	R5149960
Magnesium (Mg)-Dissolved	20.3		0.0050	mg/L		13-JUL-20	R5149960
Manganese (Mn)-Dissolved	0.0827		0.00050	mg/L		13-JUL-20	R5149960
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		14-JUL-20	R5152045
Molybdenum (Mo)-Dissolved	0.00150	<T	0.000050	mg/L		13-JUL-20	R5149960
Nickel (Ni)-Dissolved	0.00198	<T	0.00050	mg/L		13-JUL-20	R5149960
Phosphorus (P)-Dissolved	0.072		0.050	mg/L		13-JUL-20	R5149960
Potassium (K)-Dissolved	1.50		0.050	mg/L		13-JUL-20	R5149960
Rubidium (Rb)-Dissolved	0.00162		0.00020	mg/L		13-JUL-20	R5149960
Selenium (Se)-Dissolved	0.000338	<T	0.000050	mg/L		13-JUL-20	R5149960
Silicon (Si)-Dissolved	2.99		0.050	mg/L		13-JUL-20	R5149960
Silver (Ag)-Dissolved	0.0000005	<DL	0.000050	mg/L		13-JUL-20	R5149960
Sodium (Na)-Dissolved	6.64		0.050	mg/L		13-JUL-20	R5149960
Strontium (Sr)-Dissolved	0.127		0.0010	mg/L		13-JUL-20	R5149960
Sulfur (S)-Dissolved	11.7		0.50	mg/L		13-JUL-20	R5149960
Tellurium (Te)-Dissolved	0.000015	<DL	0.00020	mg/L		13-JUL-20	R5149960
Thallium (Tl)-Dissolved	0.000002	<DL	0.000010	mg/L		13-JUL-20	R5149960
Thorium (Th)-Dissolved	0.000014	<DL	0.00010	mg/L		13-JUL-20	R5149960
Tin (Sn)-Dissolved	0.00006	<DL	0.00010	mg/L		13-JUL-20	R5149960
Titanium (Ti)-Dissolved	0.00128		0.00030	mg/L		13-JUL-20	R5149960
Tungsten (W)-Dissolved	0.000012	<DL	0.00010	mg/L		13-JUL-20	R5149960
Uranium (U)-Dissolved	0.000787	<T	0.000010	mg/L		13-JUL-20	R5149960
Vanadium (V)-Dissolved	0.00144	<T	0.00050	mg/L		13-JUL-20	R5149960
Zinc (Zn)-Dissolved	0.0012	<T	0.0010	mg/L		13-JUL-20	R5149960
Zirconium (Zr)-Dissolved	0.000460		0.00020	mg/L		13-JUL-20	R5149960
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		10-JUL-20	R5154048
COD	83		10	mg/L		20-JUL-20	R5158418
Oil and Grease, Total	1.0		1.0	mg/L	16-JUL-20	16-JUL-20	R5156137
L2472458-3 SW06 Sampled By: Client on 07-JUL-20 @ 12:00 Matrix: Water							
Physical Tests							
Color, True	184		2.0	CU		10-JUL-20	R5147871
Conductivity (EC)	208		1.0	uS/cm		11-JUL-20	R5148736
Hardness (as CaCO3)	121		0.50			10-JUL-20	
pH	8.03		0.10	pH		11-JUL-20	R5148736
Total Suspended Solids	15.5		3.0	mg/L		13-JUL-20	R5151896
Total Dissolved Solids	224		20	mg/L		13-JUL-20	R5152091
Turbidity	47.6		0.10	NTU		10-JUL-20	R5147928
Anions and Nutrients							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-3 SW06							
Sampled By: Client on 07-JUL-20 @ 12:00							
Matrix: Water							
Anions and Nutrients							
Acidity (as CaCO3)	0.2	<DL	2.0	mg/L		12-JUL-20	R5152626
Alkalinity, Total (as CaCO3)	113		2.0	mg/L		11-JUL-20	R5148736
Ammonia, Total (as N)	0.048	<T	0.020	mg/L		15-JUL-20	R5155599
Chloride (Cl)	2.53		0.10	mg/L	10-JUL-20	10-JUL-20	R5148636
Fluoride (F)	0.061		0.020	mg/L	10-JUL-20	10-JUL-20	R5148636
Nitrate (as N)	0.010	<DL	0.020	mg/L		10-JUL-20	R5148636
Nitrite (as N)	<0.001	<W	0.010	mg/L		10-JUL-20	R5148636
Total Kjeldahl Nitrogen	1.60		0.18	mg/L	14-JUL-20	15-JUL-20	R5154030
Orthophosphate-Dissolved (as P)	0.0080		0.0030	mg/L	10-JUL-20	10-JUL-20	R5148676
Sulfate (SO4)	6.05		0.30	mg/L		10-JUL-20	R5148636
Cyanides							
Cyanide, Weak Acid Diss	0.0010	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Total	0.0010	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Free	0.0010	<DL	0.0020	mg/L		13-JUL-20	R5152261
Organic / Inorganic Carbon							
Dissolved Organic Carbon	43.7	DLM	5.0	mg/L	10-JUL-20	16-JUL-20	R5157078
Total Organic Carbon	59.2	DLM	5.0	mg/L		16-JUL-20	R5157084
Total Metals							
Aluminum (Al)-Total	1.22		0.0050	mg/L		13-JUL-20	R5151279
Antimony (Sb)-Total	0.000115	<T	0.00010	mg/L		13-JUL-20	R5151279
Arsenic (As)-Total	0.00285	<T	0.00010	mg/L		13-JUL-20	R5151279
Barium (Ba)-Total	0.0295		0.00010	mg/L		13-JUL-20	R5151279
Beryllium (Be)-Total	0.000076	<DL	0.00010	mg/L		13-JUL-20	R5151279
Bismuth (Bi)-Total	0.000030	<DL	0.000050	mg/L		13-JUL-20	R5151279
Boron (B)-Total	0.020	<T	0.010	mg/L		13-JUL-20	R5151279
Cadmium (Cd)-Total	0.0000312	<T	0.0000050	mg/L		13-JUL-20	R5151279
Calcium (Ca)-Total	29.8		0.050	mg/L		13-JUL-20	R5151279
Cesium (Cs)-Total	0.000196		0.000010	mg/L		13-JUL-20	R5151279
Chromium (Cr)-Total	0.00234	<T	0.00050	mg/L		13-JUL-20	R5151279
Cobalt (Co)-Total	0.000970	<T	0.00010	mg/L		13-JUL-20	R5151279
Copper (Cu)-Total	0.00365	<T	0.00050	mg/L		13-JUL-20	R5151279
Iron (Fe)-Total	1.79		0.010	mg/L		13-JUL-20	R5151279
Lead (Pb)-Total	0.00118	<T	0.000050	mg/L		13-JUL-20	R5151279
Lithium (Li)-Total	0.0064	<T	0.0010	mg/L		13-JUL-20	R5151279
Magnesium (Mg)-Total	12.4		0.0050	mg/L		13-JUL-20	R5151279
Manganese (Mn)-Total	0.150		0.00050	mg/L		13-JUL-20	R5151279
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-JUL-20	R5149902
Molybdenum (Mo)-Total	0.000530	<T	0.000050	mg/L		13-JUL-20	R5151279
Nickel (Ni)-Total	0.00388	<T	0.00050	mg/L		13-JUL-20	R5151279
Phosphorus (P)-Total	0.092		0.050	mg/L		13-JUL-20	R5151279
Potassium (K)-Total	1.27		0.050	mg/L		13-JUL-20	R5151279
Rubidium (Rb)-Total	0.00462		0.00020	mg/L		13-JUL-20	R5151279

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-3 SW06							
Sampled By: Client on 07-JUL-20 @ 12:00							
Matrix: Water							
Total Metals							
Selenium (Se)-Total	0.000248	<T	0.000050	mg/L		13-JUL-20	R5151279
Silicon (Si)-Total	5.68		0.10	mg/L		13-JUL-20	R5151279
Silver (Ag)-Total	0.0000070	<DL	0.000050	mg/L		13-JUL-20	R5151279
Sodium (Na)-Total	3.17		0.050	mg/L		13-JUL-20	R5151279
Strontium (Sr)-Total	0.0637		0.0010	mg/L		13-JUL-20	R5151279
Sulfur (S)-Total	2.35		0.50	mg/L		13-JUL-20	R5151279
Tellurium (Te)-Total	0.000010	<DL	0.00020	mg/L		13-JUL-20	R5151279
Thallium (Tl)-Total	0.000026	<T	0.000010	mg/L		13-JUL-20	R5151279
Thorium (Th)-Total	0.000284		0.00010	mg/L		13-JUL-20	R5151279
Tin (Sn)-Total	0.00020		0.00010	mg/L		13-JUL-20	R5151279
Titanium (Ti)-Total	0.0343		0.00030	mg/L		13-JUL-20	R5151279
Tungsten (W)-Total	0.000010	<DL	0.00010	mg/L		13-JUL-20	R5151279
Uranium (U)-Total	0.000561	<T	0.000010	mg/L		13-JUL-20	R5151279
Vanadium (V)-Total	0.00506	<T	0.00050	mg/L		13-JUL-20	R5151279
Zinc (Zn)-Total	0.0064	<T	0.0030	mg/L		13-JUL-20	R5151279
Zirconium (Zr)-Total	0.00122		0.00020	mg/L		13-JUL-20	R5151279
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					12-JUL-20	R5149142
Aluminum (Al)-Dissolved	0.0346		0.0050	mg/L		13-JUL-20	R5149960
Antimony (Sb)-Dissolved	0.000085	<DL	0.00010	mg/L		13-JUL-20	R5149960
Arsenic (As)-Dissolved	0.00244	<T	0.00010	mg/L		13-JUL-20	R5149960
Barium (Ba)-Dissolved	0.0188		0.00010	mg/L		13-JUL-20	R5149960
Beryllium (Be)-Dissolved	0.000026	<DL	0.00010	mg/L		13-JUL-20	R5149960
Bismuth (Bi)-Dissolved	0.000010	<DL	0.000050	mg/L		13-JUL-20	R5149960
Boron (B)-Dissolved	0.018		0.010	mg/L		13-JUL-20	R5149960
Cadmium (Cd)-Dissolved	0.0000126	<T	0.0000050	mg/L		13-JUL-20	R5149960
Calcium (Ca)-Dissolved	29.2		0.050	mg/L		13-JUL-20	R5149960
Cesium (Cs)-Dissolved	0.0000026	<DL	0.000010	mg/L		13-JUL-20	R5149960
Chromium (Cr)-Dissolved	0.00024	<DL	0.00050	mg/L		13-JUL-20	R5149960
Cobalt (Co)-Dissolved	0.000202	<T	0.00010	mg/L		13-JUL-20	R5149960
Copper (Cu)-Dissolved	0.00260	<T	0.00020	mg/L		13-JUL-20	R5149960
Iron (Fe)-Dissolved	0.238		0.010	mg/L		13-JUL-20	R5149960
Lead (Pb)-Dissolved	0.00020	<T	0.000050	mg/L		13-JUL-20	R5149960
Lithium (Li)-Dissolved	0.0054	<T	0.0010	mg/L		13-JUL-20	R5149960
Magnesium (Mg)-Dissolved	11.7		0.0050	mg/L		13-JUL-20	R5149960
Manganese (Mn)-Dissolved	0.0544		0.00050	mg/L		13-JUL-20	R5149960
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		14-JUL-20	R5152045
Molybdenum (Mo)-Dissolved	0.000505	<T	0.000050	mg/L		13-JUL-20	R5149960
Nickel (Ni)-Dissolved	0.00210	<T	0.00050	mg/L		13-JUL-20	R5149960
Phosphorus (P)-Dissolved	0.032	<DL	0.050	mg/L		13-JUL-20	R5149960
Potassium (K)-Dissolved	0.942		0.050	mg/L		13-JUL-20	R5149960

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-3 SW06 Sampled By: Client on 07-JUL-20 @ 12:00 Matrix: Water							
Dissolved Metals							
Rubidium (Rb)-Dissolved	0.00143		0.00020	mg/L		13-JUL-20	R5149960
Selenium (Se)-Dissolved	0.000282	<T	0.000050	mg/L		13-JUL-20	R5149960
Silicon (Si)-Dissolved	3.44		0.050	mg/L		13-JUL-20	R5149960
Silver (Ag)-Dissolved	0.0000005	<DL	0.000050	mg/L		13-JUL-20	R5149960
Sodium (Na)-Dissolved	3.10		0.050	mg/L		13-JUL-20	R5149960
Strontium (Sr)-Dissolved	0.0604		0.0010	mg/L		13-JUL-20	R5149960
Sulfur (S)-Dissolved	2.50		0.50	mg/L		13-JUL-20	R5149960
Tellurium (Te)-Dissolved	0.000005	<DL	0.00020	mg/L		13-JUL-20	R5149960
Thallium (Tl)-Dissolved	0.000005	<DL	0.000010	mg/L		13-JUL-20	R5149960
Thorium (Th)-Dissolved	0.000150		0.00010	mg/L		13-JUL-20	R5149960
Tin (Sn)-Dissolved	0.00008	<DL	0.00010	mg/L		13-JUL-20	R5149960
Titanium (Ti)-Dissolved	0.00674		0.00030	mg/L		13-JUL-20	R5149960
Tungsten (W)-Dissolved	0.000012	<DL	0.00010	mg/L		13-JUL-20	R5149960
Uranium (U)-Dissolved	0.000461	<T	0.000010	mg/L		13-JUL-20	R5149960
Vanadium (V)-Dissolved	0.00178	<T	0.00050	mg/L		13-JUL-20	R5149960
Zinc (Zn)-Dissolved	0.0010	<T	0.0010	mg/L		13-JUL-20	R5149960
Zirconium (Zr)-Dissolved	0.000940		0.00020	mg/L		13-JUL-20	R5149960
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		10-JUL-20	R5154048
COD	114		10	mg/L		20-JUL-20	R5158418
Oil and Grease, Total	<0.2	<W	1.0	mg/L	16-JUL-20	16-JUL-20	R5156137
L2472458-4 SW10 Sampled By: Client on 07-JUL-20 @ 10:45 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	3.15		0	mg/L		13-JUL-20	R5149208
pH, Client Supplied	7.18		0.10	pH		15-JUL-20	R5153541
Temperature, Client	22.1		-50	Deg. C		15-JUL-20	R5153541
Physical Tests							
Color, True	154		2.0	CU		10-JUL-20	R5147871
Conductivity (EC)	266		1.0	uS/cm		11-JUL-20	R5148736
Hardness (as CaCO3)	148		0.50			10-JUL-20	
pH	8.12		0.10	pH		11-JUL-20	R5148736
Total Suspended Solids	7.0		3.0	mg/L		13-JUL-20	R5151896
Total Dissolved Solids	248		20	mg/L		13-JUL-20	R5152091
Turbidity	4.47		0.10	NTU		10-JUL-20	R5147928
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		12-JUL-20	R5152626
Alkalinity, Total (as CaCO3)	143		2.0	mg/L		11-JUL-20	R5148736
Unionized ammonia	0.00042		0.00017	mg/L		16-JUL-20	
Ammonia, Total (as N)	0.050	<T	0.020	mg/L		15-JUL-20	R5155599
Chloride (Cl)	10.2		0.10	mg/L	10-JUL-20	10-JUL-20	R5148636

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-4 SW10							
Sampled By: Client on 07-JUL-20 @ 10:45							
Matrix: Water							
Anions and Nutrients							
Fluoride (F)	0.070		0.020	mg/L	10-JUL-20	10-JUL-20	R5148636
Nitrate (as N)	0.010	<DL	0.020	mg/L		10-JUL-20	R5148636
Nitrite (as N)	<0.001	<W	0.010	mg/L		10-JUL-20	R5148636
Total Kjeldahl Nitrogen	1.70		0.18	mg/L	14-JUL-20	15-JUL-20	R5154030
Orthophosphate-Dissolved (as P)	0.0581		0.0030	mg/L	10-JUL-20	10-JUL-20	R5148676
Sulfate (SO4)	0.85	<T	0.30	mg/L		10-JUL-20	R5148636
Cyanides							
Cyanide, Weak Acid Diss	0.0006	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Total	0.0008	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Free	0.0011	<DL	0.0020	mg/L		13-JUL-20	R5152261
Organic / Inorganic Carbon							
Dissolved Organic Carbon	48.6	DLM	5.0	mg/L	10-JUL-20	16-JUL-20	R5157078
Total Organic Carbon	54.1	DLM	5.0	mg/L		16-JUL-20	R5157084
Total Metals							
Aluminum (Al)-Total	0.0866		0.0050	mg/L		13-JUL-20	R5151279
Antimony (Sb)-Total	0.000055	<DL	0.00010	mg/L		13-JUL-20	R5151279
Arsenic (As)-Total	0.00298	<T	0.00010	mg/L		13-JUL-20	R5151279
Barium (Ba)-Total	0.0164		0.00010	mg/L		13-JUL-20	R5151279
Beryllium (Be)-Total	0.000028	<DL	0.00010	mg/L		13-JUL-20	R5151279
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		13-JUL-20	R5151279
Boron (B)-Total	0.024	<T	0.010	mg/L		13-JUL-20	R5151279
Cadmium (Cd)-Total	0.0000092	<T	0.000050	mg/L		13-JUL-20	R5151279
Calcium (Ca)-Total	37.6		0.050	mg/L		13-JUL-20	R5151279
Cesium (Cs)-Total	0.0000118		0.000010	mg/L		13-JUL-20	R5151279
Chromium (Cr)-Total	0.00038	<DL	0.00050	mg/L		13-JUL-20	R5151279
Cobalt (Co)-Total	0.000320	<T	0.00010	mg/L		13-JUL-20	R5151279
Copper (Cu)-Total	0.00055	<T	0.00050	mg/L		13-JUL-20	R5151279
Iron (Fe)-Total	0.499		0.010	mg/L		13-JUL-20	R5151279
Lead (Pb)-Total	0.00012	<T	0.000050	mg/L		13-JUL-20	R5151279
Lithium (Li)-Total	0.0058	<T	0.0010	mg/L		13-JUL-20	R5151279
Magnesium (Mg)-Total	14.4		0.0050	mg/L		13-JUL-20	R5151279
Manganese (Mn)-Total	0.132		0.00050	mg/L		13-JUL-20	R5151279
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-JUL-20	R5149902
Molybdenum (Mo)-Total	0.000420	<T	0.000050	mg/L		13-JUL-20	R5151279
Nickel (Ni)-Total	0.00194	<T	0.00050	mg/L		13-JUL-20	R5151279
Phosphorus (P)-Total	0.114		0.050	mg/L		13-JUL-20	R5151279
Potassium (K)-Total	0.980		0.050	mg/L		13-JUL-20	R5151279
Rubidium (Rb)-Total	0.00180		0.00020	mg/L		13-JUL-20	R5151279
Selenium (Se)-Total	0.000218	<T	0.000050	mg/L		13-JUL-20	R5151279
Silicon (Si)-Total	3.56		0.10	mg/L		13-JUL-20	R5151279
Silver (Ag)-Total	<0.0000005	<W	0.000050	mg/L		13-JUL-20	R5151279
Sodium (Na)-Total	6.19		0.050	mg/L		13-JUL-20	R5151279

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-4 SW10							
Sampled By: Client on 07-JUL-20 @ 10:45							
Matrix: Water							
Total Metals							
Strontium (Sr)-Total	0.0960		0.0010	mg/L		13-JUL-20	R5151279
Sulfur (S)-Total	0.90		0.50	mg/L		13-JUL-20	R5151279
Tellurium (Te)-Total	0.000020	<DL	0.00020	mg/L		13-JUL-20	R5151279
Thallium (Tl)-Total	0.000003	<DL	0.000010	mg/L		13-JUL-20	R5151279
Thorium (Th)-Total	0.000038	<DL	0.00010	mg/L		13-JUL-20	R5151279
Tin (Sn)-Total	0.00010		0.00010	mg/L		13-JUL-20	R5151279
Titanium (Ti)-Total	0.00326		0.00030	mg/L		13-JUL-20	R5151279
Tungsten (W)-Total	0.000004	<DL	0.00010	mg/L		13-JUL-20	R5151279
Uranium (U)-Total	0.000276	<T	0.000010	mg/L		13-JUL-20	R5151279
Vanadium (V)-Total	0.00100	<T	0.00050	mg/L		13-JUL-20	R5151279
Zinc (Zn)-Total	0.0020	<DL	0.0030	mg/L		13-JUL-20	R5151279
Zirconium (Zr)-Total	0.000336		0.00020	mg/L		13-JUL-20	R5151279
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					12-JUL-20	R5149142
Aluminum (Al)-Dissolved	0.0124	<T	0.0050	mg/L		13-JUL-20	R5149960
Antimony (Sb)-Dissolved	0.000045	<DL	0.00010	mg/L		13-JUL-20	R5149960
Arsenic (As)-Dissolved	0.00330	<T	0.00010	mg/L		13-JUL-20	R5149960
Barium (Ba)-Dissolved	0.0160		0.00010	mg/L		13-JUL-20	R5149960
Beryllium (Be)-Dissolved	0.000020	<DL	0.00010	mg/L		13-JUL-20	R5149960
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		13-JUL-20	R5149960
Boron (B)-Dissolved	0.022		0.010	mg/L		13-JUL-20	R5149960
Cadmium (Cd)-Dissolved	0.0000076	<T	0.0000050	mg/L		13-JUL-20	R5149960
Calcium (Ca)-Dissolved	35.2		0.050	mg/L		13-JUL-20	R5149960
Cesium (Cs)-Dissolved	0.0000012	<DL	0.000010	mg/L		13-JUL-20	R5149960
Chromium (Cr)-Dissolved	0.00028	<DL	0.00050	mg/L		13-JUL-20	R5149960
Cobalt (Co)-Dissolved	0.000266	<T	0.00010	mg/L		13-JUL-20	R5149960
Copper (Cu)-Dissolved	0.00050	<T	0.00020	mg/L		13-JUL-20	R5149960
Iron (Fe)-Dissolved	0.347		0.010	mg/L		13-JUL-20	R5149960
Lead (Pb)-Dissolved	0.00006	<T	0.000050	mg/L		13-JUL-20	R5149960
Lithium (Li)-Dissolved	0.0056	<T	0.0010	mg/L		13-JUL-20	R5149960
Magnesium (Mg)-Dissolved	14.7		0.0050	mg/L		13-JUL-20	R5149960
Manganese (Mn)-Dissolved	0.120		0.00050	mg/L		13-JUL-20	R5149960
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		14-JUL-20	R5152045
Molybdenum (Mo)-Dissolved	0.000475	<T	0.000050	mg/L		13-JUL-20	R5149960
Nickel (Ni)-Dissolved	0.00186	<T	0.00050	mg/L		13-JUL-20	R5149960
Phosphorus (P)-Dissolved	0.116		0.050	mg/L		13-JUL-20	R5149960
Potassium (K)-Dissolved	0.984		0.050	mg/L		13-JUL-20	R5149960
Rubidium (Rb)-Dissolved	0.00144		0.00020	mg/L		13-JUL-20	R5149960
Selenium (Se)-Dissolved	0.000328	<T	0.000050	mg/L		13-JUL-20	R5149960
Silicon (Si)-Dissolved	3.53		0.050	mg/L		13-JUL-20	R5149960
Silver (Ag)-Dissolved	0.0000015	<DL	0.000050	mg/L		13-JUL-20	R5149960

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-4 SW10 Sampled By: Client on 07-JUL-20 @ 10:45 Matrix: Water							
Dissolved Metals							
Sodium (Na)-Dissolved	6.46		0.050	mg/L		13-JUL-20	R5149960
Strontium (Sr)-Dissolved	0.0943		0.0010	mg/L		13-JUL-20	R5149960
Sulfur (S)-Dissolved	0.90		0.50	mg/L		13-JUL-20	R5149960
Tellurium (Te)-Dissolved	0.000025	<DL	0.00020	mg/L		13-JUL-20	R5149960
Thallium (Tl)-Dissolved	0.000002	<DL	0.000010	mg/L		13-JUL-20	R5149960
Thorium (Th)-Dissolved	0.000034	<DL	0.00010	mg/L		13-JUL-20	R5149960
Tin (Sn)-Dissolved	0.00008	<DL	0.00010	mg/L		13-JUL-20	R5149960
Titanium (Ti)-Dissolved	0.00106		0.00030	mg/L		13-JUL-20	R5149960
Tungsten (W)-Dissolved	0.000006	<DL	0.00010	mg/L		13-JUL-20	R5149960
Uranium (U)-Dissolved	0.000261	<T	0.000010	mg/L		13-JUL-20	R5149960
Vanadium (V)-Dissolved	0.00078	<T	0.00050	mg/L		13-JUL-20	R5149960
Zinc (Zn)-Dissolved	0.0064	<T	0.0010	mg/L		13-JUL-20	R5149960
Zirconium (Zr)-Dissolved	0.000384		0.00020	mg/L		13-JUL-20	R5149960
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		10-JUL-20	R5154048
COD	109		10	mg/L		20-JUL-20	R5158418
Oil and Grease, Total	<0.2	<W	1.0	mg/L	16-JUL-20	16-JUL-20	R5156137
Report Remarks : Se qualified DTC: Dissolved concentration greater than total, confirmed by reanalysis.							
L2472458-5 SW15 Sampled By: Client on 07-JUL-20 @ 12:15 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	2.61		0	mg/L		13-JUL-20	R5149208
pH, Client Supplied	7.82		0.10	pH		15-JUL-20	R5153541
Temperature, Client	27.6		-50	Deg. C		15-JUL-20	R5153541
Physical Tests							
Color, True	188		2.0	CU		10-JUL-20	R5147871
Conductivity (EC)	208		1.0	uS/cm		11-JUL-20	R5148736
Hardness (as CaCO3)	119		0.50			10-JUL-20	
pH	8.00		0.10	pH		11-JUL-20	R5148736
Total Suspended Solids	16.0		3.0	mg/L		13-JUL-20	R5151896
Total Dissolved Solids	244		20	mg/L		13-JUL-20	R5152091
Turbidity	49.3		0.10	NTU		10-JUL-20	R5147928
Anions and Nutrients							
Acidity (as CaCO3)	0.4	<DL	2.0	mg/L		12-JUL-20	R5152626
Alkalinity, Total (as CaCO3)	112		2.0	mg/L		11-JUL-20	R5148736
Unionized ammonia	0.0018		0.0010	mg/L		16-JUL-20	
Ammonia, Total (as N)	0.034	<T	0.020	mg/L		15-JUL-20	R5155599
Chloride (Cl)	2.19		0.10	mg/L	10-JUL-20	10-JUL-20	R5148636
Fluoride (F)	0.064		0.020	mg/L	10-JUL-20	10-JUL-20	R5148636
Nitrate (as N)	0.008	<DL	0.020	mg/L		10-JUL-20	R5148636
Nitrite (as N)	<0.001	<W	0.010	mg/L		10-JUL-20	R5148636

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-5 SW15							
Sampled By: Client on 07-JUL-20 @ 12:15							
Matrix: Water							
Anions and Nutrients							
Total Kjeldahl Nitrogen	1.30		0.18	mg/L	14-JUL-20	15-JUL-20	R5154030
Orthophosphate-Dissolved (as P)	0.0086		0.0030	mg/L	10-JUL-20	10-JUL-20	R5148676
Sulfate (SO4)	6.10		0.30	mg/L		10-JUL-20	R5148636
Cyanides							
Cyanide, Weak Acid Diss	0.0009	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Total	0.0008	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Free	0.0010	<DL	0.0020	mg/L		13-JUL-20	R5152261
Organic / Inorganic Carbon							
Dissolved Organic Carbon	44.3	DLM	5.0	mg/L	10-JUL-20	16-JUL-20	R5157078
Total Organic Carbon	64.1	DLM	5.0	mg/L		16-JUL-20	R5157084
Total Metals							
Aluminum (Al)-Total	1.18		0.0050	mg/L		13-JUL-20	R5151279
Antimony (Sb)-Total	0.000100	<T	0.00010	mg/L		13-JUL-20	R5151279
Arsenic (As)-Total	0.00280	<T	0.00010	mg/L		13-JUL-20	R5151279
Barium (Ba)-Total	0.0286		0.00010	mg/L		13-JUL-20	R5151279
Beryllium (Be)-Total	0.000078	<DL	0.00010	mg/L		13-JUL-20	R5151279
Bismuth (Bi)-Total	0.000030	<DL	0.000050	mg/L		13-JUL-20	R5151279
Boron (B)-Total	0.020	<T	0.010	mg/L		13-JUL-20	R5151279
Cadmium (Cd)-Total	0.0000296	<T	0.0000050	mg/L		13-JUL-20	R5151279
Calcium (Ca)-Total	30.4		0.050	mg/L		13-JUL-20	R5151279
Cesium (Cs)-Total	0.000198		0.000010	mg/L		13-JUL-20	R5151279
Chromium (Cr)-Total	0.00216	<T	0.00050	mg/L		13-JUL-20	R5151279
Cobalt (Co)-Total	0.000950	<T	0.00010	mg/L		13-JUL-20	R5151279
Copper (Cu)-Total	0.00360	<T	0.00050	mg/L		13-JUL-20	R5151279
Iron (Fe)-Total	1.74		0.010	mg/L		13-JUL-20	R5151279
Lead (Pb)-Total	0.00114	<T	0.000050	mg/L		13-JUL-20	R5151279
Lithium (Li)-Total	0.0064	<T	0.0010	mg/L		13-JUL-20	R5151279
Magnesium (Mg)-Total	12.1		0.0050	mg/L		13-JUL-20	R5151279
Manganese (Mn)-Total	0.146		0.00050	mg/L		13-JUL-20	R5151279
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-JUL-20	R5149902
Molybdenum (Mo)-Total	0.000535	<T	0.000050	mg/L		13-JUL-20	R5151279
Nickel (Ni)-Total	0.00388	<T	0.00050	mg/L		13-JUL-20	R5151279
Phosphorus (P)-Total	0.096		0.050	mg/L		13-JUL-20	R5151279
Potassium (K)-Total	1.26		0.050	mg/L		13-JUL-20	R5151279
Rubidium (Rb)-Total	0.00447		0.00020	mg/L		13-JUL-20	R5151279
Selenium (Se)-Total	0.000232	<T	0.000050	mg/L		13-JUL-20	R5151279
Silicon (Si)-Total	5.61		0.10	mg/L		13-JUL-20	R5151279
Silver (Ag)-Total	0.0000070	<DL	0.000050	mg/L		13-JUL-20	R5151279
Sodium (Na)-Total	3.15		0.050	mg/L		13-JUL-20	R5151279
Strontium (Sr)-Total	0.0629		0.0010	mg/L		13-JUL-20	R5151279
Sulfur (S)-Total	2.35		0.50	mg/L		13-JUL-20	R5151279
Tellurium (Te)-Total	<0.000005	<W	0.00020	mg/L		13-JUL-20	R5151279

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-5 SW15							
Sampled By: Client on 07-JUL-20 @ 12:15							
Matrix: Water							
Total Metals							
Thallium (Tl)-Total	0.000024	<T	0.000010	mg/L		13-JUL-20	R5151279
Thorium (Th)-Total	0.000256		0.00010	mg/L		13-JUL-20	R5151279
Tin (Sn)-Total	0.00007	<DL	0.00010	mg/L		13-JUL-20	R5151279
Titanium (Ti)-Total	0.0345		0.00030	mg/L		13-JUL-20	R5151279
Tungsten (W)-Total	0.000010	<DL	0.00010	mg/L		13-JUL-20	R5151279
Uranium (U)-Total	0.000553	<T	0.000010	mg/L		13-JUL-20	R5151279
Vanadium (V)-Total	0.00486	<T	0.00050	mg/L		13-JUL-20	R5151279
Zinc (Zn)-Total	0.0062	<T	0.0030	mg/L		13-JUL-20	R5151279
Zirconium (Zr)-Total	0.00121		0.00020	mg/L		13-JUL-20	R5151279
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					12-JUL-20	R5149142
Aluminum (Al)-Dissolved	0.0322		0.0050	mg/L		13-JUL-20	R5149960
Antimony (Sb)-Dissolved	0.000080	<DL	0.00010	mg/L		13-JUL-20	R5149960
Arsenic (As)-Dissolved	0.00244	<T	0.00010	mg/L		13-JUL-20	R5149960
Barium (Ba)-Dissolved	0.0186		0.00010	mg/L		13-JUL-20	R5149960
Beryllium (Be)-Dissolved	0.000030	<DL	0.00010	mg/L		13-JUL-20	R5149960
Bismuth (Bi)-Dissolved	0.000005	<DL	0.000050	mg/L		13-JUL-20	R5149960
Boron (B)-Dissolved	0.018		0.010	mg/L		13-JUL-20	R5149960
Cadmium (Cd)-Dissolved	0.0000120	<T	0.0000050	mg/L		13-JUL-20	R5149960
Calcium (Ca)-Dissolved	28.0		0.050	mg/L		13-JUL-20	R5149960
Cesium (Cs)-Dissolved	0.0000024	<DL	0.000010	mg/L		13-JUL-20	R5149960
Chromium (Cr)-Dissolved	0.00022	<DL	0.00050	mg/L		13-JUL-20	R5149960
Cobalt (Co)-Dissolved	0.000202	<T	0.00010	mg/L		13-JUL-20	R5149960
Copper (Cu)-Dissolved	0.00245	<T	0.00020	mg/L		13-JUL-20	R5149960
Iron (Fe)-Dissolved	0.241		0.010	mg/L		13-JUL-20	R5149960
Lead (Pb)-Dissolved	0.00020	<T	0.000050	mg/L		13-JUL-20	R5149960
Lithium (Li)-Dissolved	0.0050	<T	0.0010	mg/L		13-JUL-20	R5149960
Magnesium (Mg)-Dissolved	11.8		0.0050	mg/L		13-JUL-20	R5149960
Manganese (Mn)-Dissolved	0.0539		0.00050	mg/L		13-JUL-20	R5149960
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		14-JUL-20	R5152045
Molybdenum (Mo)-Dissolved	0.000525	<T	0.000050	mg/L		13-JUL-20	R5149960
Nickel (Ni)-Dissolved	0.00214	<T	0.00050	mg/L		13-JUL-20	R5149960
Phosphorus (P)-Dissolved	0.034	<DL	0.050	mg/L		13-JUL-20	R5149960
Potassium (K)-Dissolved	0.946		0.050	mg/L		13-JUL-20	R5149960
Rubidium (Rb)-Dissolved	0.00147		0.00020	mg/L		13-JUL-20	R5149960
Selenium (Se)-Dissolved	0.000272	<T	0.000050	mg/L		13-JUL-20	R5149960
Silicon (Si)-Dissolved	3.45		0.050	mg/L		13-JUL-20	R5149960
Silver (Ag)-Dissolved	0.0000015	<DL	0.000050	mg/L		13-JUL-20	R5149960
Sodium (Na)-Dissolved	3.10		0.050	mg/L		13-JUL-20	R5149960
Strontium (Sr)-Dissolved	0.0605		0.0010	mg/L		13-JUL-20	R5149960
Sulfur (S)-Dissolved	2.50		0.50	mg/L		13-JUL-20	R5149960

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-5 SW16 Sampled By: Client on 07-JUL-20 @ 12:15 Matrix: Water							
Dissolved Metals							
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		13-JUL-20	R5149960
Thallium (Tl)-Dissolved	0.000005	<DL	0.000010	mg/L		13-JUL-20	R5149960
Thorium (Th)-Dissolved	0.000146		0.00010	mg/L		13-JUL-20	R5149960
Tin (Sn)-Dissolved	0.00004	<DL	0.00010	mg/L		13-JUL-20	R5149960
Titanium (Ti)-Dissolved	0.00648		0.00030	mg/L		13-JUL-20	R5149960
Tungsten (W)-Dissolved	0.000016	<DL	0.00010	mg/L		13-JUL-20	R5149960
Uranium (U)-Dissolved	0.000455	<T	0.000010	mg/L		13-JUL-20	R5149960
Vanadium (V)-Dissolved	0.00180	<T	0.00050	mg/L		13-JUL-20	R5149960
Zinc (Zn)-Dissolved	0.0012	<T	0.0010	mg/L		13-JUL-20	R5149960
Zirconium (Zr)-Dissolved	0.000956		0.00020	mg/L		13-JUL-20	R5149960
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		10-JUL-20	R5154048
COD	108		10	mg/L		20-JUL-20	R5158418
Oil and Grease, Total	0.6	<DL	1.0	mg/L	16-JUL-20	16-JUL-20	R5156137
L2472458-6 SW16 Sampled By: Client on 07-JUL-20 @ 14:20 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	7.05		0	mg/L		13-JUL-20	R5149208
pH, Client Supplied	7.56		0.10	pH		15-JUL-20	R5153541
Temperature, Client	26.3		-50	Deg. C		15-JUL-20	R5153541
Physical Tests							
Color, True	43.4		2.0	CU		10-JUL-20	R5147871
Conductivity (EC)	84.6		1.0	uS/cm		11-JUL-20	R5148736
Hardness (as CaCO3)	35.9		0.50			10-JUL-20	
pH	7.72		0.10	pH		11-JUL-20	R5148736
Total Suspended Solids	10.0		3.0	mg/L		15-JUL-20	R5154544
Total Dissolved Solids	68		13	mg/L		14-JUL-20	R5153966
Turbidity	8.24		0.10	NTU		10-JUL-20	R5147928
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		12-JUL-20	R5152626
Alkalinity, Total (as CaCO3)	36.2		2.0	mg/L		11-JUL-20	R5148736
Unionized ammonia	0.00066		0.00054	mg/L		16-JUL-20	
Ammonia, Total (as N)	0.024	<T	0.020	mg/L		15-JUL-20	R5155599
Chloride (Cl)	3.09		0.10	mg/L	10-JUL-20	10-JUL-20	R5148636
Fluoride (F)	0.047		0.020	mg/L	10-JUL-20	10-JUL-20	R5148636
Nitrate (as N)	0.026	<T	0.020	mg/L		10-JUL-20	R5148636
Nitrite (as N)	<0.001	<W	0.010	mg/L		10-JUL-20	R5148636
Total Kjeldahl Nitrogen	0.55		0.18	mg/L	14-JUL-20	15-JUL-20	R5154030
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	10-JUL-20	10-JUL-20	R5148676
Sulfate (SO4)	4.15	<T	0.30	mg/L		10-JUL-20	R5148636
Cyanides							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-6 SW16							
Sampled By: Client on 07-JUL-20 @ 14:20							
Matrix: Water							
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Total	0.0004	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Free	0.0006	<DL	0.0020	mg/L		13-JUL-20	R5152261
Organic / Inorganic Carbon							
Dissolved Organic Carbon	17.0	DLM	5.0	mg/L	10-JUL-20	16-JUL-20	R5157078
Total Organic Carbon	22.6	DLM	5.0	mg/L		16-JUL-20	R5157084
Total Metals							
Aluminum (Al)-Total	0.197		0.0050	mg/L		13-JUL-20	R5151279
Antimony (Sb)-Total	0.000035	<DL	0.00010	mg/L		13-JUL-20	R5151279
Arsenic (As)-Total	0.000585	<T	0.00010	mg/L		13-JUL-20	R5151279
Barium (Ba)-Total	0.0116		0.00010	mg/L		13-JUL-20	R5151279
Beryllium (Be)-Total	0.000018	<DL	0.00010	mg/L		13-JUL-20	R5151279
Bismuth (Bi)-Total	0.000005	<DL	0.000050	mg/L		13-JUL-20	R5151279
Boron (B)-Total	0.008	<DL	0.010	mg/L		13-JUL-20	R5151279
Cadmium (Cd)-Total	0.0000110	<T	0.0000050	mg/L		13-JUL-20	R5151279
Calcium (Ca)-Total	9.79		0.050	mg/L		13-JUL-20	R5151279
Cesium (Cs)-Total	0.0000376		0.000010	mg/L		13-JUL-20	R5151279
Chromium (Cr)-Total	0.00054	<T	0.00050	mg/L		13-JUL-20	R5151279
Cobalt (Co)-Total	0.000172	<T	0.00010	mg/L		13-JUL-20	R5151279
Copper (Cu)-Total	0.00125	<T	0.00050	mg/L		13-JUL-20	R5151279
Iron (Fe)-Total	0.321		0.010	mg/L		13-JUL-20	R5151279
Lead (Pb)-Total	0.00020	<T	0.000050	mg/L		13-JUL-20	R5151279
Lithium (Li)-Total	0.0014	<T	0.0010	mg/L		13-JUL-20	R5151279
Magnesium (Mg)-Total	3.27		0.0050	mg/L		13-JUL-20	R5151279
Manganese (Mn)-Total	0.0293		0.00050	mg/L		13-JUL-20	R5151279
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-JUL-20	R5149902
Molybdenum (Mo)-Total	0.000225	<T	0.000050	mg/L		13-JUL-20	R5151279
Nickel (Ni)-Total	0.00100	<T	0.00050	mg/L		13-JUL-20	R5151279
Phosphorus (P)-Total	0.022	<DL	0.050	mg/L		13-JUL-20	R5151279
Potassium (K)-Total	0.814		0.050	mg/L		13-JUL-20	R5151279
Rubidium (Rb)-Total	0.00216		0.00020	mg/L		13-JUL-20	R5151279
Selenium (Se)-Total	0.000108	<T	0.000050	mg/L		13-JUL-20	R5151279
Silicon (Si)-Total	1.98		0.10	mg/L		13-JUL-20	R5151279
Silver (Ag)-Total	<0.0000005	<W	0.000050	mg/L		13-JUL-20	R5151279
Sodium (Na)-Total	3.21		0.050	mg/L		13-JUL-20	R5151279
Strontium (Sr)-Total	0.0254		0.0010	mg/L		13-JUL-20	R5151279
Sulfur (S)-Total	1.50		0.50	mg/L		13-JUL-20	R5151279
Tellurium (Te)-Total	0.000010	<DL	0.00020	mg/L		13-JUL-20	R5151279
Thallium (Tl)-Total	0.000007	<DL	0.000010	mg/L		13-JUL-20	R5151279
Thorium (Th)-Total	0.000054	<DL	0.00010	mg/L		13-JUL-20	R5151279
Tin (Sn)-Total	0.00005	<DL	0.00010	mg/L		13-JUL-20	R5151279

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-6 SW16							
Sampled By: Client on 07-JUL-20 @ 14:20							
Matrix: Water							
Total Metals							
Titanium (Ti)-Total	0.00610		0.00030	mg/L		13-JUL-20	R5151279
Tungsten (W)-Total	0.000014	<DL	0.00010	mg/L		13-JUL-20	R5151279
Uranium (U)-Total	0.000146	<T	0.000010	mg/L		13-JUL-20	R5151279
Vanadium (V)-Total	0.00088	<T	0.00050	mg/L		13-JUL-20	R5151279
Zinc (Zn)-Total	0.0016	<DL	0.0030	mg/L		13-JUL-20	R5151279
Zirconium (Zr)-Total	0.000280		0.00020	mg/L		13-JUL-20	R5151279
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					12-JUL-20	R5149142
Aluminum (Al)-Dissolved	0.0278	<T	0.0050	mg/L		13-JUL-20	R5149960
Antimony (Sb)-Dissolved	0.000015	<DL	0.00010	mg/L		13-JUL-20	R5149960
Arsenic (As)-Dissolved	0.000595	<T	0.00010	mg/L		13-JUL-20	R5149960
Barium (Ba)-Dissolved	0.0100		0.00010	mg/L		13-JUL-20	R5149960
Beryllium (Be)-Dissolved	0.000006	<DL	0.00010	mg/L		13-JUL-20	R5149960
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		13-JUL-20	R5149960
Boron (B)-Dissolved	0.006	<DL	0.010	mg/L		13-JUL-20	R5149960
Cadmium (Cd)-Dissolved	0.0000086	<T	0.0000050	mg/L		13-JUL-20	R5149960
Calcium (Ca)-Dissolved	9.07		0.050	mg/L		13-JUL-20	R5149960
Cesium (Cs)-Dissolved	0.0000024	<DL	0.000010	mg/L		13-JUL-20	R5149960
Chromium (Cr)-Dissolved	0.00022	<DL	0.00050	mg/L		13-JUL-20	R5149960
Cobalt (Co)-Dissolved	0.000044	<DL	0.00010	mg/L		13-JUL-20	R5149960
Copper (Cu)-Dissolved	0.00105	<T	0.00020	mg/L		13-JUL-20	R5149960
Iron (Fe)-Dissolved	0.086		0.010	mg/L		13-JUL-20	R5149960
Lead (Pb)-Dissolved	0.00006	<T	0.000050	mg/L		13-JUL-20	R5149960
Lithium (Li)-Dissolved	0.0012	<T	0.0010	mg/L		13-JUL-20	R5149960
Magnesium (Mg)-Dissolved	3.21		0.0050	mg/L		13-JUL-20	R5149960
Manganese (Mn)-Dissolved	0.0146		0.00050	mg/L		13-JUL-20	R5149960
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		14-JUL-20	R5152045
Molybdenum (Mo)-Dissolved	0.000220	<T	0.000050	mg/L		13-JUL-20	R5149960
Nickel (Ni)-Dissolved	0.00072	<T	0.00050	mg/L		13-JUL-20	R5149960
Phosphorus (P)-Dissolved	0.006	<DL	0.050	mg/L		13-JUL-20	R5149960
Potassium (K)-Dissolved	0.788		0.050	mg/L		13-JUL-20	R5149960
Rubidium (Rb)-Dissolved	0.00162		0.00020	mg/L		13-JUL-20	R5149960
Selenium (Se)-Dissolved	0.000158	<T	0.000050	mg/L		13-JUL-20	R5149960
Silicon (Si)-Dissolved	1.74		0.050	mg/L		13-JUL-20	R5149960
Silver (Ag)-Dissolved	<0.0000005	<W	0.000050	mg/L		13-JUL-20	R5149960
Sodium (Na)-Dissolved	3.32		0.050	mg/L		13-JUL-20	R5149960
Strontium (Sr)-Dissolved	0.0252		0.0010	mg/L		13-JUL-20	R5149960
Sulfur (S)-Dissolved	1.55		0.50	mg/L		13-JUL-20	R5149960
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		13-JUL-20	R5149960
Thallium (Tl)-Dissolved	0.000003	<DL	0.000010	mg/L		13-JUL-20	R5149960
Thorium (Th)-Dissolved	0.000044	<DL	0.00010	mg/L		13-JUL-20	R5149960

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-6 SW16 Sampled By: Client on 07-JUL-20 @ 14:20 Matrix: Water							
Dissolved Metals							
Tin (Sn)-Dissolved	0.00004	<DL	0.00010	mg/L		13-JUL-20	R5149960
Titanium (Ti)-Dissolved	0.00170		0.00030	mg/L		13-JUL-20	R5149960
Tungsten (W)-Dissolved	0.000012	<DL	0.00010	mg/L		13-JUL-20	R5149960
Uranium (U)-Dissolved	0.000117	<T	0.000010	mg/L		13-JUL-20	R5149960
Vanadium (V)-Dissolved	0.00042	<DL	0.00050	mg/L		13-JUL-20	R5149960
Zinc (Zn)-Dissolved	0.0012	<T	0.0010	mg/L		13-JUL-20	R5149960
Zirconium (Zr)-Dissolved	0.000196	<DL	0.00020	mg/L		13-JUL-20	R5149960
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		10-JUL-20	R5154048
COD	44		10	mg/L		20-JUL-20	R5158418
Oil and Grease, Total	5.8		1.0	mg/L	16-JUL-20	16-JUL-20	R5156137
L2472458-7 SW17 Sampled By: Client on 07-JUL-20 @ 13:20 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	9.37		0	mg/L		13-JUL-20	R5149208
pH, Client Supplied	8.21		0.10	pH		15-JUL-20	R5153541
Temperature, Client	27.7		-50	Deg. C		15-JUL-20	R5153541
Physical Tests							
Color, True	47.1		2.0	CU		10-JUL-20	R5147871
Conductivity (EC)	85.6		1.0	uS/cm		11-JUL-20	R5148736
Hardness (as CaCO3)	38.2		0.50			10-JUL-20	
pH	7.78		0.10	pH		11-JUL-20	R5148736
Total Suspended Solids	6.0		3.0	mg/L		15-JUL-20	R5154544
Total Dissolved Solids	68		13	mg/L		14-JUL-20	R5153966
Turbidity	3.74		0.10	NTU		10-JUL-20	R5147928
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		12-JUL-20	R5152626
Alkalinity, Total (as CaCO3)	37.4		2.0	mg/L		11-JUL-20	R5148736
Unionized ammonia	0.0040		0.0024	mg/L		16-JUL-20	
Ammonia, Total (as N)	0.032	<T	0.020	mg/L		15-JUL-20	R5155599
Chloride (Cl)	2.67		0.10	mg/L	10-JUL-20	10-JUL-20	R5148636
Fluoride (F)	0.040		0.020	mg/L	10-JUL-20	10-JUL-20	R5148636
Nitrate (as N)	0.012	<DL	0.020	mg/L		10-JUL-20	R5148636
Nitrite (as N)	<0.001	<W	0.010	mg/L		10-JUL-20	R5148636
Total Kjeldahl Nitrogen	0.60		0.18	mg/L	14-JUL-20	15-JUL-20	R5154030
Orthophosphate-Dissolved (as P)	0.0061		0.0030	mg/L	10-JUL-20	10-JUL-20	R5148676
Sulfate (SO4)	3.35	<T	0.30	mg/L		10-JUL-20	R5148636
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Total	0.0004	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Free	0.0004	<DL	0.0020	mg/L		13-JUL-20	R5152261

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-7 SW17							
Sampled By: Client on 07-JUL-20 @ 13:20							
Matrix: Water							
Cyanides							
Organic / Inorganic Carbon							
Dissolved Organic Carbon	18.3	DLM	5.0	mg/L	10-JUL-20	16-JUL-20	R5157078
Total Organic Carbon	20.7	DLM	5.0	mg/L		16-JUL-20	R5157084
Total Metals							
Aluminum (Al)-Total	0.121		0.0050	mg/L		13-JUL-20	R5151279
Antimony (Sb)-Total	0.000030	<DL	0.00010	mg/L		13-JUL-20	R5151279
Arsenic (As)-Total	0.000640	<T	0.00010	mg/L		13-JUL-20	R5151279
Barium (Ba)-Total	0.0101		0.00010	mg/L		13-JUL-20	R5151279
Beryllium (Be)-Total	0.000010	<DL	0.00010	mg/L		13-JUL-20	R5151279
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		13-JUL-20	R5151279
Boron (B)-Total	0.008	<DL	0.010	mg/L		13-JUL-20	R5151279
Cadmium (Cd)-Total	0.0000104	<T	0.0000050	mg/L		13-JUL-20	R5151279
Calcium (Ca)-Total	9.99		0.050	mg/L		13-JUL-20	R5151279
Cesium (Cs)-Total	0.0000184		0.000010	mg/L		13-JUL-20	R5151279
Chromium (Cr)-Total	0.00040	<DL	0.00050	mg/L		13-JUL-20	R5151279
Cobalt (Co)-Total	0.000106	<T	0.00010	mg/L		13-JUL-20	R5151279
Copper (Cu)-Total	0.00115	<T	0.00050	mg/L		13-JUL-20	R5151279
Iron (Fe)-Total	0.222		0.010	mg/L		13-JUL-20	R5151279
Lead (Pb)-Total	0.00014	<T	0.000050	mg/L		13-JUL-20	R5151279
Lithium (Li)-Total	0.0012	<T	0.0010	mg/L		13-JUL-20	R5151279
Magnesium (Mg)-Total	3.42		0.0050	mg/L		13-JUL-20	R5151279
Manganese (Mn)-Total	0.0355		0.00050	mg/L		13-JUL-20	R5151279
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-JUL-20	R5149902
Molybdenum (Mo)-Total	0.000180	<T	0.000050	mg/L		13-JUL-20	R5151279
Nickel (Ni)-Total	0.00080	<T	0.00050	mg/L		13-JUL-20	R5151279
Phosphorus (P)-Total	0.016	<DL	0.050	mg/L		13-JUL-20	R5151279
Potassium (K)-Total	0.654		0.050	mg/L		13-JUL-20	R5151279
Rubidium (Rb)-Total	0.00190		0.00020	mg/L		13-JUL-20	R5151279
Selenium (Se)-Total	0.000102	<T	0.000050	mg/L		13-JUL-20	R5151279
Silicon (Si)-Total	1.95		0.10	mg/L		13-JUL-20	R5151279
Silver (Ag)-Total	<0.0000005	<W	0.000050	mg/L		13-JUL-20	R5151279
Sodium (Na)-Total	2.92		0.050	mg/L		13-JUL-20	R5151279
Strontium (Sr)-Total	0.0245		0.0010	mg/L		13-JUL-20	R5151279
Sulfur (S)-Total	1.40		0.50	mg/L		13-JUL-20	R5151279
Tellurium (Te)-Total	<0.000005	<W	0.00020	mg/L		13-JUL-20	R5151279
Thallium (Tl)-Total	0.000005	<DL	0.000010	mg/L		13-JUL-20	R5151279
Thorium (Th)-Total	0.000044	<DL	0.00010	mg/L		13-JUL-20	R5151279
Tin (Sn)-Total	0.00018		0.00010	mg/L		13-JUL-20	R5151279
Titanium (Ti)-Total	0.00388		0.00030	mg/L		13-JUL-20	R5151279
Tungsten (W)-Total	0.000012	<DL	0.00010	mg/L		13-JUL-20	R5151279
Uranium (U)-Total	0.000106	<T	0.000010	mg/L		13-JUL-20	R5151279

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-7 SW17							
Sampled By: Client on 07-JUL-20 @ 13:20							
Matrix: Water							
Total Metals							
Vanadium (V)-Total	0.00074	<T	0.00050	mg/L		13-JUL-20	R5151279
Zinc (Zn)-Total	0.0012	<DL	0.0030	mg/L		13-JUL-20	R5151279
Zirconium (Zr)-Total	0.000208		0.00020	mg/L		13-JUL-20	R5151279
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					12-JUL-20	R5149142
Aluminum (Al)-Dissolved	0.0326		0.0050	mg/L		13-JUL-20	R5149960
Antimony (Sb)-Dissolved	0.000010	<DL	0.00010	mg/L		13-JUL-20	R5149960
Arsenic (As)-Dissolved	0.000675	<T	0.00010	mg/L		13-JUL-20	R5149960
Barium (Ba)-Dissolved	0.00914		0.00010	mg/L		13-JUL-20	R5149960
Beryllium (Be)-Dissolved	0.000008	<DL	0.00010	mg/L		13-JUL-20	R5149960
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		13-JUL-20	R5149960
Boron (B)-Dissolved	0.006	<DL	0.010	mg/L		13-JUL-20	R5149960
Cadmium (Cd)-Dissolved	0.0000070	<T	0.0000050	mg/L		13-JUL-20	R5149960
Calcium (Ca)-Dissolved	9.70		0.050	mg/L		13-JUL-20	R5149960
Cesium (Cs)-Dissolved	0.0000024	<DL	0.000010	mg/L		13-JUL-20	R5149960
Chromium (Cr)-Dissolved	0.00020	<DL	0.00050	mg/L		13-JUL-20	R5149960
Cobalt (Co)-Dissolved	0.000054	<DL	0.00010	mg/L		13-JUL-20	R5149960
Copper (Cu)-Dissolved	0.00100	<T	0.00020	mg/L		13-JUL-20	R5149960
Iron (Fe)-Dissolved	0.100		0.010	mg/L		13-JUL-20	R5149960
Lead (Pb)-Dissolved	0.00006	<T	0.000050	mg/L		13-JUL-20	R5149960
Lithium (Li)-Dissolved	0.0012	<T	0.0010	mg/L		13-JUL-20	R5149960
Magnesium (Mg)-Dissolved	3.39		0.0050	mg/L		13-JUL-20	R5149960
Manganese (Mn)-Dissolved	0.0212		0.00050	mg/L		13-JUL-20	R5149960
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		14-JUL-20	R5152045
Molybdenum (Mo)-Dissolved	0.000190	<T	0.000050	mg/L		13-JUL-20	R5149960
Nickel (Ni)-Dissolved	0.00068	<T	0.00050	mg/L		13-JUL-20	R5149960
Phosphorus (P)-Dissolved	0.016	<DL	0.050	mg/L		13-JUL-20	R5149960
Potassium (K)-Dissolved	0.634		0.050	mg/L		13-JUL-20	R5149960
Rubidium (Rb)-Dissolved	0.00164		0.00020	mg/L		13-JUL-20	R5149960
Selenium (Se)-Dissolved	0.000128	<T	0.000050	mg/L		13-JUL-20	R5149960
Silicon (Si)-Dissolved	1.82		0.050	mg/L		13-JUL-20	R5149960
Silver (Ag)-Dissolved	<0.0000005	<W	0.000050	mg/L		13-JUL-20	R5149960
Sodium (Na)-Dissolved	3.06		0.050	mg/L		13-JUL-20	R5149960
Strontium (Sr)-Dissolved	0.0243		0.0010	mg/L		13-JUL-20	R5149960
Sulfur (S)-Dissolved	1.45		0.50	mg/L		13-JUL-20	R5149960
Tellurium (Te)-Dissolved	<0.000005	<W	0.00020	mg/L		13-JUL-20	R5149960
Thallium (Tl)-Dissolved	0.000003	<DL	0.000010	mg/L		13-JUL-20	R5149960
Thorium (Th)-Dissolved	0.000038	<DL	0.00010	mg/L		13-JUL-20	R5149960
Tin (Sn)-Dissolved	0.00004	<DL	0.00010	mg/L		13-JUL-20	R5149960
Titanium (Ti)-Dissolved	0.00166		0.00030	mg/L		13-JUL-20	R5149960
Tungsten (W)-Dissolved	0.000006	<DL	0.00010	mg/L		13-JUL-20	R5149960

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-7 SW17 Sampled By: Client on 07-JUL-20 @ 13:20 Matrix: Water							
Dissolved Metals							
Uranium (U)-Dissolved	0.0000910	<T	0.000010	mg/L		13-JUL-20	R5149960
Vanadium (V)-Dissolved	0.00052	<T	0.00050	mg/L		13-JUL-20	R5149960
Zinc (Zn)-Dissolved	0.0010	<T	0.0010	mg/L		13-JUL-20	R5149960
Zirconium (Zr)-Dissolved	0.000236	<T	0.00020	mg/L		13-JUL-20	R5149960
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		10-JUL-20	R5154048
COD	44		10	mg/L		20-JUL-20	R5158418
Oil and Grease, Total	0.4	<DL	1.0	mg/L	16-JUL-20	16-JUL-20	R5156137
L2472458-8 SW20 Sampled By: Client on 07-JUL-20 @ 11:20 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	0		0	mg/L		13-JUL-20	R5149208
pH, Client Supplied	6.94		0.10	pH		15-JUL-20	R5153541
Temperature, Client	21.7		-50	Deg. C		15-JUL-20	R5153541
Physical Tests							
Color, True	147		2.0	CU		10-JUL-20	R5147871
Conductivity (EC)	322		1.0	uS/cm		11-JUL-20	R5148736
Hardness (as CaCO3)	166		0.50			10-JUL-20	
pH	7.83		0.10	pH		11-JUL-20	R5148736
Total Suspended Solids	7.0		3.0	mg/L		13-JUL-20	R5151896
Total Dissolved Solids	282		20	mg/L		13-JUL-20	R5152091
Turbidity	3.13		0.10	NTU		10-JUL-20	R5147928
Anions and Nutrients							
Acidity (as CaCO3)	1.4	<DL	2.0	mg/L		12-JUL-20	R5152626
Alkalinity, Total (as CaCO3)	156		2.0	mg/L		11-JUL-20	R5148736
Unionized ammonia	0.000139		0.000094	mg/L		16-JUL-20	
Ammonia, Total (as N)	0.030	<T	0.020	mg/L		15-JUL-20	R5155599
Chloride (Cl)	19.4		0.10	mg/L	10-JUL-20	10-JUL-20	R5148636
Fluoride (F)	0.072		0.020	mg/L	10-JUL-20	10-JUL-20	R5148636
Nitrate (as N)	0.008	<DL	0.020	mg/L		10-JUL-20	R5148636
Nitrite (as N)	<0.001	<W	0.010	mg/L		10-JUL-20	R5148636
Total Kjeldahl Nitrogen	1.25		0.18	mg/L	14-JUL-20	15-JUL-20	R5154030
Orthophosphate-Dissolved (as P)	0.0341		0.0030	mg/L	10-JUL-20	10-JUL-20	R5148676
Sulfate (SO4)	1.70	<T	0.30	mg/L		10-JUL-20	R5148636
Cyanides							
Cyanide, Weak Acid Diss	0.0008	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Total	0.0010	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Free	0.0012	<DL	0.0020	mg/L		13-JUL-20	R5152261
Organic / Inorganic Carbon							
Dissolved Organic Carbon	45.8	DLM	5.0	mg/L	10-JUL-20	16-JUL-20	R5157078
Total Organic Carbon	53.6	DLM	5.0	mg/L		16-JUL-20	R5157084

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-8 SW20							
Sampled By: Client on 07-JUL-20 @ 11:20							
Matrix: Water							
Total Metals							
Aluminum (Al)-Total	0.0388		0.0050	mg/L		13-JUL-20	R5151279
Antimony (Sb)-Total	0.000060	<DL	0.00010	mg/L		13-JUL-20	R5151279
Arsenic (As)-Total	0.00305	<T	0.00010	mg/L		13-JUL-20	R5151279
Barium (Ba)-Total	0.0203		0.00010	mg/L		13-JUL-20	R5151279
Beryllium (Be)-Total	0.000022	<DL	0.00010	mg/L		13-JUL-20	R5151279
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		13-JUL-20	R5151279
Boron (B)-Total	0.024	<T	0.010	mg/L		13-JUL-20	R5151279
Cadmium (Cd)-Total	0.0000040	<DL	0.0000050	mg/L		13-JUL-20	R5151279
Calcium (Ca)-Total	41.3		0.050	mg/L		13-JUL-20	R5151279
Cesium (Cs)-Total	0.0000034	<DL	0.000010	mg/L		13-JUL-20	R5151279
Chromium (Cr)-Total	0.00036	<DL	0.00050	mg/L		13-JUL-20	R5151279
Cobalt (Co)-Total	0.000730	<T	0.00010	mg/L		13-JUL-20	R5151279
Copper (Cu)-Total	0.00035	<DL	0.00050	mg/L		13-JUL-20	R5151279
Iron (Fe)-Total	1.05		0.010	mg/L		13-JUL-20	R5151279
Lead (Pb)-Total	0.00008	<T	0.000050	mg/L		13-JUL-20	R5151279
Lithium (Li)-Total	0.0064	<T	0.0010	mg/L		13-JUL-20	R5151279
Magnesium (Mg)-Total	15.3		0.0050	mg/L		13-JUL-20	R5151279
Manganese (Mn)-Total	0.728		0.00050	mg/L		13-JUL-20	R5151279
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-JUL-20	R5149902
Molybdenum (Mo)-Total	0.000420	<T	0.000050	mg/L		13-JUL-20	R5151279
Nickel (Ni)-Total	0.00190	<T	0.00050	mg/L		13-JUL-20	R5151279
Phosphorus (P)-Total	0.106		0.050	mg/L		13-JUL-20	R5151279
Potassium (K)-Total	1.05		0.050	mg/L		13-JUL-20	R5151279
Rubidium (Rb)-Total	0.00205		0.00020	mg/L		13-JUL-20	R5151279
Selenium (Se)-Total	0.000252	<T	0.000050	mg/L		13-JUL-20	R5151279
Silicon (Si)-Total	4.89		0.10	mg/L		13-JUL-20	R5151279
Silver (Ag)-Total	<0.0000005	<W	0.000050	mg/L		13-JUL-20	R5151279
Sodium (Na)-Total	10.9		0.050	mg/L		13-JUL-20	R5151279
Strontium (Sr)-Total	0.0992		0.0010	mg/L		13-JUL-20	R5151279
Sulfur (S)-Total	1.40		0.50	mg/L		13-JUL-20	R5151279
Tellurium (Te)-Total	0.000010	<DL	0.00020	mg/L		13-JUL-20	R5151279
Thallium (Tl)-Total	0.000001	<DL	0.000010	mg/L		13-JUL-20	R5151279
Thorium (Th)-Total	0.000032	<DL	0.00010	mg/L		13-JUL-20	R5151279
Tin (Sn)-Total	0.00012		0.00010	mg/L		13-JUL-20	R5151279
Titanium (Ti)-Total	0.00168		0.00030	mg/L		13-JUL-20	R5151279
Tungsten (W)-Total	0.000002	<DL	0.00010	mg/L		13-JUL-20	R5151279
Uranium (U)-Total	0.000284	<T	0.000010	mg/L		13-JUL-20	R5151279
Vanadium (V)-Total	0.00066	<T	0.00050	mg/L		13-JUL-20	R5151279
Zinc (Zn)-Total	0.0008	<DL	0.0030	mg/L		13-JUL-20	R5151279
Zirconium (Zr)-Total	0.000364		0.00020	mg/L		13-JUL-20	R5151279
Dissolved Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-8 SW20							
Sampled By: Client on 07-JUL-20 @ 11:20							
Matrix: Water							
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					12-JUL-20	R5149142
Aluminum (Al)-Dissolved	0.0094	<T	0.0050	mg/L		13-JUL-20	R5149960
Antimony (Sb)-Dissolved	0.000040	<DL	0.00010	mg/L		13-JUL-20	R5149960
Arsenic (As)-Dissolved	0.00309	<T	0.00010	mg/L		13-JUL-20	R5149960
Barium (Ba)-Dissolved	0.0192		0.00010	mg/L		13-JUL-20	R5149960
Beryllium (Be)-Dissolved	0.000018	<DL	0.00010	mg/L		13-JUL-20	R5149960
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		13-JUL-20	R5149960
Boron (B)-Dissolved	0.024		0.010	mg/L		13-JUL-20	R5149960
Cadmium (Cd)-Dissolved	0.0000036	<DL	0.0000050	mg/L		13-JUL-20	R5149960
Calcium (Ca)-Dissolved	40.0		0.050	mg/L		13-JUL-20	R5149960
Cesium (Cs)-Dissolved	0.0000004	<DL	0.000010	mg/L		13-JUL-20	R5149960
Chromium (Cr)-Dissolved	0.00028	<DL	0.00050	mg/L		13-JUL-20	R5149960
Cobalt (Co)-Dissolved	0.000644	<T	0.00010	mg/L		13-JUL-20	R5149960
Copper (Cu)-Dissolved	0.00030	<T	0.00020	mg/L		13-JUL-20	R5149960
Iron (Fe)-Dissolved	0.617		0.010	mg/L		13-JUL-20	R5149960
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		13-JUL-20	R5149960
Lithium (Li)-Dissolved	0.0066	<T	0.0010	mg/L		13-JUL-20	R5149960
Magnesium (Mg)-Dissolved	16.0		0.0050	mg/L		13-JUL-20	R5149960
Manganese (Mn)-Dissolved	0.593		0.00050	mg/L		13-JUL-20	R5149960
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		14-JUL-20	R5152045
Molybdenum (Mo)-Dissolved	0.000405	<T	0.000050	mg/L		13-JUL-20	R5149960
Nickel (Ni)-Dissolved	0.00190	<T	0.00050	mg/L		13-JUL-20	R5149960
Phosphorus (P)-Dissolved	0.088		0.050	mg/L		13-JUL-20	R5149960
Potassium (K)-Dissolved	1.07		0.050	mg/L		13-JUL-20	R5149960
Rubidium (Rb)-Dissolved	0.00196		0.00020	mg/L		13-JUL-20	R5149960
Selenium (Se)-Dissolved	0.000332	<T	0.000050	mg/L		13-JUL-20	R5149960
Silicon (Si)-Dissolved	5.08		0.050	mg/L		13-JUL-20	R5149960
Silver (Ag)-Dissolved	<0.0000005	<W	0.000050	mg/L		13-JUL-20	R5149960
Sodium (Na)-Dissolved	11.3		0.050	mg/L		13-JUL-20	R5149960
Strontium (Sr)-Dissolved	0.0996		0.0010	mg/L		13-JUL-20	R5149960
Sulfur (S)-Dissolved	1.40		0.50	mg/L		13-JUL-20	R5149960
Tellurium (Te)-Dissolved	0.000015	<DL	0.00020	mg/L		13-JUL-20	R5149960
Thallium (Tl)-Dissolved	<0.000001	<W	0.000010	mg/L		13-JUL-20	R5149960
Thorium (Th)-Dissolved	0.000030	<DL	0.00010	mg/L		13-JUL-20	R5149960
Tin (Sn)-Dissolved	0.00006	<DL	0.00010	mg/L		13-JUL-20	R5149960
Titanium (Ti)-Dissolved	0.00076		0.00030	mg/L		13-JUL-20	R5149960
Tungsten (W)-Dissolved	0.000002	<DL	0.00010	mg/L		13-JUL-20	R5149960
Uranium (U)-Dissolved	0.000277	<T	0.000010	mg/L		13-JUL-20	R5149960
Vanadium (V)-Dissolved	0.00048	<DL	0.00050	mg/L		13-JUL-20	R5149960
Zinc (Zn)-Dissolved	0.0016	<T	0.0010	mg/L		13-JUL-20	R5149960
Zirconium (Zr)-Dissolved	0.000416		0.00020	mg/L		13-JUL-20	R5149960

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-8 SW20 Sampled By: Client on 07-JUL-20 @ 11:20 Matrix: Water							
Dissolved Metals							
Aggregate Organics							
Biochemical Oxygen Demand	2.0		2.0	mg/L		10-JUL-20	R5154048
COD	112		10	mg/L		20-JUL-20	R5158418
Oil and Grease, Total	<0.2	<W	1.0	mg/L	16-JUL-20	16-JUL-20	R5156137
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		29-JUL-20	R5172694
L2472458-9 SW23 Sampled By: Client on 07-JUL-20 @ 11:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	4.86		0	mg/L		13-JUL-20	R5149208
pH, Client Supplied	7.48		0.10	pH		15-JUL-20	R5153541
Temperature, Client	23.7		-50	Deg. C		15-JUL-20	R5153541
Physical Tests							
Color, True	208		2.0	CU		10-JUL-20	R5147871
Conductivity (EC)	281		1.0	uS/cm		11-JUL-20	R5148736
Hardness (as CaCO3)	165		0.50			10-JUL-20	
pH	7.99		0.10	pH		11-JUL-20	R5148736
Total Suspended Solids	12.0		3.0	mg/L		13-JUL-20	R5151896
Total Dissolved Solids	270		20	mg/L		13-JUL-20	R5152091
Turbidity	18.9		0.10	NTU		10-JUL-20	R5147928
Anions and Nutrients							
Acidity (as CaCO3)	1.2	<DL	2.0	mg/L		12-JUL-20	R5152626
Alkalinity, Total (as CaCO3)	153		2.0	mg/L		11-JUL-20	R5148736
Unionized ammonia	0.00085		0.00037	mg/L		16-JUL-20	
Ammonia, Total (as N)	0.046	<T	0.020	mg/L		15-JUL-20	R5155599
Chloride (Cl)	2.44		0.10	mg/L	10-JUL-20	10-JUL-20	R5148636
Fluoride (F)	0.072		0.020	mg/L	10-JUL-20	10-JUL-20	R5148636
Nitrate (as N)	0.012	<DL	0.020	mg/L		10-JUL-20	R5148636
Nitrite (as N)	<0.001	<W	0.010	mg/L		10-JUL-20	R5148636
Total Kjeldahl Nitrogen	1.40		0.18	mg/L	14-JUL-20	15-JUL-20	R5154030
Orthophosphate-Dissolved (as P)	0.0602		0.0030	mg/L	10-JUL-20	10-JUL-20	R5148676
Sulfate (SO4)	10.5		0.30	mg/L		10-JUL-20	R5148636
Cyanides							
Cyanide, Weak Acid Diss	0.0009	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Total	0.0010	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Free	0.0011	<DL	0.0020	mg/L		13-JUL-20	R5152261
Organic / Inorganic Carbon							
Dissolved Organic Carbon	43.7	DLM	5.0	mg/L	10-JUL-20	20-JUL-20	R5158277
Total Organic Carbon	64.2	DLM	5.0	mg/L		16-JUL-20	R5157084
Total Metals							
Aluminum (Al)-Total	0.490		0.0050	mg/L		13-JUL-20	R5151279
Antimony (Sb)-Total	0.000085	<DL	0.00010	mg/L		13-JUL-20	R5151279

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-9 SW23							
Sampled By: Client on 07-JUL-20 @ 11:00							
Matrix: Water							
Total Metals							
Arsenic (As)-Total	0.00394	<T	0.00010	mg/L		13-JUL-20	R5151279
Barium (Ba)-Total	0.0222		0.00010	mg/L		13-JUL-20	R5151279
Beryllium (Be)-Total	0.000048	<DL	0.00010	mg/L		13-JUL-20	R5151279
Bismuth (Bi)-Total	0.000015	<DL	0.000050	mg/L		13-JUL-20	R5151279
Boron (B)-Total	0.020	<T	0.010	mg/L		13-JUL-20	R5151279
Cadmium (Cd)-Total	0.0000262	<T	0.0000050	mg/L		13-JUL-20	R5151279
Calcium (Ca)-Total	41.1		0.050	mg/L		13-JUL-20	R5151279
Cesium (Cs)-Total	0.0000710		0.000010	mg/L		13-JUL-20	R5151279
Chromium (Cr)-Total	0.00106	<T	0.00050	mg/L		13-JUL-20	R5151279
Cobalt (Co)-Total	0.000802	<T	0.00010	mg/L		13-JUL-20	R5151279
Copper (Cu)-Total	0.00190	<T	0.00050	mg/L		13-JUL-20	R5151279
Iron (Fe)-Total	1.65		0.010	mg/L		13-JUL-20	R5151279
Lead (Pb)-Total	0.00054	<T	0.000050	mg/L		13-JUL-20	R5151279
Lithium (Li)-Total	0.0060	<T	0.0010	mg/L		13-JUL-20	R5151279
Magnesium (Mg)-Total	15.5		0.0050	mg/L		13-JUL-20	R5151279
Manganese (Mn)-Total	0.356		0.00050	mg/L		13-JUL-20	R5151279
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-JUL-20	R5149902
Molybdenum (Mo)-Total	0.000750	<T	0.000050	mg/L		13-JUL-20	R5151279
Nickel (Ni)-Total	0.00294	<T	0.00050	mg/L		13-JUL-20	R5151279
Phosphorus (P)-Total	0.114		0.050	mg/L		13-JUL-20	R5151279
Potassium (K)-Total	0.948		0.050	mg/L		13-JUL-20	R5151279
Rubidium (Rb)-Total	0.00265		0.00020	mg/L		13-JUL-20	R5151279
Selenium (Se)-Total	0.000280	<T	0.000050	mg/L		13-JUL-20	R5151279
Silicon (Si)-Total	5.75		0.10	mg/L		13-JUL-20	R5151279
Silver (Ag)-Total	0.0000035	<DL	0.000050	mg/L		13-JUL-20	R5151279
Sodium (Na)-Total	3.52		0.050	mg/L		13-JUL-20	R5151279
Strontium (Sr)-Total	0.0882		0.0010	mg/L		13-JUL-20	R5151279
Sulfur (S)-Total	4.15		0.50	mg/L		13-JUL-20	R5151279
Tellurium (Te)-Total	0.000020	<DL	0.00020	mg/L		13-JUL-20	R5151279
Thallium (Tl)-Total	0.000011	<T	0.000010	mg/L		13-JUL-20	R5151279
Thorium (Th)-Total	0.000108		0.00010	mg/L		13-JUL-20	R5151279
Tin (Sn)-Total	0.00031		0.00010	mg/L		13-JUL-20	R5151279
Titanium (Ti)-Total	0.0167		0.00030	mg/L		13-JUL-20	R5151279
Tungsten (W)-Total	0.000006	<DL	0.00010	mg/L		13-JUL-20	R5151279
Uranium (U)-Total	0.000596	<T	0.000010	mg/L		13-JUL-20	R5151279
Vanadium (V)-Total	0.00280	<T	0.00050	mg/L		13-JUL-20	R5151279
Zinc (Zn)-Total	0.0028	<DL	0.0030	mg/L		13-JUL-20	R5151279
Zirconium (Zr)-Total	0.00118		0.00020	mg/L		13-JUL-20	R5151279
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					12-JUL-20	R5149142
Aluminum (Al)-Dissolved	0.0394		0.0050	mg/L		13-JUL-20	R5149960

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-9 SW23							
Sampled By: Client on 07-JUL-20 @ 11:00							
Matrix: Water							
Dissolved Metals							
Antimony (Sb)-Dissolved	0.000070	<DL	0.00010	mg/L		13-JUL-20	R5149960
Arsenic (As)-Dissolved	0.00381	<T	0.00010	mg/L		13-JUL-20	R5149960
Barium (Ba)-Dissolved	0.0185		0.00010	mg/L		13-JUL-20	R5149960
Beryllium (Be)-Dissolved	0.000028	<DL	0.00010	mg/L		13-JUL-20	R5149960
Bismuth (Bi)-Dissolved	0.000005	<DL	0.000050	mg/L		13-JUL-20	R5149960
Boron (B)-Dissolved	0.020		0.010	mg/L		13-JUL-20	R5149960
Cadmium (Cd)-Dissolved	0.0000170	<T	0.000050	mg/L		13-JUL-20	R5149960
Calcium (Ca)-Dissolved	40.4		0.050	mg/L		13-JUL-20	R5149960
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		13-JUL-20	R5149960
Chromium (Cr)-Dissolved	0.00030	<DL	0.00050	mg/L		13-JUL-20	R5149960
Cobalt (Co)-Dissolved	0.000508	<T	0.00010	mg/L		13-JUL-20	R5149960
Copper (Cu)-Dissolved	0.00160	<T	0.00020	mg/L		13-JUL-20	R5149960
Iron (Fe)-Dissolved	0.801		0.010	mg/L		13-JUL-20	R5149960
Lead (Pb)-Dissolved	0.00020	<T	0.000050	mg/L		13-JUL-20	R5149960
Lithium (Li)-Dissolved	0.0056	<T	0.0010	mg/L		13-JUL-20	R5149960
Magnesium (Mg)-Dissolved	15.6		0.0050	mg/L		13-JUL-20	R5149960
Manganese (Mn)-Dissolved	0.299		0.00050	mg/L		13-JUL-20	R5149960
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		14-JUL-20	R5152045
Molybdenum (Mo)-Dissolved	0.000765	<T	0.000050	mg/L		13-JUL-20	R5149960
Nickel (Ni)-Dissolved	0.00236	<T	0.00050	mg/L		13-JUL-20	R5149960
Phosphorus (P)-Dissolved	0.108		0.050	mg/L		13-JUL-20	R5149960
Potassium (K)-Dissolved	0.860		0.050	mg/L		13-JUL-20	R5149960
Rubidium (Rb)-Dissolved	0.00143		0.00020	mg/L		13-JUL-20	R5149960
Selenium (Se)-Dissolved	0.000378	<T	0.000050	mg/L		13-JUL-20	R5149960
Silicon (Si)-Dissolved	5.10		0.050	mg/L		13-JUL-20	R5149960
Silver (Ag)-Dissolved	0.0000010	<DL	0.000050	mg/L		13-JUL-20	R5149960
Sodium (Na)-Dissolved	3.66		0.050	mg/L		13-JUL-20	R5149960
Strontium (Sr)-Dissolved	0.0904		0.0010	mg/L		13-JUL-20	R5149960
Sulfur (S)-Dissolved	4.35		0.50	mg/L		13-JUL-20	R5149960
Tellurium (Te)-Dissolved	0.000020	<DL	0.00020	mg/L		13-JUL-20	R5149960
Thallium (Tl)-Dissolved	0.000003	<DL	0.000010	mg/L		13-JUL-20	R5149960
Thorium (Th)-Dissolved	0.000084	<DL	0.00010	mg/L		13-JUL-20	R5149960
Tin (Sn)-Dissolved	0.00014		0.00010	mg/L		13-JUL-20	R5149960
Titanium (Ti)-Dissolved	0.00402		0.00030	mg/L		13-JUL-20	R5149960
Tungsten (W)-Dissolved	0.000006	<DL	0.00010	mg/L		13-JUL-20	R5149960
Uranium (U)-Dissolved	0.000552	<T	0.000010	mg/L		13-JUL-20	R5149960
Vanadium (V)-Dissolved	0.00156	<T	0.00050	mg/L		13-JUL-20	R5149960
Zinc (Zn)-Dissolved	0.0022	<T	0.0010	mg/L		13-JUL-20	R5149960
Zirconium (Zr)-Dissolved	0.000788		0.00020	mg/L		13-JUL-20	R5149960
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		10-JUL-20	R5154048

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-9 SW23 Sampled By: Client on 07-JUL-20 @ 11:00 Matrix: Water							
Aggregate Organics							
COD	125		10	mg/L		20-JUL-20	R5158418
Oil and Grease, Total	0.4	<DL	1.0	mg/L	16-JUL-20	16-JUL-20	R5156137
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		29-JUL-20	R5172694
L2472458-10 SW24 Sampled By: Client on 07-JUL-20 @ 11:30 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	4.48		0	mg/L		13-JUL-20	R5149208
pH, Client Supplied	7.39		0.10	pH		15-JUL-20	R5153541
Temperature, Client	23.1		-50	Deg. C		15-JUL-20	R5153541
Physical Tests							
Color, True	258		2.0	CU		10-JUL-20	R5147871
Conductivity (EC)	263		1.0	uS/cm		11-JUL-20	R5148736
Hardness (as CaCO3)	155		0.50			10-JUL-20	
pH	7.94		0.10	pH		11-JUL-20	R5148736
Total Suspended Solids	15.0		3.0	mg/L		15-JUL-20	R5154544
Total Dissolved Solids	232		20	mg/L		14-JUL-20	R5153966
Turbidity	18.4		0.10	NTU		10-JUL-20	R5147928
Anions and Nutrients							
Acidity (as CaCO3)	0.8	<DL	2.0	mg/L		12-JUL-20	R5152626
Alkalinity, Total (as CaCO3)	142		2.0	mg/L		11-JUL-20	R5148736
Unionized ammonia	0.00055		0.00029	mg/L		16-JUL-20	
Ammonia, Total (as N)	0.038	<T	0.020	mg/L		15-JUL-20	R5155599
Chloride (Cl)	2.30		0.10	mg/L	10-JUL-20	10-JUL-20	R5148636
Fluoride (F)	0.071		0.020	mg/L	10-JUL-20	10-JUL-20	R5148636
Nitrate (as N)	0.012	<DL	0.020	mg/L		10-JUL-20	R5148636
Nitrite (as N)	<0.001	<W	0.010	mg/L		10-JUL-20	R5148636
Total Kjeldahl Nitrogen	1.40		0.18	mg/L	14-JUL-20	15-JUL-20	R5154030
Orthophosphate-Dissolved (as P)	0.0579		0.0030	mg/L	10-JUL-20	10-JUL-20	R5148676
Sulfate (SO4)	9.55		0.30	mg/L		10-JUL-20	R5148636
Cyanides							
Cyanide, Weak Acid Diss	0.0013	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Total	0.0010	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Free	0.0013	<DL	0.0020	mg/L		13-JUL-20	R5152261
Organic / Inorganic Carbon							
Dissolved Organic Carbon	49.9	DLM	5.0	mg/L	10-JUL-20	20-JUL-20	R5158277
Total Organic Carbon	73.8	DLM	5.0	mg/L		16-JUL-20	R5157084
Total Metals							
Aluminum (Al)-Total	0.448		0.0050	mg/L		13-JUL-20	R5151279
Antimony (Sb)-Total	0.000085	<DL	0.00010	mg/L		13-JUL-20	R5151279
Arsenic (As)-Total	0.00377	<T	0.00010	mg/L		13-JUL-20	R5151279

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-10 SW24							
Sampled By: Client on 07-JUL-20 @ 11:30							
Matrix: Water							
Total Metals							
Barium (Ba)-Total	0.0214		0.00010	mg/L		13-JUL-20	R5151279
Beryllium (Be)-Total	0.000048	<DL	0.00010	mg/L		13-JUL-20	R5151279
Bismuth (Bi)-Total	0.000015	<DL	0.000050	mg/L		13-JUL-20	R5151279
Boron (B)-Total	0.020	<T	0.010	mg/L		13-JUL-20	R5151279
Cadmium (Cd)-Total	0.0000290	<T	0.0000050	mg/L		13-JUL-20	R5151279
Calcium (Ca)-Total	38.8		0.050	mg/L		13-JUL-20	R5151279
Cesium (Cs)-Total	0.0000598		0.000010	mg/L		13-JUL-20	R5151279
Chromium (Cr)-Total	0.00098	<T	0.00050	mg/L		13-JUL-20	R5151279
Cobalt (Co)-Total	0.000780	<T	0.00010	mg/L		13-JUL-20	R5151279
Copper (Cu)-Total	0.00220	<T	0.00050	mg/L		13-JUL-20	R5151279
Iron (Fe)-Total	1.55		0.010	mg/L		13-JUL-20	R5151279
Lead (Pb)-Total	0.00064	<T	0.000050	mg/L		13-JUL-20	R5151279
Lithium (Li)-Total	0.0056	<T	0.0010	mg/L		13-JUL-20	R5151279
Magnesium (Mg)-Total	14.5		0.0050	mg/L		13-JUL-20	R5151279
Manganese (Mn)-Total	0.332		0.00050	mg/L		13-JUL-20	R5151279
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-JUL-20	R5149902
Molybdenum (Mo)-Total	0.000685	<T	0.000050	mg/L		13-JUL-20	R5151279
Nickel (Ni)-Total	0.00286	<T	0.00050	mg/L		13-JUL-20	R5151279
Phosphorus (P)-Total	0.132		0.050	mg/L		13-JUL-20	R5151279
Potassium (K)-Total	0.882		0.050	mg/L		13-JUL-20	R5151279
Rubidium (Rb)-Total	0.00233		0.00020	mg/L		13-JUL-20	R5151279
Selenium (Se)-Total	0.000270	<T	0.000050	mg/L		13-JUL-20	R5151279
Silicon (Si)-Total	5.48		0.10	mg/L		13-JUL-20	R5151279
Silver (Ag)-Total	0.0000020	<DL	0.000050	mg/L		13-JUL-20	R5151279
Sodium (Na)-Total	3.34		0.050	mg/L		13-JUL-20	R5151279
Strontium (Sr)-Total	0.0830		0.0010	mg/L		13-JUL-20	R5151279
Sulfur (S)-Total	3.75		0.50	mg/L		13-JUL-20	R5151279
Tellurium (Te)-Total	0.000010	<DL	0.00020	mg/L		13-JUL-20	R5151279
Thallium (Tl)-Total	0.000008	<DL	0.000010	mg/L		13-JUL-20	R5151279
Thorium (Th)-Total	0.000126		0.00010	mg/L		13-JUL-20	R5151279
Tin (Sn)-Total	0.00054		0.00010	mg/L		13-JUL-20	R5151279
Titanium (Ti)-Total	0.0141		0.00030	mg/L		13-JUL-20	R5151279
Tungsten (W)-Total	0.000008	<DL	0.00010	mg/L		13-JUL-20	R5151279
Uranium (U)-Total	0.000565	<T	0.000010	mg/L		13-JUL-20	R5151279
Vanadium (V)-Total	0.00262	<T	0.00050	mg/L		13-JUL-20	R5151279
Zinc (Zn)-Total	0.0038	<T	0.0030	mg/L		13-JUL-20	R5151279
Zirconium (Zr)-Total	0.000812		0.00020	mg/L		13-JUL-20	R5151279
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					12-JUL-20	R5149144
Aluminum (Al)-Dissolved	0.0742		0.0050	mg/L		14-JUL-20	R5153539
Antimony (Sb)-Dissolved	0.000090	<DL	0.00010	mg/L		14-JUL-20	R5153539

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-10 SW24							
Sampled By: Client on 07-JUL-20 @ 11:30							
Matrix: Water							
Dissolved Metals							
Arsenic (As)-Dissolved	0.00377	<T	0.00010	mg/L		14-JUL-20	R5153539
Barium (Ba)-Dissolved	0.0180		0.00010	mg/L		14-JUL-20	R5153539
Beryllium (Be)-Dissolved	0.000030	<DL	0.00010	mg/L		14-JUL-20	R5153539
Bismuth (Bi)-Dissolved	0.000005	<DL	0.000050	mg/L		14-JUL-20	R5153539
Boron (B)-Dissolved	0.018		0.010	mg/L		14-JUL-20	R5153539
Cadmium (Cd)-Dissolved	0.0000238	<T	0.0000050	mg/L		14-JUL-20	R5153539
Calcium (Ca)-Dissolved	37.0		0.050	mg/L		14-JUL-20	R5153539
Cesium (Cs)-Dissolved	0.0000022	<DL	0.000010	mg/L		14-JUL-20	R5153539
Chromium (Cr)-Dissolved	0.00032	<DL	0.00050	mg/L		14-JUL-20	R5153539
Cobalt (Co)-Dissolved	0.000518	<T	0.00010	mg/L		14-JUL-20	R5153539
Copper (Cu)-Dissolved	0.00140	<T	0.00020	mg/L		14-JUL-20	R5153539
Iron (Fe)-Dissolved	0.840		0.010	mg/L		14-JUL-20	R5153539
Lead (Pb)-Dissolved	0.00026	<T	0.000050	mg/L		14-JUL-20	R5153539
Lithium (Li)-Dissolved	0.0054	<T	0.0010	mg/L		14-JUL-20	R5153539
Magnesium (Mg)-Dissolved	15.2		0.0050	mg/L		14-JUL-20	R5153539
Manganese (Mn)-Dissolved	0.285		0.00050	mg/L		14-JUL-20	R5153539
Mercury (Hg)-Dissolved	0.000005	<DL	0.000030	mg/L		14-JUL-20	R5152045
Molybdenum (Mo)-Dissolved	0.000695	<T	0.000050	mg/L		14-JUL-20	R5153539
Nickel (Ni)-Dissolved	0.00234	<T	0.00050	mg/L		14-JUL-20	R5153539
Phosphorus (P)-Dissolved	0.116		0.050	mg/L		14-JUL-20	R5153539
Potassium (K)-Dissolved	0.838		0.050	mg/L		14-JUL-20	R5153539
Rubidium (Rb)-Dissolved	0.00148		0.00020	mg/L		14-JUL-20	R5153539
Selenium (Se)-Dissolved	0.000332	<T	0.000050	mg/L		14-JUL-20	R5153539
Silicon (Si)-Dissolved	5.16		0.050	mg/L		14-JUL-20	R5153539
Silver (Ag)-Dissolved	0.0000010	<DL	0.000050	mg/L		14-JUL-20	R5153539
Sodium (Na)-Dissolved	3.54		0.050	mg/L		14-JUL-20	R5153539
Strontium (Sr)-Dissolved	0.0833		0.0010	mg/L		14-JUL-20	R5153539
Sulfur (S)-Dissolved	4.00		0.50	mg/L		14-JUL-20	R5153539
Tellurium (Te)-Dissolved	0.000010	<DL	0.00020	mg/L		14-JUL-20	R5153539
Thallium (Tl)-Dissolved	0.000003	<DL	0.000010	mg/L		14-JUL-20	R5153539
Thorium (Th)-Dissolved	0.000082	<DL	0.00010	mg/L		14-JUL-20	R5153539
Tin (Sn)-Dissolved	0.00021		0.00010	mg/L		14-JUL-20	R5153539
Titanium (Ti)-Dissolved	0.00422		0.00030	mg/L		14-JUL-20	R5153539
Tungsten (W)-Dissolved	0.000004	<DL	0.00010	mg/L		14-JUL-20	R5153539
Uranium (U)-Dissolved	0.000529	<T	0.000010	mg/L		14-JUL-20	R5153539
Vanadium (V)-Dissolved	0.00162	<T	0.00050	mg/L		14-JUL-20	R5153539
Zinc (Zn)-Dissolved	0.0024	<T	0.0010	mg/L		14-JUL-20	R5153539
Zirconium (Zr)-Dissolved	0.000756		0.00020	mg/L		14-JUL-20	R5153539
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		10-JUL-20	R5154048
COD	127		10	mg/L		20-JUL-20	R5158418

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-10 SW24 Sampled By: Client on 07-JUL-20 @ 11:30 Matrix: Water							
Aggregate Organics							
Oil and Grease, Total	0.2	<DL	1.0	mg/L	16-JUL-20	16-JUL-20	R5156137
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		29-JUL-20	R5172694
L2472458-11 SW25 Sampled By: Client on 07-JUL-20 @ 12:35 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	7.24		0	mg/L		13-JUL-20	R5149208
pH, Client Supplied	7.66		0.10	pH		15-JUL-20	R5153541
Temperature, Client	22.4		-50	Deg. C		15-JUL-20	R5153541
Physical Tests							
Color, True	59.4		2.0	CU		10-JUL-20	R5147871
Conductivity (EC)	302		1.0	uS/cm		11-JUL-20	R5148736
Hardness (as CaCO3)	149		0.50			10-JUL-20	
pH	8.08		0.10	pH		11-JUL-20	R5148736
Total Suspended Solids	2.5	<DL	3.0	mg/L		15-JUL-20	R5154544
Total Dissolved Solids	200		20	mg/L		14-JUL-20	R5153966
Turbidity	5.36		0.10	NTU		10-JUL-20	R5147928
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		12-JUL-20	R5152626
Alkalinity, Total (as CaCO3)	139		2.0	mg/L		11-JUL-20	R5148736
Unionized ammonia	0.00055		0.00051	mg/L		16-JUL-20	
Ammonia, Total (as N)	0.022	<T	0.020	mg/L		15-JUL-20	R5155599
Chloride (Cl)	14.9		0.10	mg/L	10-JUL-20	10-JUL-20	R5148636
Fluoride (F)	0.076		0.020	mg/L	10-JUL-20	10-JUL-20	R5148636
Nitrate (as N)	0.006	<DL	0.020	mg/L		10-JUL-20	R5148636
Nitrite (as N)	<0.001	<W	0.010	mg/L		10-JUL-20	R5148636
Total Kjeldahl Nitrogen	0.90		0.18	mg/L	14-JUL-20	15-JUL-20	R5154030
Orthophosphate-Dissolved (as P)	0.0059		0.0030	mg/L	10-JUL-20	10-JUL-20	R5148676
Sulfate (SO4)	8.65		0.30	mg/L		10-JUL-20	R5148636
Cyanides							
Cyanide, Weak Acid Diss	0.0009	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Total	0.0008	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Free	0.0008	<DL	0.0020	mg/L		13-JUL-20	R5152261
Organic / Inorganic Carbon							
Dissolved Organic Carbon	20.1	DLM	5.0	mg/L	10-JUL-20	20-JUL-20	R5158277
Total Organic Carbon	34.2	DLM	5.0	mg/L		16-JUL-20	R5157084
Total Metals							
Aluminum (Al)-Total	0.134		0.0050	mg/L		13-JUL-20	R5151279
Antimony (Sb)-Total	0.000085	<DL	0.00010	mg/L		13-JUL-20	R5151279
Arsenic (As)-Total	0.00161	<T	0.00010	mg/L		13-JUL-20	R5151279
Barium (Ba)-Total	0.0132		0.00010	mg/L		13-JUL-20	R5151279

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-11 SW25							
Sampled By: Client on 07-JUL-20 @ 12:35							
Matrix: Water							
Total Metals							
Beryllium (Be)-Total	0.000010	<DL	0.00010	mg/L		13-JUL-20	R5151279
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		13-JUL-20	R5151279
Boron (B)-Total	0.018	<T	0.010	mg/L		13-JUL-20	R5151279
Cadmium (Cd)-Total	0.0000040	<DL	0.0000050	mg/L		13-JUL-20	R5151279
Calcium (Ca)-Total	40.3		0.050	mg/L		13-JUL-20	R5151279
Cesium (Cs)-Total	0.0000200		0.000010	mg/L		13-JUL-20	R5151279
Chromium (Cr)-Total	0.00030	<DL	0.00050	mg/L		13-JUL-20	R5151279
Cobalt (Co)-Total	0.000232	<T	0.00010	mg/L		13-JUL-20	R5151279
Copper (Cu)-Total	0.00140	<T	0.00050	mg/L		13-JUL-20	R5151279
Iron (Fe)-Total	0.348		0.010	mg/L		13-JUL-20	R5151279
Lead (Pb)-Total	0.00010	<T	0.000050	mg/L		13-JUL-20	R5151279
Lithium (Li)-Total	0.0046	<T	0.0010	mg/L		13-JUL-20	R5151279
Magnesium (Mg)-Total	13.2		0.0050	mg/L		13-JUL-20	R5151279
Manganese (Mn)-Total	0.0816		0.00050	mg/L		13-JUL-20	R5151279
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-JUL-20	R5149902
Molybdenum (Mo)-Total	0.000865	<T	0.000050	mg/L		13-JUL-20	R5151279
Nickel (Ni)-Total	0.00130	<T	0.00050	mg/L		13-JUL-20	R5151279
Phosphorus (P)-Total	0.048	<DL	0.050	mg/L		13-JUL-20	R5151279
Potassium (K)-Total	1.42		0.050	mg/L		13-JUL-20	R5151279
Rubidium (Rb)-Total	0.00186		0.00020	mg/L		13-JUL-20	R5151279
Selenium (Se)-Total	0.000158	<T	0.000050	mg/L		13-JUL-20	R5151279
Silicon (Si)-Total	1.88		0.10	mg/L		13-JUL-20	R5151279
Silver (Ag)-Total	<0.0000005	<W	0.000050	mg/L		13-JUL-20	R5151279
Sodium (Na)-Total	6.43		0.050	mg/L		13-JUL-20	R5151279
Strontium (Sr)-Total	0.0878		0.0010	mg/L		13-JUL-20	R5151279
Sulfur (S)-Total	3.20		0.50	mg/L		13-JUL-20	R5151279
Tellurium (Te)-Total	0.000020	<DL	0.00020	mg/L		13-JUL-20	R5151279
Thallium (Tl)-Total	0.000004	<DL	0.000010	mg/L		13-JUL-20	R5151279
Thorium (Th)-Total	0.000024	<DL	0.00010	mg/L		13-JUL-20	R5151279
Tin (Sn)-Total	0.00005	<DL	0.00010	mg/L		13-JUL-20	R5151279
Titanium (Ti)-Total	0.00448		0.00030	mg/L		13-JUL-20	R5151279
Tungsten (W)-Total	0.000012	<DL	0.00010	mg/L		13-JUL-20	R5151279
Uranium (U)-Total	0.000838	<T	0.000010	mg/L		13-JUL-20	R5151279
Vanadium (V)-Total	0.00086	<T	0.00050	mg/L		13-JUL-20	R5151279
Zinc (Zn)-Total	0.0040	<T	0.0030	mg/L		13-JUL-20	R5151279
Zirconium (Zr)-Total	0.000268		0.00020	mg/L		13-JUL-20	R5151279
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					12-JUL-20	R5149144
Aluminum (Al)-Dissolved	0.0152	<T	0.0050	mg/L		14-JUL-20	R5153539
Antimony (Sb)-Dissolved	0.000100	<T	0.00010	mg/L		14-JUL-20	R5153539
Arsenic (As)-Dissolved	0.00169	<T	0.00010	mg/L		14-JUL-20	R5153539

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-11 SW25							
Sampled By: Client on 07-JUL-20 @ 12:35							
Matrix: Water							
Dissolved Metals							
Barium (Ba)-Dissolved	0.0126		0.00010	mg/L		14-JUL-20	R5153539
Beryllium (Be)-Dissolved	0.000008	<DL	0.00010	mg/L		14-JUL-20	R5153539
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		14-JUL-20	R5153539
Boron (B)-Dissolved	0.016		0.010	mg/L		14-JUL-20	R5153539
Cadmium (Cd)-Dissolved	0.0000036	<DL	0.0000050	mg/L		14-JUL-20	R5153539
Calcium (Ca)-Dissolved	36.9		0.050	mg/L		14-JUL-20	R5153539
Cesium (Cs)-Dissolved	0.0000034	<DL	0.000010	mg/L		14-JUL-20	R5153539
Chromium (Cr)-Dissolved	0.00010	<DL	0.00050	mg/L		14-JUL-20	R5153539
Cobalt (Co)-Dissolved	0.000178	<T	0.00010	mg/L		14-JUL-20	R5153539
Copper (Cu)-Dissolved	0.00120	<T	0.00020	mg/L		14-JUL-20	R5153539
Iron (Fe)-Dissolved	0.129		0.010	mg/L		14-JUL-20	R5153539
Lead (Pb)-Dissolved	0.00004	<DL	0.000050	mg/L		14-JUL-20	R5153539
Lithium (Li)-Dissolved	0.0046	<T	0.0010	mg/L		14-JUL-20	R5153539
Magnesium (Mg)-Dissolved	13.7		0.0050	mg/L		14-JUL-20	R5153539
Manganese (Mn)-Dissolved	0.0731		0.00050	mg/L		14-JUL-20	R5153539
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		14-JUL-20	R5152045
Molybdenum (Mo)-Dissolved	0.000815	<T	0.000050	mg/L		14-JUL-20	R5153539
Nickel (Ni)-Dissolved	0.00116	<T	0.00050	mg/L		14-JUL-20	R5153539
Phosphorus (P)-Dissolved	0.048	<DL	0.050	mg/L		14-JUL-20	R5153539
Potassium (K)-Dissolved	1.47		0.050	mg/L		14-JUL-20	R5153539
Rubidium (Rb)-Dissolved	0.00156		0.00020	mg/L		14-JUL-20	R5153539
Selenium (Se)-Dissolved	0.000226	<T	0.000050	mg/L		14-JUL-20	R5153539
Silicon (Si)-Dissolved	1.83		0.050	mg/L		14-JUL-20	R5153539
Silver (Ag)-Dissolved	0.0000005	<DL	0.000050	mg/L		14-JUL-20	R5153539
Sodium (Na)-Dissolved	6.88		0.050	mg/L		14-JUL-20	R5153539
Strontium (Sr)-Dissolved	0.0871		0.0010	mg/L		14-JUL-20	R5153539
Sulfur (S)-Dissolved	3.50		0.50	mg/L		14-JUL-20	R5153539
Tellurium (Te)-Dissolved	0.000015	<DL	0.00020	mg/L		14-JUL-20	R5153539
Thallium (Tl)-Dissolved	0.000002	<DL	0.000010	mg/L		14-JUL-20	R5153539
Thorium (Th)-Dissolved	0.000016	<DL	0.00010	mg/L		14-JUL-20	R5153539
Tin (Sn)-Dissolved	0.00007	<DL	0.00010	mg/L		14-JUL-20	R5153539
Titanium (Ti)-Dissolved	0.00178		0.00030	mg/L		14-JUL-20	R5153539
Tungsten (W)-Dissolved	0.000008	<DL	0.00010	mg/L		14-JUL-20	R5153539
Uranium (U)-Dissolved	0.000806	<T	0.000010	mg/L		14-JUL-20	R5153539
Vanadium (V)-Dissolved	0.00058	<T	0.00050	mg/L		14-JUL-20	R5153539
Zinc (Zn)-Dissolved	0.0018	<T	0.0010	mg/L		14-JUL-20	R5153539
Zirconium (Zr)-Dissolved	0.000188	<DL	0.00020	mg/L		14-JUL-20	R5153539
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		10-JUL-20	R5154048
COD	64		10	mg/L		20-JUL-20	R5158418
Oil and Grease, Total	<0.2	<W	1.0	mg/L	16-JUL-20	16-JUL-20	R5156137

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-12 SW26							
Sampled By: Client on 07-JUL-20 @ 12:20							
Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	7.61		0	mg/L		13-JUL-20	R5149208
pH, Client Supplied	7.62		0.10	pH		15-JUL-20	R5153541
Temperature, Client	22.0		-50	Deg. C		15-JUL-20	R5153541
Physical Tests							
Color, True	53.7		2.0	CU		10-JUL-20	R5147871
Conductivity (EC)	411		1.0	uS/cm		11-JUL-20	R5148736
Hardness (as CaCO3)	211		0.50			10-JUL-20	
pH	8.22		0.10	pH		11-JUL-20	R5148736
Total Suspended Solids	6.5		3.0	mg/L		15-JUL-20	R5154544
Total Dissolved Solids	264		20	mg/L		14-JUL-20	R5153966
Turbidity	8.54		0.10	NTU		10-JUL-20	R5147928
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		12-JUL-20	R5152626
Alkalinity, Total (as CaCO3)	176		2.0	mg/L		11-JUL-20	R5148736
Unionized ammonia	0.00057		0.00046	mg/L		16-JUL-20	
Ammonia, Total (as N)	0.026	<T	0.020	mg/L		15-JUL-20	R5155599
Chloride (Cl)	16.1		0.10	mg/L	10-JUL-20	10-JUL-20	R5148636
Fluoride (F)	0.092		0.020	mg/L	10-JUL-20	10-JUL-20	R5148636
Nitrate (as N)	0.026	<T	0.020	mg/L		10-JUL-20	R5148636
Nitrite (as N)	<0.001	<W	0.010	mg/L		10-JUL-20	R5148636
Total Kjeldahl Nitrogen	0.75		0.18	mg/L	14-JUL-20	15-JUL-20	R5154030
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	10-JUL-20	10-JUL-20	R5148676
Sulfate (SO4)	35.6		0.30	mg/L		10-JUL-20	R5148636
Cyanides							
Cyanide, Weak Acid Diss	0.0009	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Total	0.0008	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Free	0.0009	<DL	0.0020	mg/L		13-JUL-20	R5152261
Organic / Inorganic Carbon							
Dissolved Organic Carbon	19.8	DLM	5.0	mg/L	10-JUL-20	20-JUL-20	R5158277
Total Organic Carbon	33.7	DLM	5.0	mg/L		16-JUL-20	R5157084
Total Metals							
Aluminum (Al)-Total	0.199		0.0050	mg/L		13-JUL-20	R5151279
Antimony (Sb)-Total	0.000230	<T	0.00010	mg/L		13-JUL-20	R5151279
Arsenic (As)-Total	0.00225	<T	0.00010	mg/L		13-JUL-20	R5151279
Barium (Ba)-Total	0.0229		0.00010	mg/L		13-JUL-20	R5151279
Beryllium (Be)-Total	0.000014	<DL	0.00010	mg/L		13-JUL-20	R5151279
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		13-JUL-20	R5151279
Boron (B)-Total	0.032	<T	0.010	mg/L		13-JUL-20	R5151279
Cadmium (Cd)-Total	0.0000048	<DL	0.0000050	mg/L		13-JUL-20	R5151279
Calcium (Ca)-Total	54.6		0.050	mg/L		13-JUL-20	R5151279
Cesium (Cs)-Total	0.0000302		0.000010	mg/L		13-JUL-20	R5151279
Chromium (Cr)-Total	0.00040	<DL	0.00050	mg/L		13-JUL-20	R5151279

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-12 SW26							
Sampled By: Client on 07-JUL-20 @ 12:20							
Matrix: Water							
Total Metals							
Cobalt (Co)-Total	0.000298	<T	0.00010	mg/L		13-JUL-20	R5151279
Copper (Cu)-Total	0.00165	<T	0.00050	mg/L		13-JUL-20	R5151279
Iron (Fe)-Total	0.418		0.010	mg/L		13-JUL-20	R5151279
Lead (Pb)-Total	0.00016	<T	0.000050	mg/L		13-JUL-20	R5151279
Lithium (Li)-Total	0.0090	<T	0.0010	mg/L		13-JUL-20	R5151279
Magnesium (Mg)-Total	18.6		0.0050	mg/L		13-JUL-20	R5151279
Manganese (Mn)-Total	0.104		0.00050	mg/L		13-JUL-20	R5151279
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-JUL-20	R5149902
Molybdenum (Mo)-Total	0.00152	<T	0.000050	mg/L		13-JUL-20	R5151279
Nickel (Ni)-Total	0.00162	<T	0.00050	mg/L		13-JUL-20	R5151279
Phosphorus (P)-Total	0.034	<DL	0.050	mg/L		13-JUL-20	R5151279
Potassium (K)-Total	2.34		0.050	mg/L		13-JUL-20	R5151279
Rubidium (Rb)-Total	0.00217		0.00020	mg/L		13-JUL-20	R5151279
Selenium (Se)-Total	0.000202	<T	0.000050	mg/L		13-JUL-20	R5151279
Silicon (Si)-Total	4.27		0.10	mg/L		13-JUL-20	R5151279
Silver (Ag)-Total	<0.0000005	<W	0.000050	mg/L		13-JUL-20	R5151279
Sodium (Na)-Total	8.33		0.050	mg/L		13-JUL-20	R5151279
Strontium (Sr)-Total	0.157		0.0010	mg/L		13-JUL-20	R5151279
Sulfur (S)-Total	12.1		0.50	mg/L		13-JUL-20	R5151279
Tellurium (Te)-Total	0.000035	<DL	0.00020	mg/L		13-JUL-20	R5151279
Thallium (Tl)-Total	0.000004	<DL	0.000010	mg/L		13-JUL-20	R5151279
Thorium (Th)-Total	0.000034	<DL	0.00010	mg/L		13-JUL-20	R5151279
Tin (Sn)-Total	0.00003	<DL	0.00010	mg/L		13-JUL-20	R5151279
Titanium (Ti)-Total	0.00738		0.00030	mg/L		13-JUL-20	R5151279
Tungsten (W)-Total	0.000008	<DL	0.00010	mg/L		13-JUL-20	R5151279
Uranium (U)-Total	0.00120	<T	0.000010	mg/L		13-JUL-20	R5151279
Vanadium (V)-Total	0.00144	<T	0.00050	mg/L		13-JUL-20	R5151279
Zinc (Zn)-Total	0.0034	<T	0.0030	mg/L		13-JUL-20	R5151279
Zirconium (Zr)-Total	0.000268		0.00020	mg/L		13-JUL-20	R5151279
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					12-JUL-20	R5149144
Aluminum (Al)-Dissolved	0.0224	<T	0.0050	mg/L		14-JUL-20	R5153539
Antimony (Sb)-Dissolved	0.000260	<T	0.00010	mg/L		14-JUL-20	R5153539
Arsenic (As)-Dissolved	0.00222	<T	0.00010	mg/L		14-JUL-20	R5153539
Barium (Ba)-Dissolved	0.0218		0.00010	mg/L		14-JUL-20	R5153539
Beryllium (Be)-Dissolved	0.000008	<DL	0.00010	mg/L		14-JUL-20	R5153539
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		14-JUL-20	R5153539
Boron (B)-Dissolved	0.032		0.010	mg/L		14-JUL-20	R5153539
Cadmium (Cd)-Dissolved	0.0000018	<DL	0.0000050	mg/L		14-JUL-20	R5153539
Calcium (Ca)-Dissolved	53.2		0.050	mg/L		14-JUL-20	R5153539
Cesium (Cs)-Dissolved	0.0000054	<DL	0.000010	mg/L		14-JUL-20	R5153539

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-12 SW26 Sampled By: Client on 07-JUL-20 @ 12:20 Matrix: Water							
Dissolved Metals							
Chromium (Cr)-Dissolved	0.00016	<DL	0.00050	mg/L		14-JUL-20	R5153539
Cobalt (Co)-Dissolved	0.000218	<T	0.00010	mg/L		14-JUL-20	R5153539
Copper (Cu)-Dissolved	0.00130	<T	0.00020	mg/L		14-JUL-20	R5153539
Iron (Fe)-Dissolved	0.110		0.010	mg/L		14-JUL-20	R5153539
Lead (Pb)-Dissolved	0.00006	<T	0.000050	mg/L		14-JUL-20	R5153539
Lithium (Li)-Dissolved	0.0094	<T	0.0010	mg/L		14-JUL-20	R5153539
Magnesium (Mg)-Dissolved	19.0		0.0050	mg/L		14-JUL-20	R5153539
Manganese (Mn)-Dissolved	0.0866		0.00050	mg/L		14-JUL-20	R5153539
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		14-JUL-20	R5152045
Molybdenum (Mo)-Dissolved	0.00160	<T	0.000050	mg/L		14-JUL-20	R5153539
Nickel (Ni)-Dissolved	0.00146	<T	0.00050	mg/L		14-JUL-20	R5153539
Phosphorus (P)-Dissolved	0.034	<DL	0.050	mg/L		14-JUL-20	R5153539
Potassium (K)-Dissolved	2.42		0.050	mg/L		14-JUL-20	R5153539
Rubidium (Rb)-Dissolved	0.00174		0.00020	mg/L		14-JUL-20	R5153539
Selenium (Se)-Dissolved	0.000244	<T	0.000050	mg/L		14-JUL-20	R5153539
Silicon (Si)-Dissolved	4.03		0.050	mg/L		14-JUL-20	R5153539
Silver (Ag)-Dissolved	<0.0000005	<W	0.000050	mg/L		14-JUL-20	R5153539
Sodium (Na)-Dissolved	8.66		0.050	mg/L		14-JUL-20	R5153539
Strontium (Sr)-Dissolved	0.167		0.0010	mg/L		14-JUL-20	R5153539
Sulfur (S)-Dissolved	12.5		0.50	mg/L		14-JUL-20	R5153539
Tellurium (Te)-Dissolved	0.000010	<DL	0.00020	mg/L		14-JUL-20	R5153539
Thallium (Tl)-Dissolved	0.000002	<DL	0.000010	mg/L		14-JUL-20	R5153539
Thorium (Th)-Dissolved	0.000024	<DL	0.00010	mg/L		14-JUL-20	R5153539
Tin (Sn)-Dissolved	0.00003	<DL	0.00010	mg/L		14-JUL-20	R5153539
Titanium (Ti)-Dissolved	0.00216		0.00030	mg/L		14-JUL-20	R5153539
Tungsten (W)-Dissolved	0.000006	<DL	0.00010	mg/L		14-JUL-20	R5153539
Uranium (U)-Dissolved	0.00119	<T	0.000010	mg/L		14-JUL-20	R5153539
Vanadium (V)-Dissolved	0.00096	<T	0.00050	mg/L		14-JUL-20	R5153539
Zinc (Zn)-Dissolved	0.0034	<T	0.0010	mg/L		14-JUL-20	R5153539
Zirconium (Zr)-Dissolved	0.000272	<T	0.00020	mg/L		14-JUL-20	R5153539
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		10-JUL-20	R5154048
COD	62		10	mg/L		20-JUL-20	R5158418
Oil and Grease, Total	0.6	<DL	1.0	mg/L	16-JUL-20	16-JUL-20	R5156137
L2472458-13 SW28A Sampled By: Client on 07-JUL-20 @ 10:15 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	8.56		0	mg/L		13-JUL-20	R5149208
pH, Client Supplied	7.69		0.10	pH		15-JUL-20	R5153541
Temperature, Client	19.6		-50	Deg. C		15-JUL-20	R5153541
Physical Tests							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-13 SW28A							
Sampled By: Client on 07-JUL-20 @ 10:15							
Matrix: Water							
Physical Tests							
Color, True	107		2.0	CU		10-JUL-20	R5147871
Conductivity (EC)	212		1.0	uS/cm		11-JUL-20	R5148736
Hardness (as CaCO3)	124		0.50			10-JUL-20	
pH	8.11		0.10	pH		11-JUL-20	R5148736
Total Suspended Solids	7.0		3.0	mg/L		13-JUL-20	R5151896
Total Dissolved Solids	196		20	mg/L		13-JUL-20	R5152091
Turbidity	5.27		0.10	NTU		10-JUL-20	R5147928
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		12-JUL-20	R5152626
Alkalinity, Total (as CaCO3)	122		2.0	mg/L		11-JUL-20	R5148736
Unionized ammonia	0.00080		0.00045	mg/L		16-JUL-20	
Ammonia, Total (as N)	0.036	<T	0.020	mg/L		15-JUL-20	R5155599
Chloride (Cl)	1.27		0.10	mg/L	10-JUL-20	10-JUL-20	R5148636
Fluoride (F)	0.063		0.020	mg/L	10-JUL-20	10-JUL-20	R5148636
Nitrate (as N)	0.016	<DL	0.020	mg/L		10-JUL-20	R5148636
Nitrite (as N)	<0.001	<W	0.010	mg/L		10-JUL-20	R5148636
Total Kjeldahl Nitrogen	1.30		0.18	mg/L	14-JUL-20	14-JUL-20	R5153184
Orthophosphate-Dissolved (as P)	0.0049		0.0030	mg/L	10-JUL-20	10-JUL-20	R5148676
Sulfate (SO4)	0.95	<T	0.30	mg/L		10-JUL-20	R5148636
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Total	0.0006	<DL	0.0020	mg/L		13-JUL-20	R5152261
Cyanide, Free	0.0009	<DL	0.0020	mg/L		13-JUL-20	R5152261
Organic / Inorganic Carbon							
Dissolved Organic Carbon	32.7	DLM	5.0	mg/L	10-JUL-20	20-JUL-20	R5158277
Total Organic Carbon	42.1	DLM	5.0	mg/L		16-JUL-20	R5157084
Total Metals							
Aluminum (Al)-Total	0.145		0.0050	mg/L		13-JUL-20	R5151279
Antimony (Sb)-Total	0.000050	<DL	0.00010	mg/L		13-JUL-20	R5151279
Arsenic (As)-Total	0.00166	<T	0.00010	mg/L		13-JUL-20	R5151279
Barium (Ba)-Total	0.0139		0.00010	mg/L		13-JUL-20	R5151279
Beryllium (Be)-Total	0.000022	<DL	0.00010	mg/L		13-JUL-20	R5151279
Bismuth (Bi)-Total	<0.000005	<W	0.000050	mg/L		13-JUL-20	R5151279
Boron (B)-Total	0.016	<T	0.010	mg/L		13-JUL-20	R5151279
Cadmium (Cd)-Total	0.0000092	<T	0.0000050	mg/L		13-JUL-20	R5151279
Calcium (Ca)-Total	30.9		0.050	mg/L		13-JUL-20	R5151279
Cesium (Cs)-Total	0.0000248		0.000010	mg/L		13-JUL-20	R5151279
Chromium (Cr)-Total	0.00038	<DL	0.00050	mg/L		13-JUL-20	R5151279
Cobalt (Co)-Total	0.000236	<T	0.00010	mg/L		13-JUL-20	R5151279
Copper (Cu)-Total	0.00070	<T	0.00050	mg/L		13-JUL-20	R5151279
Iron (Fe)-Total	0.422		0.010	mg/L		13-JUL-20	R5151279
Lead (Pb)-Total	0.00016	<T	0.000050	mg/L		13-JUL-20	R5151279

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-13 SW28A							
Sampled By: Client on 07-JUL-20 @ 10:15							
Matrix: Water							
Total Metals							
Lithium (Li)-Total	0.0044	<T	0.0010	mg/L		13-JUL-20	R5151279
Magnesium (Mg)-Total	12.7		0.0050	mg/L		13-JUL-20	R5151279
Manganese (Mn)-Total	0.0391		0.00050	mg/L		13-JUL-20	R5151279
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-JUL-20	R5149902
Molybdenum (Mo)-Total	0.000550	<T	0.000050	mg/L		13-JUL-20	R5151279
Nickel (Ni)-Total	0.00126	<T	0.00050	mg/L		13-JUL-20	R5151279
Phosphorus (P)-Total	0.024	<DL	0.050	mg/L		13-JUL-20	R5151279
Potassium (K)-Total	0.348		0.050	mg/L		13-JUL-20	R5151279
Rubidium (Rb)-Total	0.00142		0.00020	mg/L		13-JUL-20	R5151279
Selenium (Se)-Total	0.000162	<T	0.000050	mg/L		13-JUL-20	R5151279
Silicon (Si)-Total	1.88		0.10	mg/L		13-JUL-20	R5151279
Silver (Ag)-Total	0.0000015	<DL	0.000050	mg/L		13-JUL-20	R5151279
Sodium (Na)-Total	1.42		0.050	mg/L		13-JUL-20	R5151279
Strontium (Sr)-Total	0.0722		0.0010	mg/L		13-JUL-20	R5151279
Sulfur (S)-Total	0.80		0.50	mg/L		13-JUL-20	R5151279
Tellurium (Te)-Total	0.000010	<DL	0.00020	mg/L		13-JUL-20	R5151279
Thallium (Tl)-Total	0.000004	<DL	0.000010	mg/L		13-JUL-20	R5151279
Thorium (Th)-Total	0.000030	<DL	0.00010	mg/L		13-JUL-20	R5151279
Tin (Sn)-Total	0.00017		0.00010	mg/L		13-JUL-20	R5151279
Titanium (Ti)-Total	0.00402		0.00030	mg/L		13-JUL-20	R5151279
Tungsten (W)-Total	0.000004	<DL	0.00010	mg/L		13-JUL-20	R5151279
Uranium (U)-Total	0.000389	<T	0.000010	mg/L		13-JUL-20	R5151279
Vanadium (V)-Total	0.00094	<T	0.00050	mg/L		13-JUL-20	R5151279
Zinc (Zn)-Total	0.0018	<DL	0.0030	mg/L		13-JUL-20	R5151279
Zirconium (Zr)-Total	0.000248		0.00020	mg/L		13-JUL-20	R5151279
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					12-JUL-20	R5149144
Aluminum (Al)-Dissolved	0.0092	<T	0.0050	mg/L		14-JUL-20	R5153539
Antimony (Sb)-Dissolved	0.000045	<DL	0.00010	mg/L		14-JUL-20	R5153539
Arsenic (As)-Dissolved	0.00172	<T	0.00010	mg/L		14-JUL-20	R5153539
Barium (Ba)-Dissolved	0.0128		0.00010	mg/L		14-JUL-20	R5153539
Beryllium (Be)-Dissolved	0.000012	<DL	0.00010	mg/L		14-JUL-20	R5153539
Bismuth (Bi)-Dissolved	<0.000005	<W	0.000050	mg/L		14-JUL-20	R5153539
Boron (B)-Dissolved	0.014		0.010	mg/L		14-JUL-20	R5153539
Cadmium (Cd)-Dissolved	0.0000052	<T	0.0000050	mg/L		14-JUL-20	R5153539
Calcium (Ca)-Dissolved	28.8		0.050	mg/L		14-JUL-20	R5153539
Cesium (Cs)-Dissolved	0.0000006	<DL	0.000010	mg/L		14-JUL-20	R5153539
Chromium (Cr)-Dissolved	0.00014	<DL	0.00050	mg/L		14-JUL-20	R5153539
Cobalt (Co)-Dissolved	0.000142	<T	0.00010	mg/L		14-JUL-20	R5153539
Copper (Cu)-Dissolved	0.00050	<T	0.00020	mg/L		14-JUL-20	R5153539
Iron (Fe)-Dissolved	0.214		0.010	mg/L		14-JUL-20	R5153539

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2472458-13 SW28A							
Sampled By: Client on 07-JUL-20 @ 10:15							
Matrix: Water							
Dissolved Metals							
Lead (Pb)-Dissolved	0.00004	<DL	0.000050	mg/L		14-JUL-20	R5153539
Lithium (Li)-Dissolved	0.0044	<T	0.0010	mg/L		14-JUL-20	R5153539
Magnesium (Mg)-Dissolved	12.7		0.0050	mg/L		14-JUL-20	R5153539
Manganese (Mn)-Dissolved	0.0213		0.00050	mg/L		14-JUL-20	R5153539
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		14-JUL-20	R5152045
Molybdenum (Mo)-Dissolved	0.000600	<T	0.000050	mg/L		14-JUL-20	R5153539
Nickel (Ni)-Dissolved	0.00106	<T	0.00050	mg/L		14-JUL-20	R5153539
Phosphorus (P)-Dissolved	0.026	<DL	0.050	mg/L		14-JUL-20	R5153539
Potassium (K)-Dissolved	0.318		0.050	mg/L		14-JUL-20	R5153539
Rubidium (Rb)-Dissolved	0.000854		0.00020	mg/L		14-JUL-20	R5153539
Selenium (Se)-Dissolved	0.000220	<T	0.000050	mg/L		14-JUL-20	R5153539
Silicon (Si)-Dissolved	1.80		0.050	mg/L		14-JUL-20	R5153539
Silver (Ag)-Dissolved	0.0000010	<DL	0.000050	mg/L		14-JUL-20	R5153539
Sodium (Na)-Dissolved	1.43		0.050	mg/L		14-JUL-20	R5153539
Strontium (Sr)-Dissolved	0.0751		0.0010	mg/L		14-JUL-20	R5153539
Sulfur (S)-Dissolved	0.85		0.50	mg/L		14-JUL-20	R5153539
Tellurium (Te)-Dissolved	0.000010	<DL	0.00020	mg/L		14-JUL-20	R5153539
Thallium (Tl)-Dissolved	0.000001	<DL	0.000010	mg/L		14-JUL-20	R5153539
Thorium (Th)-Dissolved	0.000026	<DL	0.00010	mg/L		14-JUL-20	R5153539
Tin (Sn)-Dissolved	0.00010		0.00010	mg/L		14-JUL-20	R5153539
Titanium (Ti)-Dissolved	0.00144		0.00030	mg/L		14-JUL-20	R5153539
Tungsten (W)-Dissolved	0.000004	<DL	0.00010	mg/L		14-JUL-20	R5153539
Uranium (U)-Dissolved	0.000367	<T	0.000010	mg/L		14-JUL-20	R5153539
Vanadium (V)-Dissolved	0.00054	<T	0.00050	mg/L		14-JUL-20	R5153539
Zinc (Zn)-Dissolved	0.0018	<T	0.0010	mg/L		14-JUL-20	R5153539
Zirconium (Zr)-Dissolved	0.000216	<T	0.00020	mg/L		14-JUL-20	R5153539
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		10-JUL-20	R5154048
COD	84		10	mg/L		20-JUL-20	R5158418
Oil and Grease, Total	<0.2	<W	1.0	mg/L	16-JUL-20	16-JUL-20	R5156137

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
---------------------	-----------	-----------	-----------------------------

Sample Parameter Qualifier key listed:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
DLUI	Detection Limit Raised: Unknown Interference generated an apparent false positive test result.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-MISA-TB	Effluent	Acidity (as CaCO ₃)	APHA 2310 B-POTENTIOMETRIC TITRATION
Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample.			
ALK-MISA-TB	Effluent	Alkalinity, Total (as CaCO ₃)	APHA 2320 B-Auto-Pot. Titration
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
BOD-TB	Water	Biochemical Oxygen Demand (BOD)	APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND
All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation.			
CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
CN-FREE-MISA-CFA-WT	Effluent	Free Cyanide by Continuous Flow Analyzer	ASTM D7237-10 (modified)
This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis.			
CN-T-MISA-CFA-WT	Effluent	Total Cyanide by CFA	ISO 14403-2:2012 (modified)
This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis. Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.			
CN-WAD-MISA-CFA-WT	Effluent	Weak Acid Dissociable Cyanide by CFA	APHA 4500-CN CYANIDE (modified)
This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.			
COD-T-WT	Water	Chemical Oxygen Demand	APHA 5220 D
This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.			
COLOUR-TB	Water	Colour, True	APHA 2120 C
True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard.			
DO-CLIENT-TB	Water	Dissolved Oxygen, Client Supplied	Result supplied by Client
DOC-WT	Effluent	Dissolved Organic Carbon for MISA	APHA 5310 B-Instrumental
EC-MISA-TB	Effluent	Conductivity (EC)	APHA 2510 B-ELECTRODE
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
ETL-NH3-UNION-CLI-WT	Water	Un-ionized ammonia	CALCULATION
F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)

Reference Information

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Effluent	Hardness (as CaCO ₃)	CALCULATION
------------------	----------	----------------------------------	-------------

HG-DIS-WT	Effluent	Mercury (Hg)-Dissolved for MISA	SW846 7470A
-----------	----------	---------------------------------	-------------

HG-TOT-WT	Effluent	Mercury (Hg)-Total for MISA	SW846 7470A
-----------	----------	-----------------------------	-------------

MET-D-MISA-MS-WT	Effluent	Diss. Metals in Effluent by ICPMS (MISA)	EPA 200.8
------------------	----------	--	-----------

The concentration of metals determined on an filtered effluent sample for the MISA regulation. The samples are analyzed directly (undigested) by ICP-MS.

MET-T-MISA-MS-WT	Effluent	Total Metals by ICPMS	EPA 200.8
------------------	----------	-----------------------	-----------

The concentration of metals determined on an unfiltered effluent sample for the MISA regulation. The samples are digested in acid and analyzed by ICP-MS.

NH3-F-WT	Effluent	Ammonia, Total as N	J. ENVIRON. MONIT., 2005, 7, 37-42, RSC
----------	----------	---------------------	---

This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.

NO2-MISA-IC-TB	Effluent	Nitrite in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

NO3-MISA-IC-TB	Effluent	Nitrate in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

OGG-TOT-WT	Effluent	Oil and Grease, Total for MISA	APHA 5520 B-Hexane Gravimetric
------------	----------	--------------------------------	--------------------------------

PH,TEMP-CLIENT-WT	Water	pH & Temperature	Results supplied by client
-------------------	-------	------------------	----------------------------

PH-MISA-TB	Effluent	pH	APHA 4500-H-ELECTRODE
------------	----------	----	-----------------------

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

PO4-DO-COL-TB	Water	Dissolved Orthophosphate	APHA 4500-P B, F, G (modified)
---------------	-------	--------------------------	--------------------------------

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

RA226-MMER-BE	Water	Radium 226	Radium Isotopes by Alpha Spectrometry
---------------	-------	------------	---------------------------------------

Determination of Gamma Emitting Radionuclides In Water and Solids by Gamma Spectrometry.

SO4-MISA-IC-TB	Effluent	Sulfate in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

TDS-MISA-TB	Effluent	Total Dissolved Solids	APHA 2540 C (modified)
-------------	----------	------------------------	------------------------

Aqueous matrices are analyzed using gravimetry and evaporation

TKN-WT	Effluent	Total Kjeldahl Nitrogen for MISA	APHA 4500-N
--------	----------	----------------------------------	-------------

TOC-WT	Water	Total Organic Carbon	APHA 5310B
--------	-------	----------------------	------------

Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

TSS-MISA-TB	Effluent	Total Suspended Solids	APHA 2540 D (modified)
-------------	----------	------------------------	------------------------

Aqueous matrices are analyzed using gravimetry

TURBIDITY-TB	Water	Turbidity	APHA 2130 B-Nephelometer
--------------	-------	-----------	--------------------------

Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle.

Reference Information

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
BE	BECQUEREL LABORATORIES INC. - MISSISSAUGA, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2472458

Report Date: 31-JUL-20

Page 1 of 18

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BOD-TB		Water						
Batch	R5154048							
WG3359761-8	DUP	L2472409-2						
Biochemical Oxygen Demand		54	59		mg/L	8.3	30	10-JUL-20
WG3359761-6	LCS							
Biochemical Oxygen Demand			93.1		%		85-115	10-JUL-20
WG3359761-5	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	10-JUL-20
CL-L-IC-N-TB		Water						
Batch	R5148636							
WG3360020-3	DUP	L2472458-4						
Chloride (Cl)		10.2	9.19		mg/L	10	20	10-JUL-20
WG3360020-2	LCS							
Chloride (Cl)			99.3		%		90-110	10-JUL-20
WG3360020-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	10-JUL-20
WG3360020-4	MS	L2472458-8						
Chloride (Cl)			91.3		%		75-125	10-JUL-20
COD-T-WT		Water						
Batch	R5158418							
WG3365912-3	DUP	L2472359-2						
COD		11	10		mg/L	9.3	20	20-JUL-20
WG3365912-7	DUP	L2472941-1						
COD		27	27		mg/L	1.5	20	20-JUL-20
WG3365912-2	LCS							
COD			95.1		%		85-115	20-JUL-20
WG3365912-6	LCS							
COD			95.1		%		85-115	20-JUL-20
WG3365912-1	MB							
COD			<10		mg/L		10	20-JUL-20
WG3365912-5	MB							
COD			<10		mg/L		10	20-JUL-20
WG3365912-4	MS	L2472359-2						
COD			89.8		%		75-125	20-JUL-20
WG3365912-8	MS	L2472941-1						
COD			96.8		%		75-125	20-JUL-20
COLOUR-TB		Water						

Quality Control Report

Workorder: L2472458

Report Date: 31-JUL-20

Page 2 of 18

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
COLOUR-TB		Water						
Batch	R5147871							
WG3360012-3	DUP	L2472504-1						
Color, True		<2.0	<2.0	RPD-NA	CU	N/A	20	10-JUL-20
WG3360012-2	LCS		99.0		%		85-115	10-JUL-20
Color, True								
WG3360012-1	MB		<2.0		CU		2	10-JUL-20
Color, True								
F-IC-N-TB		Water						
Batch	R5148636							
WG3360020-3	DUP	L2472458-4						
Fluoride (F)		0.070	0.061		mg/L	14	20	10-JUL-20
WG3360020-2	LCS		101.5		%		90-110	10-JUL-20
Fluoride (F)								
WG3360020-1	MB		<0.020		mg/L		0.02	10-JUL-20
Fluoride (F)								
WG3360020-4	MS	L2472458-8	98.5		%		75-125	10-JUL-20
Fluoride (F)								
PO4-DO-COL-TB		Water						
Batch	R5148676							
WG3360003-3	DUP	L2472458-4						
Orthophosphate-Dissolved (as P)		0.0581	0.0564		mg/L	2.9	20	10-JUL-20
WG3360003-2	LCS		100.6		%		80-120	10-JUL-20
Orthophosphate-Dissolved (as P)								
WG3360003-1	MB		<0.0030		mg/L		0.003	10-JUL-20
Orthophosphate-Dissolved (as P)								
WG3360003-4	MS	L2472458-8	122.0		%		70-130	10-JUL-20
Orthophosphate-Dissolved (as P)								
TOC-WT		Water						
Batch	R5157084							
WG3361119-3	DUP	L2471678-1						
Total Organic Carbon		7.01	7.38		mg/L	5.2	20	16-JUL-20
WG3361119-2	LCS		104.9		%		80-120	16-JUL-20
Total Organic Carbon								
WG3361119-1	MB		<0.50		mg/L		0.5	16-JUL-20
Total Organic Carbon								
WG3361119-4	MS	L2471678-1	108.4		%		70-130	16-JUL-20
Total Organic Carbon								
TURBIDITY-TB		Water						

Quality Control Report

Workorder: L2472458

Report Date: 31-JUL-20

Page 3 of 18

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TURBIDITY-TB		Water						
Batch	R5147928							
WG3360165-3	DUP	L2472458-13						
Turbidity		5.27	5.16		NTU	2.1	15	10-JUL-20
WG3360165-2	LCS							
Turbidity			97.0		%		85-115	10-JUL-20
WG3360165-1	MB							
Turbidity			<0.10		NTU		0.1	10-JUL-20
ACY-MISA-TB		Effluent						
Batch	R5152626							
WG3359972-3	DUP	L2472458-5						
Acidity (as CaCO3)		0.4	0.2	RPD-NA	mg/L	N/A	20	12-JUL-20
WG3359972-2	LCS							
Acidity (as CaCO3)			101.0		%		85-115	12-JUL-20
WG3359972-1	MB							
Acidity (as CaCO3)			1.8		mg/L		4	12-JUL-20
ALK-MISA-TB		Effluent						
Batch	R5148736							
WG3359967-3	DUP	L2472445-1						
Alkalinity, Total (as CaCO3)		185	185		mg/L	0.1	20	11-JUL-20
Alkalinity, Phenolphthalein		5.6	5.4		mg/L	3.6	25	11-JUL-20
WG3359967-2	LCS							
Alkalinity, Total (as CaCO3)			104.6		%		85-115	11-JUL-20
WG3359967-1	MB							
Alkalinity, Total (as CaCO3)			0.4		mg/L		2	11-JUL-20
Alkalinity, Phenolphthalein			<0.2		mg/L		2	11-JUL-20
CN-FREE-MISA-CFA-WT		Effluent						
Batch	R5152261							
WG3361124-3	DUP	L2472458-5						
Cyanide, Free		0.0010	0.0012	RPD-NA	mg/L	N/A	20	13-JUL-20
WG3361124-2	LCS							
Cyanide, Free			104.2		%		80-120	13-JUL-20
WG3361124-1	MB							
Cyanide, Free			<0.0001		mg/L		0.002	13-JUL-20
WG3361124-4	MS	L2472458-5						
Cyanide, Free			101.0		%		75-125	13-JUL-20
CN-T-MISA-CFA-WT		Effluent						

Quality Control Report

Workorder: L2472458

Report Date: 31-JUL-20

Page 4 of 18

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CN-T-MISA-CFA-WT		Effluent						
Batch R5152261								
WG3361124-3	DUP	L2472458-5						
Cyanide, Total		0.0008	0.0008	RPD-NA	mg/L	N/A	20	13-JUL-20
WG3361124-2	LCS							
Cyanide, Total			92.5		%		80-120	13-JUL-20
WG3361124-1	MB							
Cyanide, Total			<0.0002		mg/L		0.002	13-JUL-20
WG3361124-4	MS	L2472458-5						
Cyanide, Total			82.2		%		75-125	13-JUL-20
CN-WAD-MISA-CFA-WT		Effluent						
Batch R5152261								
WG3361124-3	DUP	L2472458-5						
Cyanide, Weak Acid Diss		0.0009	0.0007	RPD-NA	mg/L	N/A	20	13-JUL-20
WG3361124-2	LCS							
Cyanide, Weak Acid Diss			103.1		%		80-120	13-JUL-20
WG3361124-1	MB							
Cyanide, Weak Acid Diss			<0.0001		mg/L		0.002	13-JUL-20
WG3361124-4	MS	L2472458-5						
Cyanide, Weak Acid Diss			96.5		%		75-125	13-JUL-20
DOC-WT		Effluent						
Batch R5157078								
WG3361506-5	DUP	L2472458-1						
Dissolved Organic Carbon		38.5	37.0		mg/L	3.8	25	16-JUL-20
WG3361506-2	LCS							
Dissolved Organic Carbon			108.3		%		70-130	16-JUL-20
WG3361506-1	MB							
Dissolved Organic Carbon			<0.50		mg/L		0.5	16-JUL-20
Batch R5158277								
WG3361508-5	DUP	L2472458-9						
Dissolved Organic Carbon		43.7	43.9		mg/L	0.5	25	20-JUL-20
WG3362355-3	DUP	L2472445-1						
Dissolved Organic Carbon		9.4	10.2		mg/L	8.2	25	20-JUL-20
WG3361508-2	LCS							
Dissolved Organic Carbon			99.3		%		70-130	20-JUL-20
WG3362355-2	LCS							
Dissolved Organic Carbon			102.5		%		70-130	20-JUL-20
WG3361508-1	MB							
Dissolved Organic Carbon			<0.50		mg/L		0.5	20-JUL-20
WG3362355-1	MB							

Quality Control Report

Workorder: L2472458

Report Date: 31-JUL-20

Page 5 of 18

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DOC-WT		Effluent						
Batch	R5158277							
WG3362355-1	MB							
Dissolved Organic Carbon			<0.50		mg/L		0.5	20-JUL-20
EC-MISA-TB		Effluent						
Batch	R5148736							
WG3359967-3	DUP	L2472445-1						
Conductivity (EC)		468	467		uS/cm	0.2	10	11-JUL-20
WG3359967-2	LCS							
Conductivity (EC)			100.4		%		90-110	11-JUL-20
WG3359967-1	MB							
Conductivity (EC)			1.8		uS/cm		2	11-JUL-20
HG-DIS-WT		Effluent						
Batch	R5152045							
WG3361821-3	DUP	L2472445-1						
Mercury (Hg)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	14-JUL-20
WG3361821-2	LCS							
Mercury (Hg)-Dissolved			104.0		%		80-120	14-JUL-20
WG3361821-1	MB							
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.00003	14-JUL-20
WG3361821-4	MS	L2472458-1						
Mercury (Hg)-Dissolved			92.2		%		70-130	14-JUL-20
HG-TOT-WT		Effluent						
Batch	R5149902							
WG3361092-3	DUP	L2471678-1						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	13-JUL-20
WG3361092-2	LCS							
Mercury (Hg)-Total			105.0		%		80-120	13-JUL-20
WG3361092-1	MB							
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	13-JUL-20
WG3361092-4	MS	L2472445-1						
Mercury (Hg)-Total			117.6		%		70-130	13-JUL-20
MET-D-MISA-MS-WT		Effluent						
Batch	R5149960							
WG3360768-4	DUP	WG3360768-3						
Aluminum (Al)-Dissolved		0.0230	0.0220		mg/L	4.6	20	13-JUL-20
Antimony (Sb)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	13-JUL-20
Arsenic (As)-Dissolved		0.00113	0.00111		mg/L	1.5	20	13-JUL-20

Quality Control Report

Workorder: L2472458

Report Date: 31-JUL-20

Page 6 of 18

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-MS-WT		Effluent						
Batch	R5149960							
WG3360768-4	DUP	WG3360768-3						
Barium (Ba)-Dissolved		0.0125	0.0126		mg/L	0.6	20	13-JUL-20
Beryllium (Be)-Dissolved		0.000010	0.000008	RPD-NA	mg/L	N/A	20	13-JUL-20
Bismuth (Bi)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	13-JUL-20
Boron (B)-Dissolved		0.010	0.010	RPD-NA	mg/L	N/A	20	13-JUL-20
Cadmium (Cd)-Dissolved		0.0000054	0.0000038	RPD-NA	mg/L	N/A	20	13-JUL-20
Calcium (Ca)-Dissolved		21.9	21.4		mg/L	2.4	20	13-JUL-20
Cesium (Cs)-Dissolved		0.0000016	0.0000016	RPD-NA	mg/L	N/A	25	13-JUL-20
Chromium (Cr)-Dissolved		0.00014	0.00016	RPD-NA	mg/L	N/A	20	13-JUL-20
Cobalt (Co)-Dissolved		0.000166	0.000172		mg/L	3.6	20	13-JUL-20
Copper (Cu)-Dissolved		0.00025	0.00020		mg/L	5.5	20	13-JUL-20
Iron (Fe)-Dissolved		0.373	0.370		mg/L	1.0	20	13-JUL-20
Lead (Pb)-Dissolved		0.00024	0.00018	J	mg/L	0.000054	0.0001	13-JUL-20
Lithium (Li)-Dissolved		0.0018	0.0018		mg/L	5.7	20	13-JUL-20
Magnesium (Mg)-Dissolved		8.77	8.66		mg/L	1.3	20	13-JUL-20
Manganese (Mn)-Dissolved		0.0575	0.0569		mg/L	1.1	20	13-JUL-20
Molybdenum (Mo)-Dissolved		0.000070	0.000075		mg/L	3.9	20	13-JUL-20
Nickel (Ni)-Dissolved		0.00062	0.00062		mg/L	0.3	20	13-JUL-20
Phosphorus (P)-Dissolved		0.008	0.008	RPD-NA	mg/L	N/A	25	13-JUL-20
Potassium (K)-Dissolved		0.096	0.096		mg/L	0.3	20	13-JUL-20
Rubidium (Rb)-Dissolved		0.000530	0.000500		mg/L	6.0	25	13-JUL-20
Selenium (Se)-Dissolved		0.000180	0.000180		mg/L	0.1	20	13-JUL-20
Silicon (Si)-Dissolved		4.74	4.77		mg/L	0.6	25	13-JUL-20
Silver (Ag)-Dissolved		<0.0000005	<0.0000005	RPD-NA	mg/L	N/A	20	13-JUL-20
Sodium (Na)-Dissolved		0.910	0.890		mg/L	2.3	20	13-JUL-20
Strontium (Sr)-Dissolved		0.0383	0.0390		mg/L	1.6	20	13-JUL-20
Sulfur (S)-Dissolved		0.25	0.25	RPD-NA	mg/L	N/A	25	13-JUL-20
Tellurium (Te)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	25	13-JUL-20
Thallium (Tl)-Dissolved		0.000002	0.000002	RPD-NA	mg/L	N/A	20	13-JUL-20
Thorium (Th)-Dissolved		0.000014	0.000016	RPD-NA	mg/L	N/A	25	13-JUL-20
Tin (Sn)-Dissolved		0.00006	0.00005	RPD-NA	mg/L	N/A	20	13-JUL-20
Titanium (Ti)-Dissolved		0.00050	0.00048		mg/L	4.0	20	13-JUL-20
Tungsten (W)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	13-JUL-20
Uranium (U)-Dissolved		0.0000370	0.0000365		mg/L			13-JUL-20

Quality Control Report

Workorder: L2472458

Report Date: 31-JUL-20

Page 7 of 18

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-MS-WT								
	Effluent							
Batch	R5149960							
WG3360768-4	DUP	WG3360768-3						
Uranium (U)-Dissolved		0.0000370	0.0000365		mg/L	2.2	20	13-JUL-20
Vanadium (V)-Dissolved		0.00020	0.00022	RPD-NA	mg/L	N/A	20	13-JUL-20
Zinc (Zn)-Dissolved		0.0020	0.0020		mg/L	0.2	20	13-JUL-20
Zirconium (Zr)-Dissolved		0.000144	0.000148	RPD-NA	mg/L	N/A	20	13-JUL-20
WG3360768-1	MB							
Aluminum (Al)-Dissolved			0.0006		mg/L		0.005	13-JUL-20
Antimony (Sb)-Dissolved			0.000030		mg/L		0.0001	13-JUL-20
Arsenic (As)-Dissolved			<0.000005		mg/L		0.0001	13-JUL-20
Barium (Ba)-Dissolved			<0.00002		mg/L		0.0001	13-JUL-20
Beryllium (Be)-Dissolved			<0.000002		mg/L		0.0001	13-JUL-20
Bismuth (Bi)-Dissolved			<0.000005		mg/L		0.00005	13-JUL-20
Boron (B)-Dissolved			<0.002		mg/L		0.01	13-JUL-20
Cadmium (Cd)-Dissolved			<0.0000002		mg/L		0.000005	13-JUL-20
Calcium (Ca)-Dissolved			0.005		mg/L		0.05	13-JUL-20
Cesium (Cs)-Dissolved			<0.0000002		mg/L		0.00001	13-JUL-20
Chromium (Cr)-Dissolved			<0.00002		mg/L		0.0005	13-JUL-20
Cobalt (Co)-Dissolved			<0.000002		mg/L		0.0001	13-JUL-20
Copper (Cu)-Dissolved			<0.00005		mg/L		0.0002	13-JUL-20
Iron (Fe)-Dissolved			<0.001		mg/L		0.01	13-JUL-20
Lead (Pb)-Dissolved			<0.00002		mg/L		0.00005	13-JUL-20
Lithium (Li)-Dissolved			<0.0002		mg/L		0.001	13-JUL-20
Magnesium (Mg)-Dissolved			<0.0005		mg/L		0.005	13-JUL-20
Manganese (Mn)-Dissolved			<0.00002		mg/L		0.0005	13-JUL-20
Molybdenum (Mo)-Dissolved			<0.000005		mg/L		0.00005	13-JUL-20
Nickel (Ni)-Dissolved			<0.00002		mg/L		0.0005	13-JUL-20
Phosphorus (P)-Dissolved			<0.002		mg/L		0.05	13-JUL-20
Potassium (K)-Dissolved			<0.002		mg/L		0.05	13-JUL-20
Rubidium (Rb)-Dissolved			0.000002		mg/L		0.0002	13-JUL-20
Selenium (Se)-Dissolved			0.000004		mg/L		0.00005	13-JUL-20
Silicon (Si)-Dissolved			<0.002		mg/L		0.05	13-JUL-20
Silver (Ag)-Dissolved			<0.0000005		mg/L		0.00005	13-JUL-20
Sodium (Na)-Dissolved			<0.005		mg/L		0.05	13-JUL-20
Strontium (Sr)-Dissolved			<0.00001		mg/L		0.001	13-JUL-20
Sulfur (S)-Dissolved			<0.05				0.5	

Quality Control Report

Workorder: L2472458

Report Date: 31-JUL-20

Page 8 of 18

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-MS-WT		Effluent						
Batch	R5149960							
WG3360768-1	MB							
Sulfur (S)-Dissolved			<0.05		mg/L		0.5	13-JUL-20
Tellurium (Te)-Dissolved			<0.000005		mg/L		0.0002	13-JUL-20
Thallium (Tl)-Dissolved			<0.000001		mg/L		0.00001	13-JUL-20
Thorium (Th)-Dissolved			0.000006		mg/L		0.0001	13-JUL-20
Tin (Sn)-Dissolved			<0.00001		mg/L		0.0001	13-JUL-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.0003	13-JUL-20
Tungsten (W)-Dissolved			<0.000002		mg/L		0.0001	13-JUL-20
Uranium (U)-Dissolved			<0.0000005		mg/L		0.00001	13-JUL-20
Vanadium (V)-Dissolved			<0.00002		mg/L		0.0005	13-JUL-20
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.001	13-JUL-20
Zirconium (Zr)-Dissolved			<0.000004		mg/L		0.0002	13-JUL-20
Batch	R5153539							
WG3360769-4	DUP							
		WG3360769-3						
Aluminum (Al)-Dissolved		0.0024	0.0024	RPD-NA	mg/L	N/A	20	14-JUL-20
Antimony (Sb)-Dissolved		0.000015	0.000015	RPD-NA	mg/L	N/A	20	14-JUL-20
Arsenic (As)-Dissolved		0.000035	0.000035	RPD-NA	mg/L	N/A	20	14-JUL-20
Barium (Ba)-Dissolved		0.0165	0.0162		mg/L	2.0	20	14-JUL-20
Beryllium (Be)-Dissolved		0.000006	0.000006	RPD-NA	mg/L	N/A	20	14-JUL-20
Bismuth (Bi)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	14-JUL-20
Boron (B)-Dissolved		0.014	0.014		mg/L	1.3	20	14-JUL-20
Cadmium (Cd)-Dissolved		0.0000188	0.0000186		mg/L	1.1	20	14-JUL-20
Calcium (Ca)-Dissolved		32.1	32.3		mg/L	0.5	20	14-JUL-20
Cesium (Cs)-Dissolved		0.0000010	0.0000008	RPD-NA	mg/L	N/A	25	14-JUL-20
Chromium (Cr)-Dissolved		0.00116	0.00116		mg/L	0.2	20	14-JUL-20
Cobalt (Co)-Dissolved		0.000016	0.000018	RPD-NA	mg/L	N/A	20	14-JUL-20
Copper (Cu)-Dissolved		0.00100	0.00100		mg/L	1.5	20	14-JUL-20
Iron (Fe)-Dissolved		0.003	0.003	RPD-NA	mg/L	N/A	20	14-JUL-20
Lead (Pb)-Dissolved		<0.00002	<0.00002	RPD-NA	mg/L	N/A	20	14-JUL-20
Lithium (Li)-Dissolved		0.0024	0.0022		mg/L	2.4	20	14-JUL-20
Magnesium (Mg)-Dissolved		9.35	9.28		mg/L	0.7	20	14-JUL-20
Manganese (Mn)-Dissolved		0.00074	0.00070		mg/L	6.0	20	14-JUL-20
Molybdenum (Mo)-Dissolved		0.000015	0.000015	RPD-NA	mg/L	N/A	20	14-JUL-20
Nickel (Ni)-Dissolved		0.00168	0.00164		mg/L	2.1	20	14-JUL-20

Quality Control Report

Workorder: L2472458

Report Date: 31-JUL-20

Page 9 of 18

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-MS-WT		Effluent						
Batch	R5153539							
WG3360769-4	DUP	WG3360769-3						
Phosphorus (P)-Dissolved		<0.002	<0.002	RPD-NA	mg/L	N/A	25	14-JUL-20
Potassium (K)-Dissolved		0.828	0.822		mg/L	0.6	20	14-JUL-20
Rubidium (Rb)-Dissolved		0.000830	0.000808		mg/L	2.7	25	14-JUL-20
Selenium (Se)-Dissolved		0.000094	0.000092		mg/L	1.8	20	14-JUL-20
Silicon (Si)-Dissolved		9.38	9.41		mg/L	0.3	25	14-JUL-20
Silver (Ag)-Dissolved		0.0000010	0.0000005	RPD-NA	mg/L	N/A	20	14-JUL-20
Sodium (Na)-Dissolved		3.47	3.36		mg/L	3.2	20	14-JUL-20
Strontium (Sr)-Dissolved		0.102	0.103		mg/L	0.2	20	14-JUL-20
Sulfur (S)-Dissolved		3.10	3.15		mg/L	1.2	25	14-JUL-20
Tellurium (Te)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	25	14-JUL-20
Thallium (Tl)-Dissolved		0.000018	0.000019		mg/L	2.2	20	14-JUL-20
Thorium (Th)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	25	14-JUL-20
Tin (Sn)-Dissolved		0.00009	0.00008	RPD-NA	mg/L	N/A	20	14-JUL-20
Titanium (Ti)-Dissolved		0.00006	0.00004	RPD-NA	mg/L	N/A	20	14-JUL-20
Tungsten (W)-Dissolved		0.000006	0.000006	RPD-NA	mg/L	N/A	20	14-JUL-20
Uranium (U)-Dissolved		0.000573	0.000572		mg/L	0.2	20	14-JUL-20
Vanadium (V)-Dissolved		0.00024	0.00022	RPD-NA	mg/L	N/A	20	14-JUL-20
Zinc (Zn)-Dissolved		0.0026	0.0026		mg/L	2.8	20	14-JUL-20
Zirconium (Zr)-Dissolved		<0.000004	<0.000004	RPD-NA	mg/L	N/A	20	14-JUL-20
WG3360769-1	MB							
Aluminum (Al)-Dissolved			0.0006		mg/L		0.005	14-JUL-20
Antimony (Sb)-Dissolved			0.000005		mg/L		0.0001	14-JUL-20
Arsenic (As)-Dissolved			<0.000005		mg/L		0.0001	14-JUL-20
Barium (Ba)-Dissolved			<0.00002		mg/L		0.0001	14-JUL-20
Beryllium (Be)-Dissolved			<0.000002		mg/L		0.0001	14-JUL-20
Bismuth (Bi)-Dissolved			<0.000005		mg/L		0.00005	14-JUL-20
Boron (B)-Dissolved			<0.002		mg/L		0.01	14-JUL-20
Cadmium (Cd)-Dissolved			<0.0000002		mg/L		0.000005	14-JUL-20
Calcium (Ca)-Dissolved			<0.005		mg/L		0.05	14-JUL-20
Cesium (Cs)-Dissolved			<0.0000002		mg/L		0.00001	14-JUL-20
Chromium (Cr)-Dissolved			<0.00002		mg/L		0.0005	14-JUL-20
Cobalt (Co)-Dissolved			<0.000002		mg/L		0.0001	14-JUL-20
Copper (Cu)-Dissolved			<0.00005		mg/L		0.0002	14-JUL-20

Quality Control Report

Workorder: L2472458

Report Date: 31-JUL-20

Page 10 of 18

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-MS-WT		Effluent						
Batch	R5153539							
WG3360769-1	MB							
Iron (Fe)-Dissolved			<0.001		mg/L		0.01	14-JUL-20
Lead (Pb)-Dissolved			<0.00002		mg/L		0.00005	14-JUL-20
Lithium (Li)-Dissolved			<0.0002		mg/L		0.001	14-JUL-20
Magnesium (Mg)-Dissolved			<0.0005		mg/L		0.005	14-JUL-20
Manganese (Mn)-Dissolved			<0.00002		mg/L		0.0005	14-JUL-20
Molybdenum (Mo)-Dissolved			<0.000005		mg/L		0.00005	14-JUL-20
Nickel (Ni)-Dissolved			<0.00002		mg/L		0.0005	14-JUL-20
Phosphorus (P)-Dissolved			<0.002		mg/L		0.05	14-JUL-20
Potassium (K)-Dissolved			<0.002		mg/L		0.05	14-JUL-20
Rubidium (Rb)-Dissolved			<0.000002		mg/L		0.0002	14-JUL-20
Selenium (Se)-Dissolved			<0.000002		mg/L		0.00005	14-JUL-20
Silicon (Si)-Dissolved			<0.002		mg/L		0.05	14-JUL-20
Silver (Ag)-Dissolved			0.0000005		mg/L		0.00005	14-JUL-20
Sodium (Na)-Dissolved			<0.005		mg/L		0.05	14-JUL-20
Strontium (Sr)-Dissolved			<0.00001		mg/L		0.001	14-JUL-20
Sulfur (S)-Dissolved			<0.05		mg/L		0.5	14-JUL-20
Tellurium (Te)-Dissolved			<0.000005		mg/L		0.0002	14-JUL-20
Thallium (Tl)-Dissolved			<0.000001		mg/L		0.00001	14-JUL-20
Thorium (Th)-Dissolved			0.000004		mg/L		0.0001	14-JUL-20
Tin (Sn)-Dissolved			<0.00001		mg/L		0.0001	14-JUL-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.0003	14-JUL-20
Tungsten (W)-Dissolved			<0.000002		mg/L		0.0001	14-JUL-20
Uranium (U)-Dissolved			<0.0000005		mg/L		0.00001	14-JUL-20
Vanadium (V)-Dissolved			<0.00002		mg/L		0.0005	14-JUL-20
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.001	14-JUL-20
Zirconium (Zr)-Dissolved			<0.000004		mg/L		0.0002	14-JUL-20
MET-T-MISA-MS-WT		Effluent						
Batch	R5151279							
WG3360805-4	DUP							
		WG3360805-3						
Aluminum (Al)-Total		0.0292	0.0348	RPD-NA	mg/L	N/A	25	13-JUL-20
Antimony (Sb)-Total		0.00245	0.00247		mg/L	0.7	25	13-JUL-20
Arsenic (As)-Total		2.28	2.23		mg/L	2.0	25	13-JUL-20
Barium (Ba)-Total		0.0392	0.0382		mg/L	2.5	25	13-JUL-20

Quality Control Report

Workorder: L2472458

Report Date: 31-JUL-20

Page 11 of 18

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-MS-WT		Effluent						
Batch	R5151279							
WG3360805-4	DUP	WG3360805-3						
Beryllium (Be)-Total		0.000076	0.000036	RPD-NA	mg/L	N/A	25	13-JUL-20
Bismuth (Bi)-Total		0.000045	0.000040	RPD-NA	mg/L	N/A	25	13-JUL-20
Boron (B)-Total		0.992	1.00		mg/L	1.0	25	13-JUL-20
Cadmium (Cd)-Total		0.00140	0.00142		mg/L	2.0	25	13-JUL-20
Calcium (Ca)-Total		113	112		mg/L	0.6	25	13-JUL-20
Cesium (Cs)-Total		0.0000116	0.0000026	RPD-NA	mg/L	N/A	25	13-JUL-20
Chromium (Cr)-Total		0.00016	0.00030	RPD-NA	mg/L	N/A	25	13-JUL-20
Cobalt (Co)-Total		0.0109	0.0100		mg/L	8.5	25	13-JUL-20
Copper (Cu)-Total		0.0227	0.0231		mg/L	1.7	25	13-JUL-20
Iron (Fe)-Total		2.55	2.53		mg/L	0.8	25	13-JUL-20
Lead (Pb)-Total		0.717	0.721		mg/L	0.5	25	13-JUL-20
Lithium (Li)-Total		0.0064	0.0064	RPD-NA	mg/L	N/A	25	13-JUL-20
Magnesium (Mg)-Total		15.5	15.4		mg/L	0.5	25	13-JUL-20
Manganese (Mn)-Total		1.53	1.45		mg/L	5.2	25	13-JUL-20
Molybdenum (Mo)-Total		0.00811	0.00836		mg/L	3.0	25	13-JUL-20
Nickel (Ni)-Total		0.00644	0.00646		mg/L	0.1	25	13-JUL-20
Phosphorus (P)-Total		0.084	0.042	RPD-NA	mg/L	N/A	25	13-JUL-20
Potassium (K)-Total		7.43	7.43		mg/L	0.0	25	13-JUL-20
Rubidium (Rb)-Total		0.00359	0.00316		mg/L	13	25	13-JUL-20
Selenium (Se)-Total		0.0310	0.0314		mg/L	1.3	25	13-JUL-20
Silicon (Si)-Total		6.27	6.29		mg/L	0.2	25	13-JUL-20
Silver (Ag)-Total		0.0000675	0.0000660	RPD-NA	mg/L	N/A	25	13-JUL-20
Sodium (Na)-Total		7.07	7.02		mg/L	0.7	25	13-JUL-20
Strontium (Sr)-Total		0.260	0.257		mg/L	1.0	25	13-JUL-20
Sulfur (S)-Total		42.3	42.0		mg/L	0.7	25	13-JUL-20
Tellurium (Te)-Total		0.000050	<0.000005	RPD-NA	mg/L	N/A	25	13-JUL-20
Thallium (Tl)-Total		0.000020	0.000014	RPD-NA	mg/L	N/A	25	13-JUL-20
Thorium (Th)-Total		0.000072	0.000076	RPD-NA	mg/L	N/A	25	13-JUL-20
Tin (Sn)-Total		0.00053	0.00042	RPD-NA	mg/L	N/A	25	13-JUL-20
Titanium (Ti)-Total		0.00090	0.00130	RPD-NA	mg/L	N/A	25	13-JUL-20
Tungsten (W)-Total		0.00107	0.000914	RPD-NA	mg/L	N/A	25	13-JUL-20
Uranium (U)-Total		0.0282	0.0284		mg/L	0.6	25	13-JUL-20
Vanadium (V)-Total		0.00012	0.00018		mg/L			13-JUL-20

Quality Control Report

Workorder: L2472458

Report Date: 31-JUL-20

Page 12 of 18

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-MS-WT		Effluent						
Batch	R5151279							
WG3360805-4	DUP	WG3360805-3						
Vanadium (V)-Total		0.00012	0.00018	RPD-NA	mg/L	N/A	25	13-JUL-20
Zinc (Zn)-Total		0.443	0.439		mg/L	0.8	25	13-JUL-20
Zirconium (Zr)-Total		0.000432	0.000456	RPD-NA	mg/L	N/A	25	13-JUL-20
WG3360805-1	MB							
Aluminum (Al)-Total			0.0020		mg/L		0.005	13-JUL-20
Antimony (Sb)-Total			0.000020		mg/L		0.0001	13-JUL-20
Arsenic (As)-Total			0.000010		mg/L		0.0001	13-JUL-20
Barium (Ba)-Total			<0.00002		mg/L		0.0001	13-JUL-20
Beryllium (Be)-Total			<0.000002		mg/L		0.0001	13-JUL-20
Bismuth (Bi)-Total			<0.000005		mg/L		0.00005	13-JUL-20
Boron (B)-Total			<0.002		mg/L		0.01	13-JUL-20
Cadmium (Cd)-Total			0.0000002		mg/L		0.000005	13-JUL-20
Calcium (Ca)-Total			0.010		mg/L		0.05	13-JUL-20
Cesium (Cs)-Total			<0.0000002		mg/L		0.00001	13-JUL-20
Chromium (Cr)-Total			<0.00002		mg/L		0.0005	13-JUL-20
Cobalt (Co)-Total			<0.000002		mg/L		0.0001	13-JUL-20
Copper (Cu)-Total			<0.00005		mg/L		0.0005	13-JUL-20
Iron (Fe)-Total			<0.001		mg/L		0.01	13-JUL-20
Lead (Pb)-Total			<0.00002		mg/L		0.00005	13-JUL-20
Lithium (Li)-Total			<0.0002		mg/L		0.001	13-JUL-20
Magnesium (Mg)-Total			0.0020		mg/L		0.005	13-JUL-20
Manganese (Mn)-Total			0.00002		mg/L		0.0005	13-JUL-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.00005	13-JUL-20
Nickel (Ni)-Total			0.00002		mg/L		0.0005	13-JUL-20
Phosphorus (P)-Total			0.006		mg/L		0.05	13-JUL-20
Potassium (K)-Total			<0.002		mg/L		0.05	13-JUL-20
Rubidium (Rb)-Total			0.000004		mg/L		0.0002	13-JUL-20
Selenium (Se)-Total			0.000004		mg/L		0.00005	13-JUL-20
Silicon (Si)-Total			0.018		mg/L		0.1	13-JUL-20
Silver (Ag)-Total			0.0000010		mg/L		0.00005	13-JUL-20
Sodium (Na)-Total			<0.005		mg/L		0.05	13-JUL-20
Strontium (Sr)-Total			0.00001		mg/L		0.001	13-JUL-20
Sulfur (S)-Total			<0.05		mg/L		0.5	13-JUL-20
Tellurium (Te)-Total			<0.000005				0.0002	

Quality Control Report

Workorder: L2472458

Report Date: 31-JUL-20

Page 13 of 18

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-MS-WT		Effluent						
Batch	R5151279							
WG3360805-1 MB								
Tellurium (Te)-Total			<0.000005		mg/L		0.0002	13-JUL-20
Thallium (Tl)-Total			<0.000001		mg/L		0.00001	13-JUL-20
Thorium (Th)-Total			0.000002		mg/L		0.0001	13-JUL-20
Tin (Sn)-Total			<0.00001		mg/L		0.0001	13-JUL-20
Titanium (Ti)-Total			<0.00002		mg/L		0.0003	13-JUL-20
Tungsten (W)-Total			<0.000002		mg/L		0.0001	13-JUL-20
Uranium (U)-Total			<0.0000005		mg/L		0.00001	13-JUL-20
Vanadium (V)-Total			0.00004		mg/L		0.0005	13-JUL-20
Zinc (Zn)-Total			0.0002		mg/L		0.003	13-JUL-20
Zirconium (Zr)-Total			<0.000004		mg/L		0.0002	13-JUL-20
NH3-F-WT		Effluent						
Batch	R5155599							
WG3361108-3 DUP		WG3361108-5						
Ammonia, Total (as N)		0.046	0.046		mg/L	0.0	25	15-JUL-20
WG3361523-3 DUP		WG3361523-5						
Ammonia, Total (as N)		0.066	0.058		mg/L	11	25	15-JUL-20
WG3361108-2 LCS			109.8		%		70-130	15-JUL-20
Ammonia, Total (as N)								
WG3361108-1 MB			0.010		mg/L		0.02	15-JUL-20
Ammonia, Total (as N)								
WG3361523-1 MB			0.004		mg/L		0.02	15-JUL-20
Ammonia, Total (as N)								
WG3361108-4 MS		WG3361108-5						
Ammonia, Total (as N)			107.0		%		70-130	15-JUL-20
WG3361523-4 MS		WG3361523-5						
Ammonia, Total (as N)			106.6		%		70-130	15-JUL-20
NO2-MISA-IC-TB		Effluent						
Batch	R5148636							
WG3360020-3 DUP		L2472458-4						
Nitrite (as N)		<0.001	<0.001	RPD-NA	mg/L	N/A	20	10-JUL-20
WG3360020-2 LCS			106.7		%		90-110	10-JUL-20
Nitrite (as N)								
WG3360020-1 MB			<0.001		mg/L		0.01	10-JUL-20
Nitrite (as N)								
WG3360020-4 MS		L2472458-8						
Nitrite (as N)			103.1		%		75-125	10-JUL-20

Quality Control Report

Workorder: L2472458

Report Date: 31-JUL-20

Page 14 of 18

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO3-MISA-IC-TB		Effluent						
Batch	R5148636							
WG3360020-3	DUP	L2472458-4						
Nitrate (as N)		0.010	0.006	RPD-NA	mg/L	N/A	20	10-JUL-20
WG3360020-2	LCS							
Nitrate (as N)			102.5		%		90-110	10-JUL-20
WG3360020-1	MB							
Nitrate (as N)			<0.002		mg/L		0.02	10-JUL-20
WG3360020-4	MS	L2472458-8						
Nitrate (as N)			94.5		%		75-125	10-JUL-20
OGG-TOT-WT		Effluent						
Batch	R5156137							
WG3364127-2	LCS							
Oil and Grease, Total			98.1		%		50-150	16-JUL-20
WG3364127-1	MB							
Oil and Grease, Total			0.6		mg/L		1	16-JUL-20
PH-MISA-TB		Effluent						
Batch	R5148736							
WG3359967-3	DUP	L2472445-1						
pH		8.51	8.51	J	pH	0.00	0.2	11-JUL-20
WG3359967-2	LCS							
pH			7.02		pH		6.9-7.1	11-JUL-20
SO4-MISA-IC-TB		Effluent						
Batch	R5148636							
WG3360020-3	DUP	L2472458-4						
Sulfate (SO4)		0.85	0.75		mg/L	13	20	10-JUL-20
WG3360020-2	LCS							
Sulfate (SO4)			101.2		%		90-110	10-JUL-20
WG3360020-1	MB							
Sulfate (SO4)			<0.05		mg/L		0.3	10-JUL-20
WG3360020-4	MS	L2472458-8						
Sulfate (SO4)			94.1		%		75-125	10-JUL-20
TDS-MISA-TB		Effluent						
Batch	R5152091							
WG3361192-2	LCS							
Total Dissolved Solids			99.5		%		85-115	13-JUL-20
WG3361192-1	MB							
Total Dissolved Solids			<2		mg/L		10	13-JUL-20

Quality Control Report

Workorder: L2472458

Report Date: 31-JUL-20

Page 15 of 18

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TDS-MISA-TB		Effluent						
Batch	R5153966							
WG3362146-3	DUP	L2472458-1						
Total Dissolved Solids		138	136		mg/L	2.2	20	14-JUL-20
WG3362146-2	LCS							
Total Dissolved Solids			97.9		%		85-115	14-JUL-20
WG3362146-1	MB							
Total Dissolved Solids			<2		mg/L		10	14-JUL-20
TKN-WT		Effluent						
Batch	R5153184							
WG3361419-3	DUP	WG3361419-5						
Total Kjeldahl Nitrogen		<0.05	<0.05	RPD-NA	mg/L	N/A	20	14-JUL-20
WG3361419-2	LCS							
Total Kjeldahl Nitrogen			88.0		%		75-125	14-JUL-20
WG3361419-1	MB							
Total Kjeldahl Nitrogen			<0.05		mg/L		0.18	14-JUL-20
WG3361419-4	MS	WG3361419-5						
Total Kjeldahl Nitrogen			109.0		%		70-130	14-JUL-20
Batch	R5154030							
WG3361106-3	DUP	WG3361106-5						
Total Kjeldahl Nitrogen		<0.05	0.05	RPD-NA	mg/L	N/A	20	15-JUL-20
WG3361106-2	LCS							
Total Kjeldahl Nitrogen			120.3		%		75-125	15-JUL-20
WG3361106-1	MB							
Total Kjeldahl Nitrogen			<0.05		mg/L		0.18	15-JUL-20
WG3361106-4	MS	WG3361106-5						
Total Kjeldahl Nitrogen			119.7		%		70-130	15-JUL-20
TSS-MISA-TB		Effluent						
Batch	R5151896							
WG3361207-2	LCS							
Total Suspended Solids			94.7		%		85-115	13-JUL-20
WG3361207-1	MB							
Total Suspended Solids			<0.5		mg/L		3	13-JUL-20
Batch	R5154544							
WG3363110-3	DUP	L2472458-7						
Total Suspended Solids		6.0	6.0		mg/L	3.3	20	15-JUL-20
WG3363110-2	LCS							
Total Suspended Solids			98.5		%		85-115	15-JUL-20
WG3363110-1	MB							

Quality Control Report

Workorder: L2472458

Report Date: 31-JUL-20

Page 16 of 18

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TSS-MISA-TB	Effluent							
Batch	R5154544							
WG3363110-1 MB								
Total Suspended Solids			<0.5		mg/L		3	15-JUL-20

Quality Control Report

Workorder: L2472458

Report Date: 31-JUL-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Page 17 of 18

Contact: Amanda Jacobs

Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
J	Duplicate results and limits are expressed in terms of absolute difference.
LCS-L	Lab Control Sample recovery was below ALS DQO. Reference Material and/or Matrix Spike results were acceptable. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L2472458

Report Date: 31-JUL-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Amanda Jacobs

Page 18 of 18

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Total Suspended Solids							
	1	07-JUL-20 13:00	15-JUL-20 15:45	7	8	days	EHT
	6	07-JUL-20 14:20	15-JUL-20 15:45	7	8	days	EHT
	7	07-JUL-20 13:20	15-JUL-20 15:45	7	8	days	EHT
	10	07-JUL-20 11:30	15-JUL-20 15:45	7	8	days	EHT
	11	07-JUL-20 12:35	15-JUL-20 15:45	7	8	days	EHT
	12	07-JUL-20 12:20	15-JUL-20 15:45	7	8	days	EHT

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2472458 were received on 10-JUL-20 10:10.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

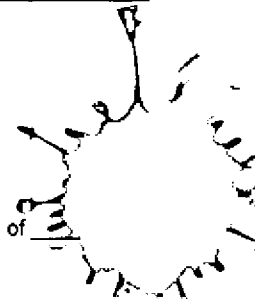
Canada Toll Free: 1 800 668 9878



L2472458-COFC

Number: 14 -

Page ____ of ____



Report To			Report Format / Distribution					Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)												
Company: New Gold Inc. Rainy River Project			Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel <input checked="" type="checkbox"/> EDD (Digital)					R <input checked="" type="checkbox"/> Regular (Standard TAT if received by 3pm - business days)												
Contact: Amanda Jacobs / Carolyn Winik			Quality Control (QC) Report with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					P <input type="checkbox"/> Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT												
Address: 24 Marr Rd.			<input type="checkbox"/> Criteria on Report - provide details below if box checked					E <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT												
City/Province: Barwick ON			Select Distribution: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail <input type="checkbox"/> Fax					E2 <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT												
Postal Code: POW 1A0			Email 1 or Fax: rainyriver.labresults@newgold.com					Date and Time Required for all E&P TATs:												
Phone: 807-482-0900 x8076 or x8046								For tests that cannot be performed according to the service level selected, you will be contacted.												
			Email 2 yag.inviron@newgold.com					Analysis Request												
Invoice To Same as Report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Invoice Distribution					Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below												
Copy of Invoice with Report? <input type="checkbox"/> Yes <input type="checkbox"/> No			Select Invoice Distribution: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail <input type="checkbox"/> Fax																	
Company:			Email 1 or Fax: rainyriver.labresults@newgold.com					NG-SW-P-TB Ra-226 Number of Containers												
Contact:			Email 2:																	
Project Information			Oil and Gas Required Fields (client use)																	
ALS Quote #:			Approver ID:		Cost Center:															
Job #: Surface Water			GL Account:		Routing Code:															
PO / AFE:			Activity Code:																	
LSD:			Location:																	
ALS Lab Work Order # (lab use only)			ALS Contact: Kyle Watkins		Sampler:															
Sample Ref (upload EDD)	Sample Identification and/or Coordinates (Description will appear on the report)	Temp	Field pH	Field DO (mg/L)	Date (dd-MMM-yy)	Time (hh:mm)	Sample Type													
130138	SW02	20.83	6.89	3.6	07-Jul-20	01:00	Water	X	.											
130139	SW03	23.46	7.64	344	07-Jul-20	10:10	Water	X	.											
130140	SW06				07-Jul-20	12:00	Water	X	.											
130141	SW10	22.09	7.18	3.15	07-Jul-20	10:45	Water	X	.											

g

Client: **New Gold**



L2472458-COFC

Sample Layout Verification:

Verified By: *[Signature]* Date: **2020 07 10** Time: **N/A**

Sample Integrity Issues
Enter information on back page

Labels Verification:

Verified By: _____

Do any samples require prep?


NO P **F/P** **DOC**

Sample #:

1L	Plastic																			
500mL	Plastic																			
250mL	Plastic																			
145mL	Plastic																			
60mL	Plastic																			
Micro																				
Toxicity Pail																				
1L	Glass																			
500mL	Glass																			
250mL	Glass																			
120mL	Glass																			
60mL	Glass																			
40mL	Vial (Glass)																			
40mL	Methanol Vials																			
Soil Jar (120, 250 or 500mL)																				
Other:																				
Other:																				
Total Number of Bottles																				

Trip/Travel/Field Blank Information			
Solids Batch#:	Metals Batch#:	T:	D:
Routine Batch#:	Mercury Batch#:	T:	D:
BOD Batch#:	Cyanide Batch#:	T:	D:
Nutrients Batch#:	OGG Batch#:		
DOC/Carbon Batch#:	Phenols Batch#:		
VOC Batch#:			
Other:			

COOLER TRACKING	
EPP	Coleman _____
Small	Micro (5QT) _____
Med	Sm(9QT) _____
Lrg	Med(16QT) _____
Micro Box	Lrg(28QT) _____
	Lrg(48QT) _____



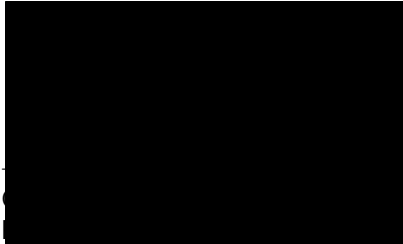
New Gold Inc. Rainy River Project
ATTN: Amanda Jacobs
24 Marr Rd
Barwick ON POW 1A0

Date Received: 14-JUL-20
Report Date: 31-JUL-20 22:00 (MT)
Version: FINAL

Client Phone: 807-482-0931

Certificate of Analysis

Lab Work Order #: L2473477
Project P.O. #: NOT SUBMITTED
Job Reference: SURFACE WATER
C of C Numbers:
Legal Site Desc:



[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3, Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598



ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2473477-1 FIELD BLANK - SUREFACE WATER Sampled By: NB, GC on 10-JUL-20 @ 10:05 Matrix: Water							
Physical Tests							
Color, True	<2.0		2.0	CU		14-JUL-20	R5153038
Conductivity (EC)	0.2	<DL	1.0	uS/cm		14-JUL-20	R5153577
Hardness (as CaCO3)	<0.51		0.51	mg/L		23-JUL-20	
pH	5.51		0.10	pH		14-JUL-20	R5153577
Total Suspended Solids	<0.5	<W	3.0	mg/L		15-JUL-20	R5154504
Total Dissolved Solids	<2	<W	10	mg/L		15-JUL-20	R5154601
Turbidity	<0.10		0.10	NTU		14-JUL-20	R5153039
Anions and Nutrients							
Acidity (as CaCO3)	0.4	<DL	2.0	mg/L		15-JUL-20	R5154315
Alkalinity, Total (as CaCO3)	0.6	<DL	2.0	mg/L		14-JUL-20	R5153577
Ammonia, Total (as N)	0.012	<DL	0.020	mg/L		20-JUL-20	R5159863
Chloride (Cl)	<0.10		0.10	mg/L	14-JUL-20	14-JUL-20	R5153675
Fluoride (F)	0.020		0.020	mg/L	14-JUL-20	14-JUL-20	R5153675
Nitrate (as N)	<0.002	<W	0.020	mg/L		14-JUL-20	R5153675
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-JUL-20	R5153675
Total Kjeldahl Nitrogen	<0.05	<W	0.18	mg/L	15-JUL-20	16-JUL-20	R5155093
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	14-JUL-20	14-JUL-20	R5154066
Sulfate (SO4)	<0.05	<W	0.30	mg/L		14-JUL-20	R5153675
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		15-JUL-20	R5154552
Cyanide, Total	0.0004	<DL	0.0020	mg/L		15-JUL-20	R5154552
Cyanide, Free	<0.0001	<W	0.0020	mg/L		15-JUL-20	R5154552
Organic / Inorganic Carbon							
Dissolved Organic Carbon	<0.50		0.50	mg/L	10-JUL-20	20-JUL-20	R5159480
Total Organic Carbon	<0.50		0.50	mg/L		21-JUL-20	R5160777
Total Metals							
Aluminum (Al)-Total	0.0004	<DL	0.0050	mg/L		22-JUL-20	R5163962
Antimony (Sb)-Total	<0.000005	<W	0.00060	mg/L		22-JUL-20	R5163962
Arsenic (As)-Total	<0.00001	<W	0.0010	mg/L		22-JUL-20	R5163962
Barium (Ba)-Total	0.00004	<DL	0.010	mg/L		22-JUL-20	R5163962
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		22-JUL-20	R5163962
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		22-JUL-20	R5163962
Boron (B)-Total	0.0010	<DL	0.050	mg/L		22-JUL-20	R5163962
Cadmium (Cd)-Total	<0.000001	<W	0.000017	mg/L		22-JUL-20	R5163962
Calcium (Ca)-Total	0.024	<DL	0.20	mg/L		22-JUL-20	R5163962
Cesium (Cs)-Total	<0.0000005	<W	0.000010	mg/L		22-JUL-20	R5163962
Chromium (Cr)-Total	0.00004	<DL	0.0010	mg/L		22-JUL-20	R5163962
Cobalt (Co)-Total	0.000135	<DL	0.00050	mg/L		22-JUL-20	R5163962
Copper (Cu)-Total	0.00004	<DL	0.0010	mg/L		22-JUL-20	R5163962
Iron (Fe)-Total	0.0020	<DL	0.020	mg/L		22-JUL-20	R5163962
Lead (Pb)-Total	<0.00001	<W	0.000050	mg/L		22-JUL-20	R5163962
Lithium (Li)-Total	<0.0002	<W	0.050	mg/L		22-JUL-20	R5163962

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2473477-1 FIELD BLANK - SUREFACE WATER							
Sampled By: NB, GC on 10-JUL-20 @ 10:05							
Matrix: Water							
Total Metals							
Magnesium (Mg)-Total	0.0016	<DL	0.020	mg/L		22-JUL-20	R5163962
Manganese (Mn)-Total	<0.0002	<W	0.0010	mg/L		22-JUL-20	R5163962
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		16-JUL-20	R5154623
Molybdenum (Mo)-Total	<0.000005	<W	0.0010	mg/L		22-JUL-20	R5163962
Nickel (Ni)-Total	<0.00002	<W	0.0020	mg/L		22-JUL-20	R5163962
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		22-JUL-20	R5163962
Potassium (K)-Total	<0.01	<W	0.50	mg/L		22-JUL-20	R5163962
Rubidium (Rb)-Total	<0.000002	<W	0.00020	mg/L		22-JUL-20	R5163962
Selenium (Se)-Total	<0.000005	<W	0.000050	mg/L		22-JUL-20	R5163962
Silicon (Si)-Total	0.014	<DL	0.10	mg/L		22-JUL-20	R5163962
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		22-JUL-20	R5163962
Sodium (Na)-Total	0.035	<DL	0.10	mg/L		22-JUL-20	R5163962
Strontium (Sr)-Total	0.000040	<DL	0.0010	mg/L		22-JUL-20	R5163962
Sulfur (S)-Total	<0.2	<W	0.50	mg/L		22-JUL-20	R5163962
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		22-JUL-20	R5163962
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		22-JUL-20	R5163962
Thorium (Th)-Total	<0.00001	<W	0.00010	mg/L		22-JUL-20	R5163962
Tin (Sn)-Total	0.00008	<DL	0.0010	mg/L		22-JUL-20	R5163962
Titanium (Ti)-Total	0.00003	<DL	0.0020	mg/L		22-JUL-20	R5163962
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		22-JUL-20	R5163962
Uranium (U)-Total	<0.0000005	<W	0.0050	mg/L		22-JUL-20	R5163962
Vanadium (V)-Total	<0.00005	<W	0.0010	mg/L		22-JUL-20	R5163962
Zinc (Zn)-Total	0.0005	<DL	0.0030	mg/L		22-JUL-20	R5163962
Zirconium (Zr)-Total	0.000002	<DL	0.0010	mg/L		22-JUL-20	R5163962
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					15-JUL-20	R5153991
Aluminum (Al)-Dissolved	<0.0002	<W	0.0050	mg/L		20-JUL-20	R5159728
Antimony (Sb)-Dissolved	0.000020	<DL	0.00060	mg/L		20-JUL-20	R5159728
Arsenic (As)-Dissolved	<0.0000002	<W	0.0010	mg/L		20-JUL-20	R5159728
Barium (Ba)-Dissolved	0.000035	<DL	0.010	mg/L		20-JUL-20	R5159728
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		20-JUL-20	R5159728
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		20-JUL-20	R5159728
Boron (B)-Dissolved	0.0015	<DL	0.050	mg/L		20-JUL-20	R5159728
Cadmium (Cd)-Dissolved	0.0000040	<DL	0.000017	mg/L		20-JUL-20	R5159728
Calcium (Ca)-Dissolved	0.020	<DL	0.20	mg/L		20-JUL-20	R5159728
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		20-JUL-20	R5159728
Chromium (Cr)-Dissolved	0.00001	<DL	0.0010	mg/L		20-JUL-20	R5159728
Cobalt (Co)-Dissolved	<0.000002	<W	0.00050	mg/L		20-JUL-20	R5159728
Copper (Cu)-Dissolved	0.00006	<DL	0.0010	mg/L		20-JUL-20	R5159728
Iron (Fe)-Dissolved	<0.0005	<W	0.020	mg/L		20-JUL-20	R5159728
Lead (Pb)-Dissolved	<0.00001	<W	0.000050	mg/L		20-JUL-20	R5159728

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2473477-1 FIELD BLANK - SUREFACE WATER Sampled By: NB, GC on 10-JUL-20 @ 10:05 Matrix: Water							
Dissolved Metals							
Lithium (Li)-Dissolved	<0.0002	<W	0.050	mg/L		20-JUL-20	R5159728
Magnesium (Mg)-Dissolved	0.0015	<DL	0.020	mg/L		20-JUL-20	R5159728
Manganese (Mn)-Dissolved	<0.00002	<W	0.0010	mg/L		20-JUL-20	R5159728
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		16-JUL-20	R5154625
Molybdenum (Mo)-Dissolved	<0.000002	<W	0.0010	mg/L		20-JUL-20	R5159728
Nickel (Ni)-Dissolved	<0.00002	<W	0.0020	mg/L		20-JUL-20	R5159728
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		20-JUL-20	R5159728
Potassium (K)-Dissolved	<0.01	<W	0.50	mg/L		20-JUL-20	R5159728
Rubidium (Rb)-Dissolved	0.000002	<DL	0.00020	mg/L		20-JUL-20	R5159728
Selenium (Se)-Dissolved	0.000015	<DL	0.000050	mg/L		20-JUL-20	R5159728
Silicon (Si)-Dissolved	0.010	<DL	0.050	mg/L		20-JUL-20	R5159728
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		20-JUL-20	R5159728
Sodium (Na)-Dissolved	0.025	<DL	0.10	mg/L		20-JUL-20	R5159728
Strontium (Sr)-Dissolved	0.00004	<DL	0.0010	mg/L		20-JUL-20	R5159728
Sulfur (S)-Dissolved	<0.2	<W	0.50	mg/L		20-JUL-20	R5159728
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		20-JUL-20	R5159728
Thallium (Tl)-Dissolved	0.000008	<DL	0.00030	mg/L		20-JUL-20	R5159728
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		20-JUL-20	R5159728
Tin (Sn)-Dissolved	0.000145	<DL	0.0010	mg/L		20-JUL-20	R5159728
Titanium (Ti)-Dissolved	<0.00002	<W	0.0020	mg/L		20-JUL-20	R5159728
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		20-JUL-20	R5159728
Uranium (U)-Dissolved	<0.0000005	<W	0.0050	mg/L		20-JUL-20	R5159728
Vanadium (V)-Dissolved	<0.00002	<W	0.0010	mg/L		20-JUL-20	R5159728
Zinc (Zn)-Dissolved	<0.0002	<W	0.0030	mg/L		20-JUL-20	R5159728
Zirconium (Zr)-Dissolved	<0.000002	<W	0.0010	mg/L		20-JUL-20	R5159728
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-JUL-20	R5157812
Chemical Oxygen Demand	<20		20	mg/L	14-JUL-20	16-JUL-20	R5154928
Oil and Grease, Total	0.2	<DL	1.0	mg/L	20-JUL-20	20-JUL-20	R5159679
L2473477-2 TRAVEL BLANK - SUREFACE WATER Sampled By: NB, GC on 10-JUL-20 @ 12:00 Matrix: Water							
Physical Tests							
Color, True	<2.0		2.0	CU		14-JUL-20	R5153038
Conductivity (EC)	0.4	<DL	1.0	uS/cm		14-JUL-20	R5153577
Hardness (as CaCO3)	<0.51		0.51	mg/L		21-JUL-20	
pH	5.50		0.10	pH		14-JUL-20	R5153577
Total Suspended Solids	<0.5	<W	3.0	mg/L		15-JUL-20	R5154504
Total Dissolved Solids	<2	<W	10	mg/L		15-JUL-20	R5154601
Turbidity	<0.10		0.10	NTU		14-JUL-20	R5153039
Anions and Nutrients							
Acidity (as CaCO3)	0.4	<DL	2.0	mg/L		15-JUL-20	R5154315

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2473477-2 TRAVEL BLANK - SUREFACE WATER Sampled By: NB, GC on 10-JUL-20 @ 12:00 Matrix: Water							
Anions and Nutrients							
Alkalinity, Total (as CaCO3)	0.2	<DL	2.0	mg/L		14-JUL-20	R5153577
Ammonia, Total (as N)	0.024	<T	0.020	mg/L		20-JUL-20	R5159863
Chloride (Cl)	<0.10		0.10	mg/L	14-JUL-20	14-JUL-20	R5153675
Fluoride (F)	<0.020		0.020	mg/L	14-JUL-20	14-JUL-20	R5153675
Nitrate (as N)	<0.002	<W	0.020	mg/L		14-JUL-20	R5153675
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-JUL-20	R5153675
Total Kjeldahl Nitrogen	<0.05	<W	0.18	mg/L	15-JUL-20	16-JUL-20	R5155093
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	14-JUL-20	14-JUL-20	R5154066
Sulfate (SO4)	<0.05	<W	0.30	mg/L		14-JUL-20	R5153675
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		15-JUL-20	R5154552
Cyanide, Total	<0.0002	<W	0.0020	mg/L		15-JUL-20	R5154552
Cyanide, Free	0.0002	<DL	0.0020	mg/L		15-JUL-20	R5154552
Organic / Inorganic Carbon							
Dissolved Organic Carbon	<0.50		0.50	mg/L	10-JUL-20	20-JUL-20	R5159480
Total Organic Carbon	1.03	RRV	0.50	mg/L		21-JUL-20	R5160777
Total Metals							
Aluminum (Al)-Total	0.0006	<DL	0.0050	mg/L		15-JUL-20	R5154410
Antimony (Sb)-Total	<0.000005	<W	0.00060	mg/L		15-JUL-20	R5154410
Arsenic (As)-Total	<0.00001	<W	0.0010	mg/L		15-JUL-20	R5154410
Barium (Ba)-Total	<0.00001	<W	0.010	mg/L		15-JUL-20	R5154410
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		15-JUL-20	R5154410
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		15-JUL-20	R5154410
Boron (B)-Total	<0.0005	<W	0.050	mg/L		15-JUL-20	R5154410
Cadmium (Cd)-Total	<0.000001	<W	0.000017	mg/L		15-JUL-20	R5154410
Calcium (Ca)-Total	<0.002	<W	0.20	mg/L		15-JUL-20	R5154410
Cesium (Cs)-Total	<0.0000005	<W	0.000010	mg/L		15-JUL-20	R5154410
Chromium (Cr)-Total	0.00010	<DL	0.0010	mg/L		15-JUL-20	R5154410
Cobalt (Co)-Total	<0.000005	<W	0.00050	mg/L		15-JUL-20	R5154410
Copper (Cu)-Total	<0.00002	<W	0.0010	mg/L		15-JUL-20	R5154410
Iron (Fe)-Total	0.0030	<DL	0.020	mg/L		15-JUL-20	R5154410
Lead (Pb)-Total	<0.00001	<W	0.000050	mg/L		15-JUL-20	R5154410
Lithium (Li)-Total	<0.0002	<W	0.050	mg/L		15-JUL-20	R5154410
Magnesium (Mg)-Total	<0.0002	<W	0.020	mg/L		15-JUL-20	R5154410
Manganese (Mn)-Total	<0.0002	<W	0.0010	mg/L		15-JUL-20	R5154410
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		16-JUL-20	R5154623
Molybdenum (Mo)-Total	<0.000005	<W	0.0010	mg/L		15-JUL-20	R5154410
Nickel (Ni)-Total	<0.00002	<W	0.0020	mg/L		15-JUL-20	R5154410
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		15-JUL-20	R5154410
Potassium (K)-Total	<0.01	<W	0.50	mg/L		15-JUL-20	R5154410
Rubidium (Rb)-Total	<0.000002	<W	0.00020	mg/L		15-JUL-20	R5154410
Selenium (Se)-Total	<0.000005	<W	0.000050	mg/L		15-JUL-20	R5154410

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2473477-2 TRAVEL BLANK - SUREFACE WATER Sampled By: NB, GC on 10-JUL-20 @ 12:00 Matrix: Water							
Total Metals							
Silicon (Si)-Total	0.006	<DL	0.10	mg/L		15-JUL-20	R5154410
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		15-JUL-20	R5154410
Sodium (Na)-Total	<0.005	<W	0.10	mg/L		15-JUL-20	R5154410
Strontium (Sr)-Total	<0.000005	<W	0.0010	mg/L		15-JUL-20	R5154410
Sulfur (S)-Total	<0.2	<W	0.50	mg/L		15-JUL-20	R5154410
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		15-JUL-20	R5154410
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		15-JUL-20	R5154410
Thorium (Th)-Total	<0.00001	<W	0.00010	mg/L		15-JUL-20	R5154410
Tin (Sn)-Total	<0.00001	<W	0.0010	mg/L		15-JUL-20	R5154410
Titanium (Ti)-Total	<0.00001	<W	0.0020	mg/L		15-JUL-20	R5154410
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		15-JUL-20	R5154410
Uranium (U)-Total	<0.0000005	<W	0.0050	mg/L		15-JUL-20	R5154410
Vanadium (V)-Total	<0.00005	<W	0.0010	mg/L		15-JUL-20	R5154410
Zinc (Zn)-Total	0.0010	<DL	0.0030	mg/L		15-JUL-20	R5154410
Zirconium (Zr)-Total	<0.000002	<W	0.0010	mg/L		15-JUL-20	R5154410
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					15-JUL-20	R5153991
Aluminum (Al)-Dissolved	<0.0002	<W	0.0050	mg/L		20-JUL-20	R5159728
Antimony (Sb)-Dissolved	<0.000005	<W	0.00060	mg/L		20-JUL-20	R5159728
Arsenic (As)-Dissolved	0.0000010	<DL	0.0010	mg/L		20-JUL-20	R5159728
Barium (Ba)-Dissolved	<0.000005	<W	0.010	mg/L		20-JUL-20	R5159728
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		20-JUL-20	R5159728
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		20-JUL-20	R5159728
Boron (B)-Dissolved	0.0005	<DL	0.050	mg/L		20-JUL-20	R5159728
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		20-JUL-20	R5159728
Calcium (Ca)-Dissolved	<0.002	<W	0.20	mg/L		20-JUL-20	R5159728
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		20-JUL-20	R5159728
Chromium (Cr)-Dissolved	0.00006	<DL	0.0010	mg/L		20-JUL-20	R5159728
Cobalt (Co)-Dissolved	<0.000002	<W	0.00050	mg/L		20-JUL-20	R5159728
Copper (Cu)-Dissolved	<0.00002	<W	0.0010	mg/L		20-JUL-20	R5159728
Iron (Fe)-Dissolved	<0.0005	<W	0.020	mg/L		20-JUL-20	R5159728
Lead (Pb)-Dissolved	<0.00001	<W	0.000050	mg/L		20-JUL-20	R5159728
Lithium (Li)-Dissolved	<0.0002	<W	0.050	mg/L		20-JUL-20	R5159728
Magnesium (Mg)-Dissolved	<0.0005	<W	0.020	mg/L		20-JUL-20	R5159728
Manganese (Mn)-Dissolved	<0.00002	<W	0.0010	mg/L		20-JUL-20	R5159728
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		16-JUL-20	R5154625
Molybdenum (Mo)-Dissolved	<0.000002	<W	0.0010	mg/L		20-JUL-20	R5159728
Nickel (Ni)-Dissolved	<0.00002	<W	0.0020	mg/L		20-JUL-20	R5159728
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		20-JUL-20	R5159728
Potassium (K)-Dissolved	<0.01	<W	0.50	mg/L		20-JUL-20	R5159728
Rubidium (Rb)-Dissolved	<0.000002	<W	0.00020	mg/L		20-JUL-20	R5159728

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2473477-2 TRAVEL BLANK - SUREFACE WATER Sampled By: NB, GC on 10-JUL-20 @ 12:00 Matrix: Water							
Dissolved Metals							
Selenium (Se)-Dissolved	<0.000005	<W	0.000050	mg/L		20-JUL-20	R5159728
Silicon (Si)-Dissolved	<0.005	<W	0.050	mg/L		20-JUL-20	R5159728
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		20-JUL-20	R5159728
Sodium (Na)-Dissolved	<0.005	<W	0.10	mg/L		20-JUL-20	R5159728
Strontium (Sr)-Dissolved	<0.00002	<W	0.0010	mg/L		20-JUL-20	R5159728
Sulfur (S)-Dissolved	<0.2	<W	0.50	mg/L		20-JUL-20	R5159728
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		20-JUL-20	R5159728
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		20-JUL-20	R5159728
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		20-JUL-20	R5159728
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		20-JUL-20	R5159728
Titanium (Ti)-Dissolved	<0.00002	<W	0.0020	mg/L		20-JUL-20	R5159728
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		20-JUL-20	R5159728
Uranium (U)-Dissolved	<0.0000005	<W	0.0050	mg/L		20-JUL-20	R5159728
Vanadium (V)-Dissolved	<0.00002	<W	0.0010	mg/L		20-JUL-20	R5159728
Zinc (Zn)-Dissolved	<0.0002	<W	0.0030	mg/L		20-JUL-20	R5159728
Zirconium (Zr)-Dissolved	<0.000002	<W	0.0010	mg/L		20-JUL-20	R5159728
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-JUL-20	R5157812
Chemical Oxygen Demand	<20		20	mg/L	14-JUL-20	16-JUL-20	R5154928
Oil and Grease, Total	<0.2	<W	1.0	mg/L	20-JUL-20	20-JUL-20	R5159679
L2473477-3 SW27 Sampled By: NB, GC on 10-JUL-20 @ 10:40 Matrix: Water							
Field Tests							
pH, Client Supplied	7.35		0.10	pH		17-JUL-20	R5156391
Temperature, Client	20.5		-50	Deg. C		17-JUL-20	R5156391
Physical Tests							
Color, True	48.7		2.0	CU		14-JUL-20	R5153038
Conductivity (EC)	411		1.0	uS/cm		14-JUL-20	R5153577
Hardness (as CaCO3)	202		0.51	mg/L		21-JUL-20	
pH	7.71		0.10	pH		14-JUL-20	R5153577
Total Suspended Solids	2.5	<DL	3.0	mg/L		15-JUL-20	R5154504
Total Dissolved Solids	264		20	mg/L		15-JUL-20	R5154601
Turbidity	3.16		0.10	NTU		14-JUL-20	R5153039
Anions and Nutrients							
Acidity (as CaCO3)	2.0		2.0	mg/L		15-JUL-20	R5154315
Alkalinity, Total (as CaCO3)	159		2.0	mg/L		14-JUL-20	R5153577
Unionized ammonia	0.00048		0.00022	mg/L		21-JUL-20	
Ammonia, Total (as N)	0.044	<T	0.020	mg/L		20-JUL-20	R5159863
Chloride (Cl)	23.2		0.10	mg/L	14-JUL-20	14-JUL-20	R5153675
Fluoride (F)	0.135		0.020	mg/L	14-JUL-20	14-JUL-20	R5153675
Nitrate (as N)	0.012	<DL	0.020	mg/L		14-JUL-20	R5153675

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2473477-3 SW27							
Sampled By: NB, GC on 10-JUL-20 @ 10:40							
Matrix: Water							
Anions and Nutrients							
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-JUL-20	R5153675
Total Kjeldahl Nitrogen	0.80		0.18	mg/L	15-JUL-20	16-JUL-20	R5155093
Orthophosphate-Dissolved (as P)	0.0138		0.0030	mg/L	14-JUL-20	14-JUL-20	R5154066
Sulfate (SO4)	48.9		0.30	mg/L		14-JUL-20	R5153675
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		15-JUL-20	R5154552
Cyanide, Total	0.0008	<DL	0.0020	mg/L		15-JUL-20	R5154552
Cyanide, Free	0.0004	<DL	0.0020	mg/L		15-JUL-20	R5154552
Organic / Inorganic Carbon							
Dissolved Organic Carbon	16.8	DLM	5.0	mg/L	14-JUL-20	21-JUL-20	R5160757
Total Organic Carbon	23.6	DLM	5.0	mg/L		21-JUL-20	R5160777
Total Metals							
Aluminum (Al)-Total	0.110		0.0050	mg/L		20-JUL-20	R5159695
Antimony (Sb)-Total	0.000200	<DL	0.00060	mg/L		20-JUL-20	R5159695
Arsenic (As)-Total	0.00167	<T	0.0010	mg/L		20-JUL-20	R5159695
Barium (Ba)-Total	0.0237		0.010	mg/L		20-JUL-20	R5159695
Beryllium (Be)-Total	0.0000055	<DL	0.0010	mg/L		20-JUL-20	R5159695
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		20-JUL-20	R5159695
Boron (B)-Total	0.0250	<DL	0.050	mg/L		20-JUL-20	R5159695
Cadmium (Cd)-Total	0.000007	<DL	0.000017	mg/L		20-JUL-20	R5159695
Calcium (Ca)-Total	53.2		0.20	mg/L		20-JUL-20	R5159695
Cesium (Cs)-Total	0.0000135		0.000010	mg/L		20-JUL-20	R5159695
Chromium (Cr)-Total	0.00030	<DL	0.0010	mg/L		20-JUL-20	R5159695
Cobalt (Co)-Total	0.000205	<DL	0.00050	mg/L		20-JUL-20	R5159695
Copper (Cu)-Total	0.00174	<T	0.0010	mg/L		20-JUL-20	R5159695
Iron (Fe)-Total	0.271		0.020	mg/L		20-JUL-20	R5159695
Lead (Pb)-Total	0.00011	<T	0.000050	mg/L		20-JUL-20	R5159695
Lithium (Li)-Total	0.0090	<DL	0.050	mg/L		20-JUL-20	R5159695
Magnesium (Mg)-Total	20.3		0.020	mg/L		20-JUL-20	R5159695
Manganese (Mn)-Total	0.106		0.0010	mg/L		20-JUL-20	R5159695
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		16-JUL-20	R5154623
Molybdenum (Mo)-Total	0.00153	<T	0.0010	mg/L		20-JUL-20	R5159695
Nickel (Ni)-Total	0.00150	<DL	0.0020	mg/L		20-JUL-20	R5159695
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		20-JUL-20	R5159695
Potassium (K)-Total	2.61		0.50	mg/L		20-JUL-20	R5159695
Rubidium (Rb)-Total	0.00207		0.00020	mg/L		20-JUL-20	R5159695
Selenium (Se)-Total	0.000170	<T	0.000050	mg/L		20-JUL-20	R5159695
Silicon (Si)-Total	3.40		0.10	mg/L		20-JUL-20	R5159695
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		20-JUL-20	R5159695
Sodium (Na)-Total	8.53		0.10	mg/L		20-JUL-20	R5159695
Strontium (Sr)-Total	0.157		0.0010	mg/L		20-JUL-20	R5159695
Sulfur (S)-Total	15.2		0.50	mg/L		20-JUL-20	R5159695

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2473477-3 SW27							
Sampled By: NB, GC on 10-JUL-20 @ 10:40							
Matrix: Water							
Total Metals							
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		20-JUL-20	R5159695
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		20-JUL-20	R5159695
Thorium (Th)-Total	0.00002	<DL	0.00010	mg/L		20-JUL-20	R5159695
Tin (Sn)-Total	0.00015	<DL	0.0010	mg/L		20-JUL-20	R5159695
Titanium (Ti)-Total	0.00361		0.0020	mg/L		20-JUL-20	R5159695
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		20-JUL-20	R5159695
Uranium (U)-Total	0.00120	<DL	0.0050	mg/L		20-JUL-20	R5159695
Vanadium (V)-Total	0.00110	<T	0.0010	mg/L		20-JUL-20	R5159695
Zinc (Zn)-Total	0.0035	<T	0.0030	mg/L		20-JUL-20	R5159695
Zirconium (Zr)-Total	0.000208	<DL	0.0010	mg/L		20-JUL-20	R5159695
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					15-JUL-20	R5153991
Aluminum (Al)-Dissolved	0.0118	<T	0.0050	mg/L		20-JUL-20	R5159728
Antimony (Sb)-Dissolved	0.000195	<DL	0.00060	mg/L		20-JUL-20	R5159728
Arsenic (As)-Dissolved	0.00153	<T	0.0010	mg/L		20-JUL-20	R5159728
Barium (Ba)-Dissolved	0.0228		0.010	mg/L		20-JUL-20	R5159728
Beryllium (Be)-Dissolved	0.000004	<DL	0.0010	mg/L		20-JUL-20	R5159728
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		20-JUL-20	R5159728
Boron (B)-Dissolved	0.0280	<DL	0.050	mg/L		20-JUL-20	R5159728
Cadmium (Cd)-Dissolved	0.0000070	<DL	0.000017	mg/L		20-JUL-20	R5159728
Calcium (Ca)-Dissolved	49.5		0.20	mg/L		20-JUL-20	R5159728
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		20-JUL-20	R5159728
Chromium (Cr)-Dissolved	0.00014	<DL	0.0010	mg/L		20-JUL-20	R5159728
Cobalt (Co)-Dissolved	0.000150	<DL	0.00050	mg/L		20-JUL-20	R5159728
Copper (Cu)-Dissolved	0.00146	<T	0.0010	mg/L		20-JUL-20	R5159728
Iron (Fe)-Dissolved	0.109		0.020	mg/L		20-JUL-20	R5159728
Lead (Pb)-Dissolved	0.00004	<DL	0.000050	mg/L		20-JUL-20	R5159728
Lithium (Li)-Dissolved	0.0100	<DL	0.050	mg/L		20-JUL-20	R5159728
Magnesium (Mg)-Dissolved	19.1		0.020	mg/L		20-JUL-20	R5159728
Manganese (Mn)-Dissolved	0.0870		0.0010	mg/L		20-JUL-20	R5159728
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		16-JUL-20	R5154625
Molybdenum (Mo)-Dissolved	0.00149	<T	0.0010	mg/L		20-JUL-20	R5159728
Nickel (Ni)-Dissolved	0.00130	<DL	0.0020	mg/L		20-JUL-20	R5159728
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		20-JUL-20	R5159728
Potassium (K)-Dissolved	2.53		0.50	mg/L		20-JUL-20	R5159728
Rubidium (Rb)-Dissolved	0.00186		0.00020	mg/L		20-JUL-20	R5159728
Selenium (Se)-Dissolved	0.000185	<T	0.000050	mg/L		20-JUL-20	R5159728
Silicon (Si)-Dissolved	3.09		0.050	mg/L		20-JUL-20	R5159728
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		20-JUL-20	R5159728
Sodium (Na)-Dissolved	8.49		0.10	mg/L		20-JUL-20	R5159728
Strontium (Sr)-Dissolved	0.147		0.0010	mg/L		20-JUL-20	R5159728

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2473477-3 SW27 Sampled By: NB, GC on 10-JUL-20 @ 10:40 Matrix: Water							
Dissolved Metals							
Sulfur (S)-Dissolved	14.8		0.50	mg/L		20-JUL-20	R5159728
Tellurium (Te)-Dissolved	0.00001	<DL	0.0010	mg/L		20-JUL-20	R5159728
Thallium (Tl)-Dissolved	0.000002	<DL	0.00030	mg/L		20-JUL-20	R5159728
Thorium (Th)-Dissolved	0.00002	<DL	0.00010	mg/L		20-JUL-20	R5159728
Tin (Sn)-Dissolved	0.000235	<DL	0.0010	mg/L		20-JUL-20	R5159728
Titanium (Ti)-Dissolved	0.00136	<DL	0.0020	mg/L		20-JUL-20	R5159728
Tungsten (W)-Dissolved	0.000002	<DL	0.010	mg/L		20-JUL-20	R5159728
Uranium (U)-Dissolved	0.00112	<DL	0.0050	mg/L		20-JUL-20	R5159728
Vanadium (V)-Dissolved	0.00094	<DL	0.0010	mg/L		20-JUL-20	R5159728
Zinc (Zn)-Dissolved	0.0026	<DL	0.0030	mg/L		20-JUL-20	R5159728
Zirconium (Zr)-Dissolved	0.000314	<DL	0.0010	mg/L		20-JUL-20	R5159728
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-JUL-20	R5157812
Chemical Oxygen Demand	44		20	mg/L	14-JUL-20	16-JUL-20	R5154928
Oil and Grease, Total	0.6	<DL	1.0	mg/L	20-JUL-20	20-JUL-20	R5159679
L2473477-4 SW22A Sampled By: NB, GC on 10-JUL-20 @ 11:00 Matrix: Water							
Field Tests							
pH, Client Supplied	7.34		0.10	pH		17-JUL-20	R5156391
Temperature, Client	20.3		-50	Deg. C		17-JUL-20	R5156391
Physical Tests							
Color, True	81.4		2.0	CU		14-JUL-20	R5153038
Conductivity (EC)	404		1.0	uS/cm		14-JUL-20	R5153577
Hardness (as CaCO3)	210		0.51	mg/L		21-JUL-20	
pH	7.71		0.10	pH		14-JUL-20	R5153577
Total Suspended Solids	3.0		3.0	mg/L		15-JUL-20	R5154504
Total Dissolved Solids	258		20	mg/L		15-JUL-20	R5154601
Turbidity	2.85		0.10	NTU		14-JUL-20	R5153039
Anions and Nutrients							
Acidity (as CaCO3)	2.2		2.0	mg/L		15-JUL-20	R5154315
Alkalinity, Total (as CaCO3)	184		2.0	mg/L		14-JUL-20	R5153577
Unionized ammonia	0.00103		0.00021	mg/L		21-JUL-20	
Ammonia, Total (as N)	0.096	<T	0.020	mg/L		20-JUL-20	R5159863
Chloride (Cl)	11.6		0.10	mg/L	14-JUL-20	14-JUL-20	R5153675
Fluoride (F)	0.120		0.020	mg/L	14-JUL-20	14-JUL-20	R5153675
Nitrate (as N)	0.006	<DL	0.020	mg/L		14-JUL-20	R5153675
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-JUL-20	R5153675
Total Kjeldahl Nitrogen	1.10		0.18	mg/L	15-JUL-20	16-JUL-20	R5155093
Orthophosphate-Dissolved (as P)	0.0292		0.0030	mg/L	14-JUL-20	14-JUL-20	R5154066
Sulfate (SO4)	35.5		0.30	mg/L		14-JUL-20	R5153675
Cyanides							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2473477-4 SW22A							
Sampled By: NB, GC on 10-JUL-20 @ 11:00							
Matrix: Water							
Cyanides							
Cyanide, Weak Acid Diss	0.0006	<DL	0.0020	mg/L		15-JUL-20	R5154552
Cyanide, Total	0.0008	<DL	0.0020	mg/L		15-JUL-20	R5154552
Cyanide, Free	0.0006	<DL	0.0020	mg/L		15-JUL-20	R5154552
Organic / Inorganic Carbon							
Dissolved Organic Carbon	29.6	DLM	5.0	mg/L	14-JUL-20	21-JUL-20	R5160757
Total Organic Carbon	32.5	DLM	5.0	mg/L		21-JUL-20	R5160777
Total Metals							
Aluminum (Al)-Total	0.133		0.0050	mg/L		15-JUL-20	R5154410
Antimony (Sb)-Total	0.000150	<DL	0.00060	mg/L		15-JUL-20	R5154410
Arsenic (As)-Total	0.00212	<T	0.0010	mg/L		15-JUL-20	R5154410
Barium (Ba)-Total	0.0226		0.010	mg/L		15-JUL-20	R5154410
Beryllium (Be)-Total	0.0000196	<DL	0.0010	mg/L		15-JUL-20	R5154410
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		15-JUL-20	R5154410
Boron (B)-Total	0.0265	<DL	0.050	mg/L		15-JUL-20	R5154410
Cadmium (Cd)-Total	0.000010	<DL	0.000017	mg/L		15-JUL-20	R5154410
Calcium (Ca)-Total	47.0		0.20	mg/L		15-JUL-20	R5154410
Cesium (Cs)-Total	0.0000190		0.000010	mg/L		15-JUL-20	R5154410
Chromium (Cr)-Total	0.00038	<DL	0.0010	mg/L		15-JUL-20	R5154410
Cobalt (Co)-Total	0.000235	<DL	0.00050	mg/L		15-JUL-20	R5154410
Copper (Cu)-Total	0.00080	<DL	0.0010	mg/L		15-JUL-20	R5154410
Iron (Fe)-Total	0.303		0.020	mg/L		15-JUL-20	R5154410
Lead (Pb)-Total	0.00009	<T	0.000050	mg/L		15-JUL-20	R5154410
Lithium (Li)-Total	0.0076	<DL	0.050	mg/L		15-JUL-20	R5154410
Magnesium (Mg)-Total	21.6		0.020	mg/L		15-JUL-20	R5154410
Manganese (Mn)-Total	0.0376		0.0010	mg/L		15-JUL-20	R5154410
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		16-JUL-20	R5154623
Molybdenum (Mo)-Total	0.00123	<T	0.0010	mg/L		15-JUL-20	R5154410
Nickel (Ni)-Total	0.00158	<DL	0.0020	mg/L		15-JUL-20	R5154410
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		15-JUL-20	R5154410
Potassium (K)-Total	1.87		0.50	mg/L		15-JUL-20	R5154410
Rubidium (Rb)-Total	0.00247		0.00020	mg/L		15-JUL-20	R5154410
Selenium (Se)-Total	0.000245	<T	0.000050	mg/L		15-JUL-20	R5154410
Silicon (Si)-Total	4.44		0.10	mg/L		15-JUL-20	R5154410
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		15-JUL-20	R5154410
Sodium (Na)-Total	7.89		0.10	mg/L		15-JUL-20	R5154410
Strontium (Sr)-Total	0.143		0.0010	mg/L		15-JUL-20	R5154410
Sulfur (S)-Total	10.0		0.50	mg/L		15-JUL-20	R5154410
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		15-JUL-20	R5154410
Thallium (Tl)-Total	<0.000005	<W	0.000030	mg/L		15-JUL-20	R5154410
Thorium (Th)-Total	0.00003	<DL	0.00010	mg/L		15-JUL-20	R5154410
Tin (Sn)-Total	0.00019	<DL	0.0010	mg/L		15-JUL-20	R5154410

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2473477-4 SW22A							
Sampled By: NB, GC on 10-JUL-20 @ 11:00							
Matrix: Water							
Total Metals							
Titanium (Ti)-Total	0.00501		0.0020	mg/L		15-JUL-20	R5154410
Tungsten (W)-Total	0.00001	<DL	0.010	mg/L		15-JUL-20	R5154410
Uranium (U)-Total	0.000548	<DL	0.0050	mg/L		15-JUL-20	R5154410
Vanadium (V)-Total	0.00100	<T	0.0010	mg/L		15-JUL-20	R5154410
Zinc (Zn)-Total	0.0015	<DL	0.0030	mg/L		15-JUL-20	R5154410
Zirconium (Zr)-Total	0.000302	<DL	0.0010	mg/L		15-JUL-20	R5154410
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					15-JUL-20	R5153991
Aluminum (Al)-Dissolved	0.0090	<T	0.0050	mg/L		20-JUL-20	R5159728
Antimony (Sb)-Dissolved	0.000160	<DL	0.00060	mg/L		20-JUL-20	R5159728
Arsenic (As)-Dissolved	0.00216	<T	0.0010	mg/L		20-JUL-20	R5159728
Barium (Ba)-Dissolved	0.0247		0.010	mg/L		20-JUL-20	R5159728
Beryllium (Be)-Dissolved	0.000010	<DL	0.0010	mg/L		20-JUL-20	R5159728
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		20-JUL-20	R5159728
Boron (B)-Dissolved	0.0255	<DL	0.050	mg/L		20-JUL-20	R5159728
Cadmium (Cd)-Dissolved	0.0000050	<DL	0.000017	mg/L		20-JUL-20	R5159728
Calcium (Ca)-Dissolved	49.5		0.20	mg/L		20-JUL-20	R5159728
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		20-JUL-20	R5159728
Chromium (Cr)-Dissolved	0.00017	<DL	0.0010	mg/L		20-JUL-20	R5159728
Cobalt (Co)-Dissolved	0.000172	<DL	0.00050	mg/L		20-JUL-20	R5159728
Copper (Cu)-Dissolved	0.00066	<DL	0.0010	mg/L		20-JUL-20	R5159728
Iron (Fe)-Dissolved	0.184		0.020	mg/L		20-JUL-20	R5159728
Lead (Pb)-Dissolved	0.00003	<DL	0.000050	mg/L		20-JUL-20	R5159728
Lithium (Li)-Dissolved	0.0076	<DL	0.050	mg/L		20-JUL-20	R5159728
Magnesium (Mg)-Dissolved	20.9		0.020	mg/L		20-JUL-20	R5159728
Manganese (Mn)-Dissolved	0.0348		0.0010	mg/L		20-JUL-20	R5159728
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		16-JUL-20	R5154625
Molybdenum (Mo)-Dissolved	0.00125	<T	0.0010	mg/L		20-JUL-20	R5159728
Nickel (Ni)-Dissolved	0.00152	<DL	0.0020	mg/L		20-JUL-20	R5159728
Phosphorus (P)-Dissolved	0.015	<DL	0.050	mg/L		20-JUL-20	R5159728
Potassium (K)-Dissolved	1.96		0.50	mg/L		20-JUL-20	R5159728
Rubidium (Rb)-Dissolved	0.00216		0.00020	mg/L		20-JUL-20	R5159728
Selenium (Se)-Dissolved	0.000245	<T	0.000050	mg/L		20-JUL-20	R5159728
Silicon (Si)-Dissolved	4.71		0.050	mg/L		20-JUL-20	R5159728
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		20-JUL-20	R5159728
Sodium (Na)-Dissolved	8.20		0.10	mg/L		20-JUL-20	R5159728
Strontium (Sr)-Dissolved	0.142		0.0010	mg/L		20-JUL-20	R5159728
Sulfur (S)-Dissolved	11.6		0.50	mg/L		20-JUL-20	R5159728
Tellurium (Te)-Dissolved	0.00003	<DL	0.0010	mg/L		20-JUL-20	R5159728
Thallium (Tl)-Dissolved	0.000002	<DL	0.00030	mg/L		20-JUL-20	R5159728
Thorium (Th)-Dissolved	0.00002	<DL	0.00010	mg/L		20-JUL-20	R5159728

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2473477-4 SW22A Sampled By: NB, GC on 10-JUL-20 @ 11:00 Matrix: Water							
Dissolved Metals							
Tin (Sn)-Dissolved	0.000045	<DL	0.0010	mg/L		20-JUL-20	R5159728
Titanium (Ti)-Dissolved	0.00088	<DL	0.0020	mg/L		20-JUL-20	R5159728
Tungsten (W)-Dissolved	0.000016	<DL	0.010	mg/L		20-JUL-20	R5159728
Uranium (U)-Dissolved	0.000575	<DL	0.0050	mg/L		20-JUL-20	R5159728
Vanadium (V)-Dissolved	0.00078	<DL	0.0010	mg/L		20-JUL-20	R5159728
Zinc (Zn)-Dissolved	0.0010	<DL	0.0030	mg/L		20-JUL-20	R5159728
Zirconium (Zr)-Dissolved	0.000256	<DL	0.0010	mg/L		20-JUL-20	R5159728
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-JUL-20	R5157812
Chemical Oxygen Demand	68		20	mg/L	14-JUL-20	16-JUL-20	R5154928
Oil and Grease, Total	0.4	<DL	1.0	mg/L	20-JUL-20	20-JUL-20	R5159679
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		29-JUL-20	R5172694
L2473477-5 SW21A Sampled By: NB, GC on 10-JUL-20 @ 10:20 Matrix: Water							
Field Tests							
pH, Client Supplied	7.24		0.10	pH		17-JUL-20	R5156391
Temperature, Client	21.1		-50	Deg. C		17-JUL-20	R5156391
Physical Tests							
Color, True	85.4		2.0	CU		14-JUL-20	R5153038
Conductivity (EC)	403		1.0	uS/cm		14-JUL-20	R5153577
Hardness (as CaCO3)	206		0.51	mg/L		23-JUL-20	
pH	7.63		0.10	pH		14-JUL-20	R5153577
Total Suspended Solids	2.5	<DL	3.0	mg/L		16-JUL-20	R5157199
Total Dissolved Solids	252		13	mg/L		16-JUL-20	R5157228
Turbidity	1.03		0.10	NTU		14-JUL-20	R5153039
Anions and Nutrients							
Acidity (as CaCO3)	2.4		2.0	mg/L		15-JUL-20	R5154315
Alkalinity, Total (as CaCO3)	186		2.0	mg/L		14-JUL-20	R5153577
Unionized ammonia	0.00092		0.00018	mg/L		21-JUL-20	
Ammonia, Total (as N)	0.102	<T	0.020	mg/L		20-JUL-20	R5159863
Chloride (Cl)	8.85		0.10	mg/L	14-JUL-20	14-JUL-20	R5153675
Fluoride (F)	0.101		0.020	mg/L	14-JUL-20	14-JUL-20	R5153675
Nitrate (as N)	0.006	<DL	0.020	mg/L		14-JUL-20	R5153675
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-JUL-20	R5153675
Total Kjeldahl Nitrogen	1.20		0.18	mg/L	15-JUL-20	16-JUL-20	R5155093
Orthophosphate-Dissolved (as P)	0.0321		0.0030	mg/L	14-JUL-20	14-JUL-20	R5154066
Sulfate (SO4)	28.3		0.30	mg/L		14-JUL-20	R5153675
Cyanides							
Cyanide, Weak Acid Diss	0.0008	<DL	0.0020	mg/L		15-JUL-20	R5154552
Cyanide, Total	0.0008	<DL	0.0020	mg/L		15-JUL-20	R5154552

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2473477-5 SW21A Sampled By: NB, GC on 10-JUL-20 @ 10:20 Matrix: Water							
Cyanides							
Cyanide, Free	0.0006	<DL	0.0020	mg/L		15-JUL-20	R5154552
Organic / Inorganic Carbon							
Dissolved Organic Carbon	35.0	DLM	5.0	mg/L	14-JUL-20	21-JUL-20	R5160757
Total Organic Carbon	37.1	DLM	5.0	mg/L		21-JUL-20	R5160777
Total Metals							
Aluminum (Al)-Total	0.0500		0.0050	mg/L		22-JUL-20	R5163962
Antimony (Sb)-Total	0.000140	<DL	0.00060	mg/L		22-JUL-20	R5163962
Arsenic (As)-Total	0.00241	<T	0.0010	mg/L		22-JUL-20	R5163962
Barium (Ba)-Total	0.0282		0.010	mg/L		22-JUL-20	R5163962
Beryllium (Be)-Total	0.0000095	<DL	0.0010	mg/L		22-JUL-20	R5163962
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		22-JUL-20	R5163962
Boron (B)-Total	0.0230	<DL	0.050	mg/L		22-JUL-20	R5163962
Cadmium (Cd)-Total	0.000005	<DL	0.000017	mg/L		22-JUL-20	R5163962
Calcium (Ca)-Total	48.4		0.20	mg/L		22-JUL-20	R5163962
Cesium (Cs)-Total	0.0000090	<DL	0.000010	mg/L		22-JUL-20	R5163962
Chromium (Cr)-Total	0.00026	<DL	0.0010	mg/L		22-JUL-20	R5163962
Cobalt (Co)-Total	0.000345	<DL	0.00050	mg/L		22-JUL-20	R5163962
Copper (Cu)-Total	0.00048	<DL	0.0010	mg/L		22-JUL-20	R5163962
Iron (Fe)-Total	0.420		0.020	mg/L		22-JUL-20	R5163962
Lead (Pb)-Total	0.00005	<T	0.000050	mg/L		22-JUL-20	R5163962
Lithium (Li)-Total	0.0068	<DL	0.050	mg/L		22-JUL-20	R5163962
Magnesium (Mg)-Total	21.2		0.020	mg/L		22-JUL-20	R5163962
Manganese (Mn)-Total	0.175		0.0010	mg/L		22-JUL-20	R5163962
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		16-JUL-20	R5154623
Molybdenum (Mo)-Total	0.00124	<T	0.0010	mg/L		22-JUL-20	R5163962
Nickel (Ni)-Total	0.00144	<DL	0.0020	mg/L		22-JUL-20	R5163962
Phosphorus (P)-Total	0.080		0.050	mg/L		22-JUL-20	R5163962
Potassium (K)-Total	1.91		0.50	mg/L		22-JUL-20	R5163962
Rubidium (Rb)-Total	0.00255		0.00020	mg/L		22-JUL-20	R5163962
Selenium (Se)-Total	0.000245	<T	0.000050	mg/L		22-JUL-20	R5163962
Silicon (Si)-Total	5.02		0.10	mg/L		22-JUL-20	R5163962
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		22-JUL-20	R5163962
Sodium (Na)-Total	7.50		0.10	mg/L		22-JUL-20	R5163962
Strontium (Sr)-Total	0.141		0.0010	mg/L		22-JUL-20	R5163962
Sulfur (S)-Total	10.0		0.50	mg/L		22-JUL-20	R5163962
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		22-JUL-20	R5163962
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		22-JUL-20	R5163962
Thorium (Th)-Total	0.00002	<DL	0.00010	mg/L		22-JUL-20	R5163962
Tin (Sn)-Total	0.00004	<DL	0.0010	mg/L		22-JUL-20	R5163962
Titanium (Ti)-Total	0.00183	<DL	0.0020	mg/L		22-JUL-20	R5163962
Tungsten (W)-Total	0.00001	<DL	0.010	mg/L		22-JUL-20	R5163962

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2473477-5 SW21A							
Sampled By: NB, GC on 10-JUL-20 @ 10:20							
Matrix: Water							
Total Metals							
Uranium (U)-Total	0.000428	<DL	0.0050	mg/L		22-JUL-20	R5163962
Vanadium (V)-Total	0.00070	<DL	0.0010	mg/L		22-JUL-20	R5163962
Zinc (Zn)-Total	0.0025	<DL	0.0030	mg/L		22-JUL-20	R5163962
Zirconium (Zr)-Total	0.000230	<DL	0.0010	mg/L		22-JUL-20	R5163962
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					15-JUL-20	R5153991
Aluminum (Al)-Dissolved	0.0066	<T	0.0050	mg/L		20-JUL-20	R5159728
Antimony (Sb)-Dissolved	0.000150	<DL	0.00060	mg/L		20-JUL-20	R5159728
Arsenic (As)-Dissolved	0.00225	<T	0.0010	mg/L		20-JUL-20	R5159728
Barium (Ba)-Dissolved	0.0250		0.010	mg/L		20-JUL-20	R5159728
Beryllium (Be)-Dissolved	0.000016	<DL	0.0010	mg/L		20-JUL-20	R5159728
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		20-JUL-20	R5159728
Boron (B)-Dissolved	0.0250	<DL	0.050	mg/L		20-JUL-20	R5159728
Cadmium (Cd)-Dissolved	0.0000040	<DL	0.000017	mg/L		20-JUL-20	R5159728
Calcium (Ca)-Dissolved	47.6		0.20	mg/L		20-JUL-20	R5159728
Cesium (Cs)-Dissolved	0.0000040	<DL	0.000010	mg/L		20-JUL-20	R5159728
Chromium (Cr)-Dissolved	0.00041	<DL	0.0010	mg/L		20-JUL-20	R5159728
Cobalt (Co)-Dissolved	0.000234	<DL	0.00050	mg/L		20-JUL-20	R5159728
Copper (Cu)-Dissolved	0.00042	<DL	0.0010	mg/L		20-JUL-20	R5159728
Iron (Fe)-Dissolved	0.238		0.020	mg/L		20-JUL-20	R5159728
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		20-JUL-20	R5159728
Lithium (Li)-Dissolved	0.0076	<DL	0.050	mg/L		20-JUL-20	R5159728
Magnesium (Mg)-Dissolved	21.0		0.020	mg/L		20-JUL-20	R5159728
Manganese (Mn)-Dissolved	0.0644		0.0010	mg/L		20-JUL-20	R5159728
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		16-JUL-20	R5154625
Molybdenum (Mo)-Dissolved	0.00120	<T	0.0010	mg/L		20-JUL-20	R5159728
Nickel (Ni)-Dissolved	0.00164	<DL	0.0020	mg/L		20-JUL-20	R5159728
Phosphorus (P)-Dissolved	0.020	<DL	0.050	mg/L		20-JUL-20	R5159728
Potassium (K)-Dissolved	1.96		0.50	mg/L		20-JUL-20	R5159728
Rubidium (Rb)-Dissolved	0.00241		0.00020	mg/L		20-JUL-20	R5159728
Selenium (Se)-Dissolved	0.000260	<T	0.000050	mg/L		20-JUL-20	R5159728
Silicon (Si)-Dissolved	4.99		0.050	mg/L		20-JUL-20	R5159728
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		20-JUL-20	R5159728
Sodium (Na)-Dissolved	7.95		0.10	mg/L		20-JUL-20	R5159728
Strontium (Sr)-Dissolved	0.138		0.0010	mg/L		20-JUL-20	R5159728
Sulfur (S)-Dissolved	10.2		0.50	mg/L		20-JUL-20	R5159728
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		20-JUL-20	R5159728
Thallium (Tl)-Dissolved	0.000004	<DL	0.00030	mg/L		20-JUL-20	R5159728
Thorium (Th)-Dissolved	0.00001	<DL	0.00010	mg/L		20-JUL-20	R5159728
Tin (Sn)-Dissolved	0.000065	<DL	0.0010	mg/L		20-JUL-20	R5159728
Titanium (Ti)-Dissolved	0.00046	<DL	0.0020	mg/L		20-JUL-20	R5159728

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2473477-5 SW21A Sampled By: NB, GC on 10-JUL-20 @ 10:20 Matrix: Water							
Dissolved Metals							
Tungsten (W)-Dissolved	0.000016	<DL	0.010	mg/L		20-JUL-20	R5159728
Uranium (U)-Dissolved	0.000426	<DL	0.0050	mg/L		20-JUL-20	R5159728
Vanadium (V)-Dissolved	0.00056	<DL	0.0010	mg/L		20-JUL-20	R5159728
Zinc (Zn)-Dissolved	0.0014	<DL	0.0030	mg/L		20-JUL-20	R5159728
Zirconium (Zr)-Dissolved	0.000216	<DL	0.0010	mg/L		20-JUL-20	R5159728
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-JUL-20	R5157812
Chemical Oxygen Demand	72		20	mg/L	14-JUL-20	16-JUL-20	R5154928
Oil and Grease, Total	0.6	<DL	1.0	mg/L	16-JUL-20	16-JUL-20	R5154513
Report Remarks : Parameter Exceeded Recommended Holding Time On Receipt: Proceed With Analysis As Requested.							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Method Blank	Zinc (Zn)-Total	B	L2473477-3
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L2473477-1, -2, -3, -4, -5
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2473477-1, -2, -3, -4, -5
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2473477-1, -2, -3, -4, -5
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L2473477-1, -2, -3, -4, -5
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2473477-1, -2, -3, -4, -5
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2473477-1, -2, -3, -4, -5
Matrix Spike	Barium (Ba)-Total	MS-B	L2473477-1, -5
Matrix Spike	Calcium (Ca)-Total	MS-B	L2473477-1, -5
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2473477-1, -5
Matrix Spike	Manganese (Mn)-Total	MS-B	L2473477-1, -5
Matrix Spike	Molybdenum (Mo)-Total	MS-B	L2473477-1, -5
Matrix Spike	Potassium (K)-Total	MS-B	L2473477-1, -5
Matrix Spike	Sodium (Na)-Total	MS-B	L2473477-1, -5
Matrix Spike	Strontium (Sr)-Total	MS-B	L2473477-1, -5
Matrix Spike	Sulfur (S)-Total	MS-B	L2473477-1, -5
Matrix Spike	Ammonia, Total (as N)	MS-B	L2473477-1, -2, -3, -4, -5

Sample Parameter Qualifier key listed:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RRV	Reported Result Verified By Repeat Analysis

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-MISA-TB	Effluent	Acidity (as CaCO ₃)	APHA 2310 B-POTENTIOMETRIC TITRATION
Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample.			
ALK-MISA-TB	Effluent	Alkalinity, Total (as CaCO ₃)	APHA 2320 B-Auto-Pot. Titration
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
BOD-TB	Water	Biochemical Oxygen Demand (BOD)	APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND
All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation.			
CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
CN-FREE-MISA-CFA-WT	Effluent	Free Cyanide by Continuous Flow Analyzer	ASTM D7237-10 (modified)
This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis.			
CN-T-MISA-CFA-WT	Effluent	Total Cyanide by CFA	ISO 14403-2:2012 (modified)
This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis. Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.			
CN-WAD-MISA-CFA-WT	Effluent	Weak Acid Dissociable Cyanide by CFA	APHA 4500-CN CYANIDE (modified)

Reference Information

This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.

COD-TB	Water	Chemical Oxygen Demand	APHA 5220D
--------	-------	------------------------	------------

This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.

COLOUR-TB	Water	Colour, True	APHA 2120 C
-----------	-------	--------------	-------------

True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard.

DOC-WT	Effluent	Dissolved Organic Carbon for MISA	APHA 5310 B-Instrumental
--------	----------	-----------------------------------	--------------------------

EC-MISA-TB	Effluent	Conductivity (EC)	APHA 2510 B-ELECTRODE
------------	----------	-------------------	-----------------------

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

ETL-NH3-UNION-CLI-WT	Water	Un-ionized ammonia	CALCULATION
----------------------	-------	--------------------	-------------

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)
-----------	-------	-------------------------	-----------------

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Effluent	Hardness (as CaCO ₃)	CALCULATION
------------------	----------	----------------------------------	-------------

HG-DIS-WT	Effluent	Mercury (Hg)-Dissolved for MISA	SW846 7470A
-----------	----------	---------------------------------	-------------

HG-TOT-WT	Effluent	Mercury (Hg)-Total for MISA	SW846 7470A
-----------	----------	-----------------------------	-------------

MET-D-MISA-TB	Effluent	Dissolved Metals in Water (MISA)	APHA 3030B/6020B (mod)
---------------	----------	----------------------------------	------------------------

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-MISA-TB	Effluent	Total Metals in Water (MISA)	EPA 200.2/6020B (mod)
---------------	----------	------------------------------	-----------------------

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-F-WT	Effluent	Ammonia, Total as N	J. ENVIRON. MONIT., 2005, 7, 37-42, RSC
----------	----------	---------------------	---

This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.

NO2-MISA-IC-TB	Effluent	Nitrite in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

NO3-MISA-IC-TB	Effluent	Nitrate in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

OGG-TOT-WT	Effluent	Oil and Grease, Total for MISA	APHA 5520 B-Hexane Gravimetric
------------	----------	--------------------------------	--------------------------------

PH,TEMP-CLIENT-WT	Water	pH & Temperature	Results supplied by client
-------------------	-------	------------------	----------------------------

PH-MISA-TB	Effluent	pH	APHA 4500-H-ELECTRODE
------------	----------	----	-----------------------

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

PO4-DO-COL-TB	Water	Dissolved Orthophosphate	APHA 4500-P B, F, G (modified)
---------------	-------	--------------------------	--------------------------------

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

RA226-MMER-BE	Water	Radium 226	Radium Isotopes by Alpha Spectrometry
---------------	-------	------------	---------------------------------------

Reference Information

Determination of Gamma Emitting Radionuclides In Water and Solids by Gamma Spectrometry.

SO4-MISA-IC-TB	Effluent	Sulfate in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

TDS-MISA-TB	Effluent	Total Dissolved Solids	APHA 2540 C (modified)
-------------	----------	------------------------	------------------------

Aqueous matrices are analyzed using gravimetry and evaporation

TKN-WT	Effluent	Total Kjeldahl Nitrogen for MISA	APHA 4500-N
--------	----------	----------------------------------	-------------

TOC-WT	Water	Total Organic Carbon	APHA 5310B
--------	-------	----------------------	------------

Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

TSS-MISA-TB	Effluent	Total Suspended Solids	APHA 2540 D (modified)
-------------	----------	------------------------	------------------------

Aqueous matrices are analyzed using gravimetry

TURBIDITY-TB	Water	Turbidity	APHA 2130 B-Nephelometer
--------------	-------	-----------	--------------------------

Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
BE	BECQUEREL LABORATORIES INC. - MISSISSAUGA, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 1 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BOD-TB								
	Water							
Batch	R5157812							
WG3361882-8	DUP	L2473737-1						
Biochemical Oxygen Demand		101	61	J	mg/L	40	60	14-JUL-20
WG3361882-2	LCS							
Biochemical Oxygen Demand			99.5		%		85-115	14-JUL-20
WG3361882-6	LCS							
Biochemical Oxygen Demand			101.0		%		85-115	14-JUL-20
WG3361882-1	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	14-JUL-20
WG3361882-5	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	14-JUL-20
CL-L-IC-N-TB								
	Water							
Batch	R5153675							
WG3361925-3	DUP	L2473150-2						
Chloride (Cl)		92.3	80.3		mg/L	14	20	14-JUL-20
WG3361925-2	LCS							
Chloride (Cl)			102.0		%		90-110	14-JUL-20
WG3362030-2	LCS							
Chloride (Cl)			92.3		%		90-110	14-JUL-20
WG3361925-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	14-JUL-20
WG3362030-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	14-JUL-20
WG3362030-4	MS	L2473477-5						
Chloride (Cl)			124.5		%		75-125	14-JUL-20
Batch	R5158041							
WG3363765-2	LCS							
Chloride (Cl)			96.4		%		90-110	18-JUL-20
WG3363765-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	18-JUL-20
WG3361925-4	MS	L2473324-4						
Chloride (Cl)			100.1		%		75-125	18-JUL-20
COD-TB								
	Water							
Batch	R5154928							
WG3362170-2	LCS							
Chemical Oxygen Demand			112.7		%		85-115	16-JUL-20
WG3362170-1	MB							
Chemical Oxygen Demand			<20		mg/L		20	16-JUL-20
WG3362170-4	MS	L2473150-4						

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 2 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
COD-TB								
	Water							
Batch	R5154928							
WG3362170-4	MS	L2473150-4						
Chemical Oxygen Demand			116.5		%		75-125	16-JUL-20
COLOUR-TB								
	Water							
Batch	R5153038							
WG3361991-3	DUP	L2473477-3						
Color, True		48.7	49.0		CU	0.6	20	14-JUL-20
WG3361991-2	LCS							
Color, True			101.1		%		85-115	14-JUL-20
WG3361991-1	MB							
Color, True			<2.0		CU		2	14-JUL-20
F-IC-N-TB								
	Water							
Batch	R5153675							
WG3361925-2	LCS							
Fluoride (F)			106.5		%		90-110	14-JUL-20
WG3362030-2	LCS							
Fluoride (F)			98.6		%		90-110	14-JUL-20
WG3361925-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	14-JUL-20
WG3362030-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	14-JUL-20
WG3362030-4	MS	L2473477-5						
Fluoride (F)			124.6		%		75-125	14-JUL-20
PO4-DO-COL-TB								
	Water							
Batch	R5154066							
WG3361995-3	DUP	L2473477-3						
Orthophosphate-Dissolved (as P)		0.0138	0.0143		mg/L	3.7	20	14-JUL-20
WG3361995-2	LCS							
Orthophosphate-Dissolved (as P)			81.9		%		80-120	14-JUL-20
WG3361995-1	MB							
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	14-JUL-20
WG3361995-4	MS	L2473477-4						
Orthophosphate-Dissolved (as P)			90.7		%		70-130	14-JUL-20
TOC-WT								
	Water							

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 3 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TOC-WT		Water						
Batch	R5160777							
WG3363125-6	DUP	L2473477-1						
Total Organic Carbon		<0.50	<0.50	RPD-NA	mg/L	N/A	20	21-JUL-20
WG3363125-5	LCS							
Total Organic Carbon			101.7		%		80-120	21-JUL-20
WG3363125-1	MB							
Total Organic Carbon			<0.50		mg/L		0.5	21-JUL-20
WG3363125-7	MS	L2473477-1						
Total Organic Carbon			95.3		%		70-130	21-JUL-20
TURBIDITY-TB		Water						
Batch	R5153039							
WG3362204-3	DUP	L2473477-5						
Turbidity		1.03	1.04		NTU	1.0	15	14-JUL-20
WG3362204-2	LCS							
Turbidity			96.0		%		85-115	14-JUL-20
WG3362204-1	MB							
Turbidity			<0.10		NTU		0.1	14-JUL-20
ACY-MISA-TB		Effluent						
Batch	R5154315							
WG3361936-2	LCS							
Acidity (as CaCO3)			100.7		%		85-115	15-JUL-20
WG3361936-1	MB							
Acidity (as CaCO3)			1.6		mg/L		4	15-JUL-20
ALK-MISA-TB		Effluent						
Batch	R5153577							
WG3361984-3	DUP	L2473477-3						
Alkalinity, Total (as CaCO3)		159	160		mg/L	0.6	20	14-JUL-20
Alkalinity, Phenolphthalein		<0.2	<0.2	RPD-NA	mg/L	N/A	25	14-JUL-20
WG3361984-2	LCS							
Alkalinity, Total (as CaCO3)			102.4		%		85-115	14-JUL-20
WG3361984-1	MB							
Alkalinity, Total (as CaCO3)			0.6		mg/L		2	14-JUL-20
Alkalinity, Phenolphthalein			<0.2		mg/L		2	14-JUL-20
CN-FREE-MISA-CFA-WT		Effluent						
Batch	R5154552							
WG3363276-3	DUP	L2473477-2						
Cyanide, Free		0.0002	<0.0001	RPD-NA	mg/L	N/A	20	15-JUL-20
WG3363276-2	LCS							

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 4 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CN-FREE-MISA-CFA-WT								
	Effluent							
Batch	R5154552							
WG3363276-2	LCS							
Cyanide, Free			104.8		%		80-120	15-JUL-20
WG3363276-1	MB							
Cyanide, Free			0.0002		mg/L		0.002	15-JUL-20
WG3363276-4	MS	L2473477-2						
Cyanide, Free			100.0		%		75-125	15-JUL-20
CN-T-MISA-CFA-WT								
	Effluent							
Batch	R5154552							
WG3363276-3	DUP	L2473477-2						
Cyanide, Total		<0.0002	<0.0002	RPD-NA	mg/L	N/A	20	15-JUL-20
WG3363276-2	LCS							
Cyanide, Total			93.2		%		80-120	15-JUL-20
WG3363276-1	MB							
Cyanide, Total			<0.0002		mg/L		0.002	15-JUL-20
WG3363276-4	MS	L2473477-2						
Cyanide, Total			90.1		%		75-125	15-JUL-20
CN-WAD-MISA-CFA-WT								
	Effluent							
Batch	R5154552							
WG3363276-3	DUP	L2473477-2						
Cyanide, Weak Acid Diss		<0.0001	<0.0001	RPD-NA	mg/L	N/A	20	15-JUL-20
WG3363276-2	LCS							
Cyanide, Weak Acid Diss			108.5		%		80-120	15-JUL-20
WG3363276-1	MB							
Cyanide, Weak Acid Diss			0.0001		mg/L		0.002	15-JUL-20
WG3363276-4	MS	L2473477-2						
Cyanide, Weak Acid Diss			102.9		%		75-125	15-JUL-20
DOC-WT								
	Effluent							
Batch	R5159480							
WG3363063-3	DUP	WG3363063-5						
Dissolved Organic Carbon		<0.50	<0.50	RPD-NA	mg/L	N/A	25	20-JUL-20
WG3363063-2	LCS							
Dissolved Organic Carbon			100.9		%		70-130	20-JUL-20
WG3363063-1	MB							
Dissolved Organic Carbon			<0.50		mg/L		0.5	20-JUL-20

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 5 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DOC-WT		Effluent						
Batch	R5160757							
WG3364104-3	DUP	WG3364104-5						
Dissolved Organic Carbon		13.0	14.6		mg/L	12	25	21-JUL-20
WG3364104-2	LCS							
Dissolved Organic Carbon			102.5		%		70-130	21-JUL-20
WG3364104-1	MB							
Dissolved Organic Carbon			<0.50		mg/L		0.5	21-JUL-20
EC-MISA-TB		Effluent						
Batch	R5153577							
WG3361984-3	DUP	L2473477-3						
Conductivity (EC)		411	415		uS/cm	0.9	10	14-JUL-20
WG3361984-2	LCS							
Conductivity (EC)			101.8		%		90-110	14-JUL-20
WG3361984-1	MB							
Conductivity (EC)			1.6		uS/cm		2	14-JUL-20
HG-DIS-WT		Effluent						
Batch	R5154625							
WG3363719-3	DUP	L2472542-1						
Mercury (Hg)-Dissolved		0.000005	0.000005	RPD-NA	mg/L	N/A	20	16-JUL-20
WG3363719-2	LCS							
Mercury (Hg)-Dissolved			102.0		%		80-120	16-JUL-20
WG3363719-1	MB							
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.00003	16-JUL-20
WG3363719-4	MS	L2473477-1						
Mercury (Hg)-Dissolved			98.4		%		70-130	16-JUL-20
HG-TOT-WT		Effluent						
Batch	R5154623							
WG3363717-3	DUP	L2473150-1						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	16-JUL-20
WG3363717-2	LCS							
Mercury (Hg)-Total			102.0		%		80-120	16-JUL-20
WG3363717-1	MB							
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	16-JUL-20
WG3363717-4	MS	L2473150-11						
Mercury (Hg)-Total			100.8		%		70-130	16-JUL-20
MET-D-MISA-TB		Effluent						

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 6 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R5159728							
WG3363102-3	DUP	L2473477-3						
Aluminum (Al)-Dissolved		0.0118	0.0114		mg/L	3.1	20	20-JUL-20
Antimony (Sb)-Dissolved		0.000195	0.000205	RPD-NA	mg/L	N/A	20	20-JUL-20
Arsenic (As)-Dissolved		0.00153	0.00155		mg/L	1.3	20	20-JUL-20
Barium (Ba)-Dissolved		0.0228	0.0226		mg/L	0.7	20	20-JUL-20
Beryllium (Be)-Dissolved		0.000004	0.000004	RPD-NA	mg/L	N/A	20	20-JUL-20
Bismuth (Bi)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	20-JUL-20
Boron (B)-Dissolved		0.0280	0.0280	RPD-NA	mg/L	N/A	20	20-JUL-20
Cadmium (Cd)-Dissolved		0.0000070	0.0000090	RPD-NA	mg/L	N/A	20	20-JUL-20
Calcium (Ca)-Dissolved		49.5	50.3		mg/L	1.7	20	20-JUL-20
Cesium (Cs)-Dissolved		0.0000010	0.0000010	RPD-NA	mg/L	N/A	20	20-JUL-20
Chromium (Cr)-Dissolved		0.00014	0.00013	RPD-NA	mg/L	N/A	20	20-JUL-20
Cobalt (Co)-Dissolved		0.000150	0.000148	RPD-NA	mg/L	N/A	20	20-JUL-20
Copper (Cu)-Dissolved		0.00146	0.00146		mg/L	0.6	20	20-JUL-20
Iron (Fe)-Dissolved		0.109	0.112		mg/L	2.6	20	20-JUL-20
Lead (Pb)-Dissolved		0.00004	0.00004	RPD-NA	mg/L	N/A	20	20-JUL-20
Lithium (Li)-Dissolved		0.0100	0.0100	RPD-NA	mg/L	N/A	20	20-JUL-20
Magnesium (Mg)-Dissolved		19.1	18.8		mg/L	1.6	20	20-JUL-20
Manganese (Mn)-Dissolved		0.0870	0.0860		mg/L	1.2	20	20-JUL-20
Molybdenum (Mo)-Dissolved		0.00149	0.00151		mg/L	1.2	20	20-JUL-20
Nickel (Ni)-Dissolved		0.00130	0.00128	RPD-NA	mg/L	N/A	20	20-JUL-20
Phosphorus (P)-Dissolved		<0.005	<0.005	RPD-NA	mg/L	N/A	20	20-JUL-20
Potassium (K)-Dissolved		2.53	2.43		mg/L	3.8	20	20-JUL-20
Rubidium (Rb)-Dissolved		0.00186	0.00184		mg/L	1.2	20	20-JUL-20
Selenium (Se)-Dissolved		0.000185	0.000180		mg/L	3.4	20	20-JUL-20
Silicon (Si)-Dissolved		3.09	3.15		mg/L	1.9	20	20-JUL-20
Silver (Ag)-Dissolved		0.0000010	0.0000010	RPD-NA	mg/L	N/A	20	20-JUL-20
Sodium (Na)-Dissolved		8.49	8.22		mg/L	3.2	20	20-JUL-20
Strontium (Sr)-Dissolved		0.147	0.150		mg/L	2.0	20	20-JUL-20
Sulfur (S)-Dissolved		14.8	15.2		mg/L	3.4	20	20-JUL-20
Tellurium (Te)-Dissolved		0.00001	0.00003	RPD-NA	mg/L	N/A	20	20-JUL-20
Thallium (Tl)-Dissolved		0.000002	0.000002	RPD-NA	mg/L	N/A	20	20-JUL-20
Thorium (Th)-Dissolved		0.00002	0.00002	RPD-NA	mg/L	N/A	20	20-JUL-20
Tin (Sn)-Dissolved		0.000235	0.000245		mg/L			20-JUL-20

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 7 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R5159728							
WG3363102-3	DUP	L2473477-3						
Tin (Sn)-Dissolved		0.000235	0.000245	RPD-NA	mg/L	N/A	20	20-JUL-20
Titanium (Ti)-Dissolved		0.00136	0.00138	RPD-NA	mg/L	N/A	20	20-JUL-20
Tungsten (W)-Dissolved		0.000002	0.000004	RPD-NA	mg/L	N/A	20	20-JUL-20
Uranium (U)-Dissolved		0.00112	0.00112	RPD-NA	mg/L	N/A	20	20-JUL-20
Vanadium (V)-Dissolved		0.00094	0.00094	RPD-NA	mg/L	N/A	20	20-JUL-20
Zinc (Zn)-Dissolved		0.0026	0.0024	RPD-NA	mg/L	N/A	20	20-JUL-20
Zirconium (Zr)-Dissolved		0.000314	0.000208	RPD-NA	mg/L	N/A	20	20-JUL-20
WG3363102-2	LCS							
Aluminum (Al)-Dissolved			99.9		%		80-120	20-JUL-20
Antimony (Sb)-Dissolved			105.4		%		80-120	20-JUL-20
Arsenic (As)-Dissolved			103.4		%		80-120	20-JUL-20
Barium (Ba)-Dissolved			106.2		%		80-120	20-JUL-20
Beryllium (Be)-Dissolved			100.9		%		80-120	20-JUL-20
Bismuth (Bi)-Dissolved			106.2		%		80-120	20-JUL-20
Boron (B)-Dissolved			101.0		%		80-120	20-JUL-20
Cadmium (Cd)-Dissolved			101.2		%		80-120	20-JUL-20
Calcium (Ca)-Dissolved			105.4		%		80-120	20-JUL-20
Cesium (Cs)-Dissolved			101.7		%		80-120	20-JUL-20
Chromium (Cr)-Dissolved			105.6		%		80-120	20-JUL-20
Cobalt (Co)-Dissolved			101.1		%		80-120	20-JUL-20
Copper (Cu)-Dissolved			101.6		%		80-120	20-JUL-20
Iron (Fe)-Dissolved			111.8		%		80-120	20-JUL-20
Lead (Pb)-Dissolved			106.6		%		80-120	20-JUL-20
Lithium (Li)-Dissolved			101.7		%		80-120	20-JUL-20
Magnesium (Mg)-Dissolved			101.0		%		80-120	20-JUL-20
Manganese (Mn)-Dissolved			103.2		%		80-120	20-JUL-20
Molybdenum (Mo)-Dissolved			101.1		%		80-120	20-JUL-20
Nickel (Ni)-Dissolved			101.8		%		80-120	20-JUL-20
Phosphorus (P)-Dissolved			114.2		%		70-130	20-JUL-20
Potassium (K)-Dissolved			107.8		%		80-120	20-JUL-20
Rubidium (Rb)-Dissolved			106.6		%		80-120	20-JUL-20
Selenium (Se)-Dissolved			104.7		%		80-120	20-JUL-20
Silicon (Si)-Dissolved			105.5		%		60-140	20-JUL-20

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 8 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB	Effluent							
Batch	R5159728							
WG3363102-2	LCS							
Silver (Ag)-Dissolved			104.0		%		80-120	20-JUL-20
Sodium (Na)-Dissolved			103.4		%		80-120	20-JUL-20
Strontium (Sr)-Dissolved			101.8		%		80-120	20-JUL-20
Sulfur (S)-Dissolved			113.0		%		80-120	20-JUL-20
Tellurium (Te)-Dissolved			106.1		%		80-120	20-JUL-20
Thallium (Tl)-Dissolved			107.5		%		80-120	20-JUL-20
Thorium (Th)-Dissolved			103.7		%		80-120	20-JUL-20
Tin (Sn)-Dissolved			103.1		%		80-120	20-JUL-20
Titanium (Ti)-Dissolved			101.4		%		80-120	20-JUL-20
Tungsten (W)-Dissolved			108.9		%		80-120	20-JUL-20
Uranium (U)-Dissolved			105.5		%		80-120	20-JUL-20
Vanadium (V)-Dissolved			104.0		%		80-120	20-JUL-20
Zinc (Zn)-Dissolved			98.8		%		80-120	20-JUL-20
Zirconium (Zr)-Dissolved			104.0		%		80-120	20-JUL-20
WG3363102-1	MB							
Aluminum (Al)-Dissolved			<0.0002		mg/L		0.005	20-JUL-20
Antimony (Sb)-Dissolved			<0.000005		mg/L		0.0006	20-JUL-20
Arsenic (As)-Dissolved			0.0000010		mg/L		0.001	20-JUL-20
Barium (Ba)-Dissolved			<0.000005		mg/L		0.01	20-JUL-20
Beryllium (Be)-Dissolved			<0.000002		mg/L		0.001	20-JUL-20
Bismuth (Bi)-Dissolved			<0.000002		mg/L		0.001	20-JUL-20
Boron (B)-Dissolved			<0.0005		mg/L		0.05	20-JUL-20
Cadmium (Cd)-Dissolved			<0.0000005		mg/L		0.000017	20-JUL-20
Calcium (Ca)-Dissolved			<0.002		mg/L		0.2	20-JUL-20
Cesium (Cs)-Dissolved			<0.0000005		mg/L		0.00001	20-JUL-20
Chromium (Cr)-Dissolved			<0.00001		mg/L		0.001	20-JUL-20
Cobalt (Co)-Dissolved			<0.000002		mg/L		0.0005	20-JUL-20
Copper (Cu)-Dissolved			<0.00002		mg/L		0.001	20-JUL-20
Iron (Fe)-Dissolved			<0.0005		mg/L		0.02	20-JUL-20
Lead (Pb)-Dissolved			<0.00001		mg/L		0.00005	20-JUL-20
Lithium (Li)-Dissolved			<0.0002		mg/L		0.05	20-JUL-20
Magnesium (Mg)-Dissolved			<0.0005		mg/L		0.02	20-JUL-20
Manganese (Mn)-Dissolved			<0.00002		mg/L		0.001	20-JUL-20
Molybdenum (Mo)-Dissolved			<0.000002		mg/L		0.001	20-JUL-20

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 9 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB								
	Effluent							
Batch	R5159728							
WG3363102-1	MB							
Nickel (Ni)-Dissolved			<0.00002		mg/L		0.002	20-JUL-20
Phosphorus (P)-Dissolved			<0.005		mg/L		0.05	20-JUL-20
Potassium (K)-Dissolved			<0.01		mg/L		0.5	20-JUL-20
Rubidium (Rb)-Dissolved			<0.000002		mg/L		0.0002	20-JUL-20
Selenium (Se)-Dissolved			<0.000005		mg/L		0.00005	20-JUL-20
Silicon (Si)-Dissolved			0.005		mg/L		0.05	20-JUL-20
Silver (Ag)-Dissolved			<0.0000005		mg/L		0.0001	20-JUL-20
Sodium (Na)-Dissolved			<0.005		mg/L		0.1	20-JUL-20
Strontium (Sr)-Dissolved			<0.00002		mg/L		0.001	20-JUL-20
Sulfur (S)-Dissolved			<0.2		mg/L		0.5	20-JUL-20
Tellurium (Te)-Dissolved			<0.00001		mg/L		0.001	20-JUL-20
Thallium (Tl)-Dissolved			<0.000002		mg/L		0.0003	20-JUL-20
Thorium (Th)-Dissolved			<0.00001		mg/L		0.0001	20-JUL-20
Tin (Sn)-Dissolved			<0.000005		mg/L		0.001	20-JUL-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.002	20-JUL-20
Tungsten (W)-Dissolved			<0.000002		mg/L		0.01	20-JUL-20
Uranium (U)-Dissolved			<0.0000005		mg/L		0.005	20-JUL-20
Vanadium (V)-Dissolved			<0.00002		mg/L		0.001	20-JUL-20
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.003	20-JUL-20
Zirconium (Zr)-Dissolved			<0.000002		mg/L		0.001	20-JUL-20
WG3363102-4	MS	L2473477-4						
Aluminum (Al)-Dissolved			104.8		%		70-130	20-JUL-20
Antimony (Sb)-Dissolved			108.0		%		70-130	20-JUL-20
Arsenic (As)-Dissolved			109.4		%		70-130	20-JUL-20
Barium (Ba)-Dissolved			N/A	MS-B	%		-	20-JUL-20
Beryllium (Be)-Dissolved			105.1		%		70-130	20-JUL-20
Bismuth (Bi)-Dissolved			98.5		%		70-130	20-JUL-20
Boron (B)-Dissolved			99.0		%		70-130	20-JUL-20
Cadmium (Cd)-Dissolved			108.3		%		70-130	20-JUL-20
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	20-JUL-20
Cesium (Cs)-Dissolved			108.7		%		70-130	20-JUL-20
Chromium (Cr)-Dissolved			109.3		%		70-130	20-JUL-20
Cobalt (Co)-Dissolved			104.7		%		70-130	20-JUL-20
Copper (Cu)-Dissolved			105.4		%		70-130	20-JUL-20

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 10 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB								
	Effluent							
Batch	R5159728							
WG3363102-4	MS	L2473477-4						
Iron (Fe)-Dissolved			104.5		%		70-130	20-JUL-20
Lead (Pb)-Dissolved			107.7		%		70-130	20-JUL-20
Lithium (Li)-Dissolved			93.6		%		70-130	20-JUL-20
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	20-JUL-20
Manganese (Mn)-Dissolved			N/A	MS-B	%		-	20-JUL-20
Molybdenum (Mo)-Dissolved			105.2		%		70-130	20-JUL-20
Nickel (Ni)-Dissolved			104.7		%		70-130	20-JUL-20
Phosphorus (P)-Dissolved			120.4		%		70-130	20-JUL-20
Potassium (K)-Dissolved			107.1		%		70-130	20-JUL-20
Rubidium (Rb)-Dissolved			111.5		%		70-130	20-JUL-20
Selenium (Se)-Dissolved			113.4		%		70-130	20-JUL-20
Silicon (Si)-Dissolved			93.3		%		70-130	20-JUL-20
Silver (Ag)-Dissolved			81.6		%		70-130	20-JUL-20
Sodium (Na)-Dissolved			N/A	MS-B	%		-	20-JUL-20
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	20-JUL-20
Sulfur (S)-Dissolved			107.4		%		70-130	20-JUL-20
Tellurium (Te)-Dissolved			108.9		%		70-130	20-JUL-20
Thallium (Tl)-Dissolved			107.0		%		70-130	20-JUL-20
Thorium (Th)-Dissolved			107.7		%		70-130	20-JUL-20
Tin (Sn)-Dissolved			105.9		%		70-130	20-JUL-20
Titanium (Ti)-Dissolved			106.1		%		70-130	20-JUL-20
Tungsten (W)-Dissolved			108.7		%		70-130	20-JUL-20
Uranium (U)-Dissolved			107.0		%		70-130	20-JUL-20
Vanadium (V)-Dissolved			108.9		%		70-130	20-JUL-20
Zinc (Zn)-Dissolved			106.9		%		70-130	20-JUL-20
Zirconium (Zr)-Dissolved			105.5		%		70-130	20-JUL-20
MET-T-MISA-TB								
	Effluent							
Batch	R5154410							
WG3362890-6	LCS							
Aluminum (Al)-Total			98.2		%		80-120	15-JUL-20
Antimony (Sb)-Total			99.4		%		80-120	15-JUL-20
Arsenic (As)-Total			99.5		%		80-120	15-JUL-20
Barium (Ba)-Total			95.1		%		80-120	15-JUL-20
Beryllium (Be)-Total			99.98		%		80-120	

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 11 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5154410							
WG3362890-6	LCS							
Beryllium (Be)-Total			99.98		%		80-120	15-JUL-20
Bismuth (Bi)-Total			104.1		%		80-120	15-JUL-20
Boron (B)-Total			99.5		%		80-120	15-JUL-20
Cadmium (Cd)-Total			100.4		%		80-120	15-JUL-20
Calcium (Ca)-Total			98.0		%		80-120	15-JUL-20
Cesium (Cs)-Total			97.6		%		80-120	15-JUL-20
Chromium (Cr)-Total			100.2		%		80-120	15-JUL-20
Cobalt (Co)-Total			99.0		%		80-120	15-JUL-20
Copper (Cu)-Total			98.2		%		80-120	15-JUL-20
Iron (Fe)-Total			112.2		%		80-120	15-JUL-20
Lead (Pb)-Total			98.5		%		80-120	15-JUL-20
Lithium (Li)-Total			99.3		%		80-120	15-JUL-20
Magnesium (Mg)-Total			109.1		%		80-120	15-JUL-20
Manganese (Mn)-Total			99.8		%		80-120	15-JUL-20
Molybdenum (Mo)-Total			96.2		%		80-120	15-JUL-20
Nickel (Ni)-Total			97.9		%		80-120	15-JUL-20
Phosphorus (P)-Total			87.2		%		80-120	15-JUL-20
Potassium (K)-Total			108.6		%		80-120	15-JUL-20
Rubidium (Rb)-Total			98.3		%		80-120	15-JUL-20
Selenium (Se)-Total			97.2		%		80-120	15-JUL-20
Silicon (Si)-Total			101.6		%		80-120	15-JUL-20
Silver (Ag)-Total			97.8		%		80-120	15-JUL-20
Sodium (Na)-Total			103.0		%		80-120	15-JUL-20
Strontium (Sr)-Total			96.4		%		80-120	15-JUL-20
Sulfur (S)-Total			106.1		%		80-120	15-JUL-20
Tellurium (Te)-Total			100.8		%		80-120	15-JUL-20
Thallium (Tl)-Total			99.5		%		80-120	15-JUL-20
Thorium (Th)-Total			98.8		%		80-120	15-JUL-20
Tin (Sn)-Total			97.0		%		80-120	15-JUL-20
Titanium (Ti)-Total			97.1		%		80-120	15-JUL-20
Tungsten (W)-Total			97.7		%		80-120	15-JUL-20
Uranium (U)-Total			94.2		%		80-120	15-JUL-20
Vanadium (V)-Total			102.0		%		80-120	15-JUL-20

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 12 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5154410							
WG3362890-6	LCS							
Zinc (Zn)-Total			101.1		%		80-120	15-JUL-20
Zirconium (Zr)-Total			96.7		%		80-120	15-JUL-20
WG3362890-5	MB							
Aluminum (Al)-Total			<0.0002		mg/L		0.005	15-JUL-20
Antimony (Sb)-Total			0.000015		mg/L		0.0006	15-JUL-20
Arsenic (As)-Total			0.00002		mg/L		0.001	15-JUL-20
Barium (Ba)-Total			<0.00001		mg/L		0.01	15-JUL-20
Beryllium (Be)-Total			0.0000055		mg/L		0.001	15-JUL-20
Bismuth (Bi)-Total			<0.00001		mg/L		0.001	15-JUL-20
Boron (B)-Total			<0.0005		mg/L		0.05	15-JUL-20
Cadmium (Cd)-Total			<0.000001		mg/L		0.000017	15-JUL-20
Calcium (Ca)-Total			<0.002		mg/L		0.2	15-JUL-20
Cesium (Cs)-Total			<0.0000005		mg/L		0.00001	15-JUL-20
Chromium (Cr)-Total			<0.00002		mg/L		0.001	15-JUL-20
Cobalt (Co)-Total			<0.000005		mg/L		0.0005	15-JUL-20
Copper (Cu)-Total			<0.00002		mg/L		0.001	15-JUL-20
Iron (Fe)-Total			<0.0005		mg/L		0.02	15-JUL-20
Lead (Pb)-Total			<0.00001		mg/L		0.00005	15-JUL-20
Lithium (Li)-Total			<0.0002		mg/L		0.05	15-JUL-20
Magnesium (Mg)-Total			<0.0002		mg/L		0.02	15-JUL-20
Manganese (Mn)-Total			<0.0002		mg/L		0.001	15-JUL-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.001	15-JUL-20
Nickel (Ni)-Total			<0.00002		mg/L		0.002	15-JUL-20
Phosphorus (P)-Total			<0.005		mg/L		0.05	15-JUL-20
Potassium (K)-Total			<0.01		mg/L		0.5	15-JUL-20
Rubidium (Rb)-Total			0.000004		mg/L		0.0002	15-JUL-20
Selenium (Se)-Total			<0.000005		mg/L		0.00005	15-JUL-20
Silicon (Si)-Total			0.026		mg/L		0.1	15-JUL-20
Silver (Ag)-Total			<0.000001		mg/L		0.0001	15-JUL-20
Sodium (Na)-Total			<0.005		mg/L		0.1	15-JUL-20
Strontium (Sr)-Total			<0.000005		mg/L		0.001	15-JUL-20
Sulfur (S)-Total			<0.2		mg/L		0.5	15-JUL-20
Tellurium (Te)-Total			<0.00002		mg/L		0.001	15-JUL-20
Thallium (Tl)-Total			<0.000005		mg/L		0.0003	15-JUL-20

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 13 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch R5154410								
WG3362890-5 MB								
Thorium (Th)-Total			<0.00001		mg/L		0.0001	15-JUL-20
Tin (Sn)-Total			<0.00001		mg/L		0.001	15-JUL-20
Titanium (Ti)-Total			0.00002		mg/L		0.002	15-JUL-20
Tungsten (W)-Total			<0.00001		mg/L		0.01	15-JUL-20
Uranium (U)-Total			<0.0000005		mg/L		0.005	15-JUL-20
Vanadium (V)-Total			0.00005		mg/L		0.001	15-JUL-20
Zinc (Zn)-Total			<0.0005		mg/L		0.003	15-JUL-20
Zirconium (Zr)-Total			<0.000002		mg/L		0.001	15-JUL-20
Batch R5159695								
WG3363936-2 LCS								
Aluminum (Al)-Total			105.2		%		80-120	20-JUL-20
Antimony (Sb)-Total			104.1		%		80-120	20-JUL-20
Arsenic (As)-Total			105.4		%		80-120	20-JUL-20
Barium (Ba)-Total			97.0		%		80-120	20-JUL-20
Beryllium (Be)-Total			102.4		%		80-120	20-JUL-20
Bismuth (Bi)-Total			107.8		%		80-120	20-JUL-20
Boron (B)-Total			96.2		%		80-120	20-JUL-20
Cadmium (Cd)-Total			102.1		%		80-120	20-JUL-20
Calcium (Ca)-Total			105.0		%		80-120	20-JUL-20
Cesium (Cs)-Total			98.8		%		80-120	20-JUL-20
Chromium (Cr)-Total			105.1		%		80-120	20-JUL-20
Cobalt (Co)-Total			102.2		%		80-120	20-JUL-20
Copper (Cu)-Total			102.0		%		80-120	20-JUL-20
Iron (Fe)-Total			111.5		%		80-120	20-JUL-20
Lead (Pb)-Total			102.8		%		80-120	20-JUL-20
Lithium (Li)-Total			103.2		%		80-120	20-JUL-20
Magnesium (Mg)-Total			111.7		%		80-120	20-JUL-20
Manganese (Mn)-Total			103.7		%		80-120	20-JUL-20
Molybdenum (Mo)-Total			100.0		%		80-120	20-JUL-20
Nickel (Ni)-Total			102.3		%		80-120	20-JUL-20
Phosphorus (P)-Total			85.8		%		80-120	20-JUL-20
Potassium (K)-Total			109.0		%		80-120	20-JUL-20
Rubidium (Rb)-Total			105.9		%		80-120	20-JUL-20
Selenium (Se)-Total			100.4		%		80-120	20-JUL-20

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 14 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5159695							
WG3363936-2 LCS								
Silicon (Si)-Total			108.6		%		80-120	20-JUL-20
Silver (Ag)-Total			102.5		%		80-120	20-JUL-20
Sodium (Na)-Total			108.7		%		80-120	20-JUL-20
Strontium (Sr)-Total			100.1		%		80-120	20-JUL-20
Sulfur (S)-Total			99.0		%		80-120	20-JUL-20
Tellurium (Te)-Total			102.0		%		80-120	20-JUL-20
Thallium (Tl)-Total			103.6		%		80-120	20-JUL-20
Thorium (Th)-Total			99.4		%		80-120	20-JUL-20
Tin (Sn)-Total			101.2		%		80-120	20-JUL-20
Titanium (Ti)-Total			99.3		%		80-120	20-JUL-20
Tungsten (W)-Total			102.8		%		80-120	20-JUL-20
Uranium (U)-Total			101.8		%		80-120	20-JUL-20
Vanadium (V)-Total			105.0		%		80-120	20-JUL-20
Zinc (Zn)-Total			101.4		%		80-120	20-JUL-20
Zirconium (Zr)-Total			102.2		%		80-120	20-JUL-20
WG3364792-2 LCS								
Aluminum (Al)-Total			102.0		%		80-120	20-JUL-20
Antimony (Sb)-Total			104.6		%		80-120	20-JUL-20
Arsenic (As)-Total			102.8		%		80-120	20-JUL-20
Barium (Ba)-Total			101.6		%		80-120	20-JUL-20
Beryllium (Be)-Total			97.1		%		80-120	20-JUL-20
Bismuth (Bi)-Total			105.8		%		80-120	20-JUL-20
Boron (B)-Total			90.4		%		80-120	20-JUL-20
Cadmium (Cd)-Total			99.2		%		80-120	20-JUL-20
Calcium (Ca)-Total			102.8		%		80-120	20-JUL-20
Cesium (Cs)-Total			98.9		%		80-120	20-JUL-20
Chromium (Cr)-Total			103.3		%		80-120	20-JUL-20
Cobalt (Co)-Total			99.6		%		80-120	20-JUL-20
Copper (Cu)-Total			101.3		%		80-120	20-JUL-20
Iron (Fe)-Total			107.7		%		80-120	20-JUL-20
Lead (Pb)-Total			102.2		%		80-120	20-JUL-20
Lithium (Li)-Total			93.6		%		80-120	20-JUL-20
Magnesium (Mg)-Total			105.7		%		80-120	20-JUL-20
Manganese (Mn)-Total			102.2		%		80-120	20-JUL-20

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 15 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5159695							
WG3364792-2	LCS							
Molybdenum (Mo)-Total			100.5		%		80-120	20-JUL-20
Nickel (Ni)-Total			99.96		%		80-120	20-JUL-20
Phosphorus (P)-Total			86.9		%		80-120	20-JUL-20
Potassium (K)-Total			108.9		%		80-120	20-JUL-20
Rubidium (Rb)-Total			100.3		%		80-120	20-JUL-20
Selenium (Se)-Total			99.8		%		80-120	20-JUL-20
Silicon (Si)-Total			104.8		%		80-120	20-JUL-20
Silver (Ag)-Total			103.3		%		80-120	20-JUL-20
Sodium (Na)-Total			100.1		%		80-120	20-JUL-20
Strontium (Sr)-Total			98.1		%		80-120	20-JUL-20
Sulfur (S)-Total			98.7		%		80-120	20-JUL-20
Tellurium (Te)-Total			102.7		%		80-120	20-JUL-20
Thallium (Tl)-Total			102.5		%		80-120	20-JUL-20
Thorium (Th)-Total			99.7		%		80-120	20-JUL-20
Tin (Sn)-Total			100.6		%		80-120	20-JUL-20
Titanium (Ti)-Total			97.2		%		80-120	20-JUL-20
Tungsten (W)-Total			103.5		%		80-120	20-JUL-20
Uranium (U)-Total			104.3		%		80-120	20-JUL-20
Vanadium (V)-Total			102.6		%		80-120	20-JUL-20
Zinc (Zn)-Total			98.7		%		80-120	20-JUL-20
Zirconium (Zr)-Total			100.5		%		80-120	20-JUL-20
WG3363936-1		MB						
Aluminum (Al)-Total			0.0044		mg/L		0.005	20-JUL-20
Antimony (Sb)-Total			0.000050		mg/L		0.0006	20-JUL-20
Arsenic (As)-Total			0.00003		mg/L		0.001	20-JUL-20
Barium (Ba)-Total			0.00011		mg/L		0.01	20-JUL-20
Beryllium (Be)-Total			<0.0000001		mg/L		0.001	20-JUL-20
Bismuth (Bi)-Total			0.00010		mg/L		0.001	20-JUL-20
Boron (B)-Total			0.0025		mg/L		0.05	20-JUL-20
Cadmium (Cd)-Total			0.000001		mg/L		0.000017	20-JUL-20
Calcium (Ca)-Total			0.044		mg/L		0.2	20-JUL-20
Cesium (Cs)-Total			<0.000000E		mg/L		0.00001	20-JUL-20
Chromium (Cr)-Total			0.00002		mg/L		0.001	20-JUL-20
Cobalt (Co)-Total			<0.000005		mg/L		0.0005	20-JUL-20

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 16 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5159695							
WG3363936-1 MB								
Copper (Cu)-Total			0.00016		mg/L		0.001	20-JUL-20
Iron (Fe)-Total			0.0070		mg/L		0.02	20-JUL-20
Lead (Pb)-Total			0.00004		mg/L		0.00005	20-JUL-20
Lithium (Li)-Total			0.0006		mg/L		0.05	20-JUL-20
Magnesium (Mg)-Total			0.0038		mg/L		0.02	20-JUL-20
Manganese (Mn)-Total			<0.0002		mg/L		0.001	20-JUL-20
Molybdenum (Mo)-Total			0.000005		mg/L		0.001	20-JUL-20
Nickel (Ni)-Total			0.00008		mg/L		0.002	20-JUL-20
Phosphorus (P)-Total			<0.005		mg/L		0.05	20-JUL-20
Potassium (K)-Total			<0.01		mg/L		0.5	20-JUL-20
Rubidium (Rb)-Total			0.000002		mg/L		0.0002	20-JUL-20
Selenium (Se)-Total			0.000010		mg/L		0.00005	20-JUL-20
Silicon (Si)-Total			0.024		mg/L		0.1	20-JUL-20
Silver (Ag)-Total			0.000003		mg/L		0.0001	20-JUL-20
Sodium (Na)-Total			0.040		mg/L		0.1	20-JUL-20
Strontium (Sr)-Total			0.000100		mg/L		0.001	20-JUL-20
Sulfur (S)-Total			<0.2		mg/L		0.5	20-JUL-20
Tellurium (Te)-Total			<0.00002		mg/L		0.001	20-JUL-20
Thallium (Tl)-Total			<0.000005		mg/L		0.0003	20-JUL-20
Thorium (Th)-Total			<0.00001		mg/L		0.0001	20-JUL-20
Tin (Sn)-Total			<0.00001		mg/L		0.001	20-JUL-20
Titanium (Ti)-Total			<0.00001		mg/L		0.002	20-JUL-20
Tungsten (W)-Total			<0.00001		mg/L		0.01	20-JUL-20
Uranium (U)-Total			<0.0000005		mg/L		0.005	20-JUL-20
Vanadium (V)-Total			0.00015		mg/L		0.001	20-JUL-20
Zinc (Zn)-Total			0.0075	B	mg/L		0.003	20-JUL-20
Zirconium (Zr)-Total			<0.000002		mg/L		0.001	20-JUL-20
WG3364792-1 MB								
Aluminum (Al)-Total			0.0030		mg/L		0.005	20-JUL-20
Antimony (Sb)-Total			0.000020		mg/L		0.0006	20-JUL-20
Arsenic (As)-Total			0.00005		mg/L		0.001	20-JUL-20
Barium (Ba)-Total			0.00003		mg/L		0.01	20-JUL-20
Beryllium (Be)-Total			<0.0000001		mg/L		0.001	20-JUL-20
Bismuth (Bi)-Total			<0.00001		mg/L		0.001	20-JUL-20

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 17 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5159695							
WG3364792-1	MB							
Boron (B)-Total			<0.0005		mg/L		0.05	20-JUL-20
Cadmium (Cd)-Total			0.000001		mg/L		0.000017	20-JUL-20
Calcium (Ca)-Total			0.014		mg/L		0.2	20-JUL-20
Cesium (Cs)-Total			<0.000000E		mg/L		0.00001	20-JUL-20
Chromium (Cr)-Total			0.00014		mg/L		0.001	20-JUL-20
Cobalt (Co)-Total			0.000010		mg/L		0.0005	20-JUL-20
Copper (Cu)-Total			0.00012		mg/L		0.001	20-JUL-20
Iron (Fe)-Total			0.164	B	mg/L		0.02	20-JUL-20
Lead (Pb)-Total			0.00002		mg/L		0.00005	20-JUL-20
Lithium (Li)-Total			<0.0002		mg/L		0.05	20-JUL-20
Magnesium (Mg)-Total			0.0016		mg/L		0.02	20-JUL-20
Manganese (Mn)-Total			0.0004		mg/L		0.001	20-JUL-20
Molybdenum (Mo)-Total			0.000015		mg/L		0.001	20-JUL-20
Nickel (Ni)-Total			0.00012		mg/L		0.002	20-JUL-20
Phosphorus (P)-Total			<0.005		mg/L		0.05	20-JUL-20
Potassium (K)-Total			<0.01		mg/L		0.5	20-JUL-20
Rubidium (Rb)-Total			<0.000002		mg/L		0.0002	20-JUL-20
Selenium (Se)-Total			0.000015		mg/L		0.00005	20-JUL-20
Silicon (Si)-Total			0.026		mg/L		0.1	20-JUL-20
Silver (Ag)-Total			0.000001		mg/L		0.0001	20-JUL-20
Sodium (Na)-Total			0.015		mg/L		0.1	20-JUL-20
Strontium (Sr)-Total			0.000035		mg/L		0.001	20-JUL-20
Sulfur (S)-Total			<0.2		mg/L		0.5	20-JUL-20
Tellurium (Te)-Total			0.00004		mg/L		0.001	20-JUL-20
Thallium (Tl)-Total			<0.000005		mg/L		0.0003	20-JUL-20
Thorium (Th)-Total			<0.00001		mg/L		0.0001	20-JUL-20
Tin (Sn)-Total			<0.00001		mg/L		0.001	20-JUL-20
Titanium (Ti)-Total			0.00004		mg/L		0.002	20-JUL-20
Tungsten (W)-Total			<0.00001		mg/L		0.01	20-JUL-20
Uranium (U)-Total			<0.000000E		mg/L		0.005	20-JUL-20
Vanadium (V)-Total			0.00015		mg/L		0.001	20-JUL-20
Zinc (Zn)-Total			0.0025		mg/L		0.003	20-JUL-20
Zirconium (Zr)-Total			0.000004		mg/L		0.001	20-JUL-20

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 18 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5163962							
WG3367728-3	DUP	L2473477-5						
Aluminum (Al)-Total		0.0500	0.0500		mg/L	0.0	20	22-JUL-20
Antimony (Sb)-Total		0.000140	0.000135	RPD-NA	mg/L	N/A	20	22-JUL-20
Arsenic (As)-Total		0.00241	0.00229		mg/L	4.8	20	22-JUL-20
Barium (Ba)-Total		0.0282	0.0272		mg/L	3.5	20	22-JUL-20
Beryllium (Be)-Total		0.0000095	0.0000076	RPD-NA	mg/L	N/A	20	22-JUL-20
Bismuth (Bi)-Total		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	22-JUL-20
Boron (B)-Total		0.0230	0.0230	RPD-NA	mg/L	N/A	20	22-JUL-20
Cadmium (Cd)-Total		0.000005	0.000005	RPD-NA	mg/L	N/A	20	22-JUL-20
Calcium (Ca)-Total		48.4	48.4		mg/L	0.1	20	22-JUL-20
Cesium (Cs)-Total		0.0000090	0.0000080	RPD-NA	mg/L	N/A	20	22-JUL-20
Chromium (Cr)-Total		0.00026	0.00024	RPD-NA	mg/L	N/A	20	22-JUL-20
Cobalt (Co)-Total		0.000345	0.000340	RPD-NA	mg/L	N/A	20	22-JUL-20
Copper (Cu)-Total		0.00048	0.00048	RPD-NA	mg/L	N/A	20	22-JUL-20
Iron (Fe)-Total		0.420	0.414		mg/L	1.5	20	22-JUL-20
Lead (Pb)-Total		0.00005	0.00004	RPD-NA	mg/L	N/A	20	22-JUL-20
Lithium (Li)-Total		0.0068	0.0068	RPD-NA	mg/L	N/A	20	22-JUL-20
Magnesium (Mg)-Total		21.2	21.0		mg/L	0.9	20	22-JUL-20
Manganese (Mn)-Total		0.175	0.174		mg/L	1.0	20	22-JUL-20
Molybdenum (Mo)-Total		0.00124	0.00124		mg/L	0.3	20	22-JUL-20
Nickel (Ni)-Total		0.00144	0.00144	RPD-NA	mg/L	N/A	20	22-JUL-20
Phosphorus (P)-Total		0.080	0.075		mg/L	6.0	20	22-JUL-20
Potassium (K)-Total		1.91	1.89		mg/L	1.3	20	22-JUL-20
Rubidium (Rb)-Total		0.00255	0.00254		mg/L	0.4	20	22-JUL-20
Selenium (Se)-Total		0.000245	0.000270		mg/L	9.2	20	22-JUL-20
Silicon (Si)-Total		5.02	4.92		mg/L	2.1	20	22-JUL-20
Silver (Ag)-Total		<0.000001	<0.000001	RPD-NA	mg/L	N/A	20	22-JUL-20
Sodium (Na)-Total		7.50	7.61		mg/L	1.5	20	22-JUL-20
Strontium (Sr)-Total		0.141	0.140		mg/L	0.8	20	22-JUL-20
Sulfur (S)-Total		10.0	9.8		mg/L	1.7	20	22-JUL-20
Tellurium (Te)-Total		<0.00002	<0.00002	RPD-NA	mg/L	N/A	20	22-JUL-20
Thallium (Tl)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	22-JUL-20
Thorium (Th)-Total		0.00002	0.00002	RPD-NA	mg/L	N/A	20	22-JUL-20
Tin (Sn)-Total		0.00004	0.00007		mg/L			22-JUL-20

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 19 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5163962							
WG3367728-3	DUP	L2473477-5						
Tin (Sn)-Total		0.00004	0.00007	RPD-NA	mg/L	N/A	20	22-JUL-20
Titanium (Ti)-Total		0.00183	0.00196	RPD-NA	mg/L	N/A	20	22-JUL-20
Tungsten (W)-Total		0.00001	0.00001	RPD-NA	mg/L	N/A	20	22-JUL-20
Uranium (U)-Total		0.000428	0.000417	RPD-NA	mg/L	N/A	20	22-JUL-20
Vanadium (V)-Total		0.00070	0.00075	RPD-NA	mg/L	N/A	20	22-JUL-20
Zinc (Zn)-Total		0.0025	0.0010	RPD-NA	mg/L	N/A	20	22-JUL-20
Zirconium (Zr)-Total		0.000230	0.000228	RPD-NA	mg/L	N/A	20	22-JUL-20
WG3367728-2		LCS						
Aluminum (Al)-Total			100.8		%		80-120	22-JUL-20
Antimony (Sb)-Total			103.5		%		80-120	22-JUL-20
Arsenic (As)-Total			103.9		%		80-120	22-JUL-20
Barium (Ba)-Total			109.5		%		80-120	22-JUL-20
Beryllium (Be)-Total			95.4		%		80-120	22-JUL-20
Bismuth (Bi)-Total			103.5		%		80-120	22-JUL-20
Boron (B)-Total			95.2		%		80-120	22-JUL-20
Cadmium (Cd)-Total			100.3		%		80-120	22-JUL-20
Calcium (Ca)-Total			103.2		%		80-120	22-JUL-20
Cesium (Cs)-Total			103.2		%		80-120	22-JUL-20
Chromium (Cr)-Total			104.2		%		80-120	22-JUL-20
Cobalt (Co)-Total			101.0		%		80-120	22-JUL-20
Copper (Cu)-Total			99.8		%		80-120	22-JUL-20
Iron (Fe)-Total			118.2		%		80-120	22-JUL-20
Lead (Pb)-Total			101.2		%		80-120	22-JUL-20
Lithium (Li)-Total			94.7		%		80-120	22-JUL-20
Magnesium (Mg)-Total			109.2		%		80-120	22-JUL-20
Manganese (Mn)-Total			102.0		%		80-120	22-JUL-20
Molybdenum (Mo)-Total			101.7		%		80-120	22-JUL-20
Nickel (Ni)-Total			100.8		%		80-120	22-JUL-20
Phosphorus (P)-Total			106.5		%		80-120	22-JUL-20
Potassium (K)-Total			108.4		%		80-120	22-JUL-20
Rubidium (Rb)-Total			106.5		%		80-120	22-JUL-20
Selenium (Se)-Total			99.96		%		80-120	22-JUL-20
Silicon (Si)-Total			108.2		%		80-120	22-JUL-20

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 20 of 27

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5163962							
WG3367728-2 LCS								
Silver (Ag)-Total			104.0		%		80-120	22-JUL-20
Sodium (Na)-Total			100.8		%		80-120	22-JUL-20
Strontium (Sr)-Total			98.3		%		80-120	22-JUL-20
Sulfur (S)-Total			92.0		%		80-120	22-JUL-20
Tellurium (Te)-Total			96.5		%		80-120	22-JUL-20
Thallium (Tl)-Total			101.4		%		80-120	22-JUL-20
Thorium (Th)-Total			101.3		%		80-120	22-JUL-20
Tin (Sn)-Total			99.8		%		80-120	22-JUL-20
Titanium (Ti)-Total			98.0		%		80-120	22-JUL-20
Tungsten (W)-Total			104.8		%		80-120	22-JUL-20
Uranium (U)-Total			99.96		%		80-120	22-JUL-20
Vanadium (V)-Total			105.0		%		80-120	22-JUL-20
Zinc (Zn)-Total			101.5		%		80-120	22-JUL-20
Zirconium (Zr)-Total			100.4		%		80-120	22-JUL-20
WG3367728-1 MB								
Aluminum (Al)-Total			0.0008		mg/L		0.005	22-JUL-20
Antimony (Sb)-Total			0.000015		mg/L		0.0006	22-JUL-20
Arsenic (As)-Total			0.00003		mg/L		0.001	22-JUL-20
Barium (Ba)-Total			0.00002		mg/L		0.01	22-JUL-20
Beryllium (Be)-Total			<0.0000001		mg/L		0.001	22-JUL-20
Bismuth (Bi)-Total			<0.00001		mg/L		0.001	22-JUL-20
Boron (B)-Total			<0.0005		mg/L		0.05	22-JUL-20
Cadmium (Cd)-Total			<0.000001		mg/L		0.000017	22-JUL-20
Calcium (Ca)-Total			0.004		mg/L		0.2	22-JUL-20
Cesium (Cs)-Total			<0.0000005		mg/L		0.00001	22-JUL-20
Chromium (Cr)-Total			<0.00002		mg/L		0.001	22-JUL-20
Cobalt (Co)-Total			<0.000005		mg/L		0.0005	22-JUL-20
Copper (Cu)-Total			<0.00002		mg/L		0.001	22-JUL-20
Iron (Fe)-Total			<0.0005		mg/L		0.02	22-JUL-20
Lead (Pb)-Total			<0.00001		mg/L		0.00005	22-JUL-20
Lithium (Li)-Total			<0.0002		mg/L		0.05	22-JUL-20
Magnesium (Mg)-Total			0.0006		mg/L		0.02	22-JUL-20
Manganese (Mn)-Total			<0.0002		mg/L		0.001	22-JUL-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.001	22-JUL-20

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 21 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R5163962							
WG3367728-1	MB							
Nickel (Ni)-Total			<0.00002		mg/L		0.002	22-JUL-20
Phosphorus (P)-Total			<0.005		mg/L		0.05	22-JUL-20
Potassium (K)-Total			<0.01		mg/L		0.5	22-JUL-20
Rubidium (Rb)-Total			<0.000002		mg/L		0.0002	22-JUL-20
Selenium (Se)-Total			<0.000005		mg/L		0.00005	22-JUL-20
Silicon (Si)-Total			0.016		mg/L		0.1	22-JUL-20
Silver (Ag)-Total			<0.000001		mg/L		0.0001	22-JUL-20
Sodium (Na)-Total			<0.005		mg/L		0.1	22-JUL-20
Strontium (Sr)-Total			0.000015		mg/L		0.001	22-JUL-20
Sulfur (S)-Total			<0.2		mg/L		0.5	22-JUL-20
Tellurium (Te)-Total			0.00004		mg/L		0.001	22-JUL-20
Thallium (Tl)-Total			<0.000005		mg/L		0.0003	22-JUL-20
Thorium (Th)-Total			<0.00001		mg/L		0.0001	22-JUL-20
Tin (Sn)-Total			<0.00001		mg/L		0.001	22-JUL-20
Titanium (Ti)-Total			0.00001		mg/L		0.002	22-JUL-20
Tungsten (W)-Total			<0.00001		mg/L		0.01	22-JUL-20
Uranium (U)-Total			<0.0000005		mg/L		0.005	22-JUL-20
Vanadium (V)-Total			0.00010		mg/L		0.001	22-JUL-20
Zinc (Zn)-Total			<0.0005		mg/L		0.003	22-JUL-20
Zirconium (Zr)-Total			<0.000002		mg/L		0.001	22-JUL-20
WG3367728-4	MS	L2474343-3						
Aluminum (Al)-Total			99.1		%		70-130	22-JUL-20
Antimony (Sb)-Total			109.1		%		70-130	22-JUL-20
Arsenic (As)-Total			108.1		%		70-130	22-JUL-20
Barium (Ba)-Total			N/A	MS-B	%		-	22-JUL-20
Beryllium (Be)-Total			97.3		%		70-130	22-JUL-20
Bismuth (Bi)-Total			99.5		%		70-130	22-JUL-20
Boron (B)-Total			100.7		%		70-130	22-JUL-20
Cadmium (Cd)-Total			107.1		%		70-130	22-JUL-20
Calcium (Ca)-Total			N/A	MS-B	%		-	22-JUL-20
Cesium (Cs)-Total			108.5		%		70-130	22-JUL-20
Chromium (Cr)-Total			106.3		%		70-130	22-JUL-20
Cobalt (Co)-Total			103.3		%		70-130	22-JUL-20
Copper (Cu)-Total			101.4		%		70-130	22-JUL-20

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 22 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5163962							
WG3367728-4	MS	L2474343-3						
Iron (Fe)-Total			101.7		%		70-130	22-JUL-20
Lead (Pb)-Total			100.3		%		70-130	22-JUL-20
Lithium (Li)-Total			85.1		%		70-130	22-JUL-20
Magnesium (Mg)-Total			N/A	MS-B	%		-	22-JUL-20
Manganese (Mn)-Total			N/A	MS-B	%		-	22-JUL-20
Molybdenum (Mo)-Total			N/A	MS-B	%		-	22-JUL-20
Nickel (Ni)-Total			102.9		%		70-130	22-JUL-20
Phosphorus (P)-Total			109.9		%		70-130	22-JUL-20
Potassium (K)-Total			N/A	MS-B	%		-	22-JUL-20
Rubidium (Rb)-Total			108.6		%		70-130	22-JUL-20
Selenium (Se)-Total			103.7		%		70-130	22-JUL-20
Silicon (Si)-Total			101.5		%		70-130	22-JUL-20
Silver (Ag)-Total			106.8		%		70-130	22-JUL-20
Sodium (Na)-Total			N/A	MS-B	%		-	22-JUL-20
Strontium (Sr)-Total			N/A	MS-B	%		-	22-JUL-20
Sulfur (S)-Total			N/A	MS-B	%		-	22-JUL-20
Tellurium (Te)-Total			104.9		%		70-130	22-JUL-20
Thallium (Tl)-Total			96.4		%		70-130	22-JUL-20
Thorium (Th)-Total			102.5		%		70-130	22-JUL-20
Tin (Sn)-Total			105.2		%		70-130	22-JUL-20
Titanium (Ti)-Total			105.3		%		70-130	22-JUL-20
Tungsten (W)-Total			107.5		%		70-130	22-JUL-20
Uranium (U)-Total			98.1		%		70-130	22-JUL-20
Vanadium (V)-Total			109.4		%		70-130	22-JUL-20
Zinc (Zn)-Total			103.5		%		70-130	22-JUL-20
Zirconium (Zr)-Total			106.2		%		70-130	22-JUL-20
NH3-F-WT		Effluent						
Batch	R5159863							
WG3363159-3	DUP	WG3363159-5						
Ammonia, Total (as N)		4.09	4.42		mg/L	7.7	25	20-JUL-20
WG3363159-2	LCS							
Ammonia, Total (as N)			103.1		%		70-130	20-JUL-20
WG3363159-1	MB							
Ammonia, Total (as N)			0.004		mg/L		0.02	20-JUL-20

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 24 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OGG-TOT-WT		Effluent						
Batch	R5154513							
WG3363613-1	MB							
Oil and Grease, Total			0.4		mg/L		1	16-JUL-20
Batch	R5159679							
WG3366226-2	LCS							
Oil and Grease, Total			90.1		%		50-150	20-JUL-20
WG3366226-1	MB							
Oil and Grease, Total			0.6		mg/L		1	20-JUL-20
PH-MISA-TB		Effluent						
Batch	R5153577							
WG3361984-3	DUP	L2473477-3						
pH		7.71	7.71	J	pH	0.00	0.2	14-JUL-20
WG3361984-2	LCS							
pH			6.99		pH		6.9-7.1	14-JUL-20
SO4-MISA-IC-TB		Effluent						
Batch	R5153675							
WG3361925-3	DUP	L2473150-2						
Sulfate (SO4)		336	290		mg/L	14	20	14-JUL-20
WG3361925-2	LCS							
Sulfate (SO4)			103.5		%		90-110	14-JUL-20
WG3361929-4	LCS							
Sulfate (SO4)			103.5		%		90-110	14-JUL-20
WG3362030-2	LCS							
Sulfate (SO4)			94.1		%		90-110	14-JUL-20
WG3361925-1	MB							
Sulfate (SO4)			<0.05		mg/L		0.3	14-JUL-20
WG3361929-3	MB							
Sulfate (SO4)			<0.05		mg/L		0.3	14-JUL-20
WG3362030-1	MB							
Sulfate (SO4)			<0.05		mg/L		0.3	14-JUL-20
TDS-MISA-TB		Effluent						
Batch	R5154601							
WG3363186-2	LCS							
Total Dissolved Solids			96.8		%		85-115	15-JUL-20
WG3363186-1	MB							
Total Dissolved Solids			4		mg/L		10	15-JUL-20

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Page 25 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TDS-MISA-TB		Effluent						
Batch	R5157228							
WG3363865-3	DUP	L2473477-5						
Total Dissolved Solids		252	290		mg/L	14	20	16-JUL-20
WG3363865-2	LCS							
Total Dissolved Solids			96.9		%		85-115	16-JUL-20
WG3363865-1	MB							
Total Dissolved Solids			<2		mg/L		10	16-JUL-20
TKN-WT		Effluent						
Batch	R5155093							
WG3363073-3	DUP	WG3363073-5						
Total Kjeldahl Nitrogen		<0.05	<0.05	RPD-NA	mg/L	N/A	20	16-JUL-20
WG3363073-2	LCS							
Total Kjeldahl Nitrogen			104.0		%		75-125	16-JUL-20
WG3363073-1	MB							
Total Kjeldahl Nitrogen			<0.05		mg/L		0.18	16-JUL-20
WG3363073-4	MS	WG3363073-5						
Total Kjeldahl Nitrogen			102.0		%		70-130	16-JUL-20
TSS-MISA-TB		Effluent						
Batch	R5154504							
WG3363185-2	LCS							
Total Suspended Solids			93.0		%		85-115	15-JUL-20
WG3363185-1	MB							
Total Suspended Solids			<0.5		mg/L		3	15-JUL-20
Batch	R5157199							
WG3363860-3	DUP	L2473477-5						
Total Suspended Solids		2.5	2.0	RPD-NA	mg/L	N/A	20	16-JUL-20
WG3363860-2	LCS							
Total Suspended Solids			100.3		%		85-115	16-JUL-20
WG3363860-1	MB							
Total Suspended Solids			<0.5		mg/L		3	16-JUL-20

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Page 26 of 27

Contact: Amanda Jacobs

Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L2473477

Report Date: 31-JUL-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Page 27 of 27

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Colour, True	1	10-JUL-20 10:05	14-JUL-20 13:00	3	4	days	EHTR
	2	10-JUL-20 12:00	14-JUL-20 13:00	3	4	days	EHTR
	3	10-JUL-20 10:40	14-JUL-20 13:00	3	4	days	EHTR
	4	10-JUL-20 11:00	14-JUL-20 13:00	3	4	days	EHTR
	5	10-JUL-20 10:20	14-JUL-20 13:00	3	4	days	EHTR
Turbidity	1	10-JUL-20 10:05	14-JUL-20 16:15	3	4	days	EHTR
	2	10-JUL-20 12:00	14-JUL-20 16:15	3	4	days	EHTR
	3	10-JUL-20 10:40	14-JUL-20 16:15	3	4	days	EHTR
	4	10-JUL-20 11:00	14-JUL-20 16:15	3	4	days	EHTR
	5	10-JUL-20 10:20	14-JUL-20 16:15	3	4	days	EHTR
Anions and Nutrients							
Filtr./Pres. for carbons and nutrients	3	10-JUL-20 10:40	14-JUL-20 15:31	3	4	days	EHTR
	4	10-JUL-20 11:00	14-JUL-20 15:31	3	4	days	EHTR
	5	10-JUL-20 10:20	14-JUL-20 15:31	3	4	days	EHTR
Organic / Inorganic Carbon							
Dissolved Organic Carbon for MISA	3	10-JUL-20 10:40	16-JUL-20 14:00	3	6	days	EHTR
	4	10-JUL-20 11:00	16-JUL-20 14:00	3	6	days	EHTR
	5	10-JUL-20 10:20	16-JUL-20 14:00	3	6	days	EHTR

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2473477 were received on 14-JUL-20 09:20.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Your P.O. #: L2473477

Attention: Christine Paradis

ALS Laboratory Group
Environmental Div.
1081 Barton St.
Thunder Bay, ON
Canada P7B 5N3

Report Date: 2020/07/31
Report #: R6268783
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C0H9474

Received: 2020/07/17, 12:31

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Radium Isotopes by Alpha Spectrometry (1)	1	N/A	2020/07/29	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by BV Labs, unless otherwise agreed in writing. BV Labs is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by BV Labs, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Radium-226 results have not been corrected for blanks.



Your P.O. #: L2473477

Attention: Christine Paradis

ALS Laboratory Group
Environmental Div.
1081 Barton St.
Thunder Bay, ON
Canada P7B 5N3

Report Date: 2020/07/31
Report #: R6268783
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C0H9474
Received: 2020/07/17, 12:31

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Mayank Nigam, Project Manager
Email: Mayank.Nigam@bvlabs.com
Phone# (905) 826-3080

=====
This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

BV Labs Job #: COH9474
Report Date: 2020/07/31

ALS Laboratory Group
Your P.O. #: L2473477

RESULTS OF ANALYSES OF WATER

BV Labs ID		NDG006		
Sampling Date		2020/07/10		
	UNITS	L2473477-4 SW22A	RDL	QC Batch
Radium-226	Bq/L	<0.010	0.010	6849682
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: COH9474
Report Date: 2020/07/31

ALS Laboratory Group
Your P.O. #: L2473477

TEST SUMMARY

BV Labs ID: NDG006
Sample ID: L2473477-4 SW22A
Matrix: Water

Collected: 2020/07/10
Shipped:
Received: 2020/07/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6849682	N/A	2020/07/29	Blake Barber



BUREAU
VERITAS

BV Labs Job #: COH9474

Report Date: 2020/07/31

ALS Laboratory Group

Your P.O. #: L2473477

GENERAL COMMENTS

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: COH9474
Report Date: 2020/07/31

ALS Laboratory Group
Your P.O. #: L2473477

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
6849682	BB1	Spiked Blank	Radium-226	2020/07/29		97	%	85 - 115
6849682	BB1	Method Blank	Radium-226	2020/07/29	<0.010		Bq/L	
6849682	BB1	RPD	Radium-226	2020/07/29	NC		%	N/A

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference $\leq 2x$ RDL).



BUREAU
VERITAS

BV Labs Job #: COH9474

Report Date: 2020/07/31

ALS Laboratory Group

Your P.O. #: L2473477

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

<original signed by>

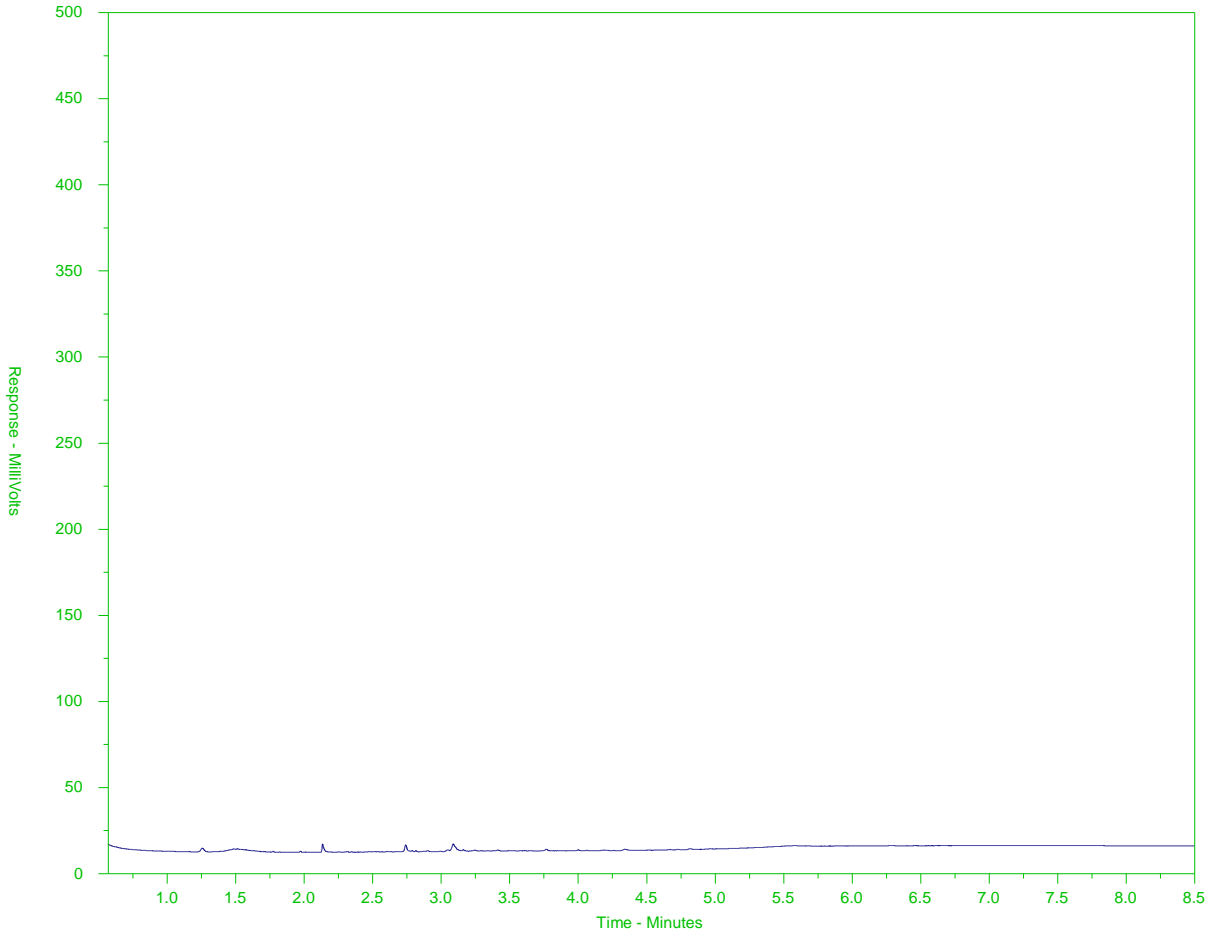
Kurt Headrick, Ph.D., C. Chem., Laboratory Manager

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: WG3361555-C-3#L2473477-C-2
 Client Sample ID: TRAVEL BLANK - SUREFACE WATER



← F2 →		← F3 →		← F4 →	
nC10	nC16	nC34	nC50		
174°C	287°C	481°C	575°C		
346°F	549°F	898°F	1067°F		
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →		
← Diesel/ Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

130161	SW21A	21.06	7.24	3.11	10-Jul-20	10:20	Water	x												
Drinking Water (DW) Samples¹ (client use)		Special Instructions / Specify Criteria to add on report (client Use)										SAMPLE CONDITION AS RECEIVED (lab use only)								
Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		MISA [Template NGSWMISA]										Frozen <input type="checkbox"/> SIF Observations <input type="checkbox"/> Yes <input type="checkbox"/> No								
Are samples for human drinking water use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No												Ice packs <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody seal intact <input type="checkbox"/> Yes <input type="checkbox"/> No								
												Cooling Initiated <input type="checkbox"/>								
										INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C						
										12.3										
SHIPMENT RELEASE (client use)						INITIAL SHIPMENT RECEPTION (lab use only)						FINAL SHIPMENT RECEPTION (lab use only)								
Released by: Amanda Jacobs		Date: 2020-07-13		Time: 8:00		Received by: AL		Date: July 14/20		Time: 9:20		Received by:		Date:		Time:				

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION WHITE - LABORATORY COPY YELLOW - CLIENT COPY NA-FM-0326e v09 Front/04 January 2014


Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.



L2473477-COFC

JD



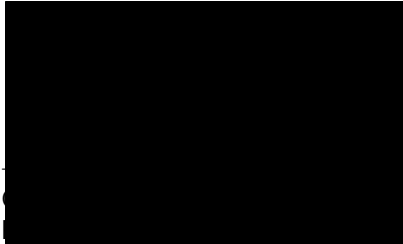
New Gold Inc. Rainy River Project
ATTN: Amanda Jacobs
24 Marr Rd
Barwick ON POW 1A0

Date Received: 14-AUG-20
Report Date: 09-SEP-20 14:42 (MT)
Version: FINAL

Client Phone: 807-482-0931

Certificate of Analysis

Lab Work Order #: L2488710
Project P.O. #: 4500038941
Job Reference: SURFACE WATER
C of C Numbers:
Legal Site Desc:



[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3, Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598



ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-1 SW03							
Sampled By: Client on 11-AUG-20 @ 08:20							
Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	8.5		0	mg/L		17-AUG-20	R5189926
pH, Client Supplied	7.36		0.10	pH		17-AUG-20	R5189926
Temperature, Client Supplied	16.3		0	Degree C		17-AUG-20	R5189926
Physical Tests							
Color, True	131		2.0	CU		15-AUG-20	R5189486
Conductivity (EC)	330		1.0	uS/cm		15-AUG-20	R5189745
Hardness (as CaCO3)	164		0.51	mg/L		19-AUG-20	
pH	7.84		0.10	pH		15-AUG-20	R5189745
Total Suspended Solids	11.5		3.0	mg/L		17-AUG-20	R5190753
Total Dissolved Solids	264		20	mg/L		17-AUG-20	R5190730
Turbidity	24.1		0.10	NTU		14-AUG-20	R5189283
Anions and Nutrients							
Acidity (as CaCO3)	2.8		2.0	mg/L		16-AUG-20	R5190273
Alkalinity, Total (as CaCO3)	161		2.0	mg/L		15-AUG-20	R5189745
Ammonia, Total (as N)	0.038	<T	0.0050	mg/L		21-AUG-20	R5195703
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		21-AUG-20	
Chloride (Cl)	8.19		0.10	mg/L	14-AUG-20	14-AUG-20	R5189577
Fluoride (F)	0.038		0.020	mg/L	14-AUG-20	14-AUG-20	R5189577
Nitrate (as N)	0.222	<T	0.020	mg/L		14-AUG-20	R5189577
Nitrite (as N)	0.002	<DL	0.010	mg/L		14-AUG-20	R5189577
Orthophosphate-Dissolved (as P)	0.0108		0.0030	mg/L	14-AUG-20	15-AUG-20	R5189607
Sulfate (SO4)	15.2		0.30	mg/L		14-AUG-20	R5189577
Cyanides							
Cyanide, Weak Acid Diss	0.0002	<DL	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Total	0.0006	<DL	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Free	0.0002	<DL	0.0020	mg/L		17-AUG-20	R5190691
Organic / Inorganic Carbon							
Dissolved Organic Carbon	37.6	DLM	5.0	mg/L	14-AUG-20	20-AUG-20	R5194497
Total Organic Carbon	53.3	DLM	5.0	mg/L		20-AUG-20	R5194520
Total Metals							
Aluminum (Al)-Total	0.866		0.0050	mg/L		18-AUG-20	R5191493
Antimony (Sb)-Total	0.000070	<DL	0.00060	mg/L		18-AUG-20	R5191493
Arsenic (As)-Total	0.00193	<T	0.0010	mg/L		18-AUG-20	R5191493
Barium (Ba)-Total	0.0442		0.010	mg/L		18-AUG-20	R5191493
Beryllium (Be)-Total	0.0000423	<DL	0.0010	mg/L		18-AUG-20	R5191493
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-AUG-20	R5191493
Boron (B)-Total	0.0170	<DL	0.050	mg/L		18-AUG-20	R5191493
Cadmium (Cd)-Total	0.000026	<T	0.000017	mg/L		18-AUG-20	R5191493
Calcium (Ca)-Total	53.2		0.20	mg/L		18-AUG-20	R5191493
Cesium (Cs)-Total	0.000128		0.000010	mg/L		18-AUG-20	R5191493
Chromium (Cr)-Total	0.00176		0.0010	mg/L		18-AUG-20	R5191493
Cobalt (Co)-Total	0.000740	<T	0.00050	mg/L		18-AUG-20	R5191493

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-1 SW03							
Sampled By: Client on 11-AUG-20 @ 08:20							
Matrix: Water							
Total Metals							
Copper (Cu)-Total	0.0106		0.0010	mg/L		18-AUG-20	R5191493
Iron (Fe)-Total	1.15		0.020	mg/L		18-AUG-20	R5191493
Lead (Pb)-Total	0.00045	<T	0.000050	mg/L		18-AUG-20	R5191493
Lithium (Li)-Total	0.0062	<DL	0.050	mg/L		18-AUG-20	R5191493
Magnesium (Mg)-Total	10.4		0.020	mg/L		18-AUG-20	R5191493
Manganese (Mn)-Total	0.106		0.0010	mg/L		18-AUG-20	R5191493
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190765
Molybdenum (Mo)-Total	0.000485	<DL	0.0010	mg/L		18-AUG-20	R5191493
Nickel (Ni)-Total	0.00604	<T	0.0020	mg/L		18-AUG-20	R5191493
Phosphorus (P)-Total	0.055		0.050	mg/L		18-AUG-20	R5191493
Potassium (K)-Total	2.54		0.50	mg/L		18-AUG-20	R5191493
Rubidium (Rb)-Total	0.00788		0.00020	mg/L		18-AUG-20	R5191493
Selenium (Se)-Total	0.000345	<T	0.000050	mg/L		18-AUG-20	R5191493
Silicon (Si)-Total	6.17		0.10	mg/L		18-AUG-20	R5191493
Silver (Ag)-Total	0.000006	<DL	0.00010	mg/L		18-AUG-20	R5191493
Sodium (Na)-Total	3.33		0.10	mg/L		18-AUG-20	R5191493
Strontium (Sr)-Total	0.0817		0.0010	mg/L		18-AUG-20	R5191493
Sulfur (S)-Total	5.4		0.50	mg/L		18-AUG-20	R5191493
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		18-AUG-20	R5191493
Thallium (Tl)-Total	0.000015	<DL	0.00030	mg/L		18-AUG-20	R5191493
Thorium (Th)-Total	0.00012		0.00010	mg/L		18-AUG-20	R5191493
Tin (Sn)-Total	0.00019	<DL	0.0010	mg/L		18-AUG-20	R5191493
Titanium (Ti)-Total	0.0295		0.0020	mg/L		18-AUG-20	R5191493
Tungsten (W)-Total	0.00003	<DL	0.010	mg/L		18-AUG-20	R5191493
Uranium (U)-Total	0.000532	<DL	0.0050	mg/L		18-AUG-20	R5191493
Vanadium (V)-Total	0.00330	<T	0.0010	mg/L		18-AUG-20	R5191493
Zinc (Zn)-Total	0.0080	<T	0.0030	mg/L		18-AUG-20	R5191493
Zirconium (Zr)-Total	0.000762	<DL	0.0010	mg/L		18-AUG-20	R5191493
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					17-AUG-20	R5190146
Aluminum (Al)-Dissolved	0.0286	<T	0.0050	mg/L		17-AUG-20	R5190702
Antimony (Sb)-Dissolved	0.000060	<DL	0.00060	mg/L		17-AUG-20	R5190702
Arsenic (As)-Dissolved	0.00169	<T	0.0010	mg/L		17-AUG-20	R5190702
Barium (Ba)-Dissolved	0.0413		0.010	mg/L		17-AUG-20	R5190702
Beryllium (Be)-Dissolved	0.000010	<DL	0.0010	mg/L		17-AUG-20	R5190702
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-AUG-20	R5190702
Boron (B)-Dissolved	0.0155	<DL	0.050	mg/L		17-AUG-20	R5190702
Cadmium (Cd)-Dissolved	0.0000140	<DL	0.000017	mg/L		17-AUG-20	R5190702
Calcium (Ca)-Dissolved	49.9		0.20	mg/L		17-AUG-20	R5190702
Cesium (Cs)-Dissolved	0.0000050	<DL	0.000010	mg/L		17-AUG-20	R5190702
Chromium (Cr)-Dissolved	0.00014	<DL	0.0010	mg/L		17-AUG-20	R5190702

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-1 SW03 Sampled By: Client on 11-AUG-20 @ 08:20 Matrix: Water							
Dissolved Metals							
Cobalt (Co)-Dissolved	0.000208	<DL	0.00050	mg/L		17-AUG-20	R5190702
Copper (Cu)-Dissolved	0.00868	<T	0.0010	mg/L		17-AUG-20	R5190702
Iron (Fe)-Dissolved	0.175		0.020	mg/L		17-AUG-20	R5190702
Lead (Pb)-Dissolved	0.00005	<T	0.000050	mg/L		17-AUG-20	R5190702
Lithium (Li)-Dissolved	0.0056	<DL	0.050	mg/L		17-AUG-20	R5190702
Magnesium (Mg)-Dissolved	9.48		0.020	mg/L		17-AUG-20	R5190702
Manganese (Mn)-Dissolved	0.0783		0.0010	mg/L		17-AUG-20	R5190702
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190764
Molybdenum (Mo)-Dissolved	0.000466	<DL	0.0010	mg/L		17-AUG-20	R5190702
Nickel (Ni)-Dissolved	0.00480	<T	0.0020	mg/L		17-AUG-20	R5190702
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		17-AUG-20	R5190702
Potassium (K)-Dissolved	2.58		0.50	mg/L		17-AUG-20	R5190702
Rubidium (Rb)-Dissolved	0.00668		0.00020	mg/L		17-AUG-20	R5190702
Selenium (Se)-Dissolved	0.000285	<T	0.000050	mg/L		17-AUG-20	R5190702
Silicon (Si)-Dissolved	4.67		0.050	mg/L		17-AUG-20	R5190702
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-AUG-20	R5190702
Sodium (Na)-Dissolved	3.11		0.10	mg/L		17-AUG-20	R5190702
Strontium (Sr)-Dissolved	0.0820		0.0010	mg/L		17-AUG-20	R5190702
Sulfur (S)-Dissolved	5.2		0.50	mg/L		17-AUG-20	R5190702
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-AUG-20	R5190702
Thallium (Tl)-Dissolved	0.000008	<DL	0.00030	mg/L		17-AUG-20	R5190702
Thorium (Th)-Dissolved	0.00003	<DL	0.00010	mg/L		17-AUG-20	R5190702
Tin (Sn)-Dissolved	0.000125	<DL	0.0010	mg/L		17-AUG-20	R5190702
Titanium (Ti)-Dissolved	0.00086	<DL	0.0020	mg/L		17-AUG-20	R5190702
Tungsten (W)-Dissolved	0.000030	<DL	0.010	mg/L		17-AUG-20	R5190702
Uranium (U)-Dissolved	0.000538	<DL	0.0050	mg/L		17-AUG-20	R5190702
Vanadium (V)-Dissolved	0.00120	<T	0.0010	mg/L		17-AUG-20	R5190702
Zinc (Zn)-Dissolved	0.0028	<DL	0.0030	mg/L		17-AUG-20	R5190702
Zirconium (Zr)-Dissolved	0.000384	<DL	0.0010	mg/L		17-AUG-20	R5190702
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-AUG-20	R5191903
Chemical Oxygen Demand	80		20	mg/L	14-AUG-20	15-AUG-20	R5189598
Oil and Grease, Total	0.8	<DL	1.0	mg/L	18-AUG-20	18-AUG-20	R5190724
L2488710-2 SW23 Sampled By: Client on 11-AUG-20 @ 10:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	0		0	mg/L		17-AUG-20	R5189926
pH, Client Supplied	7.56		0.10	pH		17-AUG-20	R5189926
Temperature, Client Supplied	16.94		0	Degree C		17-AUG-20	R5189926
Physical Tests							
Color, True	99.8		2.0	CU		14-AUG-20	R5189238

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-2 SW23							
Sampled By: Client on 11-AUG-20 @ 10:00							
Matrix: Water							
Physical Tests							
Conductivity (EC)	363		1.0	uS/cm		15-AUG-20	R5189745
Hardness (as CaCO3)	184		0.51	mg/L		19-AUG-20	
pH	7.93		0.10	pH		15-AUG-20	R5189745
Total Suspended Solids	10.0		3.0	mg/L		17-AUG-20	R5190753
Total Dissolved Solids	282		20	mg/L		17-AUG-20	R5190730
Turbidity	28.5		0.10	NTU		14-AUG-20	R5189283
Anions and Nutrients							
Acidity (as CaCO3)	2.0		2.0	mg/L		16-AUG-20	R5190273
Alkalinity, Total (as CaCO3)	195		2.0	mg/L		15-AUG-20	R5189745
Ammonia, Total (as N)	0.054	<T	0.0050	mg/L		21-AUG-20	R5195703
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		21-AUG-20	
Chloride (Cl)	3.92		0.10	mg/L	14-AUG-20	14-AUG-20	R5189577
Fluoride (F)	0.077		0.020	mg/L	14-AUG-20	14-AUG-20	R5189577
Nitrate (as N)	<0.002	<W	0.020	mg/L		14-AUG-20	R5189577
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-AUG-20	R5189577
Orthophosphate-Dissolved (as P)	0.0267		0.0030	mg/L	14-AUG-20	15-AUG-20	R5189607
Sulfate (SO4)	13.0		0.30	mg/L		14-AUG-20	R5189577
Cyanides							
Cyanide, Weak Acid Diss	0.0028	<T	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Total	0.0022	<T	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Free	0.0027		0.0020	mg/L		17-AUG-20	R5190691
Organic / Inorganic Carbon							
Dissolved Organic Carbon	34.2	DLM	5.0	mg/L	14-AUG-20	20-AUG-20	R5194497
Total Organic Carbon	64.2	DLM	5.0	mg/L		20-AUG-20	R5194520
Total Metals							
Aluminum (Al)-Total	0.784		0.0050	mg/L		18-AUG-20	R5191493
Antimony (Sb)-Total	0.000130	<DL	0.00060	mg/L		18-AUG-20	R5191493
Arsenic (As)-Total	0.00312	<T	0.0010	mg/L		18-AUG-20	R5191493
Barium (Ba)-Total	0.0308		0.010	mg/L		18-AUG-20	R5191493
Beryllium (Be)-Total	0.0000512	<DL	0.0010	mg/L		18-AUG-20	R5191493
Bismuth (Bi)-Total	0.00001	<DL	0.0010	mg/L		18-AUG-20	R5191493
Boron (B)-Total	0.0220	<DL	0.050	mg/L		18-AUG-20	R5191493
Cadmium (Cd)-Total	0.000034	<T	0.000017	mg/L		18-AUG-20	R5191493
Calcium (Ca)-Total	45.9		0.20	mg/L		18-AUG-20	R5191493
Cesium (Cs)-Total	0.000109		0.000010	mg/L		18-AUG-20	R5191493
Chromium (Cr)-Total	0.00148		0.0010	mg/L		18-AUG-20	R5191493
Cobalt (Co)-Total	0.000830	<T	0.00050	mg/L		18-AUG-20	R5191493
Copper (Cu)-Total	0.00276	<T	0.0010	mg/L		18-AUG-20	R5191493
Iron (Fe)-Total	1.43		0.020	mg/L		18-AUG-20	R5191493
Lead (Pb)-Total	0.00077	<T	0.000050	mg/L		18-AUG-20	R5191493
Lithium (Li)-Total	0.0078	<DL	0.050	mg/L		18-AUG-20	R5191493
Magnesium (Mg)-Total	20.0		0.020	mg/L		18-AUG-20	R5191493

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-2 SW23							
Sampled By: Client on 11-AUG-20 @ 10:00							
Matrix: Water							
Total Metals							
Manganese (Mn)-Total	0.516		0.0010	mg/L		18-AUG-20	R5191493
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		18-AUG-20	R5190765
Molybdenum (Mo)-Total	0.000765	<DL	0.0010	mg/L		18-AUG-20	R5191493
Nickel (Ni)-Total	0.00340	<T	0.0020	mg/L		18-AUG-20	R5191493
Phosphorus (P)-Total	0.105		0.050	mg/L		18-AUG-20	R5191493
Potassium (K)-Total	1.55		0.50	mg/L		18-AUG-20	R5191493
Rubidium (Rb)-Total	0.00321		0.00020	mg/L		18-AUG-20	R5191493
Selenium (Se)-Total	0.000255	<T	0.000050	mg/L		18-AUG-20	R5191493
Silicon (Si)-Total	5.22		0.10	mg/L		18-AUG-20	R5191493
Silver (Ag)-Total	0.000006	<DL	0.00010	mg/L		18-AUG-20	R5191493
Sodium (Na)-Total	5.32		0.10	mg/L		18-AUG-20	R5191493
Strontium (Sr)-Total	0.111		0.0010	mg/L		18-AUG-20	R5191493
Sulfur (S)-Total	4.6		0.50	mg/L		18-AUG-20	R5191493
Tellurium (Te)-Total	0.00006	<DL	0.0010	mg/L		18-AUG-20	R5191493
Thallium (Tl)-Total	0.000015	<DL	0.00030	mg/L		18-AUG-20	R5191493
Thorium (Th)-Total	0.00016		0.00010	mg/L		18-AUG-20	R5191493
Tin (Sn)-Total	0.00045	<DL	0.0010	mg/L		18-AUG-20	R5191493
Titanium (Ti)-Total	0.0241		0.0020	mg/L		18-AUG-20	R5191493
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		18-AUG-20	R5191493
Uranium (U)-Total	0.000987	<DL	0.0050	mg/L		18-AUG-20	R5191493
Vanadium (V)-Total	0.00345	<T	0.0010	mg/L		18-AUG-20	R5191493
Zinc (Zn)-Total	0.0040	<T	0.0030	mg/L		18-AUG-20	R5191493
Zirconium (Zr)-Total	0.00111		0.0010	mg/L		18-AUG-20	R5191493
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					17-AUG-20	R5190146
Aluminum (Al)-Dissolved	0.0080	<T	0.0050	mg/L		17-AUG-20	R5190702
Antimony (Sb)-Dissolved	0.000125	<DL	0.00060	mg/L		17-AUG-20	R5190702
Arsenic (As)-Dissolved	0.00221	<T	0.0010	mg/L		17-AUG-20	R5190702
Barium (Ba)-Dissolved	0.0249		0.010	mg/L		17-AUG-20	R5190702
Beryllium (Be)-Dissolved	0.000016	<DL	0.0010	mg/L		17-AUG-20	R5190702
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-AUG-20	R5190702
Boron (B)-Dissolved	0.0205	<DL	0.050	mg/L		17-AUG-20	R5190702
Cadmium (Cd)-Dissolved	0.0000210	<T	0.000017	mg/L		17-AUG-20	R5190702
Calcium (Ca)-Dissolved	43.5		0.20	mg/L		17-AUG-20	R5190702
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		17-AUG-20	R5190702
Chromium (Cr)-Dissolved	0.00015	<DL	0.0010	mg/L		17-AUG-20	R5190702
Cobalt (Co)-Dissolved	0.000376	<DL	0.00050	mg/L		17-AUG-20	R5190702
Copper (Cu)-Dissolved	0.00180	<T	0.0010	mg/L		17-AUG-20	R5190702
Iron (Fe)-Dissolved	0.167		0.020	mg/L		17-AUG-20	R5190702
Lead (Pb)-Dissolved	0.00008	<T	0.000050	mg/L		17-AUG-20	R5190702
Lithium (Li)-Dissolved	0.0078	<DL	0.050	mg/L		17-AUG-20	R5190702

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-2 SW23 Sampled By: Client on 11-AUG-20 @ 10:00 Matrix: Water							
Dissolved Metals							
Magnesium (Mg)-Dissolved	18.3		0.020	mg/L		17-AUG-20	R5190702
Manganese (Mn)-Dissolved	0.439		0.0010	mg/L		17-AUG-20	R5190702
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190764
Molybdenum (Mo)-Dissolved	0.000716	<DL	0.0010	mg/L		17-AUG-20	R5190702
Nickel (Ni)-Dissolved	0.00220	<T	0.0020	mg/L		17-AUG-20	R5190702
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		17-AUG-20	R5190702
Potassium (K)-Dissolved	1.47		0.50	mg/L		17-AUG-20	R5190702
Rubidium (Rb)-Dissolved	0.00146		0.00020	mg/L		17-AUG-20	R5190702
Selenium (Se)-Dissolved	0.000200	<T	0.000050	mg/L		17-AUG-20	R5190702
Silicon (Si)-Dissolved	3.54		0.050	mg/L		17-AUG-20	R5190702
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-AUG-20	R5190702
Sodium (Na)-Dissolved	4.95		0.10	mg/L		17-AUG-20	R5190702
Strontium (Sr)-Dissolved	0.113		0.0010	mg/L		17-AUG-20	R5190702
Sulfur (S)-Dissolved	5.0		0.50	mg/L		17-AUG-20	R5190702
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-AUG-20	R5190702
Thallium (Tl)-Dissolved	0.000002	<DL	0.00030	mg/L		17-AUG-20	R5190702
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		17-AUG-20	R5190702
Tin (Sn)-Dissolved	0.000225	<DL	0.0010	mg/L		17-AUG-20	R5190702
Titanium (Ti)-Dissolved	0.00100	<DL	0.0020	mg/L		17-AUG-20	R5190702
Tungsten (W)-Dissolved	0.000006	<DL	0.010	mg/L		17-AUG-20	R5190702
Uranium (U)-Dissolved	0.000959	<DL	0.0050	mg/L		17-AUG-20	R5190702
Vanadium (V)-Dissolved	0.00114	<T	0.0010	mg/L		17-AUG-20	R5190702
Zinc (Zn)-Dissolved	0.0008	<DL	0.0030	mg/L		17-AUG-20	R5190702
Zirconium (Zr)-Dissolved	0.000694	<DL	0.0010	mg/L		17-AUG-20	R5190702
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-AUG-20	R5191903
Chemical Oxygen Demand	84		20	mg/L	14-AUG-20	15-AUG-20	R5189598
Oil and Grease, Total	1.4		1.0	mg/L	18-AUG-20	18-AUG-20	R5190724
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		31-AUG-20	R5209561
L2488710-3 SW24 Sampled By: Client on 11-AUG-20 @ 10:20 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	1.01		0	mg/L		17-AUG-20	R5189926
pH, Client Supplied	7.45		0.10	pH		17-AUG-20	R5189926
Temperature, Client Supplied	17.59		0	Degree C		17-AUG-20	R5189926
Physical Tests							
Color, True	86.0		2.0	CU		14-AUG-20	R5189238
Conductivity (EC)	546		1.0	uS/cm		15-AUG-20	R5189745
Hardness (as CaCO3)	230		0.51	mg/L		19-AUG-20	
pH	7.88		0.10	pH		15-AUG-20	R5189745

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-3 SW24							
Sampled By: Client on 11-AUG-20 @ 10:20							
Matrix: Water							
Physical Tests							
Total Suspended Solids	4.0		3.0	mg/L		17-AUG-20	R5190753
Total Dissolved Solids	390		20	mg/L		17-AUG-20	R5190730
Turbidity	13.0		0.10	NTU		14-AUG-20	R5189283
Anions and Nutrients							
Acidity (as CaCO3)	2.2		2.0	mg/L		16-AUG-20	R5190273
Alkalinity, Total (as CaCO3)	178		2.0	mg/L		15-AUG-20	R5189745
Ammonia, Total (as N)	0.060	<T	0.0050	mg/L		21-AUG-20	R5195703
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		21-AUG-20	
Chloride (Cl)	6.11		0.10	mg/L	14-AUG-20	14-AUG-20	R5189577
Fluoride (F)	0.080		0.020	mg/L	14-AUG-20	14-AUG-20	R5189577
Nitrate (as N)	0.036	<T	0.020	mg/L		14-AUG-20	R5189577
Nitrite (as N)	0.002	<DL	0.010	mg/L		14-AUG-20	R5189577
Orthophosphate-Dissolved (as P)	0.0118		0.0030	mg/L	14-AUG-20	15-AUG-20	R5189607
Sulfate (SO4)	109		0.30	mg/L		14-AUG-20	R5189577
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Total	0.0006	<DL	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Free	0.0005	<DL	0.0020	mg/L		17-AUG-20	R5190691
Organic / Inorganic Carbon							
Dissolved Organic Carbon	28.4	DLM	5.0	mg/L	14-AUG-20	20-AUG-20	R5194497
Total Organic Carbon	50.1	DLM	5.0	mg/L		20-AUG-20	R5194520
Total Metals							
Aluminum (Al)-Total	0.367		0.0050	mg/L		18-AUG-20	R5191493
Antimony (Sb)-Total	0.00159	<T	0.00060	mg/L		18-AUG-20	R5191493
Arsenic (As)-Total	0.00242	<T	0.0010	mg/L		18-AUG-20	R5191493
Barium (Ba)-Total	0.0387		0.010	mg/L		18-AUG-20	R5191493
Beryllium (Be)-Total	0.0000256	<DL	0.0010	mg/L		18-AUG-20	R5191493
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-AUG-20	R5191493
Boron (B)-Total	0.0330	<DL	0.050	mg/L		18-AUG-20	R5191493
Cadmium (Cd)-Total	0.000034	<T	0.000017	mg/L		18-AUG-20	R5191493
Calcium (Ca)-Total	62.8		0.20	mg/L		18-AUG-20	R5191493
Cesium (Cs)-Total	0.0000505		0.000010	mg/L		18-AUG-20	R5191493
Chromium (Cr)-Total	0.00384		0.0010	mg/L		18-AUG-20	R5191493
Cobalt (Co)-Total	0.000830	<T	0.00050	mg/L		18-AUG-20	R5191493
Copper (Cu)-Total	0.00332	<T	0.0010	mg/L		18-AUG-20	R5191493
Iron (Fe)-Total	0.865		0.020	mg/L		18-AUG-20	R5191493
Lead (Pb)-Total	0.00041	<T	0.000050	mg/L		18-AUG-20	R5191493
Lithium (Li)-Total	0.0088	<DL	0.050	mg/L		18-AUG-20	R5191493
Magnesium (Mg)-Total	22.4		0.020	mg/L		18-AUG-20	R5191493
Manganese (Mn)-Total	0.262		0.0010	mg/L		18-AUG-20	R5191493
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190765
Molybdenum (Mo)-Total	0.00192	<T	0.0010	mg/L		18-AUG-20	R5191493

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-3 SW24							
Sampled By: Client on 11-AUG-20 @ 10:20							
Matrix: Water							
Total Metals							
Nickel (Ni)-Total	0.00378	<T	0.0020	mg/L		18-AUG-20	R5191493
Phosphorus (P)-Total	0.060		0.050	mg/L		18-AUG-20	R5191493
Potassium (K)-Total	6.42		0.50	mg/L		18-AUG-20	R5191493
Rubidium (Rb)-Total	0.00348		0.00020	mg/L		18-AUG-20	R5191493
Selenium (Se)-Total	0.000220	<T	0.000050	mg/L		18-AUG-20	R5191493
Silicon (Si)-Total	2.46		0.10	mg/L		18-AUG-20	R5191493
Silver (Ag)-Total	0.000005	<DL	0.00010	mg/L		18-AUG-20	R5191493
Sodium (Na)-Total	20.7		0.10	mg/L		18-AUG-20	R5191493
Strontium (Sr)-Total	0.164		0.0010	mg/L		18-AUG-20	R5191493
Sulfur (S)-Total	39.6		0.50	mg/L		18-AUG-20	R5191493
Tellurium (Te)-Total	0.00006	<DL	0.0010	mg/L		18-AUG-20	R5191493
Thallium (Tl)-Total	0.000005	<DL	0.00030	mg/L		18-AUG-20	R5191493
Thorium (Th)-Total	0.00010		0.00010	mg/L		18-AUG-20	R5191493
Tin (Sn)-Total	0.00077	<DL	0.0010	mg/L		18-AUG-20	R5191493
Titanium (Ti)-Total	0.0122		0.0020	mg/L		18-AUG-20	R5191493
Tungsten (W)-Total	0.00001	<DL	0.010	mg/L		18-AUG-20	R5191493
Uranium (U)-Total	0.00122	<DL	0.0050	mg/L		18-AUG-20	R5191493
Vanadium (V)-Total	0.00205	<T	0.0010	mg/L		18-AUG-20	R5191493
Zinc (Zn)-Total	0.0025	<DL	0.0030	mg/L		18-AUG-20	R5191493
Zirconium (Zr)-Total	0.000742	<DL	0.0010	mg/L		18-AUG-20	R5191493
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					17-AUG-20	R5190146
Aluminum (Al)-Dissolved	0.0058	<T	0.0050	mg/L		17-AUG-20	R5190702
Antimony (Sb)-Dissolved	0.00155	<T	0.00060	mg/L		17-AUG-20	R5190702
Arsenic (As)-Dissolved	0.00186	<T	0.0010	mg/L		17-AUG-20	R5190702
Barium (Ba)-Dissolved	0.0353		0.010	mg/L		17-AUG-20	R5190702
Beryllium (Be)-Dissolved	0.000008	<DL	0.0010	mg/L		17-AUG-20	R5190702
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-AUG-20	R5190702
Boron (B)-Dissolved	0.0300	<DL	0.050	mg/L		17-AUG-20	R5190702
Cadmium (Cd)-Dissolved	0.0000060	<DL	0.000017	mg/L		17-AUG-20	R5190702
Calcium (Ca)-Dissolved	58.3		0.20	mg/L		17-AUG-20	R5190702
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		17-AUG-20	R5190702
Chromium (Cr)-Dissolved	0.00014	<DL	0.0010	mg/L		17-AUG-20	R5190702
Cobalt (Co)-Dissolved	0.000572	<T	0.00050	mg/L		17-AUG-20	R5190702
Copper (Cu)-Dissolved	0.00222	<T	0.0010	mg/L		17-AUG-20	R5190702
Iron (Fe)-Dissolved	0.143		0.020	mg/L		17-AUG-20	R5190702
Lead (Pb)-Dissolved	0.00003	<DL	0.000050	mg/L		17-AUG-20	R5190702
Lithium (Li)-Dissolved	0.0086	<DL	0.050	mg/L		17-AUG-20	R5190702
Magnesium (Mg)-Dissolved	20.6		0.020	mg/L		17-AUG-20	R5190702
Manganese (Mn)-Dissolved	0.237		0.0010	mg/L		17-AUG-20	R5190702
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190764

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-3 SW24 Sampled By: Client on 11-AUG-20 @ 10:20 Matrix: Water							
Dissolved Metals							
Molybdenum (Mo)-Dissolved	0.00172	<T	0.0010	mg/L		17-AUG-20	R5190702
Nickel (Ni)-Dissolved	0.00194	<DL	0.0020	mg/L		17-AUG-20	R5190702
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		17-AUG-20	R5190702
Potassium (K)-Dissolved	6.68		0.50	mg/L		17-AUG-20	R5190702
Rubidium (Rb)-Dissolved	0.00294		0.00020	mg/L		17-AUG-20	R5190702
Selenium (Se)-Dissolved	0.000220	<T	0.000050	mg/L		17-AUG-20	R5190702
Silicon (Si)-Dissolved	1.59		0.050	mg/L		17-AUG-20	R5190702
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-AUG-20	R5190702
Sodium (Na)-Dissolved	18.4		0.10	mg/L		17-AUG-20	R5190702
Strontium (Sr)-Dissolved	0.169		0.0010	mg/L		17-AUG-20	R5190702
Sulfur (S)-Dissolved	38.0		0.50	mg/L		17-AUG-20	R5190702
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-AUG-20	R5190702
Thallium (Tl)-Dissolved	0.000002	<DL	0.00030	mg/L		17-AUG-20	R5190702
Thorium (Th)-Dissolved	0.00003	<DL	0.00010	mg/L		17-AUG-20	R5190702
Tin (Sn)-Dissolved	0.000130	<DL	0.0010	mg/L		17-AUG-20	R5190702
Titanium (Ti)-Dissolved	0.00062	<DL	0.0020	mg/L		17-AUG-20	R5190702
Tungsten (W)-Dissolved	0.000006	<DL	0.010	mg/L		17-AUG-20	R5190702
Uranium (U)-Dissolved	0.00125	<DL	0.0050	mg/L		17-AUG-20	R5190702
Vanadium (V)-Dissolved	0.00064	<DL	0.0010	mg/L		17-AUG-20	R5190702
Zinc (Zn)-Dissolved	0.0012	<DL	0.0030	mg/L		17-AUG-20	R5190702
Zirconium (Zr)-Dissolved	0.000558	<DL	0.0010	mg/L		17-AUG-20	R5190702
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-AUG-20	R5191903
Chemical Oxygen Demand	71		20	mg/L	14-AUG-20	15-AUG-20	R5189598
Oil and Grease, Total	1.8		1.0	mg/L	18-AUG-20	18-AUG-20	R5190724
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		31-AUG-20	R5209561
L2488710-4 SW15 Sampled By: Client on 11-AUG-20 @ 11:35 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	5.78		0	mg/L		17-AUG-20	R5189926
pH, Client Supplied	7.82		0.10	pH		17-AUG-20	R5189926
Temperature, Client Supplied	20.93		0	Degree C		17-AUG-20	R5189926
Physical Tests							
Color, True	135		2.0	CU		14-AUG-20	R5189238
Conductivity (EC)	182		1.0	uS/cm		15-AUG-20	R5189745
Hardness (as CaCO3)	93.4		0.51	mg/L		31-AUG-20	
pH	7.90		0.10	pH		15-AUG-20	R5189745
Total Suspended Solids	13.0		3.0	mg/L		18-AUG-20	R5191415
Total Dissolved Solids	156		13	mg/L		18-AUG-20	R5191518
Turbidity	19.5		0.10	NTU		14-AUG-20	R5189283

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-4 SW15							
Sampled By: Client on 11-AUG-20 @ 11:35							
Matrix: Water							
Physical Tests							
Anions and Nutrients							
Acidity (as CaCO3)	0.2	<DL	2.0	mg/L		16-AUG-20	R5190273
Alkalinity, Total (as CaCO3)	96.4		2.0	mg/L		15-AUG-20	R5189745
Ammonia, Total (as N)	0.038	<T	0.0050	mg/L		21-AUG-20	R5195703
Ammonia, Un-ionized (as N)	0.001	<DL	0.010	mg/L		21-AUG-20	
Chloride (Cl)	2.10		0.10	mg/L	14-AUG-20	14-AUG-20	R5189577
Fluoride (F)	0.049		0.020	mg/L	14-AUG-20	14-AUG-20	R5189577
Nitrate (as N)	0.086	<T	0.020	mg/L		14-AUG-20	R5189577
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-AUG-20	R5189577
Orthophosphate-Dissolved (as P)	0.0351		0.0030	mg/L	14-AUG-20	15-AUG-20	R5189607
Sulfate (SO4)	4.55	<T	0.30	mg/L		14-AUG-20	R5189577
Cyanides							
Cyanide, Weak Acid Diss	0.0002	<DL	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Total	<0.0002	<W	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Free	0.0003	<DL	0.0020	mg/L		17-AUG-20	R5190691
Organic / Inorganic Carbon							
Dissolved Organic Carbon	27.7	DLM	5.0	mg/L	14-AUG-20	20-AUG-20	R5194497
Total Organic Carbon	47.3	DLM	5.0	mg/L		20-AUG-20	R5194520
Total Metals							
Aluminum (Al)-Total	0.510		0.0050	mg/L		18-AUG-20	R5191493
Antimony (Sb)-Total	0.000080	<DL	0.00060	mg/L		18-AUG-20	R5191493
Arsenic (As)-Total	0.00299	<T	0.0010	mg/L		18-AUG-20	R5191493
Barium (Ba)-Total	0.0209		0.010	mg/L		18-AUG-20	R5191493
Beryllium (Be)-Total	0.0000413	<DL	0.0010	mg/L		18-AUG-20	R5191493
Bismuth (Bi)-Total	0.00001	<DL	0.0010	mg/L		18-AUG-20	R5191493
Boron (B)-Total	0.0160	<DL	0.050	mg/L		18-AUG-20	R5191493
Cadmium (Cd)-Total	0.000019	<T	0.000017	mg/L		18-AUG-20	R5191493
Calcium (Ca)-Total	24.5		0.20	mg/L		18-AUG-20	R5191493
Cesium (Cs)-Total	0.0000705		0.000010	mg/L		18-AUG-20	R5191493
Chromium (Cr)-Total	0.00100		0.0010	mg/L		18-AUG-20	R5191493
Cobalt (Co)-Total	0.000515	<T	0.00050	mg/L		18-AUG-20	R5191493
Copper (Cu)-Total	0.00254	<T	0.0010	mg/L		18-AUG-20	R5191493
Iron (Fe)-Total	1.07		0.020	mg/L		18-AUG-20	R5191493
Lead (Pb)-Total	0.00075	<T	0.000050	mg/L		18-AUG-20	R5191493
Lithium (Li)-Total	0.0048	<DL	0.050	mg/L		18-AUG-20	R5191493
Magnesium (Mg)-Total	10.3		0.020	mg/L		18-AUG-20	R5191493
Manganese (Mn)-Total	0.140		0.0010	mg/L		18-AUG-20	R5191493
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190765
Molybdenum (Mo)-Total	0.000500	<DL	0.0010	mg/L		18-AUG-20	R5191493
Nickel (Ni)-Total	0.00220	<T	0.0020	mg/L		18-AUG-20	R5191493
Phosphorus (P)-Total	0.090		0.050	mg/L		18-AUG-20	R5191493
Potassium (K)-Total	1.33		0.50	mg/L		18-AUG-20	R5191493

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-4 SW15							
Sampled By: Client on 11-AUG-20 @ 11:35							
Matrix: Water							
Total Metals							
Rubidium (Rb)-Total	0.00262		0.00020	mg/L		18-AUG-20	R5191493
Selenium (Se)-Total	0.000180	<T	0.000050	mg/L		18-AUG-20	R5191493
Silicon (Si)-Total	4.19		0.10	mg/L		18-AUG-20	R5191493
Silver (Ag)-Total	0.000006	<DL	0.00010	mg/L		18-AUG-20	R5191493
Sodium (Na)-Total	3.79		0.10	mg/L		18-AUG-20	R5191493
Strontium (Sr)-Total	0.0579		0.0010	mg/L		18-AUG-20	R5191493
Sulfur (S)-Total	2.2		0.50	mg/L		18-AUG-20	R5191493
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		18-AUG-20	R5191493
Thallium (Tl)-Total	0.000010	<DL	0.00030	mg/L		18-AUG-20	R5191493
Thorium (Th)-Total	0.00016		0.00010	mg/L		18-AUG-20	R5191493
Tin (Sn)-Total	0.00017	<DL	0.0010	mg/L		18-AUG-20	R5191493
Titanium (Ti)-Total	0.0155		0.0020	mg/L		18-AUG-20	R5191493
Tungsten (W)-Total	0.00001	<DL	0.010	mg/L		18-AUG-20	R5191493
Uranium (U)-Total	0.000468	<DL	0.0050	mg/L		18-AUG-20	R5191493
Vanadium (V)-Total	0.00315	<T	0.0010	mg/L		18-AUG-20	R5191493
Zinc (Zn)-Total	0.0025	<DL	0.0030	mg/L		18-AUG-20	R5191493
Zirconium (Zr)-Total	0.000890	<DL	0.0010	mg/L		18-AUG-20	R5191493
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					17-AUG-20	R5190146
Aluminum (Al)-Dissolved	0.0132	<T	0.0050	mg/L		17-AUG-20	R5190702
Antimony (Sb)-Dissolved	0.000085	<DL	0.00060	mg/L		17-AUG-20	R5190702
Arsenic (As)-Dissolved	0.00223	<T	0.0010	mg/L		17-AUG-20	R5190702
Barium (Ba)-Dissolved	0.0165		0.010	mg/L		17-AUG-20	R5190702
Beryllium (Be)-Dissolved	0.000018	<DL	0.0010	mg/L		17-AUG-20	R5190702
Bismuth (Bi)-Dissolved	0.000004	<DL	0.0010	mg/L		17-AUG-20	R5190702
Boron (B)-Dissolved	0.0145	<DL	0.050	mg/L		17-AUG-20	R5190702
Cadmium (Cd)-Dissolved	0.000113	DTC	0.000017	mg/L		17-AUG-20	R5190702
Calcium (Ca)-Dissolved	21.8		0.20	mg/L		17-AUG-20	R5190702
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		17-AUG-20	R5190702
Chromium (Cr)-Dissolved	0.00024	<DL	0.0010	mg/L		17-AUG-20	R5190702
Cobalt (Co)-Dissolved	0.000172	<DL	0.00050	mg/L		17-AUG-20	R5190702
Copper (Cu)-Dissolved	0.00220	<T	0.0010	mg/L		17-AUG-20	R5190702
Iron (Fe)-Dissolved	0.277		0.020	mg/L		17-AUG-20	R5190702
Lead (Pb)-Dissolved	0.00017	<T	0.000050	mg/L		17-AUG-20	R5190702
Lithium (Li)-Dissolved	0.0044	<DL	0.050	mg/L		17-AUG-20	R5190702
Magnesium (Mg)-Dissolved	9.45		0.020	mg/L		17-AUG-20	R5190702
Manganese (Mn)-Dissolved	0.0598		0.0010	mg/L		17-AUG-20	R5190702
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190764
Molybdenum (Mo)-Dissolved	0.000484	<DL	0.0010	mg/L		17-AUG-20	R5190702
Nickel (Ni)-Dissolved	0.00164	<DL	0.0020	mg/L		17-AUG-20	R5190702
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		17-AUG-20	R5190702

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-4 SW15 Sampled By: Client on 11-AUG-20 @ 11:35 Matrix: Water							
Dissolved Metals							
Potassium (K)-Dissolved	1.28		0.50	mg/L		17-AUG-20	R5190702
Rubidium (Rb)-Dissolved	0.00146		0.00020	mg/L		17-AUG-20	R5190702
Selenium (Se)-Dissolved	0.000185	<T	0.000050	mg/L		17-AUG-20	R5190702
Silicon (Si)-Dissolved	3.14		0.050	mg/L		17-AUG-20	R5190702
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		17-AUG-20	R5190702
Sodium (Na)-Dissolved	3.50		0.10	mg/L		17-AUG-20	R5190702
Strontium (Sr)-Dissolved	0.0580		0.0010	mg/L		17-AUG-20	R5190702
Sulfur (S)-Dissolved	2.0		0.50	mg/L		17-AUG-20	R5190702
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-AUG-20	R5190702
Thallium (Tl)-Dissolved	0.000004	<DL	0.00030	mg/L		17-AUG-20	R5190702
Thorium (Th)-Dissolved	0.00009	<DL	0.00010	mg/L		17-AUG-20	R5190702
Tin (Sn)-Dissolved	0.000365	<DL	0.0010	mg/L		17-AUG-20	R5190702
Titanium (Ti)-Dissolved	0.00180	<DL	0.0020	mg/L		17-AUG-20	R5190702
Tungsten (W)-Dissolved	0.000008	<DL	0.010	mg/L		17-AUG-20	R5190702
Uranium (U)-Dissolved	0.000434	<DL	0.0050	mg/L		17-AUG-20	R5190702
Vanadium (V)-Dissolved	0.00144	<T	0.0010	mg/L		17-AUG-20	R5190702
Zinc (Zn)-Dissolved	0.0008	<DL	0.0030	mg/L		17-AUG-20	R5190702
Zirconium (Zr)-Dissolved	0.000768	<DL	0.0010	mg/L		17-AUG-20	R5190702
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-AUG-20	R5191903
Chemical Oxygen Demand	72		20	mg/L	14-AUG-20	15-AUG-20	R5189598
Oil and Grease, Total	0.8	<DL	1.0	mg/L	18-AUG-20	18-AUG-20	R5190724
L2488710-5 SW17 Sampled By: Client on 11-AUG-20 @ 12:05 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	10.65		0	mg/L		17-AUG-20	R5189926
pH, Client Supplied	8.8		0.10	pH		17-AUG-20	R5189926
Temperature, Client Supplied	22.69		0	Degree C		17-AUG-20	R5189926
Physical Tests							
Color, True	44.3		2.0	CU		14-AUG-20	R5189238
Conductivity (EC)	86.8		1.0	uS/cm		15-AUG-20	R5189745
Hardness (as CaCO3)	39.5		0.51	mg/L		19-AUG-20	
pH	7.95		0.10	pH		15-AUG-20	R5189745
Total Suspended Solids	7.0		3.0	mg/L		18-AUG-20	R5191415
Total Dissolved Solids	82		13	mg/L		18-AUG-20	R5191518
Turbidity	6.07		0.10	NTU		14-AUG-20	R5189283
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		16-AUG-20	R5190273
Alkalinity, Total (as CaCO3)	40.4		2.0	mg/L		15-AUG-20	R5189745
Ammonia, Total (as N)	0.024	<T	0.0050	mg/L		21-AUG-20	R5195703
Ammonia, Un-ionized (as N)	0.006	<DL	0.010	mg/L		21-AUG-20	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-5 SW17							
Sampled By: Client on 11-AUG-20 @ 12:05							
Matrix: Water							
Anions and Nutrients							
Chloride (Cl)	2.31		0.10	mg/L	14-AUG-20	14-AUG-20	R5189577
Fluoride (F)	0.047		0.020	mg/L	14-AUG-20	14-AUG-20	R5189577
Nitrate (as N)	0.008	<DL	0.020	mg/L		14-AUG-20	R5189577
Nitrite (as N)	0.001	<DL	0.010	mg/L		14-AUG-20	R5189577
Orthophosphate-Dissolved (as P)	0.0032		0.0030	mg/L	14-AUG-20	15-AUG-20	R5189607
Sulfate (SO4)	4.10	<T	0.30	mg/L		14-AUG-20	R5189577
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Total	<0.0002	<W	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Free	<0.0001	<W	0.0020	mg/L		17-AUG-20	R5190691
Organic / Inorganic Carbon							
Dissolved Organic Carbon	14.1	DLM	5.0	mg/L	14-AUG-20	20-AUG-20	R5194497
Total Organic Carbon	26.4	DLM	5.0	mg/L		20-AUG-20	R5194520
Total Metals							
Aluminum (Al)-Total	0.249		0.0050	mg/L		18-AUG-20	R5191493
Antimony (Sb)-Total	0.000040	<DL	0.00060	mg/L		18-AUG-20	R5191493
Arsenic (As)-Total	0.00066	<DL	0.0010	mg/L		18-AUG-20	R5191493
Barium (Ba)-Total	0.0109		0.010	mg/L		18-AUG-20	R5191493
Beryllium (Be)-Total	0.0000167	<DL	0.0010	mg/L		18-AUG-20	R5191493
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-AUG-20	R5191493
Boron (B)-Total	0.0065	<DL	0.050	mg/L		18-AUG-20	R5191493
Cadmium (Cd)-Total	0.000035	<T	0.000017	mg/L		18-AUG-20	R5191493
Calcium (Ca)-Total	10.9		0.20	mg/L		18-AUG-20	R5191493
Cesium (Cs)-Total	0.0000415		0.000010	mg/L		18-AUG-20	R5191493
Chromium (Cr)-Total	0.00060	<DL	0.0010	mg/L		18-AUG-20	R5191493
Cobalt (Co)-Total	0.000200	<DL	0.00050	mg/L		18-AUG-20	R5191493
Copper (Cu)-Total	0.00152	<T	0.0010	mg/L		18-AUG-20	R5191493
Iron (Fe)-Total	0.380		0.020	mg/L		18-AUG-20	R5191493
Lead (Pb)-Total	0.00023	<T	0.000050	mg/L		18-AUG-20	R5191493
Lithium (Li)-Total	0.0014	<DL	0.050	mg/L		18-AUG-20	R5191493
Magnesium (Mg)-Total	3.69		0.020	mg/L		18-AUG-20	R5191493
Manganese (Mn)-Total	0.0322		0.0010	mg/L		18-AUG-20	R5191493
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190765
Molybdenum (Mo)-Total	0.000255	<DL	0.0010	mg/L		18-AUG-20	R5191493
Nickel (Ni)-Total	0.00084	<DL	0.0020	mg/L		18-AUG-20	R5191493
Phosphorus (P)-Total	0.025	<DL	0.050	mg/L		18-AUG-20	R5191493
Potassium (K)-Total	0.82		0.50	mg/L		18-AUG-20	R5191493
Rubidium (Rb)-Total	0.00230		0.00020	mg/L		18-AUG-20	R5191493
Selenium (Se)-Total	0.000110	<T	0.000050	mg/L		18-AUG-20	R5191493
Silicon (Si)-Total	2.25		0.10	mg/L		18-AUG-20	R5191493
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		18-AUG-20	R5191493
Sodium (Na)-Total	3.73		0.10	mg/L		18-AUG-20	R5191493

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-5 SW17							
Sampled By: Client on 11-AUG-20 @ 12:05							
Matrix: Water							
Total Metals							
Strontium (Sr)-Total	0.0273		0.0010	mg/L		18-AUG-20	R5191493
Sulfur (S)-Total	1.4		0.50	mg/L		18-AUG-20	R5191493
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		18-AUG-20	R5191493
Thallium (Tl)-Total	0.000010	<DL	0.00030	mg/L		18-AUG-20	R5191493
Thorium (Th)-Total	0.00005	<DL	0.00010	mg/L		18-AUG-20	R5191493
Tin (Sn)-Total	0.00017	<DL	0.0010	mg/L		18-AUG-20	R5191493
Titanium (Ti)-Total	0.00737		0.0020	mg/L		18-AUG-20	R5191493
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		18-AUG-20	R5191493
Uranium (U)-Total	0.000115	<DL	0.0050	mg/L		18-AUG-20	R5191493
Vanadium (V)-Total	0.00125	<T	0.0010	mg/L		18-AUG-20	R5191493
Zinc (Zn)-Total	0.0025	<DL	0.0030	mg/L		18-AUG-20	R5191493
Zirconium (Zr)-Total	0.000290	<DL	0.0010	mg/L		18-AUG-20	R5191493
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					17-AUG-20	R5190146
Aluminum (Al)-Dissolved	0.0186	<T	0.0050	mg/L		17-AUG-20	R5190702
Antimony (Sb)-Dissolved	0.000045	<DL	0.00060	mg/L		17-AUG-20	R5190702
Arsenic (As)-Dissolved	0.000638	<DL	0.0010	mg/L		17-AUG-20	R5190702
Barium (Ba)-Dissolved	0.00894	<DL	0.010	mg/L		17-AUG-20	R5190702
Beryllium (Be)-Dissolved	0.000004	<DL	0.0010	mg/L		17-AUG-20	R5190702
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-AUG-20	R5190702
Boron (B)-Dissolved	0.0070	<DL	0.050	mg/L		17-AUG-20	R5190702
Cadmium (Cd)-Dissolved	0.0000190	<T	0.000017	mg/L		17-AUG-20	R5190702
Calcium (Ca)-Dissolved	10.4		0.20	mg/L		17-AUG-20	R5190702
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		17-AUG-20	R5190702
Chromium (Cr)-Dissolved	0.00017	<DL	0.0010	mg/L		17-AUG-20	R5190702
Cobalt (Co)-Dissolved	0.000042	<DL	0.00050	mg/L		17-AUG-20	R5190702
Copper (Cu)-Dissolved	0.00122	<T	0.0010	mg/L		17-AUG-20	R5190702
Iron (Fe)-Dissolved	0.0765		0.020	mg/L		17-AUG-20	R5190702
Lead (Pb)-Dissolved	0.00008	<T	0.000050	mg/L		17-AUG-20	R5190702
Lithium (Li)-Dissolved	0.0010	<DL	0.050	mg/L		17-AUG-20	R5190702
Magnesium (Mg)-Dissolved	3.29		0.020	mg/L		17-AUG-20	R5190702
Manganese (Mn)-Dissolved	0.00806		0.0010	mg/L		17-AUG-20	R5190702
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190764
Molybdenum (Mo)-Dissolved	0.000270	<DL	0.0010	mg/L		17-AUG-20	R5190702
Nickel (Ni)-Dissolved	0.00056	<DL	0.0020	mg/L		17-AUG-20	R5190702
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		17-AUG-20	R5190702
Potassium (K)-Dissolved	0.83		0.50	mg/L		17-AUG-20	R5190702
Rubidium (Rb)-Dissolved	0.00174		0.00020	mg/L		17-AUG-20	R5190702
Selenium (Se)-Dissolved	0.000100	<T	0.000050	mg/L		17-AUG-20	R5190702
Silicon (Si)-Dissolved	1.82		0.050	mg/L		17-AUG-20	R5190702
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-AUG-20	R5190702

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-5 SW17 Sampled By: Client on 11-AUG-20 @ 12:05 Matrix: Water							
Dissolved Metals							
Sodium (Na)-Dissolved	3.55		0.10	mg/L		17-AUG-20	R5190702
Strontium (Sr)-Dissolved	0.0279		0.0010	mg/L		17-AUG-20	R5190702
Sulfur (S)-Dissolved	1.6		0.50	mg/L		17-AUG-20	R5190702
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-AUG-20	R5190702
Thallium (Tl)-Dissolved	0.000004	<DL	0.00030	mg/L		17-AUG-20	R5190702
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		17-AUG-20	R5190702
Tin (Sn)-Dissolved	0.000285	<DL	0.0010	mg/L		17-AUG-20	R5190702
Titanium (Ti)-Dissolved	0.00070	<DL	0.0020	mg/L		17-AUG-20	R5190702
Tungsten (W)-Dissolved	0.000008	<DL	0.010	mg/L		17-AUG-20	R5190702
Uranium (U)-Dissolved	0.000108	<DL	0.0050	mg/L		17-AUG-20	R5190702
Vanadium (V)-Dissolved	0.00060	<DL	0.0010	mg/L		17-AUG-20	R5190702
Zinc (Zn)-Dissolved	0.0012	<DL	0.0030	mg/L		17-AUG-20	R5190702
Zirconium (Zr)-Dissolved	0.000180	<DL	0.0010	mg/L		17-AUG-20	R5190702
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-AUG-20	R5191903
Chemical Oxygen Demand	38		20	mg/L	14-AUG-20	15-AUG-20	R5189598
Oil and Grease, Total	0.6	<DL	1.0	mg/L	18-AUG-20	18-AUG-20	R5190724
L2488710-6 SW16 Sampled By: Client on 11-AUG-20 @ 13:30 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	9.37		0	mg/L		17-AUG-20	R5189926
pH, Client Supplied	7.77		0.10	pH		17-AUG-20	R5189926
Temperature, Client Supplied	21.32		0	Degree C		17-AUG-20	R5189926
Physical Tests							
Color, True	41.0		2.0	CU		14-AUG-20	R5189238
Conductivity (EC)	82.8		1.0	uS/cm		15-AUG-20	R5189745
Hardness (as CaCO3)	34.0		0.51	mg/L		19-AUG-20	
pH	7.58		0.10	pH		15-AUG-20	R5189745
Total Suspended Solids	10.5		3.0	mg/L		18-AUG-20	R5191415
Total Dissolved Solids	68		13	mg/L		18-AUG-20	R5191518
Turbidity	9.39		0.10	NTU		14-AUG-20	R5189283
Anions and Nutrients							
Acidity (as CaCO3)	0.2	<DL	2.0	mg/L		16-AUG-20	R5190273
Alkalinity, Total (as CaCO3)	34.8		2.0	mg/L		15-AUG-20	R5189745
Ammonia, Total (as N)	0.032	<T	0.0050	mg/L		21-AUG-20	R5195703
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		21-AUG-20	
Chloride (Cl)	2.77		0.10	mg/L	14-AUG-20	14-AUG-20	R5189577
Fluoride (F)	0.041		0.020	mg/L	14-AUG-20	14-AUG-20	R5189577
Nitrate (as N)	0.016	<DL	0.020	mg/L		14-AUG-20	R5189577
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-AUG-20	R5189577
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	14-AUG-20	15-AUG-20	R5189607

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-6 SW16							
Sampled By: Client on 11-AUG-20 @ 13:30							
Matrix: Water							
Anions and Nutrients							
Sulfate (SO4)	4.25	<T	0.30	mg/L		14-AUG-20	R5189577
Cyanides							
Cyanide, Weak Acid Diss	0.0003	<DL	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Total	<0.0002	<W	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Free	0.0004	<DL	0.0020	mg/L		17-AUG-20	R5190691
Organic / Inorganic Carbon							
Dissolved Organic Carbon	15.0	DLM	5.0	mg/L	14-AUG-20	20-AUG-20	R5194497
Total Organic Carbon	27.0	DLM	5.0	mg/L		20-AUG-20	R5194520
Total Metals							
Aluminum (Al)-Total	0.288		0.0050	mg/L		18-AUG-20	R5191493
Antimony (Sb)-Total	0.000040	<DL	0.00060	mg/L		18-AUG-20	R5191493
Arsenic (As)-Total	0.00060	<DL	0.0010	mg/L		18-AUG-20	R5191493
Barium (Ba)-Total	0.0122		0.010	mg/L		18-AUG-20	R5191493
Beryllium (Be)-Total	0.0000216	<DL	0.0010	mg/L		18-AUG-20	R5191493
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-AUG-20	R5191493
Boron (B)-Total	0.0065	<DL	0.050	mg/L		18-AUG-20	R5191493
Cadmium (Cd)-Total	0.000014	<DL	0.000017	mg/L		18-AUG-20	R5191493
Calcium (Ca)-Total	9.62		0.20	mg/L		18-AUG-20	R5191493
Cesium (Cs)-Total	0.0000535		0.000010	mg/L		18-AUG-20	R5191493
Chromium (Cr)-Total	0.00076	<DL	0.0010	mg/L		18-AUG-20	R5191493
Cobalt (Co)-Total	0.000240	<DL	0.00050	mg/L		18-AUG-20	R5191493
Copper (Cu)-Total	0.00144	<T	0.0010	mg/L		18-AUG-20	R5191493
Iron (Fe)-Total	0.433		0.020	mg/L		18-AUG-20	R5191493
Lead (Pb)-Total	0.00025	<T	0.000050	mg/L		18-AUG-20	R5191493
Lithium (Li)-Total	0.0014	<DL	0.050	mg/L		18-AUG-20	R5191493
Magnesium (Mg)-Total	3.25		0.020	mg/L		18-AUG-20	R5191493
Manganese (Mn)-Total	0.0260		0.0010	mg/L		18-AUG-20	R5191493
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190765
Molybdenum (Mo)-Total	0.000435	<DL	0.0010	mg/L		18-AUG-20	R5191493
Nickel (Ni)-Total	0.00096	<DL	0.0020	mg/L		18-AUG-20	R5191493
Phosphorus (P)-Total	0.025	<DL	0.050	mg/L		18-AUG-20	R5191493
Potassium (K)-Total	0.88		0.50	mg/L		18-AUG-20	R5191493
Rubidium (Rb)-Total	0.00260		0.00020	mg/L		18-AUG-20	R5191493
Selenium (Se)-Total	0.000125	<T	0.000050	mg/L		18-AUG-20	R5191493
Silicon (Si)-Total	2.33		0.10	mg/L		18-AUG-20	R5191493
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		18-AUG-20	R5191493
Sodium (Na)-Total	4.39		0.10	mg/L		18-AUG-20	R5191493
Strontium (Sr)-Total	0.0258		0.0010	mg/L		18-AUG-20	R5191493
Sulfur (S)-Total	1.6		0.50	mg/L		18-AUG-20	R5191493
Tellurium (Te)-Total	0.00004	<DL	0.0010	mg/L		18-AUG-20	R5191493
Thallium (Tl)-Total	0.000005	<DL	0.00030	mg/L		18-AUG-20	R5191493
Thorium (Th)-Total	0.00006	<DL	0.00010	mg/L		18-AUG-20	R5191493

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-6 SW16							
Sampled By: Client on 11-AUG-20 @ 13:30							
Matrix: Water							
Total Metals							
Tin (Sn)-Total	0.00009	<DL	0.0010	mg/L		18-AUG-20	R5191493
Titanium (Ti)-Total	0.00866		0.0020	mg/L		18-AUG-20	R5191493
Tungsten (W)-Total	0.00001	<DL	0.010	mg/L		18-AUG-20	R5191493
Uranium (U)-Total	0.000122	<DL	0.0050	mg/L		18-AUG-20	R5191493
Vanadium (V)-Total	0.00130	<T	0.0010	mg/L		18-AUG-20	R5191493
Zinc (Zn)-Total	0.0025	<DL	0.0030	mg/L		18-AUG-20	R5191493
Zirconium (Zr)-Total	0.000310	<DL	0.0010	mg/L		18-AUG-20	R5191493
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					17-AUG-20	R5190146
Aluminum (Al)-Dissolved	0.0182	<T	0.0050	mg/L		17-AUG-20	R5190702
Antimony (Sb)-Dissolved	0.000035	<DL	0.00060	mg/L		17-AUG-20	R5190702
Arsenic (As)-Dissolved	0.000490	<DL	0.0010	mg/L		17-AUG-20	R5190702
Barium (Ba)-Dissolved	0.0103		0.010	mg/L		17-AUG-20	R5190702
Beryllium (Be)-Dissolved	0.000004	<DL	0.0010	mg/L		17-AUG-20	R5190702
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-AUG-20	R5190702
Boron (B)-Dissolved	0.0060	<DL	0.050	mg/L		17-AUG-20	R5190702
Cadmium (Cd)-Dissolved	0.0000180	<T	0.000017	mg/L		17-AUG-20	R5190702
Calcium (Ca)-Dissolved	9.04		0.20	mg/L		17-AUG-20	R5190702
Cesium (Cs)-Dissolved	0.0000020	<DL	0.000010	mg/L		17-AUG-20	R5190702
Chromium (Cr)-Dissolved	0.00021	<DL	0.0010	mg/L		17-AUG-20	R5190702
Cobalt (Co)-Dissolved	0.000034	<DL	0.00050	mg/L		17-AUG-20	R5190702
Copper (Cu)-Dissolved	0.00124	<T	0.0010	mg/L		17-AUG-20	R5190702
Iron (Fe)-Dissolved	0.0745		0.020	mg/L		17-AUG-20	R5190702
Lead (Pb)-Dissolved	0.00008	<T	0.000050	mg/L		17-AUG-20	R5190702
Lithium (Li)-Dissolved	0.0008	<DL	0.050	mg/L		17-AUG-20	R5190702
Magnesium (Mg)-Dissolved	2.76		0.020	mg/L		17-AUG-20	R5190702
Manganese (Mn)-Dissolved	0.00928		0.0010	mg/L		17-AUG-20	R5190702
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190764
Molybdenum (Mo)-Dissolved	0.000250	<DL	0.0010	mg/L		17-AUG-20	R5190702
Nickel (Ni)-Dissolved	0.00056	<DL	0.0020	mg/L		17-AUG-20	R5190702
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		17-AUG-20	R5190702
Potassium (K)-Dissolved	0.85		0.50	mg/L		17-AUG-20	R5190702
Rubidium (Rb)-Dissolved	0.00181		0.00020	mg/L		17-AUG-20	R5190702
Selenium (Se)-Dissolved	0.000125	<T	0.000050	mg/L		17-AUG-20	R5190702
Silicon (Si)-Dissolved	1.79		0.050	mg/L		17-AUG-20	R5190702
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-AUG-20	R5190702
Sodium (Na)-Dissolved	4.01		0.10	mg/L		17-AUG-20	R5190702
Strontium (Sr)-Dissolved	0.0257		0.0010	mg/L		17-AUG-20	R5190702
Sulfur (S)-Dissolved	1.6		0.50	mg/L		17-AUG-20	R5190702
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-AUG-20	R5190702
Thallium (Tl)-Dissolved	0.000002	<DL	0.00030	mg/L		17-AUG-20	R5190702

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-6 SW16 Sampled By: Client on 11-AUG-20 @ 13:30 Matrix: Water							
Dissolved Metals							
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		17-AUG-20	R5190702
Tin (Sn)-Dissolved	0.000130	<DL	0.0010	mg/L		17-AUG-20	R5190702
Titanium (Ti)-Dissolved	0.00058	<DL	0.0020	mg/L		17-AUG-20	R5190702
Tungsten (W)-Dissolved	0.000008	<DL	0.010	mg/L		17-AUG-20	R5190702
Uranium (U)-Dissolved	0.0000875	<DL	0.0050	mg/L		17-AUG-20	R5190702
Vanadium (V)-Dissolved	0.00042	<DL	0.0010	mg/L		17-AUG-20	R5190702
Zinc (Zn)-Dissolved	0.0012	<DL	0.0030	mg/L		17-AUG-20	R5190702
Zirconium (Zr)-Dissolved	0.000172	<DL	0.0010	mg/L		17-AUG-20	R5190702
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-AUG-20	R5191903
Chemical Oxygen Demand	41		20	mg/L	14-AUG-20	15-AUG-20	R5189598
Oil and Grease, Total	0.6	<DL	1.0	mg/L	18-AUG-20	18-AUG-20	R5190724
L2488710-7 SW20 Sampled By: Client on 11-AUG-20 @ 14:55 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	0		0	mg/L		17-AUG-20	R5189926
pH, Client Supplied	7.14		0.10	pH		17-AUG-20	R5189926
Temperature, Client Supplied	17.26		0	Degree C		17-AUG-20	R5189926
Physical Tests							
Color, True	106		2.0	CU		14-AUG-20	R5189238
Conductivity (EC)	330		1.0	uS/cm		15-AUG-20	R5189745
Hardness (as CaCO3)	149		0.51	mg/L		19-AUG-20	
pH	7.78		0.10	pH		15-AUG-20	R5189745
Total Suspended Solids	5.5		3.0	mg/L		18-AUG-20	R5191415
Total Dissolved Solids	250		20	mg/L		18-AUG-20	R5191518
Turbidity	5.44		0.10	NTU		14-AUG-20	R5189283
Anions and Nutrients							
Acidity (as CaCO3)	2.4		2.0	mg/L		16-AUG-20	R5190273
Alkalinity, Total (as CaCO3)	158		2.0	mg/L		15-AUG-20	R5189745
Ammonia, Total (as N)	0.028	<T	0.0050	mg/L		21-AUG-20	R5195703
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		21-AUG-20	
Chloride (Cl)	19.5		0.10	mg/L	14-AUG-20	14-AUG-20	R5189577
Fluoride (F)	0.064		0.020	mg/L	14-AUG-20	14-AUG-20	R5189577
Nitrate (as N)	<0.002	<W	0.020	mg/L		14-AUG-20	R5189577
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-AUG-20	R5189577
Orthophosphate-Dissolved (as P)	0.0128		0.0030	mg/L	14-AUG-20	15-AUG-20	R5189607
Sulfate (SO4)	0.90	<T	0.30	mg/L		14-AUG-20	R5189577
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Total	0.0002	<DL	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Free	0.0007	<DL	0.0020	mg/L		17-AUG-20	R5190691

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-7 SW20							
Sampled By: Client on 11-AUG-20 @ 14:55							
Matrix: Water							
Cyanides							
Organic / Inorganic Carbon							
Dissolved Organic Carbon	37.9	DLM	5.0	mg/L	14-AUG-20	20-AUG-20	R5194497
Total Organic Carbon	58.1	DLM	5.0	mg/L		20-AUG-20	R5194520
Total Metals							
Aluminum (Al)-Total	0.145		0.0050	mg/L		18-AUG-20	R5191493
Antimony (Sb)-Total	0.000050	<DL	0.00060	mg/L		18-AUG-20	R5191493
Arsenic (As)-Total	0.00183	<T	0.0010	mg/L		18-AUG-20	R5191493
Barium (Ba)-Total	0.0174		0.010	mg/L		18-AUG-20	R5191493
Beryllium (Be)-Total	0.0000167	<DL	0.0010	mg/L		18-AUG-20	R5191493
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-AUG-20	R5191493
Boron (B)-Total	0.0215	<DL	0.050	mg/L		18-AUG-20	R5191493
Cadmium (Cd)-Total	0.000020	<T	0.000017	mg/L		18-AUG-20	R5191493
Calcium (Ca)-Total	38.2		0.20	mg/L		18-AUG-20	R5191493
Cesium (Cs)-Total	0.0000180		0.000010	mg/L		18-AUG-20	R5191493
Chromium (Cr)-Total	0.00046	<DL	0.0010	mg/L		18-AUG-20	R5191493
Cobalt (Co)-Total	0.000360	<DL	0.00050	mg/L		18-AUG-20	R5191493
Copper (Cu)-Total	0.00152	<T	0.0010	mg/L		18-AUG-20	R5191493
Iron (Fe)-Total	0.725		0.020	mg/L		18-AUG-20	R5191493
Lead (Pb)-Total	0.00015	<T	0.000050	mg/L		18-AUG-20	R5191493
Lithium (Li)-Total	0.0068	<DL	0.050	mg/L		18-AUG-20	R5191493
Magnesium (Mg)-Total	16.6		0.020	mg/L		18-AUG-20	R5191493
Manganese (Mn)-Total	0.100		0.0010	mg/L		18-AUG-20	R5191493
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190765
Molybdenum (Mo)-Total	0.000205	<DL	0.0010	mg/L		18-AUG-20	R5191493
Nickel (Ni)-Total	0.00140	<DL	0.0020	mg/L		18-AUG-20	R5191493
Phosphorus (P)-Total	0.070		0.050	mg/L		18-AUG-20	R5191493
Potassium (K)-Total	1.50		0.50	mg/L		18-AUG-20	R5191493
Rubidium (Rb)-Total	0.00270		0.00020	mg/L		18-AUG-20	R5191493
Selenium (Se)-Total	0.000225	<T	0.000050	mg/L		18-AUG-20	R5191493
Silicon (Si)-Total	5.76		0.10	mg/L		18-AUG-20	R5191493
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		18-AUG-20	R5191493
Sodium (Na)-Total	10.9		0.10	mg/L		18-AUG-20	R5191493
Strontium (Sr)-Total	0.106		0.0010	mg/L		18-AUG-20	R5191493
Sulfur (S)-Total	0.8		0.50	mg/L		18-AUG-20	R5191493
Tellurium (Te)-Total	0.00004	<DL	0.0010	mg/L		18-AUG-20	R5191493
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		18-AUG-20	R5191493
Thorium (Th)-Total	0.00003	<DL	0.00010	mg/L		18-AUG-20	R5191493
Tin (Sn)-Total	0.00033	<DL	0.0010	mg/L		18-AUG-20	R5191493
Titanium (Ti)-Total	0.00423		0.0020	mg/L		18-AUG-20	R5191493
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		18-AUG-20	R5191493
Uranium (U)-Total	0.000208	<DL	0.0050	mg/L		18-AUG-20	R5191493

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-7 SW20							
Sampled By: Client on 11-AUG-20 @ 14:55							
Matrix: Water							
Total Metals							
Vanadium (V)-Total	0.00085	<DL	0.0010	mg/L		18-AUG-20	R5191493
Zinc (Zn)-Total	0.0020	<DL	0.0030	mg/L		18-AUG-20	R5191493
Zirconium (Zr)-Total	0.000240	<DL	0.0010	mg/L		18-AUG-20	R5191493
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					17-AUG-20	R5190146
Aluminum (Al)-Dissolved	0.0044	<DL	0.0050	mg/L		17-AUG-20	R5190702
Antimony (Sb)-Dissolved	0.000050	<DL	0.00060	mg/L		17-AUG-20	R5190702
Arsenic (As)-Dissolved	0.00167	<T	0.0010	mg/L		17-AUG-20	R5190702
Barium (Ba)-Dissolved	0.0171		0.010	mg/L		17-AUG-20	R5190702
Beryllium (Be)-Dissolved	0.000010	<DL	0.0010	mg/L		17-AUG-20	R5190702
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-AUG-20	R5190702
Boron (B)-Dissolved	0.0200	<DL	0.050	mg/L		17-AUG-20	R5190702
Cadmium (Cd)-Dissolved	0.0000070	<DL	0.000017	mg/L		17-AUG-20	R5190702
Calcium (Ca)-Dissolved	34.9		0.20	mg/L		17-AUG-20	R5190702
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		17-AUG-20	R5190702
Chromium (Cr)-Dissolved	0.00018	<DL	0.0010	mg/L		17-AUG-20	R5190702
Cobalt (Co)-Dissolved	0.000244	<DL	0.00050	mg/L		17-AUG-20	R5190702
Copper (Cu)-Dissolved	0.00024	<DL	0.0010	mg/L		17-AUG-20	R5190702
Iron (Fe)-Dissolved	0.290		0.020	mg/L		17-AUG-20	R5190702
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		17-AUG-20	R5190702
Lithium (Li)-Dissolved	0.0066	<DL	0.050	mg/L		17-AUG-20	R5190702
Magnesium (Mg)-Dissolved	15.0		0.020	mg/L		17-AUG-20	R5190702
Manganese (Mn)-Dissolved	0.0799		0.0010	mg/L		17-AUG-20	R5190702
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190764
Molybdenum (Mo)-Dissolved	0.000210	<DL	0.0010	mg/L		17-AUG-20	R5190702
Nickel (Ni)-Dissolved	0.00124	<DL	0.0020	mg/L		17-AUG-20	R5190702
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		17-AUG-20	R5190702
Potassium (K)-Dissolved	1.57		0.50	mg/L		17-AUG-20	R5190702
Rubidium (Rb)-Dissolved	0.00241		0.00020	mg/L		17-AUG-20	R5190702
Selenium (Se)-Dissolved	0.000165	<T	0.000050	mg/L		17-AUG-20	R5190702
Silicon (Si)-Dissolved	5.37		0.050	mg/L		17-AUG-20	R5190702
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-AUG-20	R5190702
Sodium (Na)-Dissolved	9.81		0.10	mg/L		17-AUG-20	R5190702
Strontium (Sr)-Dissolved	0.108		0.0010	mg/L		17-AUG-20	R5190702
Sulfur (S)-Dissolved	0.8		0.50	mg/L		17-AUG-20	R5190702
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-AUG-20	R5190702
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-AUG-20	R5190702
Thorium (Th)-Dissolved	0.00002	<DL	0.00010	mg/L		17-AUG-20	R5190702
Tin (Sn)-Dissolved	0.000090	<DL	0.0010	mg/L		17-AUG-20	R5190702
Titanium (Ti)-Dissolved	0.00018	<DL	0.0020	mg/L		17-AUG-20	R5190702
Tungsten (W)-Dissolved	0.000004	<DL	0.010	mg/L		17-AUG-20	R5190702

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-7 SW20 Sampled By: Client on 11-AUG-20 @ 14:55 Matrix: Water							
Dissolved Metals							
Uranium (U)-Dissolved	0.000197	<DL	0.0050	mg/L		17-AUG-20	R5190702
Vanadium (V)-Dissolved	0.00042	<DL	0.0010	mg/L		17-AUG-20	R5190702
Zinc (Zn)-Dissolved	0.0006	<DL	0.0030	mg/L		17-AUG-20	R5190702
Zirconium (Zr)-Dissolved	0.000234	<DL	0.0010	mg/L		17-AUG-20	R5190702
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-AUG-20	R5191903
Chemical Oxygen Demand	92		20	mg/L	14-AUG-20	19-AUG-20	R5191756
Oil and Grease, Total	0.8	<DL	1.0	mg/L	18-AUG-20	18-AUG-20	R5190724
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		31-AUG-20	R5209561
L2488710-8 SW06 Sampled By: Client on 11-AUG-20 @ 12:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	0		0	mg/L		17-AUG-20	R5189926
pH, Client Supplied	7.14		0.10	pH		17-AUG-20	R5189926
Temperature, Client Supplied	17.26		0	Degree C		17-AUG-20	R5189926
Physical Tests							
Color, True	106		2.0	CU		14-AUG-20	R5189238
Conductivity (EC)	329		1.0	uS/cm		15-AUG-20	R5189745
Hardness (as CaCO3)	150		0.51	mg/L		19-AUG-20	
pH	7.78		0.10	pH		15-AUG-20	R5189745
Total Suspended Solids	3.5		3.0	mg/L		18-AUG-20	R5191415
Total Dissolved Solids	262		20	mg/L		18-AUG-20	R5191518
Turbidity	4.62		0.10	NTU		14-AUG-20	R5189283
Anions and Nutrients							
Acidity (as CaCO3)	2.6		2.0	mg/L		16-AUG-20	R5190273
Alkalinity, Total (as CaCO3)	158		2.0	mg/L		15-AUG-20	R5189745
Ammonia, Total (as N)	0.052	<T	0.0050	mg/L		21-AUG-20	R5195703
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		21-AUG-20	
Chloride (Cl)	19.8		0.10	mg/L	14-AUG-20	14-AUG-20	R5189577
Fluoride (F)	0.066		0.020	mg/L	14-AUG-20	14-AUG-20	R5189577
Nitrate (as N)	0.002	<DL	0.020	mg/L		14-AUG-20	R5189577
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-AUG-20	R5189577
Orthophosphate-Dissolved (as P)	0.0125		0.0030	mg/L	14-AUG-20	15-AUG-20	R5189607
Sulfate (SO4)	0.95	<T	0.30	mg/L		14-AUG-20	R5189577
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Total	0.0004	<DL	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Free	0.0005	<DL	0.0020	mg/L		17-AUG-20	R5190691
Organic / Inorganic Carbon							
Dissolved Organic Carbon	41.9	DLM	5.0	mg/L	14-AUG-20	20-AUG-20	R5194497

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-8 SW06							
Sampled By: Client on 11-AUG-20 @ 12:00							
Matrix: Water							
Organic / Inorganic Carbon							
Total Organic Carbon	58.0	DLM	5.0	mg/L		20-AUG-20	R5194520
Total Metals							
Aluminum (Al)-Total	0.126		0.0050	mg/L		18-AUG-20	R5191493
Antimony (Sb)-Total	0.000055	<DL	0.00060	mg/L		18-AUG-20	R5191493
Arsenic (As)-Total	0.00184	<T	0.0010	mg/L		18-AUG-20	R5191493
Barium (Ba)-Total	0.0176		0.010	mg/L		18-AUG-20	R5191493
Beryllium (Be)-Total	0.0000098	<DL	0.0010	mg/L		18-AUG-20	R5191493
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-AUG-20	R5191493
Boron (B)-Total	0.0215	<DL	0.050	mg/L		18-AUG-20	R5191493
Cadmium (Cd)-Total	0.000027	<T	0.000017	mg/L		18-AUG-20	R5191493
Calcium (Ca)-Total	38.4		0.20	mg/L		18-AUG-20	R5191493
Cesium (Cs)-Total	0.0000150		0.000010	mg/L		18-AUG-20	R5191493
Chromium (Cr)-Total	0.00040	<DL	0.0010	mg/L		18-AUG-20	R5191493
Cobalt (Co)-Total	0.000350	<DL	0.00050	mg/L		18-AUG-20	R5191493
Copper (Cu)-Total	0.00082	<DL	0.0010	mg/L		18-AUG-20	R5191493
Iron (Fe)-Total	0.716		0.020	mg/L		18-AUG-20	R5191493
Lead (Pb)-Total	0.00013	<T	0.000050	mg/L		18-AUG-20	R5191493
Lithium (Li)-Total	0.0068	<DL	0.050	mg/L		18-AUG-20	R5191493
Magnesium (Mg)-Total	16.4		0.020	mg/L		18-AUG-20	R5191493
Manganese (Mn)-Total	0.0946		0.0010	mg/L		18-AUG-20	R5191493
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190765
Molybdenum (Mo)-Total	0.000195	<DL	0.0010	mg/L		18-AUG-20	R5191493
Nickel (Ni)-Total	0.00136	<DL	0.0020	mg/L		18-AUG-20	R5191493
Phosphorus (P)-Total	0.070		0.050	mg/L		18-AUG-20	R5191493
Potassium (K)-Total	1.50		0.50	mg/L		18-AUG-20	R5191493
Rubidium (Rb)-Total	0.00254		0.00020	mg/L		18-AUG-20	R5191493
Selenium (Se)-Total	0.000200	<T	0.000050	mg/L		18-AUG-20	R5191493
Silicon (Si)-Total	5.74		0.10	mg/L		18-AUG-20	R5191493
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		18-AUG-20	R5191493
Sodium (Na)-Total	11.0		0.10	mg/L		18-AUG-20	R5191493
Strontium (Sr)-Total	0.104		0.0010	mg/L		18-AUG-20	R5191493
Sulfur (S)-Total	0.8		0.50	mg/L		18-AUG-20	R5191493
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		18-AUG-20	R5191493
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		18-AUG-20	R5191493
Thorium (Th)-Total	0.00002	<DL	0.00010	mg/L		18-AUG-20	R5191493
Tin (Sn)-Total	0.00114		0.0010	mg/L		18-AUG-20	R5191493
Titanium (Ti)-Total	0.00365		0.0020	mg/L		18-AUG-20	R5191493
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		18-AUG-20	R5191493
Uranium (U)-Total	0.000206	<DL	0.0050	mg/L		18-AUG-20	R5191493
Vanadium (V)-Total	0.00085	<DL	0.0010	mg/L		18-AUG-20	R5191493
Zinc (Zn)-Total	0.0020	<DL	0.0030	mg/L		18-AUG-20	R5191493

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-8 SW06							
Sampled By: Client on 11-AUG-20 @ 12:00							
Matrix: Water							
Total Metals							
Zirconium (Zr)-Total	0.000248	<DL	0.0010	mg/L		18-AUG-20	R5191493
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					17-AUG-20	R5190146
Aluminum (Al)-Dissolved	0.0042	<DL	0.0050	mg/L		17-AUG-20	R5190702
Antimony (Sb)-Dissolved	0.000050	<DL	0.00060	mg/L		17-AUG-20	R5190702
Arsenic (As)-Dissolved	0.00167	<T	0.0010	mg/L		17-AUG-20	R5190702
Barium (Ba)-Dissolved	0.0182		0.010	mg/L		17-AUG-20	R5190702
Beryllium (Be)-Dissolved	0.000010	<DL	0.0010	mg/L		17-AUG-20	R5190702
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-AUG-20	R5190702
Boron (B)-Dissolved	0.0205	<DL	0.050	mg/L		17-AUG-20	R5190702
Cadmium (Cd)-Dissolved	0.0000070	<DL	0.000017	mg/L		17-AUG-20	R5190702
Calcium (Ca)-Dissolved	35.0		0.20	mg/L		17-AUG-20	R5190702
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		17-AUG-20	R5190702
Chromium (Cr)-Dissolved	0.00018	<DL	0.0010	mg/L		17-AUG-20	R5190702
Cobalt (Co)-Dissolved	0.000258	<DL	0.00050	mg/L		17-AUG-20	R5190702
Copper (Cu)-Dissolved	0.00024	<DL	0.0010	mg/L		17-AUG-20	R5190702
Iron (Fe)-Dissolved	0.297		0.020	mg/L		17-AUG-20	R5190702
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		17-AUG-20	R5190702
Lithium (Li)-Dissolved	0.0064	<DL	0.050	mg/L		17-AUG-20	R5190702
Magnesium (Mg)-Dissolved	15.2		0.020	mg/L		17-AUG-20	R5190702
Manganese (Mn)-Dissolved	0.0808		0.0010	mg/L		17-AUG-20	R5190702
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190764
Molybdenum (Mo)-Dissolved	0.000198	<DL	0.0010	mg/L		17-AUG-20	R5190702
Nickel (Ni)-Dissolved	0.00130	<DL	0.0020	mg/L		17-AUG-20	R5190702
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		17-AUG-20	R5190702
Potassium (K)-Dissolved	1.61		0.50	mg/L		17-AUG-20	R5190702
Rubidium (Rb)-Dissolved	0.00252		0.00020	mg/L		17-AUG-20	R5190702
Selenium (Se)-Dissolved	0.000170	<T	0.000050	mg/L		17-AUG-20	R5190702
Silicon (Si)-Dissolved	5.31		0.050	mg/L		17-AUG-20	R5190702
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-AUG-20	R5190702
Sodium (Na)-Dissolved	10.0		0.10	mg/L		17-AUG-20	R5190702
Strontium (Sr)-Dissolved	0.111		0.0010	mg/L		17-AUG-20	R5190702
Sulfur (S)-Dissolved	0.6		0.50	mg/L		17-AUG-20	R5190702
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-AUG-20	R5190702
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-AUG-20	R5190702
Thorium (Th)-Dissolved	0.00001	<DL	0.00010	mg/L		17-AUG-20	R5190702
Tin (Sn)-Dissolved	0.000080	<DL	0.0010	mg/L		17-AUG-20	R5190702
Titanium (Ti)-Dissolved	0.00020	<DL	0.0020	mg/L		17-AUG-20	R5190702
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		17-AUG-20	R5190702
Uranium (U)-Dissolved	0.000204	<DL	0.0050	mg/L		17-AUG-20	R5190702
Vanadium (V)-Dissolved	0.00040	<DL	0.0010	mg/L		17-AUG-20	R5190702

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-8 SW06 Sampled By: Client on 11-AUG-20 @ 12:00 Matrix: Water							
Dissolved Metals							
Zinc (Zn)-Dissolved	0.0008	<DL	0.0030	mg/L		17-AUG-20	R5190702
Zirconium (Zr)-Dissolved	0.000230	<DL	0.0010	mg/L		17-AUG-20	R5190702
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-AUG-20	R5191903
Chemical Oxygen Demand	92		20	mg/L	14-AUG-20	19-AUG-20	R5191756
Oil and Grease, Total	0.4	<DL	1.0	mg/L	18-AUG-20	18-AUG-20	R5190724
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		31-AUG-20	R5209561
L2488710-9 SW10 Sampled By: Client on 12-AUG-20 @ 08:40 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	0		0	mg/L		17-AUG-20	R5189926
pH, Client Supplied	7.51		0.10	pH		17-AUG-20	R5189926
Temperature, Client Supplied	17.18		0	Degree C		17-AUG-20	R5189926
Physical Tests							
Color, True	89.9		2.0	CU		14-AUG-20	R5189238
Conductivity (EC)	351		1.0	uS/cm		15-AUG-20	R5189745
Hardness (as CaCO3)	169		0.51	mg/L		19-AUG-20	
pH	7.92		0.10	pH		15-AUG-20	R5189745
Total Suspended Solids	1.5	<DL	3.0	mg/L		18-AUG-20	R5191415
Total Dissolved Solids	264		20	mg/L		18-AUG-20	R5191518
Turbidity	3.05		0.10	NTU		14-AUG-20	R5189283
Anions and Nutrients							
Acidity (as CaCO3)	1.0	<DL	2.0	mg/L		16-AUG-20	R5190273
Alkalinity, Total (as CaCO3)	182		2.0	mg/L		15-AUG-20	R5189745
Ammonia, Total (as N)	0.034	<T	0.0050	mg/L		21-AUG-20	R5195703
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		21-AUG-20	
Chloride (Cl)	11.6		0.10	mg/L	14-AUG-20	14-AUG-20	R5189577
Fluoride (F)	0.065		0.020	mg/L	14-AUG-20	14-AUG-20	R5189577
Nitrate (as N)	<0.002	<W	0.020	mg/L		14-AUG-20	R5189577
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-AUG-20	R5189577
Orthophosphate-Dissolved (as P)	0.0172		0.0030	mg/L	14-AUG-20	15-AUG-20	R5189607
Sulfate (SO4)	1.60	<T	0.30	mg/L		14-AUG-20	R5189577
Cyanides							
Cyanide, Weak Acid Diss	0.0007	<DL	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Total	0.0006	<DL	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Free	0.0005	<DL	0.0020	mg/L		17-AUG-20	R5190691
Organic / Inorganic Carbon							
Dissolved Organic Carbon	37.9	DLM	5.0	mg/L	14-AUG-20	20-AUG-20	R5194497
Total Organic Carbon	52.8	DLM	5.0	mg/L		20-AUG-20	R5194520
Total Metals							
Aluminum (Al)-Total	0.0878		0.0050	mg/L		18-AUG-20	R5191493

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-9 SW10							
Sampled By: Client on 12-AUG-20 @ 08:40							
Matrix: Water							
Total Metals							
Antimony (Sb)-Total	0.000060	<DL	0.00060	mg/L		18-AUG-20	R5191493
Arsenic (As)-Total	0.00224	<T	0.0010	mg/L		18-AUG-20	R5191493
Barium (Ba)-Total	0.0161		0.010	mg/L		18-AUG-20	R5191493
Beryllium (Be)-Total	0.0000108	<DL	0.0010	mg/L		18-AUG-20	R5191493
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-AUG-20	R5191493
Boron (B)-Total	0.0255	<DL	0.050	mg/L		18-AUG-20	R5191493
Cadmium (Cd)-Total	0.000011	<DL	0.000017	mg/L		18-AUG-20	R5191493
Calcium (Ca)-Total	41.8		0.20	mg/L		18-AUG-20	R5191493
Cesium (Cs)-Total	0.0000140		0.000010	mg/L		18-AUG-20	R5191493
Chromium (Cr)-Total	0.00032	<DL	0.0010	mg/L		18-AUG-20	R5191493
Cobalt (Co)-Total	0.000285	<DL	0.00050	mg/L		18-AUG-20	R5191493
Copper (Cu)-Total	0.00066	<DL	0.0010	mg/L		18-AUG-20	R5191493
Iron (Fe)-Total	0.304		0.020	mg/L		18-AUG-20	R5191493
Lead (Pb)-Total	0.00010	<T	0.000050	mg/L		18-AUG-20	R5191493
Lithium (Li)-Total	0.0084	<DL	0.050	mg/L		18-AUG-20	R5191493
Magnesium (Mg)-Total	18.5		0.020	mg/L		18-AUG-20	R5191493
Manganese (Mn)-Total	0.0824		0.0010	mg/L		18-AUG-20	R5191493
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190765
Molybdenum (Mo)-Total	0.000430	<DL	0.0010	mg/L		18-AUG-20	R5191493
Nickel (Ni)-Total	0.00166	<DL	0.0020	mg/L		18-AUG-20	R5191493
Phosphorus (P)-Total	0.060		0.050	mg/L		18-AUG-20	R5191493
Potassium (K)-Total	1.44		0.50	mg/L		18-AUG-20	R5191493
Rubidium (Rb)-Total	0.00162		0.00020	mg/L		18-AUG-20	R5191493
Selenium (Se)-Total	0.000195	<T	0.000050	mg/L		18-AUG-20	R5191493
Silicon (Si)-Total	4.30		0.10	mg/L		18-AUG-20	R5191493
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		18-AUG-20	R5191493
Sodium (Na)-Total	8.58		0.10	mg/L		18-AUG-20	R5191493
Strontium (Sr)-Total	0.134		0.0010	mg/L		18-AUG-20	R5191493
Sulfur (S)-Total	1.2		0.50	mg/L		18-AUG-20	R5191493
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		18-AUG-20	R5191493
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		18-AUG-20	R5191493
Thorium (Th)-Total	0.00002	<DL	0.00010	mg/L		18-AUG-20	R5191493
Tin (Sn)-Total	0.00025	<DL	0.0010	mg/L		18-AUG-20	R5191493
Titanium (Ti)-Total	0.00294		0.0020	mg/L		18-AUG-20	R5191493
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		18-AUG-20	R5191493
Uranium (U)-Total	0.000349	<DL	0.0050	mg/L		18-AUG-20	R5191493
Vanadium (V)-Total	0.00090	<DL	0.0010	mg/L		18-AUG-20	R5191493
Zinc (Zn)-Total	0.0015	<DL	0.0030	mg/L		18-AUG-20	R5191493
Zirconium (Zr)-Total	0.000256	<DL	0.0010	mg/L		18-AUG-20	R5191493
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					17-AUG-20	R5190146

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-9 SW10							
Sampled By: Client on 12-AUG-20 @ 08:40							
Matrix: Water							
Dissolved Metals							
Aluminum (Al)-Dissolved	0.0032	<DL	0.0050	mg/L		17-AUG-20	R5190702
Antimony (Sb)-Dissolved	0.000055	<DL	0.00060	mg/L		17-AUG-20	R5190702
Arsenic (As)-Dissolved	0.00210	<T	0.0010	mg/L		17-AUG-20	R5190702
Barium (Ba)-Dissolved	0.0164		0.010	mg/L		17-AUG-20	R5190702
Beryllium (Be)-Dissolved	0.000006	<DL	0.0010	mg/L		17-AUG-20	R5190702
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-AUG-20	R5190702
Boron (B)-Dissolved	0.0240	<DL	0.050	mg/L		17-AUG-20	R5190702
Cadmium (Cd)-Dissolved	0.0000060	<DL	0.000017	mg/L		17-AUG-20	R5190702
Calcium (Ca)-Dissolved	39.5		0.20	mg/L		17-AUG-20	R5190702
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		17-AUG-20	R5190702
Chromium (Cr)-Dissolved	0.00015	<DL	0.0010	mg/L		17-AUG-20	R5190702
Cobalt (Co)-Dissolved	0.000198	<DL	0.00050	mg/L		17-AUG-20	R5190702
Copper (Cu)-Dissolved	0.00048	<DL	0.0010	mg/L		17-AUG-20	R5190702
Iron (Fe)-Dissolved	0.155		0.020	mg/L		17-AUG-20	R5190702
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		17-AUG-20	R5190702
Lithium (Li)-Dissolved	0.0082	<DL	0.050	mg/L		17-AUG-20	R5190702
Magnesium (Mg)-Dissolved	17.2		0.020	mg/L		17-AUG-20	R5190702
Manganese (Mn)-Dissolved	0.0715		0.0010	mg/L		17-AUG-20	R5190702
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190764
Molybdenum (Mo)-Dissolved	0.000434	<DL	0.0010	mg/L		17-AUG-20	R5190702
Nickel (Ni)-Dissolved	0.00168	<DL	0.0020	mg/L		17-AUG-20	R5190702
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		17-AUG-20	R5190702
Potassium (K)-Dissolved	1.57		0.50	mg/L		17-AUG-20	R5190702
Rubidium (Rb)-Dissolved	0.00152		0.00020	mg/L		17-AUG-20	R5190702
Selenium (Se)-Dissolved	0.000155	<T	0.000050	mg/L		17-AUG-20	R5190702
Silicon (Si)-Dissolved	4.05		0.050	mg/L		17-AUG-20	R5190702
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-AUG-20	R5190702
Sodium (Na)-Dissolved	8.04		0.10	mg/L		17-AUG-20	R5190702
Strontium (Sr)-Dissolved	0.140		0.0010	mg/L		17-AUG-20	R5190702
Sulfur (S)-Dissolved	1.2		0.50	mg/L		17-AUG-20	R5190702
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-AUG-20	R5190702
Thallium (Tl)-Dissolved	0.000002	<DL	0.00030	mg/L		17-AUG-20	R5190702
Thorium (Th)-Dissolved	0.00001	<DL	0.00010	mg/L		17-AUG-20	R5190702
Tin (Sn)-Dissolved	0.000125	<DL	0.0010	mg/L		17-AUG-20	R5190702
Titanium (Ti)-Dissolved	0.00016	<DL	0.0020	mg/L		17-AUG-20	R5190702
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		17-AUG-20	R5190702
Uranium (U)-Dissolved	0.000375	<DL	0.0050	mg/L		17-AUG-20	R5190702
Vanadium (V)-Dissolved	0.00064	<DL	0.0010	mg/L		17-AUG-20	R5190702
Zinc (Zn)-Dissolved	0.0006	<DL	0.0030	mg/L		17-AUG-20	R5190702
Zirconium (Zr)-Dissolved	0.000276	<DL	0.0010	mg/L		17-AUG-20	R5190702
Aggregate Organics							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-9 SW10 Sampled By: Client on 12-AUG-20 @ 08:40 Matrix: Water							
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-AUG-20	R5191903
Chemical Oxygen Demand	85		20	mg/L	14-AUG-20	19-AUG-20	R5191756
Oil and Grease, Total	1.0		1.0	mg/L	18-AUG-20	18-AUG-20	R5190724
L2488710-10 SW02 Sampled By: Client on 12-AUG-20 @ 09:20 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	2.37		0	mg/L		17-AUG-20	R5189926
pH, Client Supplied	7.11		0.10	pH		17-AUG-20	R5189926
Temperature, Client Supplied	15.63		0	Degree C		17-AUG-20	R5189926
Physical Tests							
Color, True	117		2.0	CU		14-AUG-20	R5189238
Conductivity (EC)	150		1.0	uS/cm		15-AUG-20	R5189745
Hardness (as CaCO3)	81.5		0.51	mg/L		19-AUG-20	
pH	7.69		0.10	pH		15-AUG-20	R5189745
Total Suspended Solids	<0.5	<W	3.0	mg/L		18-AUG-20	R5191415
Total Dissolved Solids	138		13	mg/L		18-AUG-20	R5191518
Turbidity	0.73		0.10	NTU		14-AUG-20	R5189283
Anions and Nutrients							
Acidity (as CaCO3)	1.2	<DL	2.0	mg/L		16-AUG-20	R5190273
Alkalinity, Total (as CaCO3)	86.0		2.0	mg/L		15-AUG-20	R5189745
Ammonia, Total (as N)	0.026	<T	0.0050	mg/L		21-AUG-20	R5195703
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		21-AUG-20	
Chloride (Cl)	<0.10		0.10	mg/L	14-AUG-20	14-AUG-20	R5189577
Fluoride (F)	0.037		0.020	mg/L	14-AUG-20	14-AUG-20	R5189577
Nitrate (as N)	0.014	<DL	0.020	mg/L		14-AUG-20	R5189577
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-AUG-20	R5189577
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	14-AUG-20	15-AUG-20	R5189607
Sulfate (SO4)	<0.05	<W	0.30	mg/L		14-AUG-20	R5189577
Cyanides							
Cyanide, Weak Acid Diss	0.0006	<DL	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Total	0.0002	<DL	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Free	0.0003	<DL	0.0020	mg/L		17-AUG-20	R5190691
Organic / Inorganic Carbon							
Dissolved Organic Carbon	37.8	DLM	5.0	mg/L	14-AUG-20	20-AUG-20	R5194497
Total Organic Carbon	50.9	DLM	5.0	mg/L		20-AUG-20	R5194520
Total Metals							
Aluminum (Al)-Total	0.0236	<T	0.0050	mg/L		18-AUG-20	R5191493
Antimony (Sb)-Total	0.000015	<DL	0.00060	mg/L		18-AUG-20	R5191493
Arsenic (As)-Total	0.00082	<DL	0.0010	mg/L		18-AUG-20	R5191493
Barium (Ba)-Total	0.0105		0.010	mg/L		18-AUG-20	R5191493
Beryllium (Be)-Total	0.0000020	<DL	0.0010	mg/L		18-AUG-20	R5191493

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-10 SW02							
Sampled By: Client on 12-AUG-20 @ 09:20							
Matrix: Water							
Total Metals							
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-AUG-20	R5191493
Boron (B)-Total	0.0075	<DL	0.050	mg/L		18-AUG-20	R5191493
Cadmium (Cd)-Total	0.000027	<T	0.000017	mg/L		18-AUG-20	R5191493
Calcium (Ca)-Total	21.2		0.20	mg/L		18-AUG-20	R5191493
Cesium (Cs)-Total	0.0000020	<DL	0.000010	mg/L		18-AUG-20	R5191493
Chromium (Cr)-Total	0.00022	<DL	0.0010	mg/L		18-AUG-20	R5191493
Cobalt (Co)-Total	0.000110	<DL	0.00050	mg/L		18-AUG-20	R5191493
Copper (Cu)-Total	0.00086	<DL	0.0010	mg/L		18-AUG-20	R5191493
Iron (Fe)-Total	0.269		0.020	mg/L		18-AUG-20	R5191493
Lead (Pb)-Total	0.00009	<T	0.000050	mg/L		18-AUG-20	R5191493
Lithium (Li)-Total	0.0020	<DL	0.050	mg/L		18-AUG-20	R5191493
Magnesium (Mg)-Total	9.13		0.020	mg/L		18-AUG-20	R5191493
Manganese (Mn)-Total	0.0260		0.0010	mg/L		18-AUG-20	R5191493
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190765
Molybdenum (Mo)-Total	0.000040	<DL	0.0010	mg/L		18-AUG-20	R5191493
Nickel (Ni)-Total	0.00018	<DL	0.0020	mg/L		18-AUG-20	R5191493
Phosphorus (P)-Total	0.010	<DL	0.050	mg/L		18-AUG-20	R5191493
Potassium (K)-Total	0.05	<DL	0.50	mg/L		18-AUG-20	R5191493
Rubidium (Rb)-Total	0.000350		0.00020	mg/L		18-AUG-20	R5191493
Selenium (Se)-Total	0.000125	<T	0.000050	mg/L		18-AUG-20	R5191493
Silicon (Si)-Total	6.57		0.10	mg/L		18-AUG-20	R5191493
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		18-AUG-20	R5191493
Sodium (Na)-Total	0.850		0.10	mg/L		18-AUG-20	R5191493
Strontium (Sr)-Total	0.0396		0.0010	mg/L		18-AUG-20	R5191493
Sulfur (S)-Total	0.2	<DL	0.50	mg/L		18-AUG-20	R5191493
Tellurium (Te)-Total	0.00004	<DL	0.0010	mg/L		18-AUG-20	R5191493
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		18-AUG-20	R5191493
Thorium (Th)-Total	<0.00001	<W	0.00010	mg/L		18-AUG-20	R5191493
Tin (Sn)-Total	0.00062	<DL	0.0010	mg/L		18-AUG-20	R5191493
Titanium (Ti)-Total	0.00054	<DL	0.0020	mg/L		18-AUG-20	R5191493
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		18-AUG-20	R5191493
Uranium (U)-Total	0.0000290	<DL	0.0050	mg/L		18-AUG-20	R5191493
Vanadium (V)-Total	0.00030	<DL	0.0010	mg/L		18-AUG-20	R5191493
Zinc (Zn)-Total	0.0015	<DL	0.0030	mg/L		18-AUG-20	R5191493
Zirconium (Zr)-Total	0.000070	<DL	0.0010	mg/L		18-AUG-20	R5191493
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					17-AUG-20	R5190146
Aluminum (Al)-Dissolved	0.0100	<T	0.0050	mg/L		17-AUG-20	R5190702
Antimony (Sb)-Dissolved	0.000015	<DL	0.00060	mg/L		17-AUG-20	R5190702
Arsenic (As)-Dissolved	0.000775	<DL	0.0010	mg/L		17-AUG-20	R5190702
Barium (Ba)-Dissolved	0.0107		0.010	mg/L		17-AUG-20	R5190702

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-10 SW02							
Sampled By: Client on 12-AUG-20 @ 09:20							
Matrix: Water							
Dissolved Metals							
Beryllium (Be)-Dissolved	0.000004	<DL	0.0010	mg/L		17-AUG-20	R5190702
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-AUG-20	R5190702
Boron (B)-Dissolved	0.0070	<DL	0.050	mg/L		17-AUG-20	R5190702
Cadmium (Cd)-Dissolved	0.0000130	<DL	0.000017	mg/L		17-AUG-20	R5190702
Calcium (Ca)-Dissolved	19.0		0.20	mg/L		17-AUG-20	R5190702
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		17-AUG-20	R5190702
Chromium (Cr)-Dissolved	0.00011	<DL	0.0010	mg/L		17-AUG-20	R5190702
Cobalt (Co)-Dissolved	0.000094	<DL	0.00050	mg/L		17-AUG-20	R5190702
Copper (Cu)-Dissolved	0.00030	<DL	0.0010	mg/L		17-AUG-20	R5190702
Iron (Fe)-Dissolved	0.262		0.020	mg/L		17-AUG-20	R5190702
Lead (Pb)-Dissolved	0.00003	<DL	0.000050	mg/L		17-AUG-20	R5190702
Lithium (Li)-Dissolved	0.0018	<DL	0.050	mg/L		17-AUG-20	R5190702
Magnesium (Mg)-Dissolved	8.29		0.020	mg/L		17-AUG-20	R5190702
Manganese (Mn)-Dissolved	0.0231		0.0010	mg/L		17-AUG-20	R5190702
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190764
Molybdenum (Mo)-Dissolved	0.000042	<DL	0.0010	mg/L		17-AUG-20	R5190702
Nickel (Ni)-Dissolved	0.00030	<DL	0.0020	mg/L		17-AUG-20	R5190702
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		17-AUG-20	R5190702
Potassium (K)-Dissolved	0.07	<DL	0.50	mg/L		17-AUG-20	R5190702
Rubidium (Rb)-Dissolved	0.000336		0.00020	mg/L		17-AUG-20	R5190702
Selenium (Se)-Dissolved	0.000090	<T	0.000050	mg/L		17-AUG-20	R5190702
Silicon (Si)-Dissolved	6.43		0.050	mg/L		17-AUG-20	R5190702
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-AUG-20	R5190702
Sodium (Na)-Dissolved	0.780		0.10	mg/L		17-AUG-20	R5190702
Strontium (Sr)-Dissolved	0.0407		0.0010	mg/L		17-AUG-20	R5190702
Sulfur (S)-Dissolved	<0.2	<W	0.50	mg/L		17-AUG-20	R5190702
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-AUG-20	R5190702
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-AUG-20	R5190702
Thorium (Th)-Dissolved	0.00001	<DL	0.00010	mg/L		17-AUG-20	R5190702
Tin (Sn)-Dissolved	0.000215	<DL	0.0010	mg/L		17-AUG-20	R5190702
Titanium (Ti)-Dissolved	0.00012	<DL	0.0020	mg/L		17-AUG-20	R5190702
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		17-AUG-20	R5190702
Uranium (U)-Dissolved	0.0000255	<DL	0.0050	mg/L		17-AUG-20	R5190702
Vanadium (V)-Dissolved	0.00018	<DL	0.0010	mg/L		17-AUG-20	R5190702
Zinc (Zn)-Dissolved	0.0012	<DL	0.0030	mg/L		17-AUG-20	R5190702
Zirconium (Zr)-Dissolved	0.000086	<DL	0.0010	mg/L		17-AUG-20	R5190702
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-AUG-20	R5191903
Chemical Oxygen Demand	79		20	mg/L	14-AUG-20	19-AUG-20	R5191756
Oil and Grease, Total	1.4		1.0	mg/L	18-AUG-20	18-AUG-20	R5190724
L2488710-11 SW26							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-11 SW26							
Sampled By: Client on 12-AUG-20 @ 10:00							
Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	3.67		0	mg/L		17-AUG-20	R5189926
pH, Client Supplied	8.39		0.10	pH		17-AUG-20	R5189926
Temperature, Client Supplied	18.88		0	Degree C		17-AUG-20	R5189926
Physical Tests							
Color, True	30.5		2.0	CU		14-AUG-20	R5189238
Conductivity (EC)	635		1.0	uS/cm		15-AUG-20	R5189745
Hardness (as CaCO3)	297		0.51	mg/L		19-AUG-20	
pH	8.36		0.10	pH		15-AUG-20	R5189745
Total Suspended Solids	8.5		3.0	mg/L		18-AUG-20	R5191434
Total Dissolved Solids	428		20	mg/L		18-AUG-20	R5191498
Turbidity	8.16		0.10	NTU		14-AUG-20	R5189283
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		16-AUG-20	R5190273
Alkalinity, Total (as CaCO3)	264		2.0	mg/L		15-AUG-20	R5189745
Ammonia, Total (as N)	0.016	<T	0.0050	mg/L		21-AUG-20	R5195703
Ammonia, Un-ionized (as N)	0.001	<DL	0.010	mg/L		21-AUG-20	
Chloride (Cl)	40.1		0.10	mg/L	14-AUG-20	14-AUG-20	R5189577
Fluoride (F)	0.098		0.020	mg/L	14-AUG-20	14-AUG-20	R5189577
Nitrate (as N)	<0.002	<W	0.020	mg/L		14-AUG-20	R5189577
Nitrite (as N)	0.002	<DL	0.010	mg/L		14-AUG-20	R5189577
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	14-AUG-20	15-AUG-20	R5189607
Sulfate (SO4)	39.9		0.30	mg/L		14-AUG-20	R5189577
Cyanides							
Cyanide, Weak Acid Diss	0.0003	<DL	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Total	0.0002	<DL	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Free	0.0002	<DL	0.0020	mg/L		17-AUG-20	R5190691
Organic / Inorganic Carbon							
Dissolved Organic Carbon	22.1	DLM	5.0	mg/L	14-AUG-20	20-AUG-20	R5194497
Total Organic Carbon	32.1	DLM	5.0	mg/L		20-AUG-20	R5194520
Total Metals							
Aluminum (Al)-Total	0.225		0.0050	mg/L		18-AUG-20	R5191493
Antimony (Sb)-Total	0.000170	<DL	0.00060	mg/L		18-AUG-20	R5191493
Arsenic (As)-Total	0.00246	<T	0.0010	mg/L		18-AUG-20	R5191493
Barium (Ba)-Total	0.0292		0.010	mg/L		18-AUG-20	R5191493
Beryllium (Be)-Total	0.0000117	<DL	0.0010	mg/L		18-AUG-20	R5191493
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-AUG-20	R5191493
Boron (B)-Total	0.0515		0.050	mg/L		18-AUG-20	R5191493
Cadmium (Cd)-Total	0.000008	<DL	0.000017	mg/L		18-AUG-20	R5191493
Calcium (Ca)-Total	71.8		0.20	mg/L		18-AUG-20	R5191493
Cesium (Cs)-Total	0.0000360		0.000010	mg/L		18-AUG-20	R5191493
Chromium (Cr)-Total	0.00044	<DL	0.0010	mg/L		18-AUG-20	R5191493
Cobalt (Co)-Total	0.000475	<DL	0.00050	mg/L		18-AUG-20	R5191493

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-11 SW26							
Sampled By: Client on 12-AUG-20 @ 10:00							
Matrix: Water							
Total Metals							
Copper (Cu)-Total	0.00134	<T	0.0010	mg/L		18-AUG-20	R5191493
Iron (Fe)-Total	0.421		0.020	mg/L		18-AUG-20	R5191493
Lead (Pb)-Total	0.00023	<T	0.000050	mg/L		18-AUG-20	R5191493
Lithium (Li)-Total	0.0166	<DL	0.050	mg/L		18-AUG-20	R5191493
Magnesium (Mg)-Total	34.3		0.020	mg/L		18-AUG-20	R5191493
Manganese (Mn)-Total	0.170		0.0010	mg/L		18-AUG-20	R5191493
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190765
Molybdenum (Mo)-Total	0.00190	<T	0.0010	mg/L		18-AUG-20	R5191493
Nickel (Ni)-Total	0.00180	<DL	0.0020	mg/L		18-AUG-20	R5191493
Phosphorus (P)-Total	0.055		0.050	mg/L		18-AUG-20	R5191493
Potassium (K)-Total	3.36		0.50	mg/L		18-AUG-20	R5191493
Rubidium (Rb)-Total	0.00187		0.00020	mg/L		18-AUG-20	R5191493
Selenium (Se)-Total	0.000220	<T	0.000050	mg/L		18-AUG-20	R5191493
Silicon (Si)-Total	3.85		0.10	mg/L		18-AUG-20	R5191493
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		18-AUG-20	R5191493
Sodium (Na)-Total	11.7		0.10	mg/L		18-AUG-20	R5191493
Strontium (Sr)-Total	0.238		0.0010	mg/L		18-AUG-20	R5191493
Sulfur (S)-Total	14.2		0.50	mg/L		18-AUG-20	R5191493
Tellurium (Te)-Total	0.00008	<DL	0.0010	mg/L		18-AUG-20	R5191493
Thallium (Tl)-Total	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5191493
Thorium (Th)-Total	0.00003	<DL	0.00010	mg/L		18-AUG-20	R5191493
Tin (Sn)-Total	0.00008	<DL	0.0010	mg/L		18-AUG-20	R5191493
Titanium (Ti)-Total	0.00657		0.0020	mg/L		18-AUG-20	R5191493
Tungsten (W)-Total	0.00001	<DL	0.010	mg/L		18-AUG-20	R5191493
Uranium (U)-Total	0.00281	<DL	0.0050	mg/L		18-AUG-20	R5191493
Vanadium (V)-Total	0.00240	<T	0.0010	mg/L		18-AUG-20	R5191493
Zinc (Zn)-Total	0.0025	<DL	0.0030	mg/L		18-AUG-20	R5191493
Zirconium (Zr)-Total	0.000278	<DL	0.0010	mg/L		18-AUG-20	R5191493
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					17-AUG-20	R5190146
Aluminum (Al)-Dissolved	0.0038	<DL	0.0050	mg/L		17-AUG-20	R5190702
Antimony (Sb)-Dissolved	0.000165	<DL	0.00060	mg/L		17-AUG-20	R5190702
Arsenic (As)-Dissolved	0.00216	<T	0.0010	mg/L		17-AUG-20	R5190702
Barium (Ba)-Dissolved	0.0284		0.010	mg/L		17-AUG-20	R5190702
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		17-AUG-20	R5190702
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-AUG-20	R5190702
Boron (B)-Dissolved	0.0455	<DL	0.050	mg/L		17-AUG-20	R5190702
Cadmium (Cd)-Dissolved	0.0000340	<T	0.000017	mg/L		17-AUG-20	R5190702
Calcium (Ca)-Dissolved	66.8		0.20	mg/L		17-AUG-20	R5190702
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		17-AUG-20	R5190702
Chromium (Cr)-Dissolved	0.00006	<DL	0.0010	mg/L		17-AUG-20	R5190702

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-11 SW26 Sampled By: Client on 12-AUG-20 @ 10:00 Matrix: Water							
Dissolved Metals							
Cobalt (Co)-Dissolved	0.000340	<DL	0.00050	mg/L		17-AUG-20	R5190702
Copper (Cu)-Dissolved	0.00122	<T	0.0010	mg/L		17-AUG-20	R5190702
Iron (Fe)-Dissolved	0.0300		0.020	mg/L		17-AUG-20	R5190702
Lead (Pb)-Dissolved	0.00005	<T	0.000050	mg/L		17-AUG-20	R5190702
Lithium (Li)-Dissolved	0.0170	<DL	0.050	mg/L		17-AUG-20	R5190702
Magnesium (Mg)-Dissolved	31.5		0.020	mg/L		17-AUG-20	R5190702
Manganese (Mn)-Dissolved	0.107		0.0010	mg/L		17-AUG-20	R5190702
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190764
Molybdenum (Mo)-Dissolved	0.00183	<T	0.0010	mg/L		17-AUG-20	R5190702
Nickel (Ni)-Dissolved	0.00154	<DL	0.0020	mg/L		17-AUG-20	R5190702
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		17-AUG-20	R5190702
Potassium (K)-Dissolved	3.51		0.50	mg/L		17-AUG-20	R5190702
Rubidium (Rb)-Dissolved	0.00151		0.00020	mg/L		17-AUG-20	R5190702
Selenium (Se)-Dissolved	0.000185	<T	0.000050	mg/L		17-AUG-20	R5190702
Silicon (Si)-Dissolved	3.36		0.050	mg/L		17-AUG-20	R5190702
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-AUG-20	R5190702
Sodium (Na)-Dissolved	10.8		0.10	mg/L		17-AUG-20	R5190702
Strontium (Sr)-Dissolved	0.252		0.0010	mg/L		17-AUG-20	R5190702
Sulfur (S)-Dissolved	13.4		0.50	mg/L		17-AUG-20	R5190702
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-AUG-20	R5190702
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-AUG-20	R5190702
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		17-AUG-20	R5190702
Tin (Sn)-Dissolved	0.000375	<DL	0.0010	mg/L		17-AUG-20	R5190702
Titanium (Ti)-Dissolved	0.00018	<DL	0.0020	mg/L		17-AUG-20	R5190702
Tungsten (W)-Dissolved	0.000004	<DL	0.010	mg/L		17-AUG-20	R5190702
Uranium (U)-Dissolved	0.00268	<DL	0.0050	mg/L		17-AUG-20	R5190702
Vanadium (V)-Dissolved	0.00152	<T	0.0010	mg/L		17-AUG-20	R5190702
Zinc (Zn)-Dissolved	0.0012	<DL	0.0030	mg/L		17-AUG-20	R5190702
Zirconium (Zr)-Dissolved	0.000210	<DL	0.0010	mg/L		17-AUG-20	R5190702
Aggregate Organics							
Biochemical Oxygen Demand	2.3		2.0	mg/L		14-AUG-20	R5191903
Chemical Oxygen Demand	43		20	mg/L	14-AUG-20	19-AUG-20	R5191756
Oil and Grease, Total	1.4		1.0	mg/L	18-AUG-20	18-AUG-20	R5190724
L2488710-12 SW21A Sampled By: Client on 11-AUG-20 @ 09:45 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	0		0	mg/L		17-AUG-20	R5189926
pH, Client Supplied	7.29		0.10	pH		17-AUG-20	R5189926
Temperature, Client Supplied	17.39		0	Degree C		17-AUG-20	R5189926
Physical Tests							
Color, True	70.1		2.0	CU		14-AUG-20	R5189238

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-12 SW21A							
Sampled By: Client on 11-AUG-20 @ 09:45							
Matrix: Water							
Physical Tests							
Conductivity (EC)	409		1.0	uS/cm		15-AUG-20	R5189745
Hardness (as CaCO3)	198		0.51	mg/L		19-AUG-20	
pH	7.79		0.10	pH		15-AUG-20	R5189745
Total Suspended Solids	23.0		3.0	mg/L		18-AUG-20	R5191415
Total Dissolved Solids	258		20	mg/L		18-AUG-20	R5191518
Turbidity	16.8		0.10	NTU		14-AUG-20	R5189283
Anions and Nutrients							
Acidity (as CaCO3)	3.4		2.0	mg/L		16-AUG-20	R5190273
Alkalinity, Total (as CaCO3)	221		2.0	mg/L		15-AUG-20	R5189745
Ammonia, Total (as N)	0.030	<T	0.0050	mg/L		21-AUG-20	R5195703
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		21-AUG-20	
Chloride (Cl)	10.3		0.10	mg/L	14-AUG-20	14-AUG-20	R5189577
Fluoride (F)	0.084		0.020	mg/L	14-AUG-20	14-AUG-20	R5189577
Nitrate (as N)	<0.002	<W	0.020	mg/L		14-AUG-20	R5189577
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-AUG-20	R5189577
Orthophosphate-Dissolved (as P)	0.0068		0.0030	mg/L	14-AUG-20	15-AUG-20	R5189607
Sulfate (SO4)	2.85	<T	0.30	mg/L		14-AUG-20	R5189577
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Total	0.0002	<DL	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Free	0.0004	<DL	0.0020	mg/L		17-AUG-20	R5190691
Organic / Inorganic Carbon							
Dissolved Organic Carbon	34.1	DLM	5.0	mg/L	14-AUG-20	20-AUG-20	R5194497
Total Organic Carbon	55.0	DLM	5.0	mg/L		20-AUG-20	R5194520
Total Metals							
Aluminum (Al)-Total	0.462		0.0050	mg/L		18-AUG-20	R5191493
Antimony (Sb)-Total	0.000100	<DL	0.00060	mg/L		18-AUG-20	R5191493
Arsenic (As)-Total	0.00263	<T	0.0010	mg/L		18-AUG-20	R5191493
Barium (Ba)-Total	0.0291		0.010	mg/L		18-AUG-20	R5191493
Beryllium (Be)-Total	0.0000284	<DL	0.0010	mg/L		18-AUG-20	R5191493
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-AUG-20	R5191493
Boron (B)-Total	0.0225	<DL	0.050	mg/L		18-AUG-20	R5191493
Cadmium (Cd)-Total	0.000020	<T	0.000017	mg/L		18-AUG-20	R5191493
Calcium (Ca)-Total	50.7		0.20	mg/L		18-AUG-20	R5191493
Cesium (Cs)-Total	0.0000745		0.000010	mg/L		18-AUG-20	R5191493
Chromium (Cr)-Total	0.00104		0.0010	mg/L		18-AUG-20	R5191493
Cobalt (Co)-Total	0.000655	<T	0.00050	mg/L		18-AUG-20	R5191493
Copper (Cu)-Total	0.00128	<T	0.0010	mg/L		18-AUG-20	R5191493
Iron (Fe)-Total	0.994		0.020	mg/L		18-AUG-20	R5191493
Lead (Pb)-Total	0.00034	<T	0.000050	mg/L		18-AUG-20	R5191493
Lithium (Li)-Total	0.0070	<DL	0.050	mg/L		18-AUG-20	R5191493
Magnesium (Mg)-Total	23.0		0.020	mg/L		18-AUG-20	R5191493

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-12 SW21A							
Sampled By: Client on 11-AUG-20 @ 09:45							
Matrix: Water							
Total Metals							
Manganese (Mn)-Total	0.587		0.0010	mg/L		18-AUG-20	R5191493
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		18-AUG-20	R5190765
Molybdenum (Mo)-Total	0.000355	<DL	0.0010	mg/L		18-AUG-20	R5191493
Nickel (Ni)-Total	0.00202	<T	0.0020	mg/L		18-AUG-20	R5191493
Phosphorus (P)-Total	0.090		0.050	mg/L		18-AUG-20	R5191493
Potassium (K)-Total	1.04		0.50	mg/L		18-AUG-20	R5191493
Rubidium (Rb)-Total	0.00259		0.00020	mg/L		18-AUG-20	R5191493
Selenium (Se)-Total	0.000250	<T	0.000050	mg/L		18-AUG-20	R5191493
Silicon (Si)-Total	5.72		0.10	mg/L		18-AUG-20	R5191493
Silver (Ag)-Total	0.000006	<DL	0.00010	mg/L		18-AUG-20	R5191493
Sodium (Na)-Total	7.22		0.10	mg/L		18-AUG-20	R5191493
Strontium (Sr)-Total	0.128		0.0010	mg/L		18-AUG-20	R5191493
Sulfur (S)-Total	1.4		0.50	mg/L		18-AUG-20	R5191493
Tellurium (Te)-Total	0.00006	<DL	0.0010	mg/L		18-AUG-20	R5191493
Thallium (Tl)-Total	0.000010	<DL	0.00030	mg/L		18-AUG-20	R5191493
Thorium (Th)-Total	0.00006	<DL	0.00010	mg/L		18-AUG-20	R5191493
Tin (Sn)-Total	0.00025	<DL	0.0010	mg/L		18-AUG-20	R5191493
Titanium (Ti)-Total	0.0142		0.0020	mg/L		18-AUG-20	R5191493
Tungsten (W)-Total	0.00002	<DL	0.010	mg/L		18-AUG-20	R5191493
Uranium (U)-Total	0.000446	<DL	0.0050	mg/L		18-AUG-20	R5191493
Vanadium (V)-Total	0.00180	<T	0.0010	mg/L		18-AUG-20	R5191493
Zinc (Zn)-Total	0.0035	<T	0.0030	mg/L		18-AUG-20	R5191493
Zirconium (Zr)-Total	0.000442	<DL	0.0010	mg/L		18-AUG-20	R5191493
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					17-AUG-20	R5190146
Aluminum (Al)-Dissolved	0.0038	<DL	0.0050	mg/L		17-AUG-20	R5190702
Antimony (Sb)-Dissolved	0.000105	<DL	0.00060	mg/L		17-AUG-20	R5190702
Arsenic (As)-Dissolved	0.00219	<T	0.0010	mg/L		17-AUG-20	R5190702
Barium (Ba)-Dissolved	0.0248		0.010	mg/L		17-AUG-20	R5190702
Beryllium (Be)-Dissolved	0.000012	<DL	0.0010	mg/L		17-AUG-20	R5190702
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-AUG-20	R5190702
Boron (B)-Dissolved	0.0195	<DL	0.050	mg/L		17-AUG-20	R5190702
Cadmium (Cd)-Dissolved	0.0000060	<DL	0.000017	mg/L		17-AUG-20	R5190702
Calcium (Ca)-Dissolved	46.0		0.20	mg/L		17-AUG-20	R5190702
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		17-AUG-20	R5190702
Chromium (Cr)-Dissolved	0.00012	<DL	0.0010	mg/L		17-AUG-20	R5190702
Cobalt (Co)-Dissolved	0.000356	<DL	0.00050	mg/L		17-AUG-20	R5190702
Copper (Cu)-Dissolved	0.00036	<DL	0.0010	mg/L		17-AUG-20	R5190702
Iron (Fe)-Dissolved	0.134		0.020	mg/L		17-AUG-20	R5190702
Lead (Pb)-Dissolved	0.00003	<DL	0.000050	mg/L		17-AUG-20	R5190702
Lithium (Li)-Dissolved	0.0062	<DL	0.050	mg/L		17-AUG-20	R5190702

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-12 SW21A Sampled By: Client on 11-AUG-20 @ 09:45 Matrix: Water							
Dissolved Metals							
Magnesium (Mg)-Dissolved	20.2		0.020	mg/L		17-AUG-20	R5190702
Manganese (Mn)-Dissolved	0.447		0.0010	mg/L		17-AUG-20	R5190702
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190764
Molybdenum (Mo)-Dissolved	0.000360	<DL	0.0010	mg/L		17-AUG-20	R5190702
Nickel (Ni)-Dissolved	0.00144	<DL	0.0020	mg/L		17-AUG-20	R5190702
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		17-AUG-20	R5190702
Potassium (K)-Dissolved	1.03		0.50	mg/L		17-AUG-20	R5190702
Rubidium (Rb)-Dissolved	0.00122		0.00020	mg/L		17-AUG-20	R5190702
Selenium (Se)-Dissolved	0.000185	<T	0.000050	mg/L		17-AUG-20	R5190702
Silicon (Si)-Dissolved	4.73		0.050	mg/L		17-AUG-20	R5190702
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-AUG-20	R5190702
Sodium (Na)-Dissolved	6.41		0.10	mg/L		17-AUG-20	R5190702
Strontium (Sr)-Dissolved	0.131		0.0010	mg/L		17-AUG-20	R5190702
Sulfur (S)-Dissolved	1.6		0.50	mg/L		17-AUG-20	R5190702
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-AUG-20	R5190702
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-AUG-20	R5190702
Thorium (Th)-Dissolved	0.00001	<DL	0.00010	mg/L		17-AUG-20	R5190702
Tin (Sn)-Dissolved	0.000150	<DL	0.0010	mg/L		17-AUG-20	R5190702
Titanium (Ti)-Dissolved	0.00016	<DL	0.0020	mg/L		17-AUG-20	R5190702
Tungsten (W)-Dissolved	0.000010	<DL	0.010	mg/L		17-AUG-20	R5190702
Uranium (U)-Dissolved	0.000444	<DL	0.0050	mg/L		17-AUG-20	R5190702
Vanadium (V)-Dissolved	0.00052	<DL	0.0010	mg/L		17-AUG-20	R5190702
Zinc (Zn)-Dissolved	0.0008	<DL	0.0030	mg/L		17-AUG-20	R5190702
Zirconium (Zr)-Dissolved	0.000222	<DL	0.0010	mg/L		17-AUG-20	R5190702
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-AUG-20	R5191903
Chemical Oxygen Demand	88		20	mg/L	14-AUG-20	19-AUG-20	R5191756
Oil and Grease, Total	1.0		1.0	mg/L	18-AUG-20	18-AUG-20	R5190724
L2488710-13 SW22A Sampled By: Client on 11-AUG-20 @ 09:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	.37		0	mg/L		17-AUG-20	R5189926
pH, Client Supplied	7.37		0.10	pH		17-AUG-20	R5189926
Temperature, Client Supplied	16.87		0	Degree C		17-AUG-20	R5189926
Physical Tests							
Color, True	67.8		2.0	CU		14-AUG-20	R5189238
Conductivity (EC)	380		1.0	uS/cm		15-AUG-20	R5189745
Hardness (as CaCO3)	180		0.51	mg/L		19-AUG-20	
pH	7.96		0.10	pH		15-AUG-20	R5189745
Total Suspended Solids	20.0		3.0	mg/L		17-AUG-20	R5190753
Total Dissolved Solids	270		20	mg/L		17-AUG-20	R5190730

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-13 SW22A Sampled By: Client on 11-AUG-20 @ 09:00 Matrix: Water							
Physical Tests							
Turbidity	20.5		0.10	NTU		14-AUG-20	R5189283
Anions and Nutrients							
Acidity (as CaCO3)	0.8	<DL	2.0	mg/L		16-AUG-20	R5190273
Alkalinity, Total (as CaCO3)	181		2.0	mg/L		15-AUG-20	R5189745
Ammonia, Total (as N)	0.042	<T	0.0050	mg/L		21-AUG-20	R5195703
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		21-AUG-20	
Chloride (Cl)	11.8		0.10	mg/L	14-AUG-20	14-AUG-20	R5189577
Fluoride (F)	0.150		0.020	mg/L	14-AUG-20	14-AUG-20	R5189577
Nitrate (as N)	0.004	<DL	0.020	mg/L		14-AUG-20	R5189577
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-AUG-20	R5189577
Orthophosphate-Dissolved (as P)	0.0729		0.0030	mg/L	14-AUG-20	15-AUG-20	R5189607
Sulfate (SO4)	17.3		0.30	mg/L		14-AUG-20	R5189577
Cyanides							
Cyanide, Weak Acid Diss	0.0003	<DL	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Total	0.0004	<DL	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Free	0.0006	<DL	0.0020	mg/L		17-AUG-20	R5190691
Organic / Inorganic Carbon							
Dissolved Organic Carbon	36.7	DLM	5.0	mg/L	14-AUG-20	20-AUG-20	R5194497
Total Organic Carbon	53.0	DLM	5.0	mg/L		20-AUG-20	R5194520
Total Metals							
Aluminum (Al)-Total	0.459		0.0050	mg/L		18-AUG-20	R5191493
Antimony (Sb)-Total	0.000150	<DL	0.00060	mg/L		18-AUG-20	R5191493
Arsenic (As)-Total	0.00404	<T	0.0010	mg/L		18-AUG-20	R5191493
Barium (Ba)-Total	0.0347		0.010	mg/L		18-AUG-20	R5191493
Beryllium (Be)-Total	0.0000283	<DL	0.0010	mg/L		18-AUG-20	R5191493
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-AUG-20	R5191493
Boron (B)-Total	0.0280	<DL	0.050	mg/L		18-AUG-20	R5191493
Cadmium (Cd)-Total	0.000019	<T	0.000017	mg/L		18-AUG-20	R5191493
Calcium (Ca)-Total	40.7		0.20	mg/L		18-AUG-20	R5191493
Cesium (Cs)-Total	0.0000615		0.000010	mg/L		18-AUG-20	R5191493
Chromium (Cr)-Total	0.00096	<DL	0.0010	mg/L		18-AUG-20	R5191493
Cobalt (Co)-Total	0.000565	<T	0.00050	mg/L		18-AUG-20	R5191493
Copper (Cu)-Total	0.00188	<T	0.0010	mg/L		18-AUG-20	R5191493
Iron (Fe)-Total	0.721		0.020	mg/L		18-AUG-20	R5191493
Lead (Pb)-Total	0.00043	<T	0.000050	mg/L		18-AUG-20	R5191493
Lithium (Li)-Total	0.0078	<DL	0.050	mg/L		18-AUG-20	R5191493
Magnesium (Mg)-Total	21.8		0.020	mg/L		18-AUG-20	R5191493
Manganese (Mn)-Total	0.159		0.0010	mg/L		18-AUG-20	R5191493
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		18-AUG-20	R5190765
Molybdenum (Mo)-Total	0.000740	<DL	0.0010	mg/L		18-AUG-20	R5191493
Nickel (Ni)-Total	0.00246	<T	0.0020	mg/L		18-AUG-20	R5191493
Phosphorus (P)-Total	0.205		0.050	mg/L		18-AUG-20	R5191493

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-13 SW22A							
Sampled By: Client on 11-AUG-20 @ 09:00							
Matrix: Water							
Total Metals							
Potassium (K)-Total	4.54		0.50	mg/L		18-AUG-20	R5191493
Rubidium (Rb)-Total	0.00300		0.00020	mg/L		18-AUG-20	R5191493
Selenium (Se)-Total	0.000260	<T	0.000050	mg/L		18-AUG-20	R5191493
Silicon (Si)-Total	2.58		0.10	mg/L		18-AUG-20	R5191493
Silver (Ag)-Total	0.000005	<DL	0.00010	mg/L		18-AUG-20	R5191493
Sodium (Na)-Total	8.48		0.10	mg/L		18-AUG-20	R5191493
Strontium (Sr)-Total	0.112		0.0010	mg/L		18-AUG-20	R5191493
Sulfur (S)-Total	6.6		0.50	mg/L		18-AUG-20	R5191493
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		18-AUG-20	R5191493
Thallium (Tl)-Total	0.000010	<DL	0.00030	mg/L		18-AUG-20	R5191493
Thorium (Th)-Total	0.00007	<DL	0.00010	mg/L		18-AUG-20	R5191493
Tin (Sn)-Total	0.00018	<DL	0.0010	mg/L		18-AUG-20	R5191493
Titanium (Ti)-Total	0.0147		0.0020	mg/L		18-AUG-20	R5191493
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		18-AUG-20	R5191493
Uranium (U)-Total	0.000731	<DL	0.0050	mg/L		18-AUG-20	R5191493
Vanadium (V)-Total	0.00270	<T	0.0010	mg/L		18-AUG-20	R5191493
Zinc (Zn)-Total	0.0055	<T	0.0030	mg/L		18-AUG-20	R5191493
Zirconium (Zr)-Total	0.000540	<DL	0.0010	mg/L		18-AUG-20	R5191493
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					17-AUG-20	R5190146
Aluminum (Al)-Dissolved	0.0042	<DL	0.0050	mg/L		17-AUG-20	R5190702
Antimony (Sb)-Dissolved	0.000190	<DL	0.00060	mg/L		17-AUG-20	R5190702
Arsenic (As)-Dissolved	0.00387	<T	0.0010	mg/L		17-AUG-20	R5190702
Barium (Ba)-Dissolved	0.0295		0.010	mg/L		17-AUG-20	R5190702
Beryllium (Be)-Dissolved	0.000012	<DL	0.0010	mg/L		17-AUG-20	R5190702
Bismuth (Bi)-Dissolved	0.000008	<DL	0.0010	mg/L		17-AUG-20	R5190702
Boron (B)-Dissolved	0.0250	<DL	0.050	mg/L		17-AUG-20	R5190702
Cadmium (Cd)-Dissolved	0.0000050	<DL	0.000017	mg/L		17-AUG-20	R5190702
Calcium (Ca)-Dissolved	38.7		0.20	mg/L		17-AUG-20	R5190702
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		17-AUG-20	R5190702
Chromium (Cr)-Dissolved	0.00012	<DL	0.0010	mg/L		17-AUG-20	R5190702
Cobalt (Co)-Dissolved	0.000226	<DL	0.00050	mg/L		17-AUG-20	R5190702
Copper (Cu)-Dissolved	0.00106	<T	0.0010	mg/L		17-AUG-20	R5190702
Iron (Fe)-Dissolved	0.0425		0.020	mg/L		17-AUG-20	R5190702
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		17-AUG-20	R5190702
Lithium (Li)-Dissolved	0.0076	<DL	0.050	mg/L		17-AUG-20	R5190702
Magnesium (Mg)-Dissolved	20.3		0.020	mg/L		17-AUG-20	R5190702
Manganese (Mn)-Dissolved	0.0160		0.0010	mg/L		17-AUG-20	R5190702
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190764
Molybdenum (Mo)-Dissolved	0.000804	<DL	0.0010	mg/L		17-AUG-20	R5190702
Nickel (Ni)-Dissolved	0.00184	<DL	0.0020	mg/L		17-AUG-20	R5190702

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-13 SW22A Sampled By: Client on 11-AUG-20 @ 09:00 Matrix: Water							
Dissolved Metals							
Phosphorus (P)-Dissolved	0.070		0.050	mg/L		17-AUG-20	R5190702
Potassium (K)-Dissolved	4.78		0.50	mg/L		17-AUG-20	R5190702
Rubidium (Rb)-Dissolved	0.00191		0.00020	mg/L		17-AUG-20	R5190702
Selenium (Se)-Dissolved	0.000275	<T	0.000050	mg/L		17-AUG-20	R5190702
Silicon (Si)-Dissolved	1.63		0.050	mg/L		17-AUG-20	R5190702
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-AUG-20	R5190702
Sodium (Na)-Dissolved	7.99		0.10	mg/L		17-AUG-20	R5190702
Strontium (Sr)-Dissolved	0.119		0.0010	mg/L		17-AUG-20	R5190702
Sulfur (S)-Dissolved	6.6		0.50	mg/L		17-AUG-20	R5190702
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-AUG-20	R5190702
Thallium (Tl)-Dissolved	0.000006	<DL	0.00030	mg/L		17-AUG-20	R5190702
Thorium (Th)-Dissolved	0.00002	<DL	0.00010	mg/L		17-AUG-20	R5190702
Tin (Sn)-Dissolved	0.000100	<DL	0.0010	mg/L		17-AUG-20	R5190702
Titanium (Ti)-Dissolved	0.00026	<DL	0.0020	mg/L		17-AUG-20	R5190702
Tungsten (W)-Dissolved	0.000148	<DL	0.010	mg/L		17-AUG-20	R5190702
Uranium (U)-Dissolved	0.000773	<DL	0.0050	mg/L		17-AUG-20	R5190702
Vanadium (V)-Dissolved	0.00132	<T	0.0010	mg/L		17-AUG-20	R5190702
Zinc (Zn)-Dissolved	0.0006	<DL	0.0030	mg/L		17-AUG-20	R5190702
Zirconium (Zr)-Dissolved	0.000344	<DL	0.0010	mg/L		17-AUG-20	R5190702
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-AUG-20	R5191903
Chemical Oxygen Demand	82		20	mg/L	14-AUG-20	19-AUG-20	R5191756
Oil and Grease, Total	0.4	<DL	1.0	mg/L	18-AUG-20	18-AUG-20	R5190724
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		31-AUG-20	R5209561
L2488710-14 SW27 Sampled By: Client on 11-AUG-20 @ 10:15 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	0		0	mg/L		17-AUG-20	R5189926
pH, Client Supplied	7.18		0.10	pH		17-AUG-20	R5189926
Temperature, Client Supplied	14.12		0	Degree C		17-AUG-20	R5189926
Physical Tests							
Color, True	40.2		2.0	CU		14-AUG-20	R5189238
Conductivity (EC)	431		1.0	uS/cm		15-AUG-20	R5189745
Hardness (as CaCO3)	186		0.51	mg/L		19-AUG-20	
pH	7.88		0.10	pH		15-AUG-20	R5189745
Total Suspended Solids	45.0		3.0	mg/L		18-AUG-20	R5191415
Total Dissolved Solids	274		20	mg/L		18-AUG-20	R5191518
Turbidity	36.5		0.10	NTU		14-AUG-20	R5189283
Anions and Nutrients							
Acidity (as CaCO3)	2.2		2.0	mg/L		16-AUG-20	R5190273

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-14 SW27							
Sampled By: Client on 11-AUG-20 @ 10:15							
Matrix: Water							
Anions and Nutrients							
Alkalinity, Total (as CaCO3)	166		2.0	mg/L		15-AUG-20	R5189745
Ammonia, Total (as N)	0.038	<T	0.0050	mg/L		21-AUG-20	R5195703
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		21-AUG-20	
Chloride (Cl)	18.3		0.10	mg/L	14-AUG-20	14-AUG-20	R5189577
Fluoride (F)	0.083		0.020	mg/L	14-AUG-20	14-AUG-20	R5189577
Nitrate (as N)	<0.002	<W	0.020	mg/L		14-AUG-20	R5189577
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-AUG-20	R5189577
Orthophosphate-Dissolved (as P)	0.0348		0.0030	mg/L	14-AUG-20	15-AUG-20	R5189607
Sulfate (SO4)	43.9		0.30	mg/L		14-AUG-20	R5189577
Cyanides							
Cyanide, Weak Acid Diss	0.0001	<DL	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Total	0.0002	<DL	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Free	0.0002	<DL	0.0020	mg/L		17-AUG-20	R5190691
Organic / Inorganic Carbon							
Dissolved Organic Carbon	20.6	DLM	5.0	mg/L	14-AUG-20	20-AUG-20	R5194497
Total Organic Carbon	35.5	DLM	5.0	mg/L		20-AUG-20	R5194520
Total Metals							
Aluminum (Al)-Total	1.29		0.0050	mg/L		18-AUG-20	R5191493
Antimony (Sb)-Total	0.000145	<DL	0.00060	mg/L		18-AUG-20	R5191493
Arsenic (As)-Total	0.00353	<T	0.0010	mg/L		18-AUG-20	R5191493
Barium (Ba)-Total	0.0484		0.010	mg/L		18-AUG-20	R5191493
Beryllium (Be)-Total	0.0000510	<DL	0.0010	mg/L		18-AUG-20	R5191493
Bismuth (Bi)-Total	0.00002	<DL	0.0010	mg/L		18-AUG-20	R5191493
Boron (B)-Total	0.0385	<DL	0.050	mg/L		18-AUG-20	R5191493
Cadmium (Cd)-Total	0.000042	<T	0.000017	mg/L		18-AUG-20	R5191493
Calcium (Ca)-Total	46.3		0.20	mg/L		18-AUG-20	R5191493
Cesium (Cs)-Total	0.000137		0.000010	mg/L		18-AUG-20	R5191493
Chromium (Cr)-Total	0.00252		0.0010	mg/L		18-AUG-20	R5191493
Cobalt (Co)-Total	0.00113	<T	0.00050	mg/L		18-AUG-20	R5191493
Copper (Cu)-Total	0.00276	<T	0.0010	mg/L		18-AUG-20	R5191493
Iron (Fe)-Total	1.65		0.020	mg/L		18-AUG-20	R5191493
Lead (Pb)-Total	0.00085	<T	0.000050	mg/L		18-AUG-20	R5191493
Lithium (Li)-Total	0.0122	<DL	0.050	mg/L		18-AUG-20	R5191493
Magnesium (Mg)-Total	22.9		0.020	mg/L		18-AUG-20	R5191493
Manganese (Mn)-Total	1.36		0.0010	mg/L		18-AUG-20	R5191493
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190765
Molybdenum (Mo)-Total	0.00132	<T	0.0010	mg/L		18-AUG-20	R5191493
Nickel (Ni)-Total	0.00294	<T	0.0020	mg/L		18-AUG-20	R5191493
Phosphorus (P)-Total	0.190		0.050	mg/L		18-AUG-20	R5191493
Potassium (K)-Total	6.65		0.50	mg/L		18-AUG-20	R5191493
Rubidium (Rb)-Total	0.00458		0.00020	mg/L		18-AUG-20	R5191493
Selenium (Se)-Total	0.000175	<T	0.000050	mg/L		18-AUG-20	R5191493

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-14 SW27							
Sampled By: Client on 11-AUG-20 @ 10:15							
Matrix: Water							
Total Metals							
Silicon (Si)-Total	5.76		0.10	mg/L		18-AUG-20	R5191493
Silver (Ag)-Total	0.000012	<DL	0.00010	mg/L		18-AUG-20	R5191493
Sodium (Na)-Total	9.96		0.10	mg/L		18-AUG-20	R5191493
Strontium (Sr)-Total	0.175		0.0010	mg/L		18-AUG-20	R5191493
Sulfur (S)-Total	14.8		0.50	mg/L		18-AUG-20	R5191493
Tellurium (Te)-Total	0.00006	<DL	0.0010	mg/L		18-AUG-20	R5191493
Thallium (Tl)-Total	0.000015	<DL	0.00030	mg/L		18-AUG-20	R5191493
Thorium (Th)-Total	0.00011		0.00010	mg/L		18-AUG-20	R5191493
Tin (Sn)-Total	0.00222		0.0010	mg/L		18-AUG-20	R5191493
Titanium (Ti)-Total	0.0365		0.0020	mg/L		18-AUG-20	R5191493
Tungsten (W)-Total	0.00001	<DL	0.010	mg/L		18-AUG-20	R5191493
Uranium (U)-Total	0.00101	<DL	0.0050	mg/L		18-AUG-20	R5191493
Vanadium (V)-Total	0.00455	<T	0.0010	mg/L		18-AUG-20	R5191493
Zinc (Zn)-Total	0.0090	<T	0.0030	mg/L		18-AUG-20	R5191493
Zirconium (Zr)-Total	0.000502	<DL	0.0010	mg/L		18-AUG-20	R5191493
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					17-AUG-20	R5190146
Aluminum (Al)-Dissolved	0.0030	<DL	0.0050	mg/L		17-AUG-20	R5190702
Antimony (Sb)-Dissolved	0.000115	<DL	0.00060	mg/L		17-AUG-20	R5190702
Arsenic (As)-Dissolved	0.00269	<T	0.0010	mg/L		17-AUG-20	R5190702
Barium (Ba)-Dissolved	0.0360		0.010	mg/L		17-AUG-20	R5190702
Beryllium (Be)-Dissolved	0.000004	<DL	0.0010	mg/L		17-AUG-20	R5190702
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-AUG-20	R5190702
Boron (B)-Dissolved	0.0365	<DL	0.050	mg/L		17-AUG-20	R5190702
Cadmium (Cd)-Dissolved	0.0000020	<DL	0.000017	mg/L		17-AUG-20	R5190702
Calcium (Ca)-Dissolved	42.0		0.20	mg/L		17-AUG-20	R5190702
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		17-AUG-20	R5190702
Chromium (Cr)-Dissolved	0.00006	<DL	0.0010	mg/L		17-AUG-20	R5190702
Cobalt (Co)-Dissolved	0.000312	<DL	0.00050	mg/L		17-AUG-20	R5190702
Copper (Cu)-Dissolved	0.00056	<DL	0.0010	mg/L		17-AUG-20	R5190702
Iron (Fe)-Dissolved	0.0475		0.020	mg/L		17-AUG-20	R5190702
Lead (Pb)-Dissolved	0.00001	<DL	0.000050	mg/L		17-AUG-20	R5190702
Lithium (Li)-Dissolved	0.0118	<DL	0.050	mg/L		17-AUG-20	R5190702
Magnesium (Mg)-Dissolved	19.8		0.020	mg/L		17-AUG-20	R5190702
Manganese (Mn)-Dissolved	1.07		0.0010	mg/L		17-AUG-20	R5190702
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190764
Molybdenum (Mo)-Dissolved	0.00132	<T	0.0010	mg/L		17-AUG-20	R5190702
Nickel (Ni)-Dissolved	0.00124	<DL	0.0020	mg/L		17-AUG-20	R5190702
Phosphorus (P)-Dissolved	0.020	<DL	0.050	mg/L		17-AUG-20	R5190702
Potassium (K)-Dissolved	6.34		0.50	mg/L		17-AUG-20	R5190702
Rubidium (Rb)-Dissolved	0.00195		0.00020	mg/L		17-AUG-20	R5190702

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-14 SW27 Sampled By: Client on 11-AUG-20 @ 10:15 Matrix: Water							
Dissolved Metals							
Selenium (Se)-Dissolved	0.000160	<T	0.000050	mg/L		17-AUG-20	R5190702
Silicon (Si)-Dissolved	3.08		0.050	mg/L		17-AUG-20	R5190702
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-AUG-20	R5190702
Sodium (Na)-Dissolved	8.70		0.10	mg/L		17-AUG-20	R5190702
Strontium (Sr)-Dissolved	0.177		0.0010	mg/L		17-AUG-20	R5190702
Sulfur (S)-Dissolved	15.2		0.50	mg/L		17-AUG-20	R5190702
Tellurium (Te)-Dissolved	0.00002	<DL	0.0010	mg/L		17-AUG-20	R5190702
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-AUG-20	R5190702
Thorium (Th)-Dissolved	0.00001	<DL	0.00010	mg/L		17-AUG-20	R5190702
Tin (Sn)-Dissolved	0.000165	<DL	0.0010	mg/L		17-AUG-20	R5190702
Titanium (Ti)-Dissolved	0.00012	<DL	0.0020	mg/L		17-AUG-20	R5190702
Tungsten (W)-Dissolved	0.000020	<DL	0.010	mg/L		17-AUG-20	R5190702
Uranium (U)-Dissolved	0.00104	<DL	0.0050	mg/L		17-AUG-20	R5190702
Vanadium (V)-Dissolved	0.00132	<T	0.0010	mg/L		17-AUG-20	R5190702
Zinc (Zn)-Dissolved	0.0006	<DL	0.0030	mg/L		17-AUG-20	R5190702
Zirconium (Zr)-Dissolved	0.000196	<DL	0.0010	mg/L		17-AUG-20	R5190702
Aggregate Organics							
Biochemical Oxygen Demand	<2.5	DLM	2.5	mg/L		14-AUG-20	R5191903
Chemical Oxygen Demand	60		20	mg/L	14-AUG-20	19-AUG-20	R5191756
Oil and Grease, Total	0.4	<DL	1.0	mg/L	18-AUG-20	18-AUG-20	R5190724
L2488710-15 TRAVEL BLANK - SURFACE WATER Sampled By: Client on 11-AUG-20 @ 12:00 Matrix: Water							
Physical Tests							
Color, True	<2.0		2.0	CU		14-AUG-20	R5189238
Conductivity (EC)	<0.2	<W	1.0	uS/cm		15-AUG-20	R5189745
Hardness (as CaCO3)	<0.51		0.51	mg/L		19-AUG-20	
pH	5.52		0.10	pH		15-AUG-20	R5189745
Total Suspended Solids	<0.5	<W	3.0	mg/L		18-AUG-20	R5191415
Total Dissolved Solids	<2	<W	10	mg/L		18-AUG-20	R5191518
Turbidity	<0.10		0.10	NTU		14-AUG-20	R5189283
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		16-AUG-20	R5190273
Alkalinity, Total (as CaCO3)	<0.2	<W	2.0	mg/L		15-AUG-20	R5189745
Ammonia, Total (as N)	0.004	<DL	0.0050	mg/L		21-AUG-20	R5195703
Chloride (Cl)	<0.10		0.10	mg/L	14-AUG-20	14-AUG-20	R5189577
Fluoride (F)	<0.020		0.020	mg/L	14-AUG-20	14-AUG-20	R5189577
Nitrate (as N)	<0.002	<W	0.020	mg/L		14-AUG-20	R5189577
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-AUG-20	R5189577
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	14-AUG-20	15-AUG-20	R5189607
Sulfate (SO4)	<0.05	<W	0.30	mg/L		14-AUG-20	R5189577
Cyanides							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-15 TRAVEL BLANK - SURFACE WATER							
Sampled By: Client on 11-AUG-20 @ 12:00							
Matrix: Water							
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Total	<0.0002	<W	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Free	<0.0001	<W	0.0020	mg/L		17-AUG-20	R5190691
Organic / Inorganic Carbon							
Dissolved Organic Carbon	<0.50		0.50	mg/L	12-AUG-20	19-AUG-20	R5192113
Total Organic Carbon	<0.50		0.50	mg/L		20-AUG-20	R5194520
Total Metals							
Aluminum (Al)-Total	<0.0002	<W	0.0050	mg/L		18-AUG-20	R5191493
Antimony (Sb)-Total	<0.000005	<W	0.00060	mg/L		18-AUG-20	R5191493
Arsenic (As)-Total	<0.00001	<W	0.0010	mg/L		18-AUG-20	R5191493
Barium (Ba)-Total	<0.00001	<W	0.010	mg/L		18-AUG-20	R5191493
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		18-AUG-20	R5191493
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-AUG-20	R5191493
Boron (B)-Total	<0.0005	<W	0.050	mg/L		18-AUG-20	R5191493
Cadmium (Cd)-Total	0.000001	<DL	0.000017	mg/L		18-AUG-20	R5191493
Calcium (Ca)-Total	0.014	<DL	0.20	mg/L		18-AUG-20	R5191493
Cesium (Cs)-Total	<0.0000005	<W	0.000010	mg/L		18-AUG-20	R5191493
Chromium (Cr)-Total	0.00008	<DL	0.0010	mg/L		18-AUG-20	R5191493
Cobalt (Co)-Total	<0.000005	<W	0.00050	mg/L		18-AUG-20	R5191493
Copper (Cu)-Total	<0.00002	<W	0.0010	mg/L		18-AUG-20	R5191493
Iron (Fe)-Total	0.0005	<DL	0.020	mg/L		18-AUG-20	R5191493
Lead (Pb)-Total	<0.00001	<W	0.000050	mg/L		18-AUG-20	R5191493
Lithium (Li)-Total	<0.0002	<W	0.050	mg/L		18-AUG-20	R5191493
Magnesium (Mg)-Total	0.0006	<DL	0.020	mg/L		18-AUG-20	R5191493
Manganese (Mn)-Total	<0.0002	<W	0.0010	mg/L		18-AUG-20	R5191493
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190765
Molybdenum (Mo)-Total	<0.000005	<W	0.0010	mg/L		18-AUG-20	R5191493
Nickel (Ni)-Total	<0.00002	<W	0.0020	mg/L		18-AUG-20	R5191493
Phosphorus (P)-Total	0.010	<DL	0.050	mg/L		18-AUG-20	R5191493
Potassium (K)-Total	<0.01	<W	0.50	mg/L		18-AUG-20	R5191493
Rubidium (Rb)-Total	<0.000002	<W	0.00020	mg/L		18-AUG-20	R5191493
Selenium (Se)-Total	<0.000005	<W	0.000050	mg/L		18-AUG-20	R5191493
Silicon (Si)-Total	<0.002	<W	0.10	mg/L		18-AUG-20	R5191493
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		18-AUG-20	R5191493
Sodium (Na)-Total	<0.005	<W	0.10	mg/L		18-AUG-20	R5191493
Strontium (Sr)-Total	0.000005	<DL	0.0010	mg/L		18-AUG-20	R5191493
Sulfur (S)-Total	<0.2	<W	0.50	mg/L		18-AUG-20	R5191493
Tellurium (Te)-Total	0.00004	<DL	0.0010	mg/L		18-AUG-20	R5191493
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		18-AUG-20	R5191493
Thorium (Th)-Total	<0.00001	<W	0.00010	mg/L		18-AUG-20	R5191493
Tin (Sn)-Total	<0.00001	<W	0.0010	mg/L		18-AUG-20	R5191493

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-15 TRAVEL BLANK - SURFACE WATER							
Sampled By: Client on 11-AUG-20 @ 12:00							
Matrix: Water							
Total Metals							
Titanium (Ti)-Total	0.00001	<DL	0.0020	mg/L		18-AUG-20	R5191493
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		18-AUG-20	R5191493
Uranium (U)-Total	<0.0000005	<W	0.0050	mg/L		18-AUG-20	R5191493
Vanadium (V)-Total	0.00010	<DL	0.0010	mg/L		18-AUG-20	R5191493
Zinc (Zn)-Total	<0.0005	<W	0.0030	mg/L		18-AUG-20	R5191493
Zirconium (Zr)-Total	<0.000002	<W	0.0010	mg/L		18-AUG-20	R5191493
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					17-AUG-20	R5190146
Aluminum (Al)-Dissolved	<0.0002	<W	0.0050	mg/L		17-AUG-20	R5190702
Antimony (Sb)-Dissolved	<0.000005	<W	0.00060	mg/L		17-AUG-20	R5190702
Arsenic (As)-Dissolved	<0.0000002	<W	0.0010	mg/L		17-AUG-20	R5190702
Barium (Ba)-Dissolved	<0.000005	<W	0.010	mg/L		17-AUG-20	R5190702
Beryllium (Be)-Dissolved	0.000002	<DL	0.0010	mg/L		17-AUG-20	R5190702
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-AUG-20	R5190702
Boron (B)-Dissolved	<0.0005	<W	0.050	mg/L		17-AUG-20	R5190702
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		17-AUG-20	R5190702
Calcium (Ca)-Dissolved	0.026	<DL	0.20	mg/L		17-AUG-20	R5190702
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		17-AUG-20	R5190702
Chromium (Cr)-Dissolved	0.00007	<DL	0.0010	mg/L		17-AUG-20	R5190702
Cobalt (Co)-Dissolved	<0.000002	<W	0.00050	mg/L		17-AUG-20	R5190702
Copper (Cu)-Dissolved	<0.00002	<W	0.0010	mg/L		17-AUG-20	R5190702
Iron (Fe)-Dissolved	<0.0005	<W	0.020	mg/L		17-AUG-20	R5190702
Lead (Pb)-Dissolved	<0.00001	<W	0.000050	mg/L		17-AUG-20	R5190702
Lithium (Li)-Dissolved	<0.0002	<W	0.050	mg/L		17-AUG-20	R5190702
Magnesium (Mg)-Dissolved	<0.0005	<W	0.020	mg/L		17-AUG-20	R5190702
Manganese (Mn)-Dissolved	<0.00002	<W	0.0010	mg/L		17-AUG-20	R5190702
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190764
Molybdenum (Mo)-Dissolved	<0.000002	<W	0.0010	mg/L		17-AUG-20	R5190702
Nickel (Ni)-Dissolved	<0.00002	<W	0.0020	mg/L		17-AUG-20	R5190702
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		17-AUG-20	R5190702
Potassium (K)-Dissolved	<0.01	<W	0.50	mg/L		17-AUG-20	R5190702
Rubidium (Rb)-Dissolved	<0.000002	<W	0.00020	mg/L		17-AUG-20	R5190702
Selenium (Se)-Dissolved	<0.000005	<W	0.000050	mg/L		17-AUG-20	R5190702
Silicon (Si)-Dissolved	<0.005	<W	0.050	mg/L		17-AUG-20	R5190702
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-AUG-20	R5190702
Sodium (Na)-Dissolved	<0.005	<W	0.10	mg/L		17-AUG-20	R5190702
Strontium (Sr)-Dissolved	<0.00002	<W	0.0010	mg/L		17-AUG-20	R5190702
Sulfur (S)-Dissolved	<0.2	<W	0.50	mg/L		17-AUG-20	R5190702
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-AUG-20	R5190702
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-AUG-20	R5190702
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		17-AUG-20	R5190702

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-15 TRAVEL BLANK - SURFACE WATER Sampled By: Client on 11-AUG-20 @ 12:00 Matrix: Water							
Dissolved Metals							
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		17-AUG-20	R5190702
Titanium (Ti)-Dissolved	<0.00002	<W	0.0020	mg/L		17-AUG-20	R5190702
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		17-AUG-20	R5190702
Uranium (U)-Dissolved	0.0000010	<DL	0.0050	mg/L		17-AUG-20	R5190702
Vanadium (V)-Dissolved	<0.00002	<W	0.0010	mg/L		17-AUG-20	R5190702
Zinc (Zn)-Dissolved	<0.0002	<W	0.0030	mg/L		17-AUG-20	R5190702
Zirconium (Zr)-Dissolved	<0.000002	<W	0.0010	mg/L		17-AUG-20	R5190702
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-AUG-20	R5191903
Chemical Oxygen Demand	<20		20	mg/L	14-AUG-20	19-AUG-20	R5191756
Oil and Grease, Total	1.0		1.0	mg/L	18-AUG-20	18-AUG-20	R5190724
L2488710-16 FIELD BLANK - SURFACE WATER Sampled By: Client on 11-AUG-20 @ 12:00 Matrix: Water							
Physical Tests							
Color, True	<2.0		2.0	CU		14-AUG-20	R5189238
Conductivity (EC)	<0.2	<W	1.0	uS/cm		15-AUG-20	R5189745
Hardness (as CaCO3)	<0.51		0.51	mg/L		19-AUG-20	
pH	5.49		0.10	pH		15-AUG-20	R5189745
Total Suspended Solids	<0.5	<W	3.0	mg/L		18-AUG-20	R5191415
Total Dissolved Solids	2	<DL	10	mg/L		18-AUG-20	R5191518
Turbidity	<0.10		0.10	NTU		14-AUG-20	R5189283
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		16-AUG-20	R5190273
Alkalinity, Total (as CaCO3)	<0.2	<W	2.0	mg/L		15-AUG-20	R5189745
Ammonia, Total (as N)	0.004	<DL	0.0050	mg/L		21-AUG-20	R5195703
Chloride (Cl)	<0.10		0.10	mg/L	14-AUG-20	14-AUG-20	R5189577
Fluoride (F)	<0.020		0.020	mg/L	14-AUG-20	14-AUG-20	R5189577
Nitrate (as N)	<0.002	<W	0.020	mg/L		14-AUG-20	R5189577
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-AUG-20	R5189577
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	14-AUG-20	15-AUG-20	R5189607
Sulfate (SO4)	<0.05	<W	0.30	mg/L		14-AUG-20	R5189577
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Total	<0.0002	<W	0.0020	mg/L		17-AUG-20	R5190691
Cyanide, Free	<0.0001	<W	0.0020	mg/L		17-AUG-20	R5190691
Organic / Inorganic Carbon							
Dissolved Organic Carbon	<0.50		0.50	mg/L	14-AUG-20	20-AUG-20	R5194497
Total Organic Carbon	<0.50		0.50	mg/L		20-AUG-20	R5194520
Total Metals							
Aluminum (Al)-Total	0.0006	<DL	0.0050	mg/L		18-AUG-20	R5191493
Antimony (Sb)-Total	<0.000005	<W	0.00060	mg/L		18-AUG-20	R5191493

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-16 FIELD BLANK - SURFACE WATER							
Sampled By: Client on 11-AUG-20 @ 12:00							
Matrix: Water							
Total Metals							
Arsenic (As)-Total	<0.00001	<W	0.0010	mg/L		18-AUG-20	R5191493
Barium (Ba)-Total	0.00003	<DL	0.010	mg/L		18-AUG-20	R5191493
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		18-AUG-20	R5191493
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-AUG-20	R5191493
Boron (B)-Total	0.0040	<DL	0.050	mg/L		18-AUG-20	R5191493
Cadmium (Cd)-Total	0.000002	<DL	0.000017	mg/L		18-AUG-20	R5191493
Calcium (Ca)-Total	0.024	<DL	0.20	mg/L		18-AUG-20	R5191493
Cesium (Cs)-Total	<0.0000005	<W	0.000010	mg/L		18-AUG-20	R5191493
Chromium (Cr)-Total	<0.00002	<W	0.0010	mg/L		18-AUG-20	R5191493
Cobalt (Co)-Total	<0.000005	<W	0.00050	mg/L		18-AUG-20	R5191493
Copper (Cu)-Total	0.00022	<DL	0.0010	mg/L		18-AUG-20	R5191493
Iron (Fe)-Total	0.0015	<DL	0.020	mg/L		18-AUG-20	R5191493
Lead (Pb)-Total	0.00002	<DL	0.000050	mg/L		18-AUG-20	R5191493
Lithium (Li)-Total	<0.0002	<W	0.050	mg/L		18-AUG-20	R5191493
Magnesium (Mg)-Total	0.0014	<DL	0.020	mg/L		18-AUG-20	R5191493
Manganese (Mn)-Total	<0.0002	<W	0.0010	mg/L		18-AUG-20	R5191493
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190765
Molybdenum (Mo)-Total	<0.000005	<W	0.0010	mg/L		18-AUG-20	R5191493
Nickel (Ni)-Total	<0.00002	<W	0.0020	mg/L		18-AUG-20	R5191493
Phosphorus (P)-Total	0.005	<DL	0.050	mg/L		18-AUG-20	R5191493
Potassium (K)-Total	<0.01	<W	0.50	mg/L		18-AUG-20	R5191493
Rubidium (Rb)-Total	<0.000002	<W	0.00020	mg/L		18-AUG-20	R5191493
Selenium (Se)-Total	<0.000005	<W	0.000050	mg/L		18-AUG-20	R5191493
Silicon (Si)-Total	0.012	<DL	0.10	mg/L		18-AUG-20	R5191493
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		18-AUG-20	R5191493
Sodium (Na)-Total	0.030	<DL	0.10	mg/L		18-AUG-20	R5191493
Strontium (Sr)-Total	0.000040	<DL	0.0010	mg/L		18-AUG-20	R5191493
Sulfur (S)-Total	<0.2	<W	0.50	mg/L		18-AUG-20	R5191493
Tellurium (Te)-Total	0.00004	<DL	0.0010	mg/L		18-AUG-20	R5191493
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		18-AUG-20	R5191493
Thorium (Th)-Total	<0.00001	<W	0.00010	mg/L		18-AUG-20	R5191493
Tin (Sn)-Total	0.00008	<DL	0.0010	mg/L		18-AUG-20	R5191493
Titanium (Ti)-Total	0.00003	<DL	0.0020	mg/L		18-AUG-20	R5191493
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		18-AUG-20	R5191493
Uranium (U)-Total	<0.0000005	<W	0.0050	mg/L		18-AUG-20	R5191493
Vanadium (V)-Total	0.00010	<DL	0.0010	mg/L		18-AUG-20	R5191493
Zinc (Zn)-Total	0.0020	<DL	0.0030	mg/L		18-AUG-20	R5191493
Zirconium (Zr)-Total	<0.000002	<W	0.0010	mg/L		18-AUG-20	R5191493
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					17-AUG-20	R5190146
Aluminum (Al)-Dissolved	0.0002	<DL	0.0050	mg/L		17-AUG-20	R5190702

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-16 FIELD BLANK - SURFACE WATER Sampled By: Client on 11-AUG-20 @ 12:00 Matrix: Water							
Dissolved Metals							
Antimony (Sb)-Dissolved	<0.000005	<W	0.00060	mg/L		17-AUG-20	R5190702
Arsenic (As)-Dissolved	<0.0000002	<W	0.0010	mg/L		17-AUG-20	R5190702
Barium (Ba)-Dissolved	0.000030	<DL	0.010	mg/L		17-AUG-20	R5190702
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		17-AUG-20	R5190702
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		17-AUG-20	R5190702
Boron (B)-Dissolved	0.0040	<DL	0.050	mg/L		17-AUG-20	R5190702
Cadmium (Cd)-Dissolved	0.0000010	<DL	0.000017	mg/L		17-AUG-20	R5190702
Calcium (Ca)-Dissolved	0.014	<DL	0.20	mg/L		17-AUG-20	R5190702
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		17-AUG-20	R5190702
Chromium (Cr)-Dissolved	0.00004	<DL	0.0010	mg/L		17-AUG-20	R5190702
Cobalt (Co)-Dissolved	<0.000002	<W	0.00050	mg/L		17-AUG-20	R5190702
Copper (Cu)-Dissolved	0.00004	<DL	0.0010	mg/L		17-AUG-20	R5190702
Iron (Fe)-Dissolved	0.0010	<DL	0.020	mg/L		17-AUG-20	R5190702
Lead (Pb)-Dissolved	<0.00001	<W	0.000050	mg/L		17-AUG-20	R5190702
Lithium (Li)-Dissolved	<0.0002	<W	0.050	mg/L		17-AUG-20	R5190702
Magnesium (Mg)-Dissolved	0.0015	<DL	0.020	mg/L		17-AUG-20	R5190702
Manganese (Mn)-Dissolved	<0.00002	<W	0.0010	mg/L		17-AUG-20	R5190702
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-AUG-20	R5190764
Molybdenum (Mo)-Dissolved	<0.000002	<W	0.0010	mg/L		17-AUG-20	R5190702
Nickel (Ni)-Dissolved	<0.00002	<W	0.0020	mg/L		17-AUG-20	R5190702
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		17-AUG-20	R5190702
Potassium (K)-Dissolved	<0.01	<W	0.50	mg/L		17-AUG-20	R5190702
Rubidium (Rb)-Dissolved	<0.000002	<W	0.00020	mg/L		17-AUG-20	R5190702
Selenium (Se)-Dissolved	<0.000005	<W	0.000050	mg/L		17-AUG-20	R5190702
Silicon (Si)-Dissolved	0.015	<DL	0.050	mg/L		17-AUG-20	R5190702
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		17-AUG-20	R5190702
Sodium (Na)-Dissolved	0.065	<DL	0.10	mg/L		17-AUG-20	R5190702
Strontium (Sr)-Dissolved	0.00002	<DL	0.0010	mg/L		17-AUG-20	R5190702
Sulfur (S)-Dissolved	<0.2	<W	0.50	mg/L		17-AUG-20	R5190702
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		17-AUG-20	R5190702
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		17-AUG-20	R5190702
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		17-AUG-20	R5190702
Tin (Sn)-Dissolved	0.000105	<DL	0.0010	mg/L		17-AUG-20	R5190702
Titanium (Ti)-Dissolved	<0.00002	<W	0.0020	mg/L		17-AUG-20	R5190702
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		17-AUG-20	R5190702
Uranium (U)-Dissolved	<0.0000005	<W	0.0050	mg/L		17-AUG-20	R5190702
Vanadium (V)-Dissolved	<0.00002	<W	0.0010	mg/L		17-AUG-20	R5190702
Zinc (Zn)-Dissolved	0.0006	<DL	0.0030	mg/L		17-AUG-20	R5190702
Zirconium (Zr)-Dissolved	<0.000002	<W	0.0010	mg/L		17-AUG-20	R5190702
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-AUG-20	R5191903

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2488710-16 FIELD BLANK - SURFACE WATER Sampled By: Client on 11-AUG-20 @ 12:00 Matrix: Water							
Aggregate Organics							
Chemical Oxygen Demand	<20		20	mg/L	14-AUG-20	19-AUG-20	R5191756
Oil and Grease, Total	1.2		1.0	mg/L	18-AUG-20	18-AUG-20	R5190724

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Laboratory Control Sample	Iron (Fe)-Total	MES	L2488710-1, -10, -11, -12, -13, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Laboratory Control Sample	Iron (Fe)-Total	MES	L2488710-1, -10, -11, -12, -13, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L2488710-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L2488710-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2488710-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2488710-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2488710-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2488710-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L2488710-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L2488710-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Potassium (K)-Dissolved	MS-B	L2488710-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2488710-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2488710-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2488710-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2488710-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9

Sample Parameter Qualifier key listed:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-MISA-TB	Effluent	Acidity (as CaCO ₃)	APHA 2310 B-POTENTIOMETRIC TITRATION
Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample.			
ALK-MISA-TB	Effluent	Alkalinity, Total (as CaCO ₃)	APHA 2320 B-Auto-Pot. Titration
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
BOD-TB	Water	Biochemical Oxygen Demand (BOD)	APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND
All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation.			
CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
CN-FREE-MISA-CFA-WT	Effluent	Free Cyanide by Continuous Flow Analyzer	ASTM D7237-10 (modified)
This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis.			

Reference Information

CN-T-MISA-CFA-WT Effluent Total Cyanide by CFA ISO 14403-2:2012 (modified)

This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis.

Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.

CN-WAD-MISA-CFA-WT Effluent Weak Acid Dissociable Cyanide by CFA APHA 4500-CN CYANIDE (modified)

This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.

COD-TB Water Chemical Oxygen Demand APHA 5220D

This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.

COLOUR-TB Water Colour, True APHA 2120 C

True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard.

DO-CLIENT-TB Water Dissolved Oxygen, Client Supplied Result supplied by Client

DOC-WT Effluent Dissolved Organic Carbon for MISA APHA 5310 B-Instrumental

EC-MISA-TB Effluent Conductivity (EC) APHA 2510 B-ELECTRODE

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB Water Fluoride in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB Effluent Hardness (as CaCO₃) CALCULATION

HG-DIS-WT Effluent Mercury (Hg)-Dissolved for MISA SW846 7470A

HG-TOT-WT Effluent Mercury (Hg)-Total for MISA SW846 7470A

MET-D-MISA-TB Effluent Dissolved Metals in Water (MISA) APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-MISA-TB Effluent Total Metals in Water (MISA) EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-MISA-F-TB Effluent Ammonia by Discrete Analyzer catnr 157/158 062217/99321057 (modified)

Ammonia is determined by Flow-injection analysis with fluorescence detection

NH3-UNION-CALC-TB Effluent Un-ionized ammonia Calculation

NO2-MISA-IC-TB Effluent Nitrite in Water by IC EPA 300.1 (mod)

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

NO3-MISA-IC-TB Effluent Nitrate in Water by IC EPA 300.1 (mod)

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

Oil and Grease, Total for MISA APHA 5520 B-Hexane Gravimetric

Reference Information

OGG-TOT-WT Effluent

PH-CLIENT-TB Water pH Result supplied by Client

PH-MISA-TB Effluent pH APHA 4500-H-ELECTRODE

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

PO4-DO-COL-TB Water Dissolved Orthophosphate APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

RA226-MMER-BE Water Radium 226 Radium Isotopes by Alpha Spectrometry

Determination of Gamma Emitting Radionuclides In Water and Solids by Gamma Spectrometry.

SO4-MISA-IC-TB Effluent Sulfate in Water by IC EPA 300.1 (mod)

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

TDS-MISA-TB Effluent Total Dissolved Solids APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TEMP-CLIENT-TB Water Temperature Result supplied by Client

TOC-WT Water Total Organic Carbon APHA 5310B

Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

TSS-MISA-TB Effluent Total Suspended Solids APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

TURBIDITY-TB Water Turbidity APHA 2130 B-Nephelometer

Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
BE	BECQUEREL LABORATORIES INC. - MISSISSAUGA, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

- mg/kg - milligrams per kilogram based on dry weight of sample
- mg/kg wwt - milligrams per kilogram based on wet weight of sample
- mg/kg lwt - milligrams per kilogram based on lipid weight of sample
- mg/L - unit of concentration based on volume, parts per million.
- < - Less than.
- D.L. - The reporting limit.
- N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 1 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BOD-TB								
	Water							
Batch	R5191903							
WG3383423-8	DUP	L2488862-2						
Biochemical Oxygen Demand		159	131		mg/L	19	30	14-AUG-20
WG3383423-2	LCS							
Biochemical Oxygen Demand			85.9		%		85-115	14-AUG-20
WG3383423-6	LCS							
Biochemical Oxygen Demand			90.2		%		85-115	14-AUG-20
WG3383423-1	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	14-AUG-20
WG3383423-5	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	14-AUG-20
CL-L-IC-N-TB								
	Water							
Batch	R5189577							
WG3383741-3	DUP	L2488710-4						
Chloride (Cl)		2.10	2.44		mg/L	15	20	14-AUG-20
WG3383745-3	DUP	L2488710-14						
Chloride (Cl)		18.3	17.5		mg/L	4.7	20	14-AUG-20
WG3383741-2	LCS							
Chloride (Cl)			94.3		%		90-110	14-AUG-20
WG3383745-2	LCS							
Chloride (Cl)			97.2		%		90-110	14-AUG-20
WG3383741-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	14-AUG-20
WG3383745-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	14-AUG-20
WG3383741-4	MS	L2488710-5						
Chloride (Cl)			90.2		%		75-125	14-AUG-20
COD-TB								
	Water							
Batch	R5189598							
WG3383803-3	DUP	L2488806-2						
Chemical Oxygen Demand		28	23		mg/L	17	20	15-AUG-20
WG3383803-2	LCS							
Chemical Oxygen Demand			107.9		%		85-115	15-AUG-20
WG3383803-1	MB							
Chemical Oxygen Demand			<20		mg/L		20	15-AUG-20
WG3383803-4	MS	L2488806-3						
Chemical Oxygen Demand			102.9		%		75-125	15-AUG-20

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 2 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
COD-TB								
	Water							
Batch	R5191756							
WG3383808-3	DUP	L2488710-7						
Chemical Oxygen Demand		92	91		mg/L	0.9	20	19-AUG-20
WG3383808-2	LCS							
Chemical Oxygen Demand			111.7		%		85-115	19-AUG-20
WG3383808-1	MB							
Chemical Oxygen Demand			<20		mg/L		20	19-AUG-20
WG3383808-4	MS	L2488710-8						
Chemical Oxygen Demand			108.0		%		75-125	19-AUG-20
COLOUR-TB								
	Water							
Batch	R5189238							
WG3383710-3	DUP	L2488710-4						
Color, True		135	135		CU	0.3	20	14-AUG-20
WG3383710-2	LCS							
Color, True			96.9		%		85-115	14-AUG-20
WG3383710-1	MB							
Color, True			<2.0		CU		2	14-AUG-20
Batch	R5189486							
WG3383715-2	LCS							
Color, True			95.5		%		85-115	15-AUG-20
WG3383715-1	MB							
Color, True			<2.0		CU		2	15-AUG-20
F-IC-N-TB								
	Water							
Batch	R5189577							
WG3383741-3	DUP	L2488710-4						
Fluoride (F)		0.049	0.058		mg/L	17	20	14-AUG-20
WG3383745-3	DUP	L2488710-14						
Fluoride (F)		0.083	0.082		mg/L	1.9	20	14-AUG-20
WG3383741-2	LCS							
Fluoride (F)			100.2		%		90-110	14-AUG-20
WG3383745-2	LCS							
Fluoride (F)			101.3		%		90-110	14-AUG-20
WG3383741-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	14-AUG-20
WG3383745-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	14-AUG-20
WG3383741-4	MS	L2488710-5						
Fluoride (F)			99.5		%		75-125	14-AUG-20

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 3 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PO4-DO-COL-TB								
	Water							
Batch	R5189607							
WG3383721-3	DUP	L2488710-5						
Orthophosphate-Dissolved (as P)		0.0032	<0.0030	RPD-NA	mg/L	N/A	20	15-AUG-20
WG3383721-2	LCS							
Orthophosphate-Dissolved (as P)			106.1		%		80-120	15-AUG-20
WG3383721-1	MB							
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	15-AUG-20
WG3383721-4	MS	L2488710-8						
Orthophosphate-Dissolved (as P)			95.1		%		70-130	15-AUG-20
TOC-WT								
	Water							
Batch	R5194520							
WG3384314-3	DUP	L2488710-15						
Total Organic Carbon		<0.50	<0.50	RPD-NA	mg/L	N/A	20	20-AUG-20
WG3384314-2	LCS							
Total Organic Carbon			108.9		%		80-120	20-AUG-20
WG3384314-1	MB							
Total Organic Carbon			<0.50		mg/L		0.5	20-AUG-20
WG3384314-4	MS	L2488710-15						
Total Organic Carbon			109.0		%		70-130	20-AUG-20
TURBIDITY-TB								
	Water							
Batch	R5189283							
WG3383665-3	DUP	L2488710-4						
Turbidity		19.5	20.3		NTU	4.0	15	14-AUG-20
WG3383665-6	DUP	L2488770-1						
Turbidity		0.89	0.94		NTU	5.3	15	14-AUG-20
WG3383665-2	LCS							
Turbidity			99.0		%		85-115	14-AUG-20
WG3383665-5	LCS							
Turbidity			101.5		%		85-115	14-AUG-20
WG3383665-1	MB							
Turbidity			<0.10		NTU		0.1	14-AUG-20
WG3383665-4	MB							
Turbidity			<0.10		NTU		0.1	14-AUG-20
ACY-MISA-TB								
	Effluent							
Batch	R5190273							
WG3384367-3	DUP	L2488710-1						
Acidity (as CaCO3)		2.8	2.2	J	mg/L	0.7	4	16-AUG-20
WG3384367-2	LCS							

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 4 of 27

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-MISA-TB								
	Effluent							
Batch	R5190273							
WG3384367-2	LCS							
Acidity (as CaCO3)			100.4		%		85-115	16-AUG-20
WG3384367-1	MB							
Acidity (as CaCO3)			1.2		mg/L		4	16-AUG-20
ALK-MISA-TB								
	Effluent							
Batch	R5189745							
WG3383696-3	DUP	L2488790-1						
Alkalinity, Total (as CaCO3)		271	272		mg/L	0.3	20	15-AUG-20
Alkalinity, Phenolphthalein		<0.2	<0.2	RPD-NA	mg/L	N/A	25	15-AUG-20
WG3383696-2	LCS							
Alkalinity, Total (as CaCO3)			102.7		%		85-115	15-AUG-20
WG3383700-2	LCS							
Alkalinity, Total (as CaCO3)			104.7		%		85-115	15-AUG-20
WG3383696-1	MB							
Alkalinity, Total (as CaCO3)			0.8		mg/L		2	15-AUG-20
Alkalinity, Phenolphthalein			<0.2		mg/L		2	15-AUG-20
WG3383700-1	MB							
Alkalinity, Total (as CaCO3)			0.2		mg/L		2	15-AUG-20
Alkalinity, Phenolphthalein			<0.2		mg/L		2	15-AUG-20
CN-FREE-MISA-CFA-WT								
	Effluent							
Batch	R5190691							
WG3384980-7	DUP	L2488790-1						
Cyanide, Free		<0.0001	<0.0001	RPD-NA	mg/L	N/A	20	17-AUG-20
WG3384980-2	LCS							
Cyanide, Free			96.7		%		80-120	17-AUG-20
WG3384980-6	LCS							
Cyanide, Free			94.5		%		80-120	17-AUG-20
WG3384980-1	MB							
Cyanide, Free			0.0006		mg/L		0.002	17-AUG-20
WG3384980-5	MB							
Cyanide, Free			0.0005		mg/L		0.002	17-AUG-20
WG3384980-8	MS	L2488790-1						
Cyanide, Free			96.7		%		75-125	17-AUG-20
CN-T-MISA-CFA-WT								
	Effluent							

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 5 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CN-T-MISA-CFA-WT		Effluent						
Batch	R5190691							
WG3384980-3	DUP	L2488670-1						
Cyanide, Total		<0.0002	<0.0002	RPD-NA	mg/L	N/A	20	18-AUG-20
WG3384980-7	DUP	L2488790-1						
Cyanide, Total		<0.0002	<0.0002	RPD-NA	mg/L	N/A	20	17-AUG-20
WG3384980-2	LCS							
Cyanide, Total			93.8		%		80-120	17-AUG-20
WG3384980-6	LCS							
Cyanide, Total			93.0		%		80-120	17-AUG-20
WG3384980-1	MB							
Cyanide, Total			0.0006		mg/L		0.002	17-AUG-20
WG3384980-5	MB							
Cyanide, Total			0.0004		mg/L		0.002	17-AUG-20
WG3384980-4	MS	L2488670-1						
Cyanide, Total			87.7		%		75-125	18-AUG-20
WG3384980-8	MS	L2488790-1						
Cyanide, Total			88.2		%		75-125	17-AUG-20
CN-WAD-MISA-CFA-WT		Effluent						
Batch	R5190691							
WG3384980-3	DUP	L2488670-1						
Cyanide, Weak Acid Diss		0.0021	0.0022		mg/L	5.2	20	17-AUG-20
WG3384980-7	DUP	L2488790-1						
Cyanide, Weak Acid Diss		<0.0001	<0.0001	RPD-NA	mg/L	N/A	20	17-AUG-20
WG3384980-2	LCS							
Cyanide, Weak Acid Diss			101.7		%		80-120	17-AUG-20
WG3384980-6	LCS							
Cyanide, Weak Acid Diss			100.4		%		80-120	17-AUG-20
WG3384980-1	MB							
Cyanide, Weak Acid Diss			0.0005		mg/L		0.002	17-AUG-20
WG3384980-5	MB							
Cyanide, Weak Acid Diss			0.0002		mg/L		0.002	17-AUG-20
WG3384980-4	MS	L2488670-1						
Cyanide, Weak Acid Diss			100.5		%		75-125	17-AUG-20
WG3384980-8	MS	L2488790-1						
Cyanide, Weak Acid Diss			97.2		%		75-125	17-AUG-20

DOC-WT **Effluent**

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 6 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DOC-WT		Effluent						
Batch	R5192113							
WG3384360-3	DUP	WG3384360-5						
Dissolved Organic Carbon		1.68	1.71		mg/L	1.5	25	19-AUG-20
WG3384360-2	LCS		115.0		%		70-130	19-AUG-20
Dissolved Organic Carbon								
WG3384360-1	MB		<0.50		mg/L		0.5	19-AUG-20
Dissolved Organic Carbon								
Batch	R5194497							
WG3386014-3	DUP	WG3386014-5						
Dissolved Organic Carbon		11.5	13.2		mg/L	14	25	20-AUG-20
WG3386014-2	LCS		102.5		%		70-130	20-AUG-20
Dissolved Organic Carbon								
WG3386014-1	MB		<0.50		mg/L		0.5	20-AUG-20
Dissolved Organic Carbon								
EC-MISA-TB		Effluent						
Batch	R5189745							
WG3383696-3	DUP	L2488790-1						
Conductivity (EC)		448	449		uS/cm	0.3	10	15-AUG-20
WG3383696-2	LCS		97.1		%		90-110	15-AUG-20
Conductivity (EC)								
WG3383700-2	LCS		97.8		%		90-110	15-AUG-20
Conductivity (EC)								
WG3383696-1	MB		1.2		uS/cm		2	15-AUG-20
Conductivity (EC)								
WG3383700-1	MB		1.0		uS/cm		2	15-AUG-20
Conductivity (EC)								
HG-DIS-WT		Effluent						
Batch	R5190764							
WG3384940-3	DUP	L2488710-1						
Mercury (Hg)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	18-AUG-20
WG3384940-2	LCS		108.0		%		80-120	18-AUG-20
Mercury (Hg)-Dissolved								
WG3384940-1	MB		<0.000005		mg/L		0.00003	18-AUG-20
Mercury (Hg)-Dissolved								
WG3384940-4	MS	L2488710-2						
Mercury (Hg)-Dissolved			106.6		%		70-130	18-AUG-20
HG-TOT-WT		Effluent						

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 7 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-TOT-WT		Effluent						
Batch R5190765								
WG3384939-3	DUP	L2488710-1						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	18-AUG-20
WG3384939-2	LCS							
Mercury (Hg)-Total			100.0		%		80-120	18-AUG-20
WG3384939-1	MB							
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	18-AUG-20
WG3384939-4	MS	L2488710-2						
Mercury (Hg)-Total			103.9		%		70-130	18-AUG-20
MET-D-MISA-TB		Effluent						
Batch R5190702								
WG3384943-11	DUP	L2488710-13						
Aluminum (Al)-Dissolved		0.0042	0.0030	RPD-NA	mg/L	N/A	20	17-AUG-20
Antimony (Sb)-Dissolved		0.000190	0.000150	RPD-NA	mg/L	N/A	20	17-AUG-20
Arsenic (As)-Dissolved		0.00387	0.00346		mg/L	11	20	17-AUG-20
Barium (Ba)-Dissolved		0.0295	0.0284		mg/L	3.9	20	17-AUG-20
Beryllium (Be)-Dissolved		0.000012	0.000010	RPD-NA	mg/L	N/A	20	17-AUG-20
Bismuth (Bi)-Dissolved		0.000008	0.000002	RPD-NA	mg/L	N/A	20	17-AUG-20
Boron (B)-Dissolved		0.0250	0.0225	RPD-NA	mg/L	N/A	20	17-AUG-20
Cadmium (Cd)-Dissolved		0.0000050	0.0000040	RPD-NA	mg/L	N/A	20	17-AUG-20
Calcium (Ca)-Dissolved		38.7	34.2		mg/L	13	20	17-AUG-20
Cesium (Cs)-Dissolved		<0.0000005	<0.0000005	RPD-NA	mg/L	N/A	20	17-AUG-20
Chromium (Cr)-Dissolved		0.00012	0.00013	RPD-NA	mg/L	N/A	20	17-AUG-20
Cobalt (Co)-Dissolved		0.000226	0.000214	RPD-NA	mg/L	N/A	20	17-AUG-20
Copper (Cu)-Dissolved		0.00106	0.00100		mg/L	5.5	20	17-AUG-20
Iron (Fe)-Dissolved		0.0425	0.0370		mg/L	13	20	17-AUG-20
Lead (Pb)-Dissolved		0.00002	<0.00001	RPD-NA	mg/L	N/A	20	17-AUG-20
Lithium (Li)-Dissolved		0.0076	0.0064	RPD-NA	mg/L	N/A	20	17-AUG-20
Magnesium (Mg)-Dissolved		20.3	20.0		mg/L	1.3	20	17-AUG-20
Manganese (Mn)-Dissolved		0.0160	0.0160		mg/L	0.2	20	17-AUG-20
Molybdenum (Mo)-Dissolved		0.000804	0.000688	RPD-NA	mg/L	N/A	20	17-AUG-20
Nickel (Ni)-Dissolved		0.00184	0.00162	RPD-NA	mg/L	N/A	20	17-AUG-20
Phosphorus (P)-Dissolved		0.070	0.075		mg/L	4.1	20	17-AUG-20
Potassium (K)-Dissolved		4.78	4.71		mg/L	1.6	20	17-AUG-20
Rubidium (Rb)-Dissolved		0.00191	0.00195		mg/L	2.1	20	17-AUG-20
Selenium (Se)-Dissolved		0.000275	0.000280		mg/L	3.1	20	17-AUG-20

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 8 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R5190702							
WG3384943-11	DUP	L2488710-13						
Silicon (Si)-Dissolved		1.63	1.66		mg/L	1.8	20	17-AUG-20
Silver (Ag)-Dissolved		<0.0000005	<0.0000005	RPD-NA	mg/L	N/A	20	17-AUG-20
Sodium (Na)-Dissolved		7.99	7.80		mg/L	2.4	20	17-AUG-20
Strontium (Sr)-Dissolved		0.119	0.105		mg/L	13	20	17-AUG-20
Sulfur (S)-Dissolved		6.6	6.4		mg/L	2.5	20	17-AUG-20
Tellurium (Te)-Dissolved		<0.00001	0.00002	RPD-NA	mg/L	N/A	20	17-AUG-20
Thallium (Tl)-Dissolved		0.000006	0.000002	RPD-NA	mg/L	N/A	20	17-AUG-20
Thorium (Th)-Dissolved		0.00002	0.00001	RPD-NA	mg/L	N/A	20	17-AUG-20
Tin (Sn)-Dissolved		0.000100	0.000080	RPD-NA	mg/L	N/A	20	17-AUG-20
Titanium (Ti)-Dissolved		0.00026	0.00018	RPD-NA	mg/L	N/A	20	17-AUG-20
Tungsten (W)-Dissolved		0.000148	0.000046	RPD-NA	mg/L	N/A	20	17-AUG-20
Uranium (U)-Dissolved		0.000773	0.000668	RPD-NA	mg/L	N/A	20	17-AUG-20
Vanadium (V)-Dissolved		0.00132	0.00120		mg/L	9.9	20	17-AUG-20
Zinc (Zn)-Dissolved		0.0006	0.0006	RPD-NA	mg/L	N/A	20	17-AUG-20
Zirconium (Zr)-Dissolved		0.000344	0.000270	RPD-NA	mg/L	N/A	20	17-AUG-20
WG3384943-7	DUP	L2488710-11						
Aluminum (Al)-Dissolved		0.0038	0.0034	RPD-NA	mg/L	N/A	20	17-AUG-20
Antimony (Sb)-Dissolved		0.000165	0.000170	RPD-NA	mg/L	N/A	20	17-AUG-20
Arsenic (As)-Dissolved		0.00216	0.00223		mg/L	3.6	20	17-AUG-20
Barium (Ba)-Dissolved		0.0284	0.0291		mg/L	2.6	20	17-AUG-20
Beryllium (Be)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	17-AUG-20
Bismuth (Bi)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	17-AUG-20
Boron (B)-Dissolved		0.0455	0.0465	RPD-NA	mg/L	N/A	20	17-AUG-20
Cadmium (Cd)-Dissolved		0.0000340	0.0000280		mg/L	19	20	17-AUG-20
Calcium (Ca)-Dissolved		66.8	67.8		mg/L	1.5	20	17-AUG-20
Cesium (Cs)-Dissolved		<0.0000005	<0.0000005	RPD-NA	mg/L	N/A	20	17-AUG-20
Chromium (Cr)-Dissolved		0.00006	0.00006	RPD-NA	mg/L	N/A	20	17-AUG-20
Cobalt (Co)-Dissolved		0.000340	0.000342	RPD-NA	mg/L	N/A	20	17-AUG-20
Copper (Cu)-Dissolved		0.00122	0.00118		mg/L	3.6	20	17-AUG-20
Iron (Fe)-Dissolved		0.0300	0.0305		mg/L	2.6	20	17-AUG-20
Lead (Pb)-Dissolved		0.00005	0.00005	RPD-NA	mg/L	N/A	20	17-AUG-20
Lithium (Li)-Dissolved		0.0170	0.0176	RPD-NA	mg/L	N/A	20	17-AUG-20
Magnesium (Mg)-Dissolved		31.5	31.1		mg/L	1.5	20	17-AUG-20

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 9 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R5190702							
WG3384943-7	DUP	L2488710-11						
Manganese (Mn)-Dissolved		0.107	0.107		mg/L	0.4	20	17-AUG-20
Molybdenum (Mo)-Dissolved		0.00183	0.00189		mg/L	3.4	20	17-AUG-20
Nickel (Ni)-Dissolved		0.00154	0.00136	RPD-NA	mg/L	N/A	20	17-AUG-20
Phosphorus (P)-Dissolved		<0.005	<0.005	RPD-NA	mg/L	N/A	20	17-AUG-20
Potassium (K)-Dissolved		3.51	3.56		mg/L	1.3	20	17-AUG-20
Rubidium (Rb)-Dissolved		0.00151	0.00157		mg/L	4.2	20	17-AUG-20
Selenium (Se)-Dissolved		0.000185	0.000190		mg/L	3.9	20	17-AUG-20
Silicon (Si)-Dissolved		3.36	3.45		mg/L	2.6	20	17-AUG-20
Silver (Ag)-Dissolved		<0.0000005	<0.0000005	RPD-NA	mg/L	N/A	20	17-AUG-20
Sodium (Na)-Dissolved		10.8	10.7		mg/L	1.2	20	17-AUG-20
Strontium (Sr)-Dissolved		0.252	0.251		mg/L	0.4	20	17-AUG-20
Sulfur (S)-Dissolved		13.4	14.4		mg/L	7.9	20	17-AUG-20
Tellurium (Te)-Dissolved		<0.00001	0.00002	RPD-NA	mg/L	N/A	20	17-AUG-20
Thallium (Tl)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	17-AUG-20
Thorium (Th)-Dissolved		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	17-AUG-20
Tin (Sn)-Dissolved		0.000375	0.000385	RPD-NA	mg/L	N/A	20	17-AUG-20
Titanium (Ti)-Dissolved		0.00018	0.00020	RPD-NA	mg/L	N/A	20	17-AUG-20
Tungsten (W)-Dissolved		0.000004	0.000006	RPD-NA	mg/L	N/A	20	17-AUG-20
Uranium (U)-Dissolved		0.00268	0.00274	RPD-NA	mg/L	N/A	20	17-AUG-20
Vanadium (V)-Dissolved		0.00152	0.00152		mg/L	0.6	20	17-AUG-20
Zinc (Zn)-Dissolved		0.0012	0.0012	RPD-NA	mg/L	N/A	20	17-AUG-20
Zirconium (Zr)-Dissolved		0.000210	0.000202	RPD-NA	mg/L	N/A	20	17-AUG-20
WG3384943-10	LCS							
Aluminum (Al)-Dissolved			97.2		%		80-120	17-AUG-20
Antimony (Sb)-Dissolved			102.3		%		80-120	17-AUG-20
Arsenic (As)-Dissolved			101.4		%		80-120	17-AUG-20
Barium (Ba)-Dissolved			105.0		%		80-120	17-AUG-20
Beryllium (Be)-Dissolved			95.1		%		80-120	17-AUG-20
Bismuth (Bi)-Dissolved			102.7		%		80-120	17-AUG-20
Boron (B)-Dissolved			90.6		%		80-120	17-AUG-20
Cadmium (Cd)-Dissolved			99.6		%		80-120	17-AUG-20
Calcium (Ca)-Dissolved			98.0		%		80-120	17-AUG-20
Cesium (Cs)-Dissolved			103.5		%		80-120	17-AUG-20

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 10 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R5190702							
WG3384943-10 LCS								
Chromium (Cr)-Dissolved			95.8		%		80-120	17-AUG-20
Cobalt (Co)-Dissolved			95.9		%		80-120	17-AUG-20
Copper (Cu)-Dissolved			97.0		%		80-120	17-AUG-20
Iron (Fe)-Dissolved			116.2		%		80-120	17-AUG-20
Lead (Pb)-Dissolved			98.9		%		80-120	17-AUG-20
Lithium (Li)-Dissolved			105.4		%		80-120	17-AUG-20
Magnesium (Mg)-Dissolved			96.8		%		80-120	17-AUG-20
Manganese (Mn)-Dissolved			97.4		%		80-120	17-AUG-20
Molybdenum (Mo)-Dissolved			99.6		%		80-120	17-AUG-20
Nickel (Ni)-Dissolved			97.9		%		80-120	17-AUG-20
Phosphorus (P)-Dissolved			98.0		%		70-130	17-AUG-20
Potassium (K)-Dissolved			104.2		%		80-120	17-AUG-20
Rubidium (Rb)-Dissolved			97.1		%		80-120	17-AUG-20
Selenium (Se)-Dissolved			101.7		%		80-120	17-AUG-20
Silicon (Si)-Dissolved			98.3		%		60-140	17-AUG-20
Silver (Ag)-Dissolved			100.7		%		80-120	17-AUG-20
Sodium (Na)-Dissolved			93.7		%		80-120	17-AUG-20
Strontium (Sr)-Dissolved			102.6		%		80-120	17-AUG-20
Sulfur (S)-Dissolved			91.6		%		80-120	17-AUG-20
Tellurium (Te)-Dissolved			94.4		%		80-120	17-AUG-20
Thallium (Tl)-Dissolved			99.5		%		80-120	17-AUG-20
Thorium (Th)-Dissolved			99.4		%		80-120	17-AUG-20
Tin (Sn)-Dissolved			100.8		%		80-120	17-AUG-20
Titanium (Ti)-Dissolved			98.9		%		80-120	17-AUG-20
Tungsten (W)-Dissolved			99.9		%		80-120	17-AUG-20
Uranium (U)-Dissolved			98.4		%		80-120	17-AUG-20
Vanadium (V)-Dissolved			98.1		%		80-120	17-AUG-20
Zinc (Zn)-Dissolved			99.5		%		80-120	17-AUG-20
Zirconium (Zr)-Dissolved			105.2		%		80-120	17-AUG-20
WG3384943-6 LCS								
Aluminum (Al)-Dissolved			98.1		%		80-120	17-AUG-20
Antimony (Sb)-Dissolved			101.8		%		80-120	17-AUG-20
Arsenic (As)-Dissolved			102.2		%		80-120	17-AUG-20
Barium (Ba)-Dissolved			103.1		%		80-120	17-AUG-20

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 11 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R5190702							
WG3384943-6	LCS							
Beryllium (Be)-Dissolved			94.9		%		80-120	17-AUG-20
Bismuth (Bi)-Dissolved			96.7		%		80-120	17-AUG-20
Boron (B)-Dissolved			90.2		%		80-120	17-AUG-20
Cadmium (Cd)-Dissolved			100.1		%		80-120	17-AUG-20
Calcium (Ca)-Dissolved			97.8		%		80-120	17-AUG-20
Cesium (Cs)-Dissolved			104.9		%		80-120	17-AUG-20
Chromium (Cr)-Dissolved			97.4		%		80-120	17-AUG-20
Cobalt (Co)-Dissolved			96.5		%		80-120	17-AUG-20
Copper (Cu)-Dissolved			98.2		%		80-120	17-AUG-20
Iron (Fe)-Dissolved			118.6		%		80-120	17-AUG-20
Lead (Pb)-Dissolved			94.6		%		80-120	17-AUG-20
Lithium (Li)-Dissolved			102.8		%		80-120	17-AUG-20
Magnesium (Mg)-Dissolved			96.5		%		80-120	17-AUG-20
Manganese (Mn)-Dissolved			100.1		%		80-120	17-AUG-20
Molybdenum (Mo)-Dissolved			97.6		%		80-120	17-AUG-20
Nickel (Ni)-Dissolved			99.3		%		80-120	17-AUG-20
Phosphorus (P)-Dissolved			103.5		%		70-130	17-AUG-20
Potassium (K)-Dissolved			108.0		%		80-120	17-AUG-20
Rubidium (Rb)-Dissolved			100.5		%		80-120	17-AUG-20
Selenium (Se)-Dissolved			100.4		%		80-120	17-AUG-20
Silicon (Si)-Dissolved			101.6		%		60-140	17-AUG-20
Silver (Ag)-Dissolved			102.0		%		80-120	17-AUG-20
Sodium (Na)-Dissolved			97.0		%		80-120	17-AUG-20
Strontium (Sr)-Dissolved			99.9		%		80-120	17-AUG-20
Sulfur (S)-Dissolved			98.8		%		80-120	17-AUG-20
Tellurium (Te)-Dissolved			98.0		%		80-120	17-AUG-20
Thallium (Tl)-Dissolved			96.6		%		80-120	17-AUG-20
Thorium (Th)-Dissolved			94.4		%		80-120	17-AUG-20
Tin (Sn)-Dissolved			100.5		%		80-120	17-AUG-20
Titanium (Ti)-Dissolved			96.2		%		80-120	17-AUG-20
Tungsten (W)-Dissolved			98.2		%		80-120	17-AUG-20
Uranium (U)-Dissolved			100.4		%		80-120	17-AUG-20
Vanadium (V)-Dissolved			101.6		%		80-120	17-AUG-20

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 12 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R5190702							
WG3384943-6	LCS							
Zinc (Zn)-Dissolved			98.5		%		80-120	17-AUG-20
Zirconium (Zr)-Dissolved			103.7		%		80-120	17-AUG-20
WG3384943-5	MB							
Aluminum (Al)-Dissolved			<0.0002		mg/L		0.005	17-AUG-20
Antimony (Sb)-Dissolved			0.000005		mg/L		0.0006	17-AUG-20
Arsenic (As)-Dissolved			<0.0000002		mg/L		0.001	17-AUG-20
Barium (Ba)-Dissolved			<0.000005		mg/L		0.01	17-AUG-20
Beryllium (Be)-Dissolved			<0.000002		mg/L		0.001	17-AUG-20
Bismuth (Bi)-Dissolved			<0.000002		mg/L		0.001	17-AUG-20
Boron (B)-Dissolved			0.0005		mg/L		0.05	17-AUG-20
Cadmium (Cd)-Dissolved			<0.0000005		mg/L		0.000017	17-AUG-20
Calcium (Ca)-Dissolved			<0.002		mg/L		0.2	17-AUG-20
Cesium (Cs)-Dissolved			<0.0000005		mg/L		0.00001	17-AUG-20
Chromium (Cr)-Dissolved			<0.00001		mg/L		0.001	17-AUG-20
Cobalt (Co)-Dissolved			<0.000002		mg/L		0.0005	17-AUG-20
Copper (Cu)-Dissolved			<0.00002		mg/L		0.001	17-AUG-20
Iron (Fe)-Dissolved			<0.0005		mg/L		0.02	17-AUG-20
Lead (Pb)-Dissolved			<0.00001		mg/L		0.00005	17-AUG-20
Lithium (Li)-Dissolved			<0.0002		mg/L		0.05	17-AUG-20
Magnesium (Mg)-Dissolved			<0.0005		mg/L		0.02	17-AUG-20
Manganese (Mn)-Dissolved			<0.00002		mg/L		0.001	17-AUG-20
Molybdenum (Mo)-Dissolved			<0.000002		mg/L		0.001	17-AUG-20
Nickel (Ni)-Dissolved			<0.00002		mg/L		0.002	17-AUG-20
Phosphorus (P)-Dissolved			<0.005		mg/L		0.05	17-AUG-20
Potassium (K)-Dissolved			<0.01		mg/L		0.5	17-AUG-20
Rubidium (Rb)-Dissolved			0.000002		mg/L		0.0002	17-AUG-20
Selenium (Se)-Dissolved			<0.000005		mg/L		0.00005	17-AUG-20
Silicon (Si)-Dissolved			<0.005		mg/L		0.05	17-AUG-20
Silver (Ag)-Dissolved			<0.0000005		mg/L		0.0001	17-AUG-20
Sodium (Na)-Dissolved			0.010		mg/L		0.1	17-AUG-20
Strontium (Sr)-Dissolved			<0.00002		mg/L		0.001	17-AUG-20
Sulfur (S)-Dissolved			<0.2		mg/L		0.5	17-AUG-20
Tellurium (Te)-Dissolved			<0.00001		mg/L		0.001	17-AUG-20
Thallium (Tl)-Dissolved			<0.000002		mg/L		0.0003	17-AUG-20

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 13 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R5190702							
WG3384943-5 MB								
Thorium (Th)-Dissolved			<0.00001		mg/L		0.0001	17-AUG-20
Tin (Sn)-Dissolved			<0.000005		mg/L		0.001	17-AUG-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.002	17-AUG-20
Tungsten (W)-Dissolved			<0.000002		mg/L		0.01	17-AUG-20
Uranium (U)-Dissolved			<0.0000005		mg/L		0.005	17-AUG-20
Vanadium (V)-Dissolved			<0.00002		mg/L		0.001	17-AUG-20
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.003	17-AUG-20
Zirconium (Zr)-Dissolved			<0.000002		mg/L		0.001	17-AUG-20
WG3384943-9 MB								
Aluminum (Al)-Dissolved			<0.0002		mg/L		0.005	17-AUG-20
Antimony (Sb)-Dissolved			0.000005		mg/L		0.0006	17-AUG-20
Arsenic (As)-Dissolved			0.0000020		mg/L		0.001	17-AUG-20
Barium (Ba)-Dissolved			<0.000005		mg/L		0.01	17-AUG-20
Beryllium (Be)-Dissolved			<0.000002		mg/L		0.001	17-AUG-20
Bismuth (Bi)-Dissolved			<0.000002		mg/L		0.001	17-AUG-20
Boron (B)-Dissolved			<0.0005		mg/L		0.05	17-AUG-20
Cadmium (Cd)-Dissolved			<0.0000005		mg/L		0.000017	17-AUG-20
Calcium (Ca)-Dissolved			<0.002		mg/L		0.2	17-AUG-20
Cesium (Cs)-Dissolved			<0.0000005		mg/L		0.00001	17-AUG-20
Chromium (Cr)-Dissolved			<0.00001		mg/L		0.001	17-AUG-20
Cobalt (Co)-Dissolved			<0.000002		mg/L		0.0005	17-AUG-20
Copper (Cu)-Dissolved			<0.00002		mg/L		0.001	17-AUG-20
Iron (Fe)-Dissolved			<0.0005		mg/L		0.02	17-AUG-20
Lead (Pb)-Dissolved			<0.00001		mg/L		0.00005	17-AUG-20
Lithium (Li)-Dissolved			<0.0002		mg/L		0.05	17-AUG-20
Magnesium (Mg)-Dissolved			<0.0005		mg/L		0.02	17-AUG-20
Manganese (Mn)-Dissolved			<0.00002		mg/L		0.001	17-AUG-20
Molybdenum (Mo)-Dissolved			<0.000002		mg/L		0.001	17-AUG-20
Nickel (Ni)-Dissolved			<0.00002		mg/L		0.002	17-AUG-20
Phosphorus (P)-Dissolved			<0.005		mg/L		0.05	17-AUG-20
Potassium (K)-Dissolved			<0.01		mg/L		0.5	17-AUG-20
Rubidium (Rb)-Dissolved			<0.000002		mg/L		0.0002	17-AUG-20
Selenium (Se)-Dissolved			0.000005		mg/L		0.00005	17-AUG-20
Silicon (Si)-Dissolved			<0.005		mg/L		0.05	17-AUG-20

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 14 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB	Effluent							
Batch	R5190702							
WG3384943-9 MB								
Silver (Ag)-Dissolved			<0.0000005		mg/L		0.0001	17-AUG-20
Sodium (Na)-Dissolved			0.010		mg/L		0.1	17-AUG-20
Strontium (Sr)-Dissolved			<0.00002		mg/L		0.001	17-AUG-20
Sulfur (S)-Dissolved			<0.2		mg/L		0.5	17-AUG-20
Tellurium (Te)-Dissolved			<0.00001		mg/L		0.001	17-AUG-20
Thallium (Tl)-Dissolved			<0.000002		mg/L		0.0003	17-AUG-20
Thorium (Th)-Dissolved			<0.00001		mg/L		0.0001	17-AUG-20
Tin (Sn)-Dissolved			<0.000005		mg/L		0.001	17-AUG-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.002	17-AUG-20
Tungsten (W)-Dissolved			0.000002		mg/L		0.01	17-AUG-20
Uranium (U)-Dissolved			<0.0000005		mg/L		0.005	17-AUG-20
Vanadium (V)-Dissolved			<0.00002		mg/L		0.001	17-AUG-20
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.003	17-AUG-20
Zirconium (Zr)-Dissolved			0.000002		mg/L		0.001	17-AUG-20
WG3384943-12 MS		L2488710-14						
Aluminum (Al)-Dissolved			101.1		%		70-130	17-AUG-20
Antimony (Sb)-Dissolved			102.6		%		70-130	17-AUG-20
Arsenic (As)-Dissolved			101.5		%		70-130	17-AUG-20
Barium (Ba)-Dissolved			N/A	MS-B	%		-	17-AUG-20
Beryllium (Be)-Dissolved			100.6		%		70-130	17-AUG-20
Bismuth (Bi)-Dissolved			98.7		%		70-130	17-AUG-20
Boron (B)-Dissolved			94.6		%		70-130	17-AUG-20
Cadmium (Cd)-Dissolved			106.2		%		70-130	17-AUG-20
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	17-AUG-20
Cesium (Cs)-Dissolved			106.1		%		70-130	17-AUG-20
Chromium (Cr)-Dissolved			96.0		%		70-130	17-AUG-20
Cobalt (Co)-Dissolved			96.7		%		70-130	17-AUG-20
Copper (Cu)-Dissolved			98.4		%		70-130	17-AUG-20
Iron (Fe)-Dissolved			95.1		%		70-130	17-AUG-20
Lead (Pb)-Dissolved			100.7		%		70-130	17-AUG-20
Lithium (Li)-Dissolved			96.4		%		70-130	17-AUG-20
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	17-AUG-20
Manganese (Mn)-Dissolved			N/A	MS-B	%		-	17-AUG-20
Molybdenum (Mo)-Dissolved			98.9		%		70-130	17-AUG-20

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 15 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB								
	Effluent							
Batch	R5190702							
WG3384943-12 MS		L2488710-14						
Nickel (Ni)-Dissolved			97.4		%		70-130	17-AUG-20
Phosphorus (P)-Dissolved			112.9		%		70-130	17-AUG-20
Potassium (K)-Dissolved			N/A	MS-B	%		-	17-AUG-20
Rubidium (Rb)-Dissolved			101.8		%		70-130	17-AUG-20
Selenium (Se)-Dissolved			102.4		%		70-130	17-AUG-20
Silicon (Si)-Dissolved			88.2		%		70-130	17-AUG-20
Silver (Ag)-Dissolved			99.8		%		70-130	17-AUG-20
Sodium (Na)-Dissolved			N/A	MS-B	%		-	17-AUG-20
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	17-AUG-20
Sulfur (S)-Dissolved			88.5		%		70-130	17-AUG-20
Tellurium (Te)-Dissolved			97.0		%		70-130	17-AUG-20
Thallium (Tl)-Dissolved			101.3		%		70-130	17-AUG-20
Thorium (Th)-Dissolved			106.1		%		70-130	17-AUG-20
Tin (Sn)-Dissolved			100.5		%		70-130	17-AUG-20
Titanium (Ti)-Dissolved			100.5		%		70-130	17-AUG-20
Tungsten (W)-Dissolved			103.8		%		70-130	17-AUG-20
Uranium (U)-Dissolved			106.8		%		70-130	17-AUG-20
Vanadium (V)-Dissolved			100.3		%		70-130	17-AUG-20
Zinc (Zn)-Dissolved			102.3		%		70-130	17-AUG-20
Zirconium (Zr)-Dissolved			108.2		%		70-130	17-AUG-20
WG3384943-8 MS		L2488710-12						
Aluminum (Al)-Dissolved			99.5		%		70-130	17-AUG-20
Antimony (Sb)-Dissolved			98.6		%		70-130	17-AUG-20
Arsenic (As)-Dissolved			101.7		%		70-130	17-AUG-20
Barium (Ba)-Dissolved			N/A	MS-B	%		-	17-AUG-20
Beryllium (Be)-Dissolved			99.8		%		70-130	17-AUG-20
Bismuth (Bi)-Dissolved			97.3		%		70-130	17-AUG-20
Boron (B)-Dissolved			93.9		%		70-130	17-AUG-20
Cadmium (Cd)-Dissolved			101.3		%		70-130	17-AUG-20
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	17-AUG-20
Cesium (Cs)-Dissolved			106.6		%		70-130	17-AUG-20
Chromium (Cr)-Dissolved			98.8		%		70-130	17-AUG-20
Cobalt (Co)-Dissolved			97.4		%		70-130	17-AUG-20
Copper (Cu)-Dissolved			95.4		%		70-130	17-AUG-20

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 16 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB								
	Effluent							
Batch	R5190702							
WG3384943-8 MS		L2488710-12						
Iron (Fe)-Dissolved			89.8		%		70-130	17-AUG-20
Lead (Pb)-Dissolved			95.6		%		70-130	17-AUG-20
Lithium (Li)-Dissolved			96.0		%		70-130	17-AUG-20
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	17-AUG-20
Manganese (Mn)-Dissolved			N/A	MS-B	%		-	17-AUG-20
Molybdenum (Mo)-Dissolved			98.9		%		70-130	17-AUG-20
Nickel (Ni)-Dissolved			99.4		%		70-130	17-AUG-20
Phosphorus (P)-Dissolved			108.2		%		70-130	17-AUG-20
Potassium (K)-Dissolved			103.7		%		70-130	17-AUG-20
Rubidium (Rb)-Dissolved			101.6		%		70-130	17-AUG-20
Selenium (Se)-Dissolved			97.0		%		70-130	17-AUG-20
Silicon (Si)-Dissolved			81.5		%		70-130	17-AUG-20
Silver (Ag)-Dissolved			82.3		%		70-130	17-AUG-20
Sodium (Na)-Dissolved			N/A	MS-B	%		-	17-AUG-20
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	17-AUG-20
Sulfur (S)-Dissolved			90.0		%		70-130	17-AUG-20
Tellurium (Te)-Dissolved			96.6		%		70-130	17-AUG-20
Thallium (Tl)-Dissolved			95.8		%		70-130	17-AUG-20
Thorium (Th)-Dissolved			98.8		%		70-130	17-AUG-20
Tin (Sn)-Dissolved			99.0		%		70-130	17-AUG-20
Titanium (Ti)-Dissolved			97.3		%		70-130	17-AUG-20
Tungsten (W)-Dissolved			97.5		%		70-130	17-AUG-20
Uranium (U)-Dissolved			98.8		%		70-130	17-AUG-20
Vanadium (V)-Dissolved			101.1		%		70-130	17-AUG-20
Zinc (Zn)-Dissolved			100.8		%		70-130	17-AUG-20
Zirconium (Zr)-Dissolved			107.0		%		70-130	17-AUG-20
MET-T-MISA-TB								
	Effluent							
Batch	R5191493							
WG3384186-2 LCS								
Aluminum (Al)-Total			98.1		%		80-120	18-AUG-20
Antimony (Sb)-Total			108.0		%		80-120	18-AUG-20
Arsenic (As)-Total			104.4		%		80-120	18-AUG-20
Barium (Ba)-Total			98.5		%		80-120	18-AUG-20
Beryllium (Be)-Total			97.9		%		80-120	18-AUG-20

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 17 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5191493							
WG3384186-2	LCS							
Beryllium (Be)-Total			97.9		%		80-120	18-AUG-20
Bismuth (Bi)-Total			98.7		%		80-120	18-AUG-20
Boron (B)-Total			101.1		%		80-120	18-AUG-20
Cadmium (Cd)-Total			100.7		%		80-120	18-AUG-20
Calcium (Ca)-Total			100.8		%		80-120	18-AUG-20
Cesium (Cs)-Total			103.1		%		80-120	18-AUG-20
Chromium (Cr)-Total			102.7		%		80-120	18-AUG-20
Cobalt (Co)-Total			101.2		%		80-120	18-AUG-20
Copper (Cu)-Total			98.6		%		80-120	18-AUG-20
Iron (Fe)-Total			120.9	MES	%		80-120	18-AUG-20
Lead (Pb)-Total			100.3		%		80-120	18-AUG-20
Lithium (Li)-Total			104.7		%		80-120	18-AUG-20
Magnesium (Mg)-Total			100.4		%		80-120	18-AUG-20
Manganese (Mn)-Total			99.5		%		80-120	18-AUG-20
Molybdenum (Mo)-Total			104.6		%		80-120	18-AUG-20
Nickel (Ni)-Total			99.9		%		80-120	18-AUG-20
Phosphorus (P)-Total			109.4		%		80-120	18-AUG-20
Potassium (K)-Total			103.4		%		80-120	18-AUG-20
Rubidium (Rb)-Total			98.1		%		80-120	18-AUG-20
Selenium (Se)-Total			99.2		%		80-120	18-AUG-20
Silicon (Si)-Total			102.1		%		80-120	18-AUG-20
Silver (Ag)-Total			104.6		%		80-120	18-AUG-20
Sodium (Na)-Total			100.8		%		80-120	18-AUG-20
Strontium (Sr)-Total			98.6		%		80-120	18-AUG-20
Sulfur (S)-Total			101.0		%		80-120	18-AUG-20
Tellurium (Te)-Total			107.8		%		80-120	18-AUG-20
Thallium (Tl)-Total			98.6		%		80-120	18-AUG-20
Thorium (Th)-Total			96.4		%		80-120	18-AUG-20
Tin (Sn)-Total			103.8		%		80-120	18-AUG-20
Titanium (Ti)-Total			98.3		%		80-120	18-AUG-20
Tungsten (W)-Total			102.7		%		80-120	18-AUG-20
Uranium (U)-Total			94.2		%		80-120	18-AUG-20
Vanadium (V)-Total			100.7		%		80-120	18-AUG-20

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 18 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5191493							
WG3384186-2	LCS							
Zinc (Zn)-Total			97.7		%		80-120	18-AUG-20
Zirconium (Zr)-Total			102.5		%		80-120	18-AUG-20
WG3384186-6	LCS							
Aluminum (Al)-Total			100.4		%		80-120	18-AUG-20
Antimony (Sb)-Total			107.2		%		80-120	18-AUG-20
Arsenic (As)-Total			105.1		%		80-120	18-AUG-20
Barium (Ba)-Total			96.9		%		80-120	18-AUG-20
Beryllium (Be)-Total			96.7		%		80-120	18-AUG-20
Bismuth (Bi)-Total			102.4		%		80-120	18-AUG-20
Boron (B)-Total			92.4		%		80-120	18-AUG-20
Cadmium (Cd)-Total			100.1		%		80-120	18-AUG-20
Calcium (Ca)-Total			99.1		%		80-120	18-AUG-20
Cesium (Cs)-Total			103.2		%		80-120	18-AUG-20
Chromium (Cr)-Total			104.8		%		80-120	18-AUG-20
Cobalt (Co)-Total			100.3		%		80-120	18-AUG-20
Copper (Cu)-Total			99.6		%		80-120	18-AUG-20
Iron (Fe)-Total			121.7	MES	%		80-120	18-AUG-20
Lead (Pb)-Total			100.2		%		80-120	18-AUG-20
Lithium (Li)-Total			101.8		%		80-120	18-AUG-20
Magnesium (Mg)-Total			100.3		%		80-120	18-AUG-20
Manganese (Mn)-Total			100.7		%		80-120	18-AUG-20
Molybdenum (Mo)-Total			101.0		%		80-120	18-AUG-20
Nickel (Ni)-Total			101.8		%		80-120	18-AUG-20
Phosphorus (P)-Total			111.9		%		80-120	18-AUG-20
Potassium (K)-Total			105.7		%		80-120	18-AUG-20
Rubidium (Rb)-Total			95.9		%		80-120	18-AUG-20
Selenium (Se)-Total			102.9		%		80-120	18-AUG-20
Silicon (Si)-Total			100.1		%		80-120	18-AUG-20
Silver (Ag)-Total			104.5		%		80-120	18-AUG-20
Sodium (Na)-Total			102.6		%		80-120	18-AUG-20
Strontium (Sr)-Total			96.9		%		80-120	18-AUG-20
Sulfur (S)-Total			105.3		%		80-120	18-AUG-20
Tellurium (Te)-Total			101.6		%		80-120	18-AUG-20
Thallium (Tl)-Total			101.0		%		80-120	18-AUG-20

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 19 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5191493							
WG3384186-6 LCS								
Thorium (Th)-Total			96.6		%		80-120	18-AUG-20
Tin (Sn)-Total			106.2		%		80-120	18-AUG-20
Titanium (Ti)-Total			102.6		%		80-120	18-AUG-20
Tungsten (W)-Total			103.7		%		80-120	18-AUG-20
Uranium (U)-Total			98.4		%		80-120	18-AUG-20
Vanadium (V)-Total			101.7		%		80-120	18-AUG-20
Zinc (Zn)-Total			101.2		%		80-120	18-AUG-20
Zirconium (Zr)-Total			102.5		%		80-120	18-AUG-20
WG3385536-2 LCS								
Aluminum (Al)-Total			99.5		%		80-120	18-AUG-20
Antimony (Sb)-Total			106.3		%		80-120	18-AUG-20
Arsenic (As)-Total			103.0		%		80-120	18-AUG-20
Barium (Ba)-Total			97.4		%		80-120	18-AUG-20
Beryllium (Be)-Total			97.1		%		80-120	18-AUG-20
Bismuth (Bi)-Total			99.4		%		80-120	18-AUG-20
Boron (B)-Total			91.0		%		80-120	18-AUG-20
Cadmium (Cd)-Total			99.6		%		80-120	18-AUG-20
Calcium (Ca)-Total			100.4		%		80-120	18-AUG-20
Cesium (Cs)-Total			103.0		%		80-120	18-AUG-20
Chromium (Cr)-Total			101.8		%		80-120	18-AUG-20
Cobalt (Co)-Total			99.4		%		80-120	18-AUG-20
Copper (Cu)-Total			98.5		%		80-120	18-AUG-20
Iron (Fe)-Total			115.4		%		80-120	18-AUG-20
Lead (Pb)-Total			101.2		%		80-120	18-AUG-20
Lithium (Li)-Total			101.8		%		80-120	18-AUG-20
Magnesium (Mg)-Total			102.2		%		80-120	18-AUG-20
Manganese (Mn)-Total			99.3		%		80-120	18-AUG-20
Molybdenum (Mo)-Total			101.3		%		80-120	18-AUG-20
Nickel (Ni)-Total			99.4		%		80-120	18-AUG-20
Phosphorus (P)-Total			106.4		%		80-120	18-AUG-20
Potassium (K)-Total			98.8		%		80-120	18-AUG-20
Rubidium (Rb)-Total			94.4		%		80-120	18-AUG-20
Selenium (Se)-Total			99.9		%		80-120	18-AUG-20
Silicon (Si)-Total			100.7		%		80-120	18-AUG-20

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 20 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5191493							
WG3385536-2 LCS								
Silver (Ag)-Total			105.9		%		80-120	18-AUG-20
Sodium (Na)-Total			101.2		%		80-120	18-AUG-20
Strontium (Sr)-Total			96.9		%		80-120	18-AUG-20
Sulfur (S)-Total			106.3		%		80-120	18-AUG-20
Tellurium (Te)-Total			105.4		%		80-120	18-AUG-20
Thallium (Tl)-Total			98.3		%		80-120	18-AUG-20
Thorium (Th)-Total			97.9		%		80-120	18-AUG-20
Tin (Sn)-Total			102.8		%		80-120	18-AUG-20
Titanium (Ti)-Total			96.7		%		80-120	18-AUG-20
Tungsten (W)-Total			100.6		%		80-120	18-AUG-20
Uranium (U)-Total			96.4		%		80-120	18-AUG-20
Vanadium (V)-Total			99.3		%		80-120	18-AUG-20
Zinc (Zn)-Total			96.0		%		80-120	18-AUG-20
Zirconium (Zr)-Total			97.4		%		80-120	18-AUG-20
WG3384186-1 MB								
Aluminum (Al)-Total			<0.0002		mg/L		0.005	18-AUG-20
Antimony (Sb)-Total			0.000010		mg/L		0.0006	18-AUG-20
Arsenic (As)-Total			0.00003		mg/L		0.001	18-AUG-20
Barium (Ba)-Total			0.00001		mg/L		0.01	18-AUG-20
Beryllium (Be)-Total			<0.0000001		mg/L		0.001	18-AUG-20
Bismuth (Bi)-Total			<0.00001		mg/L		0.001	18-AUG-20
Boron (B)-Total			<0.0005		mg/L		0.05	18-AUG-20
Cadmium (Cd)-Total			<0.000001		mg/L		0.000017	18-AUG-20
Calcium (Ca)-Total			0.004		mg/L		0.2	18-AUG-20
Cesium (Cs)-Total			<0.0000005		mg/L		0.00001	18-AUG-20
Chromium (Cr)-Total			<0.00002		mg/L		0.001	18-AUG-20
Cobalt (Co)-Total			<0.000005		mg/L		0.0005	18-AUG-20
Copper (Cu)-Total			<0.00002		mg/L		0.001	18-AUG-20
Iron (Fe)-Total			<0.0005		mg/L		0.02	18-AUG-20
Lead (Pb)-Total			<0.00001		mg/L		0.00005	18-AUG-20
Lithium (Li)-Total			0.0004		mg/L		0.05	18-AUG-20
Magnesium (Mg)-Total			0.0008		mg/L		0.02	18-AUG-20
Manganese (Mn)-Total			<0.0002		mg/L		0.001	18-AUG-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.001	18-AUG-20

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 21 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5191493							
WG3384186-1 MB								
Nickel (Ni)-Total			<0.00002		mg/L		0.002	18-AUG-20
Phosphorus (P)-Total			0.005		mg/L		0.05	18-AUG-20
Potassium (K)-Total			<0.01		mg/L		0.5	18-AUG-20
Rubidium (Rb)-Total			<0.000002		mg/L		0.0002	18-AUG-20
Selenium (Se)-Total			0.000015		mg/L		0.00005	18-AUG-20
Silicon (Si)-Total			0.014		mg/L		0.1	18-AUG-20
Silver (Ag)-Total			<0.000001		mg/L		0.0001	18-AUG-20
Sodium (Na)-Total			0.010		mg/L		0.1	18-AUG-20
Strontium (Sr)-Total			<0.000005		mg/L		0.001	18-AUG-20
Sulfur (S)-Total			<0.2		mg/L		0.5	18-AUG-20
Tellurium (Te)-Total			<0.00002		mg/L		0.001	18-AUG-20
Thallium (Tl)-Total			<0.000005		mg/L		0.0003	18-AUG-20
Thorium (Th)-Total			<0.00001		mg/L		0.0001	18-AUG-20
Tin (Sn)-Total			<0.00001		mg/L		0.001	18-AUG-20
Titanium (Ti)-Total			0.00002		mg/L		0.002	18-AUG-20
Tungsten (W)-Total			<0.00001		mg/L		0.01	18-AUG-20
Uranium (U)-Total			<0.0000005		mg/L		0.005	18-AUG-20
Vanadium (V)-Total			0.00015		mg/L		0.001	18-AUG-20
Zinc (Zn)-Total			0.0005		mg/L		0.003	18-AUG-20
Zirconium (Zr)-Total			<0.000002		mg/L		0.001	18-AUG-20
WG3384186-5 MB								
Aluminum (Al)-Total			<0.0002		mg/L		0.005	18-AUG-20
Antimony (Sb)-Total			0.000010		mg/L		0.0006	18-AUG-20
Arsenic (As)-Total			0.00004		mg/L		0.001	18-AUG-20
Barium (Ba)-Total			<0.00001		mg/L		0.01	18-AUG-20
Beryllium (Be)-Total			<0.0000001		mg/L		0.001	18-AUG-20
Bismuth (Bi)-Total			<0.00001		mg/L		0.001	18-AUG-20
Boron (B)-Total			<0.0005		mg/L		0.05	18-AUG-20
Cadmium (Cd)-Total			<0.000001		mg/L		0.000017	18-AUG-20
Calcium (Ca)-Total			0.002		mg/L		0.2	18-AUG-20
Cesium (Cs)-Total			<0.0000005		mg/L		0.00001	18-AUG-20
Chromium (Cr)-Total			0.00004		mg/L		0.001	18-AUG-20
Cobalt (Co)-Total			<0.000005		mg/L		0.0005	18-AUG-20
Copper (Cu)-Total			<0.00002		mg/L		0.001	18-AUG-20

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 22 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5191493							
WG3384186-5	MB							
Iron (Fe)-Total			<0.0005		mg/L		0.02	18-AUG-20
Lead (Pb)-Total			<0.00001		mg/L		0.00005	18-AUG-20
Lithium (Li)-Total			0.0004		mg/L		0.05	18-AUG-20
Magnesium (Mg)-Total			<0.0002		mg/L		0.02	18-AUG-20
Manganese (Mn)-Total			<0.0002		mg/L		0.001	18-AUG-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.001	18-AUG-20
Nickel (Ni)-Total			<0.00002		mg/L		0.002	18-AUG-20
Phosphorus (P)-Total			<0.005		mg/L		0.05	18-AUG-20
Potassium (K)-Total			<0.01		mg/L		0.5	18-AUG-20
Rubidium (Rb)-Total			<0.000002		mg/L		0.0002	18-AUG-20
Selenium (Se)-Total			0.000010		mg/L		0.00005	18-AUG-20
Silicon (Si)-Total			0.016		mg/L		0.1	18-AUG-20
Silver (Ag)-Total			<0.000001		mg/L		0.0001	18-AUG-20
Sodium (Na)-Total			<0.005		mg/L		0.1	18-AUG-20
Strontium (Sr)-Total			0.000005		mg/L		0.001	18-AUG-20
Sulfur (S)-Total			<0.2		mg/L		0.5	18-AUG-20
Tellurium (Te)-Total			<0.00002		mg/L		0.001	18-AUG-20
Thallium (Tl)-Total			<0.000005		mg/L		0.0003	18-AUG-20
Thorium (Th)-Total			<0.00001		mg/L		0.0001	18-AUG-20
Tin (Sn)-Total			0.00001		mg/L		0.001	18-AUG-20
Titanium (Ti)-Total			<0.00001		mg/L		0.002	18-AUG-20
Tungsten (W)-Total			<0.00001		mg/L		0.01	18-AUG-20
Uranium (U)-Total			<0.0000005		mg/L		0.005	18-AUG-20
Vanadium (V)-Total			0.00020		mg/L		0.001	18-AUG-20
Zinc (Zn)-Total			<0.0005		mg/L		0.003	18-AUG-20
Zirconium (Zr)-Total			<0.000002		mg/L		0.001	18-AUG-20
WG3385536-1	MB							
Aluminum (Al)-Total			<0.0002		mg/L		0.005	18-AUG-20
Antimony (Sb)-Total			0.000025		mg/L		0.0006	18-AUG-20
Arsenic (As)-Total			0.00001		mg/L		0.001	18-AUG-20
Barium (Ba)-Total			<0.00001		mg/L		0.01	18-AUG-20
Beryllium (Be)-Total			<0.0000001		mg/L		0.001	18-AUG-20
Bismuth (Bi)-Total			<0.00001		mg/L		0.001	18-AUG-20
Boron (B)-Total			<0.0005		mg/L		0.05	18-AUG-20

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 23 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5191493							
WG3385536-1 MB								
Cadmium (Cd)-Total			0.000001		mg/L		0.000017	18-AUG-20
Calcium (Ca)-Total			0.006		mg/L		0.2	18-AUG-20
Cesium (Cs)-Total			<0.0000005		mg/L		0.00001	18-AUG-20
Chromium (Cr)-Total			0.00004		mg/L		0.001	18-AUG-20
Cobalt (Co)-Total			<0.000005		mg/L		0.0005	18-AUG-20
Copper (Cu)-Total			<0.00002		mg/L		0.001	18-AUG-20
Iron (Fe)-Total			<0.0005		mg/L		0.02	18-AUG-20
Lead (Pb)-Total			<0.00001		mg/L		0.00005	18-AUG-20
Lithium (Li)-Total			0.0006		mg/L		0.05	18-AUG-20
Magnesium (Mg)-Total			0.0006		mg/L		0.02	18-AUG-20
Manganese (Mn)-Total			<0.0002		mg/L		0.001	18-AUG-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.001	18-AUG-20
Nickel (Ni)-Total			<0.00002		mg/L		0.002	18-AUG-20
Phosphorus (P)-Total			0.005		mg/L		0.05	18-AUG-20
Potassium (K)-Total			0.02		mg/L		0.5	18-AUG-20
Rubidium (Rb)-Total			0.000004		mg/L		0.0002	18-AUG-20
Selenium (Se)-Total			<0.000005		mg/L		0.00005	18-AUG-20
Silicon (Si)-Total			0.016		mg/L		0.1	18-AUG-20
Silver (Ag)-Total			<0.000001		mg/L		0.0001	18-AUG-20
Sodium (Na)-Total			0.015		mg/L		0.1	18-AUG-20
Strontium (Sr)-Total			0.000010		mg/L		0.001	18-AUG-20
Sulfur (S)-Total			0.2		mg/L		0.5	18-AUG-20
Tellurium (Te)-Total			0.00004		mg/L		0.001	18-AUG-20
Thallium (Tl)-Total			<0.000005		mg/L		0.0003	18-AUG-20
Thorium (Th)-Total			<0.00001		mg/L		0.0001	18-AUG-20
Tin (Sn)-Total			<0.00001		mg/L		0.001	18-AUG-20
Titanium (Ti)-Total			0.00003		mg/L		0.002	18-AUG-20
Tungsten (W)-Total			<0.00001		mg/L		0.01	18-AUG-20
Uranium (U)-Total			<0.0000005		mg/L		0.005	18-AUG-20
Vanadium (V)-Total			0.00010		mg/L		0.001	18-AUG-20
Zinc (Zn)-Total			0.0010		mg/L		0.003	18-AUG-20
Zirconium (Zr)-Total			<0.000002		mg/L		0.001	18-AUG-20

NH3-MISA-F-TB **Effluent**

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 24 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-MISA-F-TB		Effluent						
Batch	R5195703							
WG3383832-2	LCS							
Ammonia, Total (as N)			95.0		%		85-115	21-AUG-20
WG3383832-1	MB							
Ammonia, Total (as N)			<0.002		mg/L		0.005	21-AUG-20
WG3383832-4	MS	L2488710-1						
Ammonia, Total (as N)			99.2		%		75-125	21-AUG-20
NO2-MISA-IC-TB		Effluent						
Batch	R5189577							
WG3383741-3	DUP	L2488710-4						
Nitrite (as N)			<0.001	RPD-NA	mg/L	N/A	20	14-AUG-20
WG3383745-3	DUP	L2488710-14						
Nitrite (as N)			<0.001	RPD-NA	mg/L	N/A	20	14-AUG-20
WG3383741-2	LCS							
Nitrite (as N)			95.8		%		90-110	14-AUG-20
WG3383745-2	LCS							
Nitrite (as N)			96.8		%		90-110	14-AUG-20
WG3383741-1	MB							
Nitrite (as N)			<0.001		mg/L		0.01	14-AUG-20
WG3383745-1	MB							
Nitrite (as N)			<0.001		mg/L		0.01	14-AUG-20
WG3383741-4	MS	L2488710-5						
Nitrite (as N)			92.1		%		75-125	14-AUG-20
NO3-MISA-IC-TB		Effluent						
Batch	R5189577							
WG3383741-3	DUP	L2488710-4						
Nitrate (as N)			0.086		mg/L	17	20	14-AUG-20
WG3383745-3	DUP	L2488710-14						
Nitrate (as N)			<0.002	RPD-NA	mg/L	N/A	20	14-AUG-20
WG3383741-2	LCS							
Nitrate (as N)			94.6		%		90-110	14-AUG-20
WG3383745-2	LCS							
Nitrate (as N)			97.8		%		90-110	14-AUG-20
WG3383741-1	MB							
Nitrate (as N)			<0.002		mg/L		0.02	14-AUG-20
WG3383745-1	MB							
Nitrate (as N)			<0.002		mg/L		0.02	14-AUG-20
WG3383741-4	MS	L2488710-5						
Nitrate (as N)			89.6		%		75-125	14-AUG-20

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 25 of 27

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OGG-TOT-WT		Effluent						
Batch	R5190724							
WG3385421-2	LCS							
Oil and Grease, Total			100.1		%		50-150	18-AUG-20
WG3385421-1	MB							
Oil and Grease, Total			0.8		mg/L		1	18-AUG-20
PH-MISA-TB		Effluent						
Batch	R5189745							
WG3383696-3	DUP	L2488790-1						
pH		7.59	7.58	J	pH	0.01	0.2	15-AUG-20
WG3383696-2	LCS							
pH			7.00		pH		6.9-7.1	15-AUG-20
WG3383700-2	LCS							
pH			6.95		pH		6.9-7.1	15-AUG-20
SO4-MISA-IC-TB		Effluent						
Batch	R5189577							
WG3383741-3	DUP	L2488710-4						
Sulfate (SO4)		4.55	5.35		mg/L	16	20	14-AUG-20
WG3383745-3	DUP	L2488710-14						
Sulfate (SO4)		43.9	41.7		mg/L	5.0	20	14-AUG-20
WG3383741-2	LCS							
Sulfate (SO4)			95.3		%		90-110	14-AUG-20
WG3383745-2	LCS							
Sulfate (SO4)			98.5		%		90-110	14-AUG-20
WG3383741-1	MB							
Sulfate (SO4)			<0.05		mg/L		0.3	14-AUG-20
WG3383745-1	MB							
Sulfate (SO4)			<0.05		mg/L		0.3	14-AUG-20
WG3383741-4	MS	L2488710-5						
Sulfate (SO4)			90.7		%		75-125	14-AUG-20
TDS-MISA-TB		Effluent						
Batch	R5190730							
WG3384977-2	LCS							
Total Dissolved Solids			98.3		%		85-115	17-AUG-20
WG3384977-1	MB							
Total Dissolved Solids			8		mg/L		10	17-AUG-20

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Page 26 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TDS-MISA-TB								
Effluent								
Batch	R5191498							
WG3385710-3	DUP	L2488806-1						
Total Dissolved Solids		1170	1170		mg/L	0.0	20	18-AUG-20
WG3385710-2	LCS							
Total Dissolved Solids			98.3		%		85-115	18-AUG-20
WG3385710-1	MB							
Total Dissolved Solids			<2		mg/L		10	18-AUG-20
Batch	R5191518							
WG3385595-3	DUP	L2488710-5						
Total Dissolved Solids		82	80		mg/L	2.9	20	18-AUG-20
WG3385595-2	LCS							
Total Dissolved Solids			96.6		%		85-115	18-AUG-20
WG3385595-1	MB							
Total Dissolved Solids			6		mg/L		10	18-AUG-20
TSS-MISA-TB								
Effluent								
Batch	R5190753							
WG3384978-2	LCS							
Total Suspended Solids			90.7		%		85-115	17-AUG-20
WG3384978-1	MB							
Total Suspended Solids			<0.5		mg/L		3	17-AUG-20
Batch	R5191415							
WG3385591-3	DUP	L2488710-5						
Total Suspended Solids		7.0	7.5		mg/L	8.3	20	18-AUG-20
WG3385591-2	LCS							
Total Suspended Solids			96.5		%		85-115	18-AUG-20
WG3385591-1	MB							
Total Suspended Solids			<0.5		mg/L		3	18-AUG-20
Batch	R5191434							
WG3385716-3	DUP	L2488806-1						
Total Suspended Solids		<0.5	1.0	RPD-NA	mg/L	N/A	20	18-AUG-20
WG3385716-2	LCS							
Total Suspended Solids			92.0		%		85-115	18-AUG-20
WG3385716-1	MB							
Total Suspended Solids			<0.5		mg/L		3	18-AUG-20

Quality Control Report

Workorder: L2488710

Report Date: 09-SEP-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Amanda Jacobs

Page 27 of 27

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
J	Duplicate results and limits are expressed in terms of absolute difference.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Your P.O. #: L2488710
Your C.O.C. #: N/A

Attention: Christine Paradis

ALS Laboratory Group
Environmental Div.
1081 Barton St.
Thunder Bay, ON
Canada P7B 5N3

Report Date: 2020/09/03
Report #: R6317396
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: COL4652

Received: 2020/08/21, 11:30

Sample Matrix: Water
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Radium Isotopes by Alpha Spectrometry (1)	5	N/A	2020/08/31	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by BV Labs, unless otherwise agreed in writing. BV Labs is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by BV Labs, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Radium-226 results have not been corrected for blanks.



Your P.O. #: L2488710
Your C.O.C. #: N/A

Attention: Christine Paradis

ALS Laboratory Group
Environmental Div.
1081 Barton St.
Thunder Bay, ON
Canada P7B 5N3

Report Date: 2020/09/03
Report #: R6317396
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C0L4652
Received: 2020/08/21, 11:30

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Mayank Nigam, Project Manager
Email: Mayank.Nigam@bvlabs.com
Phone# (905) 826-3080

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



RESULTS OF ANALYSES OF WATER

BV Labs ID		NKV769	NKV770	NKV771	NKV772		
Sampling Date		2020/08/11	2020/08/11	2020/08/11	2020/08/11		
COC Number		N/A	N/A	N/A	N/A		
	UNITS	L2488710-2 SW23	L2488710-3 SW24	L2488710-7 SW20	L2488710-8 SW06	RDL	QC Batch
Radium-226	Bq/L	<0.010	<0.010	<0.010	<0.010	0.010	6907587
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

BV Labs ID		NKV773		
Sampling Date		2020/08/11		
COC Number		N/A		
	UNITS	L2488710-13 SW22A	RDL	QC Batch
Radium-226	Bq/L	<0.010	0.010	6907587
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



TEST SUMMARY

BV Labs ID: NKV769
Sample ID: L2488710-2 SW23
Matrix: Water

Collected: 2020/08/11
Shipped:
Received: 2020/08/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6907587	N/A	2020/08/31	Priya Sharma

BV Labs ID: NKV770
Sample ID: L2488710-3 SW24
Matrix: Water

Collected: 2020/08/11
Shipped:
Received: 2020/08/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6907587	N/A	2020/08/31	Priya Sharma

BV Labs ID: NKV771
Sample ID: L2488710-7 SW20
Matrix: Water

Collected: 2020/08/11
Shipped:
Received: 2020/08/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6907587	N/A	2020/08/31	Priya Sharma

BV Labs ID: NKV772
Sample ID: L2488710-8 SW06
Matrix: Water

Collected: 2020/08/11
Shipped:
Received: 2020/08/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6907587	N/A	2020/08/31	Priya Sharma

BV Labs ID: NKV773
Sample ID: L2488710-13 SW22A
Matrix: Water

Collected: 2020/08/11
Shipped:
Received: 2020/08/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	6907587	N/A	2020/08/31	Priya Sharma



BUREAU
VERITAS

BV Labs Job #: COL4652
Report Date: 2020/09/03

ALS Laboratory Group
Your P.O. #: L2488710

GENERAL COMMENTS

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
6907587	SHC	Spiked Blank	Radium-226	2020/08/31		94	%	85 - 115
6907587	SHC	Method Blank	Radium-226	2020/08/31	<0.010		Bq/L	
6907587	SHC	RPD	Radium-226	2020/08/31	NC		%	N/A

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BUREAU
VERITAS


BV Labs Job #: COL4652
Report Date: 2020/09/03

ALS Laboratory Group
Your P.O. #: L2488710

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

<original signed by>


Kurt Headrick, Ph.D., C. Chem., Laboratory Manager

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Chain of Custody (COC) Analytical Request Form

Canada Toll Free: 1 800 668 9878



L2488710-COFC

SD : Number: 14 -

here (lab use only)

Page ____ of ____

Report To		Report Format / Distribution		Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)																																																																
Company:	New Gold Inc. Rainy River Project	Report Format:	<input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel <input checked="" type="checkbox"/> EDD (Digital)	R <input checked="" type="checkbox"/> Regular (Standard TAT if received by 3pm - business days)																																																																
Contact:	Amanda Jacobs / Carolyn Winik	Quality Control (QC) Report with Report	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	P <input type="checkbox"/> Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT																																																																
Address:	24 Marr Rd.	<input type="checkbox"/> Criteria on Report - provide details below if box checked		E <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT																																																																
City/Province:	Barwick ON	Select Distribution:	<input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail <input type="checkbox"/> Fax	E2 <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT																																																																
Postal Code:	P0W 1A0	Email 1 or Fax: rainyriver.labresults@newgold.com		Date and Time Required for all E&P TATs:																																																																
Phone:	807-482-0900 x8076 or x8046			For tests that can not be performed according to the service level selected, you will be contacted.																																																																
		Email 2	yag.inviron@newgold.com	Analysis Request																																																																
Invoice To	Same as Report ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Invoice Distribution		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below																																																																
Copy of Invoice with Report? <input type="checkbox"/> Yes <input type="checkbox"/> No		Select Invoice Distribution: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail <input type="checkbox"/> Fax																																																																		
Company:	Email 1 or Fax: rainyriver.labresults@newgold.com			<table border="1" style="width: 100%; height: 100%;"> <tr> <td style="text-align: center;"> NG-SW-P-TB Ra-226 </td> <td colspan="4"></td> <td style="text-align: center;"> Number of Containers </td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>					NG-SW-P-TB Ra-226					Number of Containers																																																						
NG-SW-P-TB Ra-226									Number of Containers																																																											
Contact:	Email 2:																																																																			
Project Information		Oil and Gas Required Fields (client use)																																																																		
ALS Quote #:	Approver ID:		Cost Center:																																																																	
Job #:	Surface Water	GL Account:	Routing Code:																																																																	
PO / AFE:	4500018623	Activity Code:																																																																		
LSD:	Location:																																																																			
ALS Lab Work Order # L24188710 (lab use only)		ALS Contact:		Sampler:																																																																
Sample Ref (upload EDD)	Sample Identification and/or Coordinates (Description will appear on the report)	Temp	Field pH	Field DO (mg/L)	Date (dd-MMM-yy)	Time (hh:mm)	Sample Type																																																													
130266	SW03	16.3	7.36	8.5	11-Aug-20	08:20	Water																																																													
130267	SW23	16.94	7.56	0	11-Aug-20	10:00	Water																																																													
130268	SW24	17.59	7.45	1.01	11-Aug-20	10:20	Water																																																													
130269	SW15	20.93	7.82	5.78	11-Aug-20	11:35	Water																																																													

EA

SD



L2488710-COFC

130270	SW17	22.69	8.8	10.65	11-Aug-20	12:05	Water	✓											
130271	SW16	21.32	7.77	9.37	11-Aug-20	01:30	Water	✓											
130272	SW20	17.26	7.14	0	11-Aug-20	02:55	Water	✓	✓										
130273	SW06	17.26	7.14	0	11-Aug-20	12:00	Water	✓	✓										
130274	SW10	17.18	7.51	0	12-Aug-20	08:40	Water	✓											
130275	SW02	15.63	7.11	2.37	12-Aug-20	09:20	Water	✓											
130276	SW26	18.88	8.39	3.67	12-Aug-20	10:00	Water	✓											
130277	SW21A	17.39	7.29	0	11-Aug-20	09:45	Water	✓											
130278	SW22A	16.87	7.37	0.37	11-Aug-20	09:00	Water	✓	✓										
130279	SW27	14.12	7.18	0	11-Aug-20	10:15	Water	✓											
130285	Travel Blank - Surface Water				11-Aug-20	12:00	Water	✓											
130286	Field Blank - Surface Water				11-Aug-20	12:00	Water	✓											

Drinking Water (DW) Samples' (client use) Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are samples for human drinking water use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Special Instructions / Specify Criteria to add on report (client Use) MISA [Template NGSWMISA]		SAMPLE CONDITION AS RECEIVED (lab use only) Frozen <input type="checkbox"/> SIF Observations <input type="checkbox"/> Yes <input type="checkbox"/> No Ice packs <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody seal intact <input type="checkbox"/> Yes <input type="checkbox"/> No Cooling Initiated <input checked="" type="checkbox"/>				
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)		FINAL SHIPMENT RECEPTION (lab use only)				
Released by:	Date: 2020-08-13	Time: 8:00am	Received by: <i>WJ</i>	Date: 2020-08-14	Time: 1025am	Received by:	Date:	Time:
				INITIAL COOLER TEMPERATURES °C: 15.3 FINAL COOLER TEMPERATURES °C:				

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION WHITE - LABORATORY COPY YELLOW - CLIENT COPY NA-FM-0326e v09 Front/04 January 2014

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Client: New Gold



Sample Layout Verification:

Verified By <u>WJ</u>	Date <u>2020 08 14</u>	Time <u>NA</u>
--------------------------	-------------------------------	-------------------


Labels Verification:

Verified By <u>SD</u>	Do any samples require prep? NO P <u>(F/P) DOC</u>
--------------------------	---

		Sample #:											
1L	Plastic												
500mL	Plastic												
250mL	Plastic												
145mL	Plastic												
60mL	Plastic												
Micro													
Toxicity Pail													
1L	Glass												
500mL	Glass												
250mL	Glass												
120mL	Glass												
60mL	Glass												
40mL	Vial (Glass)												
40mL	Methanol Vials												
Soil Jar (120, 250 or 500mL)													
Other:													
Other:													
Total Number of Bottles													

Trip/Travel/Field Blank Information			
Solids Batch#: <u>446</u>	Metals Batch#:	T:	D:
Routine Batch#: <u>446</u>	Mercury Batch#:	T:	D:
BOD Batch#: <u>445</u>	Cyanide Batch#:	T:	D:
Nutrients Batch#:	OGG Batch#:		
DOC/Carbon Batch#:	Phenols Batch#:		
VOC Batch#:			
Other:			

COOLER TRACKING	
EPP	Coleman
Small	Micro (5QT) _____
Med	Sm(9QT) _____
Lrg	Med(16QT) _____
Micro Box	Lrg(28QT) _____
	Lrg(48QT) _____



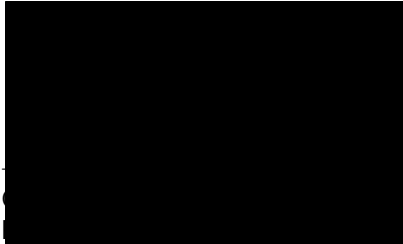
New Gold Inc. Rainy River Project
ATTN: Amanda Jacobs
24 Marr Rd
Barwick ON POW 1A0

Date Received: 18-SEP-20
Report Date: 16-OCT-20 20:14 (MT)
Version: FINAL

Client Phone: 807-482-0931

Certificate of Analysis

Lab Work Order #: L2504998
Project P.O. #: 4500038941
Job Reference: SURFACE WATER
C of C Numbers:
Legal Site Desc:



[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3, Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598



ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-1 SW03							
Sampled By: SF on 15-SEP-20 @ 14:20							
Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	0		0	mg/L		21-SEP-20	R5231712
pH, Client Supplied	6.75		0.10	pH		21-SEP-20	R5231712
Temperature, Client Supplied	12.61		0	Degree C		21-SEP-20	R5231712
Physical Tests							
Color, True	163		2.0	CU		19-SEP-20	R5230893
Conductivity (EC)	367		1.0	uS/cm		18-SEP-20	R5230813
Hardness (as CaCO3)	194		0.51	mg/L		24-SEP-20	
pH	8.03		0.10	pH		18-SEP-20	R5230813
Total Suspended Solids	0.5	<DL	3.0	mg/L		20-SEP-20	R5231939
Total Dissolved Solids	300		20	mg/L		20-SEP-20	R5231948
Turbidity	3.62		0.10	NTU		18-SEP-20	R5230797
Anions and Nutrients							
Acidity (as CaCO3)	0.4	<DL	2.0	mg/L		19-SEP-20	R5231130
Alkalinity, Total (as CaCO3)	201		2.0	mg/L		18-SEP-20	R5230813
Ammonia, Total (as N)	0.010	<T	0.0050	mg/L		24-SEP-20	R5236079
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		25-SEP-20	
Chloride (Cl)	6.12		0.10	mg/L	18-SEP-20	19-SEP-20	R5231080
Fluoride (F)	0.037		0.020	mg/L	18-SEP-20	19-SEP-20	R5231080
Nitrate (as N)	0.008	<DL	0.020	mg/L		19-SEP-20	R5231080
Nitrite (as N)	<0.001	<W	0.010	mg/L		19-SEP-20	R5231080
Total Kjeldahl Nitrogen	0.974		0.050	mg/L	18-SEP-20	22-SEP-20	R5232813
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	18-SEP-20	19-SEP-20	R5230997
Sulfate (SO4)	17.9		0.30	mg/L		19-SEP-20	R5231080
Cyanides							
Cyanide, Weak Acid Diss	0.0006	<DL	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Total	0.0008	<DL	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Free	0.0003	<DL	0.0020	mg/L		22-SEP-20	R5232783
Organic / Inorganic Carbon							
Dissolved Organic Carbon	35.2	DLM	5.0	mg/L	18-SEP-20	30-SEP-20	R5243384
Total Organic Carbon	50.9	DLM	5.0	mg/L		01-OCT-20	R5244055
Total Metals							
Aluminum (Al)-Total	0.153		0.0050	mg/L		22-SEP-20	R5232889
Antimony (Sb)-Total	0.000060	<DL	0.00060	mg/L		22-SEP-20	R5232889
Arsenic (As)-Total	0.00154	<T	0.0010	mg/L		22-SEP-20	R5232889
Barium (Ba)-Total	0.0393		0.010	mg/L		22-SEP-20	R5232889
Beryllium (Be)-Total	0.0000073	<DL	0.0010	mg/L		22-SEP-20	R5232889
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		22-SEP-20	R5232889
Boron (B)-Total	0.0185	<DL	0.050	mg/L		22-SEP-20	R5232889
Cadmium (Cd)-Total	0.000010	<DL	0.000017	mg/L		22-SEP-20	R5232889
Calcium (Ca)-Total	55.2		0.20	mg/L		22-SEP-20	R5232889
Cesium (Cs)-Total	0.0000320		0.000010	mg/L		22-SEP-20	R5232889
Chromium (Cr)-Total	0.00048	<DL	0.0010	mg/L		22-SEP-20	R5232889

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-1 SW03							
Sampled By: SF on 15-SEP-20 @ 14:20							
Matrix: Water							
Total Metals							
Cobalt (Co)-Total	0.000200	<DL	0.00050	mg/L		22-SEP-20	R5232889
Copper (Cu)-Total	0.00900	<T	0.0010	mg/L		22-SEP-20	R5232889
Iron (Fe)-Total	0.299		0.020	mg/L		22-SEP-20	R5232889
Lead (Pb)-Total	0.00008	<T	0.000050	mg/L		22-SEP-20	R5232889
Lithium (Li)-Total	0.0046	<DL	0.050	mg/L		22-SEP-20	R5232889
Magnesium (Mg)-Total	12.2		0.020	mg/L		22-SEP-20	R5232889
Manganese (Mn)-Total	0.0236		0.0010	mg/L		22-SEP-20	R5232889
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5232985
Molybdenum (Mo)-Total	0.000330	<DL	0.0010	mg/L		22-SEP-20	R5232889
Nickel (Ni)-Total	0.00484	<T	0.0020	mg/L		22-SEP-20	R5232889
Phosphorus (P)-Total	0.010	<DL	0.050	mg/L		22-SEP-20	R5232889
Potassium (K)-Total	2.22		0.50	mg/L		22-SEP-20	R5232889
Rubidium (Rb)-Total	0.00658		0.00020	mg/L		22-SEP-20	R5232889
Selenium (Se)-Total	0.000250	<T	0.000050	mg/L		22-SEP-20	R5232889
Silicon (Si)-Total	4.66		0.10	mg/L		22-SEP-20	R5232889
Silver (Ag)-Total	0.000004	<DL	0.00010	mg/L		22-SEP-20	R5232889
Sodium (Na)-Total	3.68		0.10	mg/L		22-SEP-20	R5232889
Strontium (Sr)-Total	0.0811		0.0010	mg/L		22-SEP-20	R5232889
Sulfur (S)-Total	6.0		0.50	mg/L		22-SEP-20	R5232889
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		22-SEP-20	R5232889
Thallium (Tl)-Total	0.000005	<DL	0.00030	mg/L		22-SEP-20	R5232889
Thorium (Th)-Total	0.00003	<DL	0.00010	mg/L		22-SEP-20	R5232889
Tin (Sn)-Total	0.00004	<DL	0.0010	mg/L		22-SEP-20	R5232889
Titanium (Ti)-Total	0.00464		0.0020	mg/L		22-SEP-20	R5232889
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		22-SEP-20	R5232889
Uranium (U)-Total	0.000488	<DL	0.0050	mg/L		22-SEP-20	R5232889
Vanadium (V)-Total	0.00105	<T	0.0010	mg/L		22-SEP-20	R5232889
Zinc (Zn)-Total	0.0015	<DL	0.0030	mg/L		22-SEP-20	R5232889
Zirconium (Zr)-Total	0.000352	<DL	0.0010	mg/L		22-SEP-20	R5232889
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-SEP-20	R5232822
Aluminum (Al)-Dissolved	0.0534		0.0050	mg/L		23-SEP-20	R5234336
Antimony (Sb)-Dissolved	0.000055	<DL	0.00060	mg/L		23-SEP-20	R5234336
Arsenic (As)-Dissolved	0.00157	<T	0.0010	mg/L		23-SEP-20	R5234336
Barium (Ba)-Dissolved	0.0378		0.010	mg/L		23-SEP-20	R5234336
Beryllium (Be)-Dissolved	0.000010	<DL	0.0010	mg/L		23-SEP-20	R5234336
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		23-SEP-20	R5234336
Boron (B)-Dissolved	0.0180	<DL	0.050	mg/L		23-SEP-20	R5234336
Cadmium (Cd)-Dissolved	0.0000095	<DL	0.000017	mg/L		23-SEP-20	R5234336
Calcium (Ca)-Dissolved	56.5		0.20	mg/L		23-SEP-20	R5234336
Cesium (Cs)-Dissolved	0.0000100		0.000010	mg/L		23-SEP-20	R5234336

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-1 SW03 Sampled By: SF on 15-SEP-20 @ 14:20 Matrix: Water							
Dissolved Metals							
Chromium (Cr)-Dissolved	0.00020	<DL	0.0010	mg/L		23-SEP-20	R5234336
Cobalt (Co)-Dissolved	0.000140	<DL	0.00050	mg/L		23-SEP-20	R5234336
Copper (Cu)-Dissolved	0.00886	<T	0.0010	mg/L		23-SEP-20	R5234336
Iron (Fe)-Dissolved	0.215		0.020	mg/L		23-SEP-20	R5234336
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		23-SEP-20	R5234336
Lithium (Li)-Dissolved	0.0038	<DL	0.050	mg/L		23-SEP-20	R5234336
Magnesium (Mg)-Dissolved	12.8		0.020	mg/L		23-SEP-20	R5234336
Manganese (Mn)-Dissolved	0.0205		0.0010	mg/L		23-SEP-20	R5234336
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5232984
Molybdenum (Mo)-Dissolved	0.000324	<DL	0.0010	mg/L		23-SEP-20	R5234336
Nickel (Ni)-Dissolved	0.00492	<T	0.0020	mg/L		23-SEP-20	R5234336
Phosphorus (P)-Dissolved	0.015	<DL	0.050	mg/L		23-SEP-20	R5234336
Potassium (K)-Dissolved	2.16		0.50	mg/L		23-SEP-20	R5234336
Rubidium (Rb)-Dissolved	0.00679		0.00020	mg/L		23-SEP-20	R5234336
Selenium (Se)-Dissolved	0.000260	<T	0.000050	mg/L		23-SEP-20	R5234336
Silicon (Si)-Dissolved	4.86		0.050	mg/L		23-SEP-20	R5234336
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		23-SEP-20	R5234336
Sodium (Na)-Dissolved	3.60		0.10	mg/L		23-SEP-20	R5234336
Strontium (Sr)-Dissolved	0.0831		0.0010	mg/L		23-SEP-20	R5234336
Sulfur (S)-Dissolved	6.2		0.50	mg/L		23-SEP-20	R5234336
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		23-SEP-20	R5234336
Thallium (Tl)-Dissolved	0.000004	<DL	0.00030	mg/L		23-SEP-20	R5234336
Thorium (Th)-Dissolved	0.00003	<DL	0.00010	mg/L		23-SEP-20	R5234336
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		23-SEP-20	R5234336
Titanium (Ti)-Dissolved	0.00242		0.0020	mg/L		23-SEP-20	R5234336
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		23-SEP-20	R5234336
Uranium (U)-Dissolved	0.000485	<DL	0.0050	mg/L		23-SEP-20	R5234336
Vanadium (V)-Dissolved	0.00084	<DL	0.0010	mg/L		23-SEP-20	R5234336
Zinc (Zn)-Dissolved	0.0048	<T	0.0030	mg/L		23-SEP-20	R5234336
Zirconium (Zr)-Dissolved	0.000366	<DL	0.0010	mg/L		23-SEP-20	R5234336
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-SEP-20	R5234896
Chemical Oxygen Demand	99		20	mg/L	18-SEP-20	24-SEP-20	R5235139
Oil and Grease, Total	2.6		1.0	mg/L	22-SEP-20	23-SEP-20	R5232627
L2504998-2 SW25 Sampled By: SF on 15-SEP-20 @ 09:25 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	4.8		0	mg/L		21-SEP-20	R5231712
pH, Client Supplied	7.52		0.10	pH		21-SEP-20	R5231712
Temperature, Client Supplied	14.09		0	Degree C		21-SEP-20	R5231712
Physical Tests							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-2 SW25							
Sampled By: SF on 15-SEP-20 @ 09:25							
Matrix: Water							
Physical Tests							
Color, True	29.7		2.0	CU		18-SEP-20	R5230476
Conductivity (EC)	709		1.0	uS/cm		18-SEP-20	R5230813
Hardness (as CaCO3)	302		0.51	mg/L		24-SEP-20	
pH	8.17		0.10	pH		18-SEP-20	R5230813
Total Suspended Solids	3.0		3.0	mg/L		20-SEP-20	R5231285
Total Dissolved Solids	512		20	mg/L		20-SEP-20	R5231325
Turbidity	2.33		0.10	NTU		19-SEP-20	R5231036
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		19-SEP-20	R5231130
Alkalinity, Total (as CaCO3)	141		2.0	mg/L		18-SEP-20	R5230813
Ammonia, Total (as N)	0.006	<T	0.0050	mg/L		24-SEP-20	R5236079
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		25-SEP-20	
Chloride (Cl)	109		0.10	mg/L	18-SEP-20	19-SEP-20	R5231080
Fluoride (F)	0.077		0.020	mg/L	18-SEP-20	19-SEP-20	R5231080
Nitrate (as N)	0.012	<DL	0.020	mg/L		19-SEP-20	R5231080
Nitrite (as N)	0.007	<DL	0.010	mg/L		19-SEP-20	R5231080
Total Kjeldahl Nitrogen	0.787		0.050	mg/L	18-SEP-20	22-SEP-20	R5232813
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	18-SEP-20	21-SEP-20	R5231640
Sulfate (SO4)	57.0		0.30	mg/L		19-SEP-20	R5231080
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Total	0.0004	<DL	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Free	0.0002	<DL	0.0020	mg/L		22-SEP-20	R5232783
Organic / Inorganic Carbon							
Dissolved Organic Carbon	11.0	DLM	5.0	mg/L	18-SEP-20	30-SEP-20	R5243384
Total Organic Carbon	20.0	DLM	5.0	mg/L		01-OCT-20	R5244055
Total Metals							
Aluminum (Al)-Total	0.0384		0.0050	mg/L		22-SEP-20	R5232889
Antimony (Sb)-Total	0.000090	<DL	0.00060	mg/L		22-SEP-20	R5232889
Arsenic (As)-Total	0.00086	<DL	0.0010	mg/L		22-SEP-20	R5232889
Barium (Ba)-Total	0.0451		0.010	mg/L		22-SEP-20	R5232889
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		22-SEP-20	R5232889
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		22-SEP-20	R5232889
Boron (B)-Total	0.0380	<DL	0.050	mg/L		22-SEP-20	R5232889
Cadmium (Cd)-Total	0.000003	<DL	0.000017	mg/L		22-SEP-20	R5232889
Calcium (Ca)-Total	71.3		0.20	mg/L		22-SEP-20	R5232889
Cesium (Cs)-Total	0.0000050	<DL	0.000010	mg/L		22-SEP-20	R5232889
Chromium (Cr)-Total	0.00022	<DL	0.0010	mg/L		22-SEP-20	R5232889
Cobalt (Co)-Total	0.000110	<DL	0.00050	mg/L		22-SEP-20	R5232889
Copper (Cu)-Total	0.00144	<T	0.0010	mg/L		22-SEP-20	R5232889
Iron (Fe)-Total	0.0575		0.020	mg/L		22-SEP-20	R5232889
Lead (Pb)-Total	0.00003	<DL	0.000050	mg/L		22-SEP-20	R5232889

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-2 SW25							
Sampled By: SF on 15-SEP-20 @ 09:25							
Matrix: Water							
Total Metals							
Lithium (Li)-Total	0.0288	<DL	0.050	mg/L		22-SEP-20	R5232889
Magnesium (Mg)-Total	26.0		0.020	mg/L		22-SEP-20	R5232889
Manganese (Mn)-Total	0.0346		0.0010	mg/L		22-SEP-20	R5232889
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5232985
Molybdenum (Mo)-Total	0.00122	<T	0.0010	mg/L		22-SEP-20	R5232889
Nickel (Ni)-Total	0.00116	<DL	0.0020	mg/L		22-SEP-20	R5232889
Phosphorus (P)-Total	0.015	<DL	0.050	mg/L		22-SEP-20	R5232889
Potassium (K)-Total	3.90		0.50	mg/L		22-SEP-20	R5232889
Rubidium (Rb)-Total	0.00187		0.00020	mg/L		22-SEP-20	R5232889
Selenium (Se)-Total	0.000150	<T	0.000050	mg/L		22-SEP-20	R5232889
Silicon (Si)-Total	0.502		0.10	mg/L		22-SEP-20	R5232889
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		22-SEP-20	R5232889
Sodium (Na)-Total	14.0		0.10	mg/L		22-SEP-20	R5232889
Strontium (Sr)-Total	0.448		0.0010	mg/L		22-SEP-20	R5232889
Sulfur (S)-Total	19.4		0.50	mg/L		22-SEP-20	R5232889
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		22-SEP-20	R5232889
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		22-SEP-20	R5232889
Thorium (Th)-Total	<0.00001	<W	0.00010	mg/L		22-SEP-20	R5232889
Tin (Sn)-Total	0.00005	<DL	0.0010	mg/L		22-SEP-20	R5232889
Titanium (Ti)-Total	0.00128	<DL	0.0020	mg/L		22-SEP-20	R5232889
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		22-SEP-20	R5232889
Uranium (U)-Total	0.00247	<DL	0.0050	mg/L		22-SEP-20	R5232889
Vanadium (V)-Total	0.00055	<DL	0.0010	mg/L		22-SEP-20	R5232889
Zinc (Zn)-Total	<0.0005	<W	0.0030	mg/L		22-SEP-20	R5232889
Zirconium (Zr)-Total	0.000114	<DL	0.0010	mg/L		22-SEP-20	R5232889
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-SEP-20	R5232822
Aluminum (Al)-Dissolved	0.0058	<T	0.0050	mg/L		23-SEP-20	R5234336
Antimony (Sb)-Dissolved	0.000080	<DL	0.00060	mg/L		23-SEP-20	R5234336
Arsenic (As)-Dissolved	0.000880	<DL	0.0010	mg/L		23-SEP-20	R5234336
Barium (Ba)-Dissolved	0.0427		0.010	mg/L		23-SEP-20	R5234336
Beryllium (Be)-Dissolved	0.000004	<DL	0.0010	mg/L		23-SEP-20	R5234336
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		23-SEP-20	R5234336
Boron (B)-Dissolved	0.0355	<DL	0.050	mg/L		23-SEP-20	R5234336
Cadmium (Cd)-Dissolved	0.0000020	<DL	0.000017	mg/L		23-SEP-20	R5234336
Calcium (Ca)-Dissolved	76.2		0.20	mg/L		23-SEP-20	R5234336
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		23-SEP-20	R5234336
Chromium (Cr)-Dissolved	0.00008	<DL	0.0010	mg/L		23-SEP-20	R5234336
Cobalt (Co)-Dissolved	0.000098	<DL	0.00050	mg/L		23-SEP-20	R5234336
Copper (Cu)-Dissolved	0.00132	<T	0.0010	mg/L		23-SEP-20	R5234336
Iron (Fe)-Dissolved	0.0105	<DL	0.020	mg/L		23-SEP-20	R5234336

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-2 SW25 Sampled By: SF on 15-SEP-20 @ 09:25 Matrix: Water							
Dissolved Metals							
Lead (Pb)-Dissolved	<0.00001	<W	0.000050	mg/L		23-SEP-20	R5234336
Lithium (Li)-Dissolved	0.0278	<DL	0.050	mg/L		23-SEP-20	R5234336
Magnesium (Mg)-Dissolved	27.1		0.020	mg/L		23-SEP-20	R5234336
Manganese (Mn)-Dissolved	0.0189		0.0010	mg/L		23-SEP-20	R5234336
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5232984
Molybdenum (Mo)-Dissolved	0.00131	<T	0.0010	mg/L		23-SEP-20	R5234336
Nickel (Ni)-Dissolved	0.00114	<DL	0.0020	mg/L		23-SEP-20	R5234336
Phosphorus (P)-Dissolved	0.015	<DL	0.050	mg/L		23-SEP-20	R5234336
Potassium (K)-Dissolved	3.85		0.50	mg/L		23-SEP-20	R5234336
Rubidium (Rb)-Dissolved	0.00189		0.00020	mg/L		23-SEP-20	R5234336
Selenium (Se)-Dissolved	0.000150	<T	0.000050	mg/L		23-SEP-20	R5234336
Silicon (Si)-Dissolved	0.470		0.050	mg/L		23-SEP-20	R5234336
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		23-SEP-20	R5234336
Sodium (Na)-Dissolved	14.0		0.10	mg/L		23-SEP-20	R5234336
Strontium (Sr)-Dissolved	0.474		0.0010	mg/L		23-SEP-20	R5234336
Sulfur (S)-Dissolved	19.8		0.50	mg/L		23-SEP-20	R5234336
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		23-SEP-20	R5234336
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		23-SEP-20	R5234336
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		23-SEP-20	R5234336
Tin (Sn)-Dissolved	0.000015	<DL	0.0010	mg/L		23-SEP-20	R5234336
Titanium (Ti)-Dissolved	0.00050	<DL	0.0020	mg/L		23-SEP-20	R5234336
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		23-SEP-20	R5234336
Uranium (U)-Dissolved	0.00249	<DL	0.0050	mg/L		23-SEP-20	R5234336
Vanadium (V)-Dissolved	0.00048	<DL	0.0010	mg/L		23-SEP-20	R5234336
Zinc (Zn)-Dissolved	0.0014	<DL	0.0030	mg/L		23-SEP-20	R5234336
Zirconium (Zr)-Dissolved	0.000134	<DL	0.0010	mg/L		23-SEP-20	R5234336
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		18-SEP-20	R5232781
Chemical Oxygen Demand	40		20	mg/L	18-SEP-20	24-SEP-20	R5235139
Oil and Grease, Total	1.4		1.0	mg/L	22-SEP-20	23-SEP-20	R5232627
L2504998-3 SW26 Sampled By: SF on 15-SEP-20 @ 09:55 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	5.05		0	mg/L		21-SEP-20	R5231712
pH, Client Supplied	7.8		0.10	pH		21-SEP-20	R5231712
Temperature, Client Supplied	13.56		0	Degree C		21-SEP-20	R5231712
Physical Tests							
Color, True	18.1		2.0	CU		18-SEP-20	R5230476
Conductivity (EC)	794		1.0	uS/cm		18-SEP-20	R5230813
Hardness (as CaCO3)	393		0.51	mg/L		24-SEP-20	
pH	8.32		0.10	pH		18-SEP-20	R5230813

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-3 SW26							
Sampled By: SF on 15-SEP-20 @ 09:55							
Matrix: Water							
Physical Tests							
Total Suspended Solids	11.5		3.0	mg/L		20-SEP-20	R5231285
Total Dissolved Solids	504		20	mg/L		20-SEP-20	R5231325
Turbidity	10.2		0.10	NTU		19-SEP-20	R5231036
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		19-SEP-20	R5231130
Alkalinity, Total (as CaCO3)	314		2.0	mg/L		18-SEP-20	R5230813
Ammonia, Total (as N)	0.006	<T	0.0050	mg/L		24-SEP-20	R5236079
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		25-SEP-20	
Chloride (Cl)	50.7		0.10	mg/L	18-SEP-20	19-SEP-20	R5231080
Fluoride (F)	0.111		0.020	mg/L	18-SEP-20	19-SEP-20	R5231080
Nitrate (as N)	0.004	<DL	0.020	mg/L		19-SEP-20	R5231080
Nitrite (as N)	<0.001	<W	0.010	mg/L		19-SEP-20	R5231080
Total Kjeldahl Nitrogen	0.585		0.050	mg/L	18-SEP-20	22-SEP-20	R5232813
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	18-SEP-20	21-SEP-20	R5231640
Sulfate (SO4)	81.4		0.30	mg/L		19-SEP-20	R5231080
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Total	<0.0002	<W	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Free	<0.0001	<W	0.0020	mg/L		22-SEP-20	R5232783
Organic / Inorganic Carbon							
Dissolved Organic Carbon	7.6	DLM	5.0	mg/L	18-SEP-20	30-SEP-20	R5243384
Total Organic Carbon	14.8	DLM	5.0	mg/L		01-OCT-20	R5244055
Total Metals							
Aluminum (Al)-Total	0.262		0.0050	mg/L		22-SEP-20	R5232889
Antimony (Sb)-Total	0.000110	<DL	0.00060	mg/L		22-SEP-20	R5232889
Arsenic (As)-Total	0.00122	<T	0.0010	mg/L		22-SEP-20	R5232889
Barium (Ba)-Total	0.0432		0.010	mg/L		22-SEP-20	R5232889
Beryllium (Be)-Total	0.0000049	<DL	0.0010	mg/L		22-SEP-20	R5232889
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		22-SEP-20	R5232889
Boron (B)-Total	0.0565		0.050	mg/L		22-SEP-20	R5232889
Cadmium (Cd)-Total	0.000005	<DL	0.000017	mg/L		22-SEP-20	R5232889
Calcium (Ca)-Total	85.9		0.20	mg/L		22-SEP-20	R5232889
Cesium (Cs)-Total	0.0000350		0.000010	mg/L		22-SEP-20	R5232889
Chromium (Cr)-Total	0.00058	<DL	0.0010	mg/L		22-SEP-20	R5232889
Cobalt (Co)-Total	0.000305	<DL	0.00050	mg/L		22-SEP-20	R5232889
Copper (Cu)-Total	0.00120	<T	0.0010	mg/L		22-SEP-20	R5232889
Iron (Fe)-Total	0.458		0.020	mg/L		22-SEP-20	R5232889
Lead (Pb)-Total	0.00022	<T	0.000050	mg/L		22-SEP-20	R5232889
Lithium (Li)-Total	0.0250	<DL	0.050	mg/L		22-SEP-20	R5232889
Magnesium (Mg)-Total	39.2		0.020	mg/L		22-SEP-20	R5232889
Manganese (Mn)-Total	0.134		0.0010	mg/L		22-SEP-20	R5232889
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		23-SEP-20	R5232985

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-3 SW26							
Sampled By: SF on 15-SEP-20 @ 09:55							
Matrix: Water							
Total Metals							
Molybdenum (Mo)-Total	0.00176	<T	0.0010	mg/L		22-SEP-20	R5232889
Nickel (Ni)-Total	0.00136	<DL	0.0020	mg/L		22-SEP-20	R5232889
Phosphorus (P)-Total	0.015	<DL	0.050	mg/L		22-SEP-20	R5232889
Potassium (K)-Total	4.81		0.50	mg/L		22-SEP-20	R5232889
Rubidium (Rb)-Total	0.00248		0.00020	mg/L		22-SEP-20	R5232889
Selenium (Se)-Total	0.000100	<T	0.000050	mg/L		22-SEP-20	R5232889
Silicon (Si)-Total	3.34		0.10	mg/L		22-SEP-20	R5232889
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		22-SEP-20	R5232889
Sodium (Na)-Total	12.4		0.10	mg/L		22-SEP-20	R5232889
Strontium (Sr)-Total	0.309		0.0010	mg/L		22-SEP-20	R5232889
Sulfur (S)-Total	27.8		0.50	mg/L		22-SEP-20	R5232889
Tellurium (Te)-Total	0.00004	<DL	0.0010	mg/L		22-SEP-20	R5232889
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		22-SEP-20	R5232889
Thorium (Th)-Total	0.00004	<DL	0.00010	mg/L		22-SEP-20	R5232889
Tin (Sn)-Total	0.00003	<DL	0.0010	mg/L		22-SEP-20	R5232889
Titanium (Ti)-Total	0.00805		0.0020	mg/L		22-SEP-20	R5232889
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		22-SEP-20	R5232889
Uranium (U)-Total	0.00286	<DL	0.0050	mg/L		22-SEP-20	R5232889
Vanadium (V)-Total	0.00145	<T	0.0010	mg/L		22-SEP-20	R5232889
Zinc (Zn)-Total	0.0015	<DL	0.0030	mg/L		22-SEP-20	R5232889
Zirconium (Zr)-Total	0.000268	<DL	0.0010	mg/L		22-SEP-20	R5232889
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-SEP-20	R5232822
Aluminum (Al)-Dissolved	0.0110	<T	0.0050	mg/L		23-SEP-20	R5234336
Antimony (Sb)-Dissolved	0.000105	<DL	0.00060	mg/L		23-SEP-20	R5234336
Arsenic (As)-Dissolved	0.00107	<T	0.0010	mg/L		23-SEP-20	R5234336
Barium (Ba)-Dissolved	0.0407		0.010	mg/L		23-SEP-20	R5234336
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		23-SEP-20	R5234336
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		23-SEP-20	R5234336
Boron (B)-Dissolved	0.0515		0.050	mg/L		23-SEP-20	R5234336
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		23-SEP-20	R5234336
Calcium (Ca)-Dissolved	89.3		0.20	mg/L		23-SEP-20	R5234336
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		23-SEP-20	R5234336
Chromium (Cr)-Dissolved	0.00006	<DL	0.0010	mg/L		23-SEP-20	R5234336
Cobalt (Co)-Dissolved	0.000174	<DL	0.00050	mg/L		23-SEP-20	R5234336
Copper (Cu)-Dissolved	0.00078	<DL	0.0010	mg/L		23-SEP-20	R5234336
Iron (Fe)-Dissolved	0.0565		0.020	mg/L		23-SEP-20	R5234336
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		23-SEP-20	R5234336
Lithium (Li)-Dissolved	0.0230	<DL	0.050	mg/L		23-SEP-20	R5234336
Magnesium (Mg)-Dissolved	41.3		0.020	mg/L		23-SEP-20	R5234336
Manganese (Mn)-Dissolved	0.102		0.0010	mg/L		23-SEP-20	R5234336

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-3 SW26 Sampled By: SF on 15-SEP-20 @ 09:55 Matrix: Water							
Dissolved Metals							
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5232984
Molybdenum (Mo)-Dissolved	0.00186	<T	0.0010	mg/L		23-SEP-20	R5234336
Nickel (Ni)-Dissolved	0.00100	<DL	0.0020	mg/L		23-SEP-20	R5234336
Phosphorus (P)-Dissolved	0.010	<DL	0.050	mg/L		23-SEP-20	R5234336
Potassium (K)-Dissolved	4.68		0.50	mg/L		23-SEP-20	R5234336
Rubidium (Rb)-Dissolved	0.00217		0.00020	mg/L		23-SEP-20	R5234336
Selenium (Se)-Dissolved	0.000135	<T	0.000050	mg/L		23-SEP-20	R5234336
Silicon (Si)-Dissolved	2.95		0.050	mg/L		23-SEP-20	R5234336
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		23-SEP-20	R5234336
Sodium (Na)-Dissolved	12.3		0.10	mg/L		23-SEP-20	R5234336
Strontium (Sr)-Dissolved	0.326		0.0010	mg/L		23-SEP-20	R5234336
Sulfur (S)-Dissolved	27.2		0.50	mg/L		23-SEP-20	R5234336
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		23-SEP-20	R5234336
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		23-SEP-20	R5234336
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		23-SEP-20	R5234336
Tin (Sn)-Dissolved	0.000015	<DL	0.0010	mg/L		23-SEP-20	R5234336
Titanium (Ti)-Dissolved	0.00068	<DL	0.0020	mg/L		23-SEP-20	R5234336
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		23-SEP-20	R5234336
Uranium (U)-Dissolved	0.00272	<DL	0.0050	mg/L		23-SEP-20	R5234336
Vanadium (V)-Dissolved	0.00074	<DL	0.0010	mg/L		23-SEP-20	R5234336
Zinc (Zn)-Dissolved	0.0028	<DL	0.0030	mg/L		23-SEP-20	R5234336
Zirconium (Zr)-Dissolved	0.000170	<DL	0.0010	mg/L		23-SEP-20	R5234336
Aggregate Organics							
Biochemical Oxygen Demand	2.4		2.0	mg/L		18-SEP-20	R5232781
Chemical Oxygen Demand	34		20	mg/L	18-SEP-20	24-SEP-20	R5235139
Oil and Grease, Total	1.2		1.0	mg/L	22-SEP-20	23-SEP-20	R5232627
L2504998-4 SW15 Sampled By: SF on 15-SEP-20 @ 11:50 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	0		0	mg/L		21-SEP-20	R5231712
pH, Client Supplied	6.76		0.10	pH		21-SEP-20	R5231712
Temperature, Client Supplied	15.48		0	Degree C		21-SEP-20	R5231712
Physical Tests							
Color, True	318		2.0	CU		19-SEP-20	R5230893
Conductivity (EC)	188		1.0	uS/cm		18-SEP-20	R5230813
Hardness (as CaCO3)	103		0.51	mg/L		24-SEP-20	
pH	7.87		0.10	pH		18-SEP-20	R5230813
Total Suspended Solids	6.0		3.0	mg/L		20-SEP-20	R5231939
Total Dissolved Solids	194		13	mg/L		20-SEP-20	R5231948
Turbidity	24.8		0.10	NTU		18-SEP-20	R5230797
Anions and Nutrients							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-4 SW15							
Sampled By: SF on 15-SEP-20 @ 11:50							
Matrix: Water							
Anions and Nutrients							
Acidity (as CaCO3)	3.2		2.0	mg/L		19-SEP-20	R5231130
Alkalinity, Total (as CaCO3)	99.4		2.0	mg/L		18-SEP-20	R5230813
Ammonia, Total (as N)	0.016	<T	0.0050	mg/L		24-SEP-20	R5236079
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		25-SEP-20	
Chloride (Cl)	2.19		0.10	mg/L	18-SEP-20	19-SEP-20	R5231080
Fluoride (F)	0.051		0.020	mg/L	18-SEP-20	19-SEP-20	R5231080
Nitrate (as N)	0.002	<DL	0.020	mg/L		19-SEP-20	R5231080
Nitrite (as N)	<0.001	<W	0.010	mg/L		19-SEP-20	R5231080
Total Kjeldahl Nitrogen	1.36		0.050	mg/L	18-SEP-20	22-SEP-20	R5232813
Orthophosphate-Dissolved (as P)	0.0126		0.0030	mg/L	18-SEP-20	18-SEP-20	R5230997
Sulfate (SO4)	3.75	<T	0.30	mg/L		19-SEP-20	R5231080
Cyanides							
Cyanide, Weak Acid Diss	0.0006	<DL	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Total	0.0004	<DL	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Free	0.0005	<DL	0.0020	mg/L		22-SEP-20	R5232783
Organic / Inorganic Carbon							
Dissolved Organic Carbon	36.5	DLM	5.0	mg/L	18-SEP-20	30-SEP-20	R5243384
Total Organic Carbon	55.3	DLM	5.0	mg/L		01-OCT-20	R5244055
Total Metals							
Aluminum (Al)-Total	0.737		0.0050	mg/L		22-SEP-20	R5232889
Antimony (Sb)-Total	0.000095	<DL	0.00060	mg/L		22-SEP-20	R5232889
Arsenic (As)-Total	0.00224	<T	0.0010	mg/L		22-SEP-20	R5232889
Barium (Ba)-Total	0.0257		0.010	mg/L		22-SEP-20	R5232889
Beryllium (Be)-Total	0.0000435	<DL	0.0010	mg/L		22-SEP-20	R5232889
Bismuth (Bi)-Total	0.00002	<DL	0.0010	mg/L		22-SEP-20	R5232889
Boron (B)-Total	0.0160	<DL	0.050	mg/L		22-SEP-20	R5232889
Cadmium (Cd)-Total	0.000022	<T	0.000017	mg/L		22-SEP-20	R5232889
Calcium (Ca)-Total	25.0		0.20	mg/L		22-SEP-20	R5232889
Cesium (Cs)-Total	0.0000870		0.000010	mg/L		22-SEP-20	R5232889
Chromium (Cr)-Total	0.00134		0.0010	mg/L		22-SEP-20	R5232889
Cobalt (Co)-Total	0.000590	<T	0.00050	mg/L		22-SEP-20	R5232889
Copper (Cu)-Total	0.00270	<T	0.0010	mg/L		22-SEP-20	R5232889
Iron (Fe)-Total	1.36		0.020	mg/L		22-SEP-20	R5232889
Lead (Pb)-Total	0.00086	<T	0.000050	mg/L		22-SEP-20	R5232889
Lithium (Li)-Total	0.0054	<DL	0.050	mg/L		22-SEP-20	R5232889
Magnesium (Mg)-Total	10.5		0.020	mg/L		22-SEP-20	R5232889
Manganese (Mn)-Total	0.104		0.0010	mg/L		22-SEP-20	R5232889
Mercury (Hg)-Total	0.000010	<DL	0.000030	mg/L		23-SEP-20	R5232985
Molybdenum (Mo)-Total	0.000435	<DL	0.0010	mg/L		22-SEP-20	R5232889
Nickel (Ni)-Total	0.00268	<T	0.0020	mg/L		22-SEP-20	R5232889
Phosphorus (P)-Total	0.065		0.050	mg/L		22-SEP-20	R5232889
Potassium (K)-Total	1.99		0.50	mg/L		22-SEP-20	R5232889

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-4 SW15							
Sampled By: SF on 15-SEP-20 @ 11:50							
Matrix: Water							
Total Metals							
Rubidium (Rb)-Total	0.00299		0.00020	mg/L		22-SEP-20	R5232889
Selenium (Se)-Total	0.000170	<T	0.000050	mg/L		22-SEP-20	R5232889
Silicon (Si)-Total	5.70		0.10	mg/L		22-SEP-20	R5232889
Silver (Ag)-Total	0.000005	<DL	0.00010	mg/L		22-SEP-20	R5232889
Sodium (Na)-Total	2.97		0.10	mg/L		22-SEP-20	R5232889
Strontium (Sr)-Total	0.0581		0.0010	mg/L		22-SEP-20	R5232889
Sulfur (S)-Total	1.8		0.50	mg/L		22-SEP-20	R5232889
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		22-SEP-20	R5232889
Thallium (Tl)-Total	0.000010	<DL	0.00030	mg/L		22-SEP-20	R5232889
Thorium (Th)-Total	0.00021		0.00010	mg/L		22-SEP-20	R5232889
Tin (Sn)-Total	0.00006	<DL	0.0010	mg/L		22-SEP-20	R5232889
Titanium (Ti)-Total	0.0210		0.0020	mg/L		22-SEP-20	R5232889
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		22-SEP-20	R5232889
Uranium (U)-Total	0.000450	<DL	0.0050	mg/L		22-SEP-20	R5232889
Vanadium (V)-Total	0.00310	<T	0.0010	mg/L		22-SEP-20	R5232889
Zinc (Zn)-Total	0.0020	<DL	0.0030	mg/L		22-SEP-20	R5232889
Zirconium (Zr)-Total	0.00106		0.0010	mg/L		22-SEP-20	R5232889
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-SEP-20	R5232822
Aluminum (Al)-Dissolved	0.0788		0.0050	mg/L		23-SEP-20	R5234336
Antimony (Sb)-Dissolved	0.000090	<DL	0.00060	mg/L		23-SEP-20	R5234336
Arsenic (As)-Dissolved	0.00189	<T	0.0010	mg/L		23-SEP-20	R5234336
Barium (Ba)-Dissolved	0.0180		0.010	mg/L		23-SEP-20	R5234336
Beryllium (Be)-Dissolved	0.000026	<DL	0.0010	mg/L		23-SEP-20	R5234336
Bismuth (Bi)-Dissolved	0.000002	<DL	0.0010	mg/L		23-SEP-20	R5234336
Boron (B)-Dissolved	0.0165	<DL	0.050	mg/L		23-SEP-20	R5234336
Cadmium (Cd)-Dissolved	0.0000115	<DL	0.000017	mg/L		23-SEP-20	R5234336
Calcium (Ca)-Dissolved	24.1		0.20	mg/L		23-SEP-20	R5234336
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		23-SEP-20	R5234336
Chromium (Cr)-Dissolved	0.00036	<DL	0.0010	mg/L		23-SEP-20	R5234336
Cobalt (Co)-Dissolved	0.000220	<DL	0.00050	mg/L		23-SEP-20	R5234336
Copper (Cu)-Dissolved	0.00214	<T	0.0010	mg/L		23-SEP-20	R5234336
Iron (Fe)-Dissolved	0.535		0.020	mg/L		23-SEP-20	R5234336
Lead (Pb)-Dissolved	0.00019	<T	0.000050	mg/L		23-SEP-20	R5234336
Lithium (Li)-Dissolved	0.0042	<DL	0.050	mg/L		23-SEP-20	R5234336
Magnesium (Mg)-Dissolved	10.4		0.020	mg/L		23-SEP-20	R5234336
Manganese (Mn)-Dissolved	0.0419		0.0010	mg/L		23-SEP-20	R5234336
Mercury (Hg)-Dissolved	0.000005	<DL	0.000030	mg/L		23-SEP-20	R5232984
Molybdenum (Mo)-Dissolved	0.000414	<DL	0.0010	mg/L		23-SEP-20	R5234336
Nickel (Ni)-Dissolved	0.00186	<DL	0.0020	mg/L		23-SEP-20	R5234336
Phosphorus (P)-Dissolved	0.030	<DL	0.050	mg/L		23-SEP-20	R5234336

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-4 SW15 Sampled By: SF on 15-SEP-20 @ 11:50 Matrix: Water							
Dissolved Metals							
Potassium (K)-Dissolved	1.63		0.50	mg/L		23-SEP-20	R5234336
Rubidium (Rb)-Dissolved	0.00155		0.00020	mg/L		23-SEP-20	R5234336
Selenium (Se)-Dissolved	0.000210	<T	0.000050	mg/L		23-SEP-20	R5234336
Silicon (Si)-Dissolved	4.46		0.050	mg/L		23-SEP-20	R5234336
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		23-SEP-20	R5234336
Sodium (Na)-Dissolved	2.76		0.10	mg/L		23-SEP-20	R5234336
Strontium (Sr)-Dissolved	0.0577		0.0010	mg/L		23-SEP-20	R5234336
Sulfur (S)-Dissolved	1.8		0.50	mg/L		23-SEP-20	R5234336
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		23-SEP-20	R5234336
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		23-SEP-20	R5234336
Thorium (Th)-Dissolved	0.00017		0.00010	mg/L		23-SEP-20	R5234336
Tin (Sn)-Dissolved	0.000010	<DL	0.0010	mg/L		23-SEP-20	R5234336
Titanium (Ti)-Dissolved	0.00726		0.0020	mg/L		23-SEP-20	R5234336
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		23-SEP-20	R5234336
Uranium (U)-Dissolved	0.000395	<DL	0.0050	mg/L		23-SEP-20	R5234336
Vanadium (V)-Dissolved	0.00154	<T	0.0010	mg/L		23-SEP-20	R5234336
Zinc (Zn)-Dissolved	0.0012	<DL	0.0030	mg/L		23-SEP-20	R5234336
Zirconium (Zr)-Dissolved	0.000932	<DL	0.0010	mg/L		23-SEP-20	R5234336
Aggregate Organics							
Biochemical Oxygen Demand	2.4		2.0	mg/L		18-SEP-20	R5232781
Chemical Oxygen Demand	121		20	mg/L	18-SEP-20	24-SEP-20	R5235139
Oil and Grease, Total	0.8	<DL	1.0	mg/L	22-SEP-20	23-SEP-20	R5232627
L2504998-5 SW22A Sampled By: SF on 15-SEP-20 @ 10:20 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	0		0	mg/L		21-SEP-20	R5231712
pH, Client Supplied	7.01		0.10	pH		21-SEP-20	R5231712
Temperature, Client Supplied	12.43		0	Degree C		21-SEP-20	R5231712
Physical Tests							
Color, True	54.0		2.0	CU		18-SEP-20	R5230476
Conductivity (EC)	439		1.0	uS/cm		18-SEP-20	R5230813
Hardness (as CaCO3)	224		0.51	mg/L		25-SEP-20	
pH	8.00		0.10	pH		18-SEP-20	R5230813
Total Suspended Solids	4.0		3.0	mg/L		20-SEP-20	R5231285
Total Dissolved Solids	342		20	mg/L		20-SEP-20	R5231325
Turbidity	2.45		0.10	NTU		19-SEP-20	R5231036
Anions and Nutrients							
Acidity (as CaCO3)	2.2		2.0	mg/L		19-SEP-20	R5231130
Alkalinity, Total (as CaCO3)	241		2.0	mg/L		18-SEP-20	R5230813
Ammonia, Total (as N)	0.014	<T	0.0050	mg/L		24-SEP-20	R5236079
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		25-SEP-20	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-5 SW22A							
Sampled By: SF on 15-SEP-20 @ 10:20							
Matrix: Water							
Anions and Nutrients							
Chloride (Cl)	12.6		0.10	mg/L	18-SEP-20	19-SEP-20	R5231080
Fluoride (F)	0.075		0.020	mg/L	18-SEP-20	19-SEP-20	R5231080
Nitrate (as N)	<0.002	<W	0.020	mg/L		19-SEP-20	R5231080
Nitrite (as N)	<0.001	<W	0.010	mg/L		19-SEP-20	R5231080
Total Kjeldahl Nitrogen	1.44		0.050	mg/L	18-SEP-20	22-SEP-20	R5232813
Orthophosphate-Dissolved (as P)	0.0155		0.0030	mg/L	18-SEP-20	21-SEP-20	R5231640
Sulfate (SO4)	12.4		0.30	mg/L		19-SEP-20	R5231080
Cyanides							
Cyanide, Weak Acid Diss	0.0003	<DL	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Total	0.0004	<DL	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Free	0.0003	<DL	0.0020	mg/L		22-SEP-20	R5232783
Organic / Inorganic Carbon							
Dissolved Organic Carbon	24.5	DLM	5.0	mg/L	18-SEP-20	30-SEP-20	R5243384
Total Organic Carbon	38.4	DLM	5.0	mg/L		01-OCT-20	R5244055
Total Metals							
Aluminum (Al)-Total	0.0294	<T	0.0050	mg/L		22-SEP-20	R5232889
Antimony (Sb)-Total	0.000080	<DL	0.00060	mg/L		22-SEP-20	R5232889
Arsenic (As)-Total	0.00148	<T	0.0010	mg/L		22-SEP-20	R5232889
Barium (Ba)-Total	0.0184		0.010	mg/L		22-SEP-20	R5232889
Beryllium (Be)-Total	0.0000013	<DL	0.0010	mg/L		22-SEP-20	R5232889
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		22-SEP-20	R5232889
Boron (B)-Total	0.0240	<DL	0.050	mg/L		22-SEP-20	R5232889
Cadmium (Cd)-Total	0.000002	<DL	0.000017	mg/L		22-SEP-20	R5232889
Calcium (Ca)-Total	51.0		0.20	mg/L		22-SEP-20	R5232889
Cesium (Cs)-Total	0.0000040	<DL	0.000010	mg/L		22-SEP-20	R5232889
Chromium (Cr)-Total	0.00026	<DL	0.0010	mg/L		22-SEP-20	R5232889
Cobalt (Co)-Total	0.000170	<DL	0.00050	mg/L		22-SEP-20	R5232889
Copper (Cu)-Total	0.00026	<DL	0.0010	mg/L		22-SEP-20	R5232889
Iron (Fe)-Total	0.168		0.020	mg/L		22-SEP-20	R5232889
Lead (Pb)-Total	0.00003	<DL	0.000050	mg/L		22-SEP-20	R5232889
Lithium (Li)-Total	0.0078	<DL	0.050	mg/L		22-SEP-20	R5232889
Magnesium (Mg)-Total	22.3		0.020	mg/L		22-SEP-20	R5232889
Manganese (Mn)-Total	0.109		0.0010	mg/L		22-SEP-20	R5232889
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5232985
Molybdenum (Mo)-Total	0.000320	<DL	0.0010	mg/L		22-SEP-20	R5232889
Nickel (Ni)-Total	0.00124	<DL	0.0020	mg/L		22-SEP-20	R5232889
Phosphorus (P)-Total	0.070		0.050	mg/L		22-SEP-20	R5232889
Potassium (K)-Total	1.91		0.50	mg/L		22-SEP-20	R5232889
Rubidium (Rb)-Total	0.00338		0.00020	mg/L		22-SEP-20	R5232889
Selenium (Se)-Total	0.000150	<T	0.000050	mg/L		22-SEP-20	R5232889
Silicon (Si)-Total	3.13		0.10	mg/L		22-SEP-20	R5232889
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		22-SEP-20	R5232889

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-5 SW22A							
Sampled By: SF on 15-SEP-20 @ 10:20							
Matrix: Water							
Total Metals							
Sodium (Na)-Total	7.78		0.10	mg/L		22-SEP-20	R5232889
Strontium (Sr)-Total	0.128		0.0010	mg/L		22-SEP-20	R5232889
Sulfur (S)-Total	5.2		0.50	mg/L		22-SEP-20	R5232889
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		22-SEP-20	R5232889
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		22-SEP-20	R5232889
Thorium (Th)-Total	<0.00001	<W	0.00010	mg/L		22-SEP-20	R5232889
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		22-SEP-20	R5232889
Titanium (Ti)-Total	0.00224	<DL	0.0023	mg/L		22-SEP-20	R5232889
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		22-SEP-20	R5232889
Uranium (U)-Total	0.000434	<DL	0.0050	mg/L		22-SEP-20	R5232889
Vanadium (V)-Total	0.00035	<DL	0.0010	mg/L		22-SEP-20	R5232889
Zinc (Zn)-Total	0.0010	<DL	0.0030	mg/L		22-SEP-20	R5232889
Zirconium (Zr)-Total	0.000142	<DL	0.0010	mg/L		22-SEP-20	R5232889
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-SEP-20	R5232822
Aluminum (Al)-Dissolved	0.0032	<DL	0.0050	mg/L		24-SEP-20	R5236157
Antimony (Sb)-Dissolved	0.000075	<DL	0.00060	mg/L		24-SEP-20	R5236157
Arsenic (As)-Dissolved	0.00142	<T	0.0010	mg/L		24-SEP-20	R5236157
Barium (Ba)-Dissolved	0.0177		0.010	mg/L		24-SEP-20	R5236157
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		24-SEP-20	R5236157
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		24-SEP-20	R5236157
Boron (B)-Dissolved	0.0235	<DL	0.050	mg/L		24-SEP-20	R5236157
Cadmium (Cd)-Dissolved	0.0000010	<DL	0.000017	mg/L		24-SEP-20	R5236157
Calcium (Ca)-Dissolved	52.6		0.20	mg/L		24-SEP-20	R5236157
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		24-SEP-20	R5236157
Chromium (Cr)-Dissolved	0.00009	<DL	0.0010	mg/L		24-SEP-20	R5236157
Cobalt (Co)-Dissolved	0.000128	<DL	0.00050	mg/L		24-SEP-20	R5236157
Copper (Cu)-Dissolved	0.00030	<DL	0.0010	mg/L		24-SEP-20	R5236157
Iron (Fe)-Dissolved	0.0520		0.020	mg/L		24-SEP-20	R5236157
Lead (Pb)-Dissolved	0.00001	<DL	0.000050	mg/L		24-SEP-20	R5236157
Lithium (Li)-Dissolved	0.0076	<DL	0.050	mg/L		24-SEP-20	R5236157
Magnesium (Mg)-Dissolved	22.5		0.020	mg/L		24-SEP-20	R5236157
Manganese (Mn)-Dissolved	0.0555		0.0010	mg/L		24-SEP-20	R5236157
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5232984
Molybdenum (Mo)-Dissolved	0.000352	<DL	0.0010	mg/L		24-SEP-20	R5236157
Nickel (Ni)-Dissolved	0.00118	<DL	0.0020	mg/L		24-SEP-20	R5236157
Phosphorus (P)-Dissolved	0.035	<DL	0.050	mg/L		24-SEP-20	R5236157
Potassium (K)-Dissolved	1.75		0.50	mg/L		24-SEP-20	R5236157
Rubidium (Rb)-Dissolved	0.00314		0.00020	mg/L		24-SEP-20	R5236157
Selenium (Se)-Dissolved	0.000150	<T	0.000050	mg/L		24-SEP-20	R5236157
Silicon (Si)-Dissolved	3.33		0.050	mg/L		24-SEP-20	R5236157

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-5 SW22A Sampled By: SF on 15-SEP-20 @ 10:20 Matrix: Water							
Dissolved Metals							
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		24-SEP-20	R5236157
Sodium (Na)-Dissolved	7.88		0.10	mg/L		24-SEP-20	R5236157
Strontium (Sr)-Dissolved	0.135		0.0010	mg/L		24-SEP-20	R5236157
Sulfur (S)-Dissolved	4.8		0.50	mg/L		24-SEP-20	R5236157
Tellurium (Te)-Dissolved	0.00002	<DL	0.0010	mg/L		24-SEP-20	R5236157
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		24-SEP-20	R5236157
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		24-SEP-20	R5236157
Tin (Sn)-Dissolved	0.000030	<DL	0.0010	mg/L		24-SEP-20	R5236157
Titanium (Ti)-Dissolved	0.00020	<DL	0.0020	mg/L		24-SEP-20	R5236157
Tungsten (W)-Dissolved	0.000004	<DL	0.010	mg/L		24-SEP-20	R5236157
Uranium (U)-Dissolved	0.000470	<DL	0.0050	mg/L		24-SEP-20	R5236157
Vanadium (V)-Dissolved	0.00028	<DL	0.0010	mg/L		24-SEP-20	R5236157
Zinc (Zn)-Dissolved	0.0030	<T	0.0030	mg/L		24-SEP-20	R5236157
Zirconium (Zr)-Dissolved	0.000128	<DL	0.0010	mg/L		24-SEP-20	R5236157
Aggregate Organics							
Biochemical Oxygen Demand	2.6		2.0	mg/L		18-SEP-20	R5232781
Chemical Oxygen Demand	76		20	mg/L	18-SEP-20	24-SEP-20	R5235139
Oil and Grease, Total	1.2		1.0	mg/L	22-SEP-20	23-SEP-20	R5232627
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		10-OCT-20	R5255475
L2504998-6 SW27 Sampled By: SF on 15-SEP-20 @ 10:55 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	0		0	mg/L		21-SEP-20	R5231712
pH, Client Supplied	7.41		0.10	pH		21-SEP-20	R5231712
Temperature, Client Supplied	11.06		0	Degree C		21-SEP-20	R5231712
Physical Tests							
Color, True	32.8		2.0	CU		19-SEP-20	R5230893
Conductivity (EC)	701		1.0	uS/cm		18-SEP-20	R5230813
Hardness (as CaCO3)	321		0.51	mg/L		24-SEP-20	
pH	8.11		0.10	pH		18-SEP-20	R5230813
Total Suspended Solids	0.5	<DL	3.0	mg/L		20-SEP-20	R5231939
Total Dissolved Solids	462		20	mg/L		20-SEP-20	R5231948
Turbidity	1.46		0.10	NTU		18-SEP-20	R5230797
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		19-SEP-20	R5231130
Alkalinity, Total (as CaCO3)	244		2.0	mg/L		18-SEP-20	R5230813
Ammonia, Total (as N)	0.016	<T	0.0050	mg/L		24-SEP-20	R5236079
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		25-SEP-20	
Chloride (Cl)	18.8		0.10	mg/L	18-SEP-20	19-SEP-20	R5231080
Fluoride (F)	0.097		0.020	mg/L	18-SEP-20	19-SEP-20	R5231080

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-6 SW27							
Sampled By: SF on 15-SEP-20 @ 10:55							
Matrix: Water							
Anions and Nutrients							
Nitrate (as N)	<0.002	<W	0.020	mg/L		19-SEP-20	R5231080
Nitrite (as N)	0.001	<DL	0.010	mg/L		19-SEP-20	R5231080
Total Kjeldahl Nitrogen	0.966		0.050	mg/L	18-SEP-20	22-SEP-20	R5232813
Orthophosphate-Dissolved (as P)	0.0176		0.0030	mg/L	18-SEP-20	18-SEP-20	R5230997
Sulfate (SO4)	130		0.30	mg/L		19-SEP-20	R5231080
Cyanides							
Cyanide, Weak Acid Diss	0.0002	<DL	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Total	0.0004	<DL	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Free	0.0002	<DL	0.0020	mg/L		22-SEP-20	R5232783
Organic / Inorganic Carbon							
Dissolved Organic Carbon	15.8	DLM	5.0	mg/L	18-SEP-20	30-SEP-20	R5243384
Total Organic Carbon	24.1	DLM	5.0	mg/L		01-OCT-20	R5244055
Total Metals							
Aluminum (Al)-Total	0.0498		0.0050	mg/L		22-SEP-20	R5232889
Antimony (Sb)-Total	0.000115	<DL	0.00060	mg/L		22-SEP-20	R5232889
Arsenic (As)-Total	0.00113	<T	0.0010	mg/L		22-SEP-20	R5232889
Barium (Ba)-Total	0.0366		0.010	mg/L		22-SEP-20	R5232889
Beryllium (Be)-Total	0.0000156	<DL	0.0010	mg/L		22-SEP-20	R5232889
Bismuth (Bi)-Total	0.00002	<DL	0.0010	mg/L		22-SEP-20	R5232889
Boron (B)-Total	0.0220	<DL	0.050	mg/L		22-SEP-20	R5232889
Cadmium (Cd)-Total	0.000030	<T	0.000017	mg/L		22-SEP-20	R5232889
Calcium (Ca)-Total	71.3		0.20	mg/L		22-SEP-20	R5232889
Cesium (Cs)-Total	0.0000085	<DL	0.000010	mg/L		22-SEP-20	R5232889
Chromium (Cr)-Total	0.00026	<DL	0.0010	mg/L		22-SEP-20	R5232889
Cobalt (Co)-Total	0.000155	<DL	0.00050	mg/L		22-SEP-20	R5232889
Copper (Cu)-Total	0.00160	<T	0.0010	mg/L		22-SEP-20	R5232889
Iron (Fe)-Total	0.107		0.020	mg/L		22-SEP-20	R5232889
Lead (Pb)-Total	0.00005	<T	0.000050	mg/L		22-SEP-20	R5232889
Lithium (Li)-Total	0.0168	<DL	0.050	mg/L		22-SEP-20	R5232889
Magnesium (Mg)-Total	34.3		0.020	mg/L		22-SEP-20	R5232889
Manganese (Mn)-Total	0.0192		0.0010	mg/L		22-SEP-20	R5232889
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5232985
Molybdenum (Mo)-Total	0.000935	<DL	0.0010	mg/L		22-SEP-20	R5232889
Nickel (Ni)-Total	0.00122	<DL	0.0020	mg/L		22-SEP-20	R5232889
Phosphorus (P)-Total	0.035	<DL	0.050	mg/L		22-SEP-20	R5232889
Potassium (K)-Total	5.06		0.50	mg/L		22-SEP-20	R5232889
Rubidium (Rb)-Total	0.00196		0.00020	mg/L		22-SEP-20	R5232889
Selenium (Se)-Total	0.000120	<T	0.000050	mg/L		22-SEP-20	R5232889
Silicon (Si)-Total	1.96		0.10	mg/L		22-SEP-20	R5232889
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		22-SEP-20	R5232889
Sodium (Na)-Total	23.1		0.10	mg/L		22-SEP-20	R5232889
Strontium (Sr)-Total	0.193		0.0010	mg/L		22-SEP-20	R5232889

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-6 SW27							
Sampled By: SF on 15-SEP-20 @ 10:55							
Matrix: Water							
Total Metals							
Sulfur (S)-Total	43.8		0.50	mg/L		22-SEP-20	R5232889
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		22-SEP-20	R5232889
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		22-SEP-20	R5232889
Thorium (Th)-Total	0.00001	<DL	0.00010	mg/L		22-SEP-20	R5232889
Tin (Sn)-Total	0.00004	<DL	0.0010	mg/L		22-SEP-20	R5232889
Titanium (Ti)-Total	0.00171	<DL	0.0020	mg/L		22-SEP-20	R5232889
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		22-SEP-20	R5232889
Uranium (U)-Total	0.00184	<DL	0.0050	mg/L		22-SEP-20	R5232889
Vanadium (V)-Total	0.00060	<DL	0.0010	mg/L		22-SEP-20	R5232889
Zinc (Zn)-Total	0.0075	<T	0.0030	mg/L		22-SEP-20	R5232889
Zirconium (Zr)-Total	0.000158	<DL	0.0010	mg/L		22-SEP-20	R5232889
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-SEP-20	R5232822
Aluminum (Al)-Dissolved	0.0020	<DL	0.0050	mg/L		23-SEP-20	R5234336
Antimony (Sb)-Dissolved	0.000095	<DL	0.00060	mg/L		23-SEP-20	R5234336
Arsenic (As)-Dissolved	0.00112	<T	0.0010	mg/L		23-SEP-20	R5234336
Barium (Ba)-Dissolved	0.0342		0.010	mg/L		23-SEP-20	R5234336
Beryllium (Be)-Dissolved	0.000006	<DL	0.0010	mg/L		23-SEP-20	R5234336
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		23-SEP-20	R5234336
Boron (B)-Dissolved	0.0210	<DL	0.050	mg/L		23-SEP-20	R5234336
Cadmium (Cd)-Dissolved	0.0000055	<DL	0.000017	mg/L		23-SEP-20	R5234336
Calcium (Ca)-Dissolved	70.0		0.20	mg/L		23-SEP-20	R5234336
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		23-SEP-20	R5234336
Chromium (Cr)-Dissolved	0.00011	<DL	0.0010	mg/L		23-SEP-20	R5234336
Cobalt (Co)-Dissolved	0.000110	<DL	0.00050	mg/L		23-SEP-20	R5234336
Copper (Cu)-Dissolved	0.00070	<DL	0.0010	mg/L		23-SEP-20	R5234336
Iron (Fe)-Dissolved	0.0295		0.020	mg/L		23-SEP-20	R5234336
Lead (Pb)-Dissolved	<0.00001	<W	0.000050	mg/L		23-SEP-20	R5234336
Lithium (Li)-Dissolved	0.0144	<DL	0.050	mg/L		23-SEP-20	R5234336
Magnesium (Mg)-Dissolved	35.5		0.020	mg/L		23-SEP-20	R5234336
Manganese (Mn)-Dissolved	0.0125		0.0010	mg/L		23-SEP-20	R5234336
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5232984
Molybdenum (Mo)-Dissolved	0.000860	<DL	0.0010	mg/L		23-SEP-20	R5234336
Nickel (Ni)-Dissolved	0.00106	<DL	0.0020	mg/L		23-SEP-20	R5234336
Phosphorus (P)-Dissolved	0.035	<DL	0.050	mg/L		23-SEP-20	R5234336
Potassium (K)-Dissolved	4.73		0.50	mg/L		23-SEP-20	R5234336
Rubidium (Rb)-Dissolved	0.00186		0.00020	mg/L		23-SEP-20	R5234336
Selenium (Se)-Dissolved	0.000125	<T	0.000050	mg/L		23-SEP-20	R5234336
Silicon (Si)-Dissolved	1.99		0.050	mg/L		23-SEP-20	R5234336
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		23-SEP-20	R5234336
Sodium (Na)-Dissolved	21.6		0.10	mg/L		23-SEP-20	R5234336

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-6 SW27 Sampled By: SF on 15-SEP-20 @ 10:55 Matrix: Water							
Dissolved Metals							
Strontium (Sr)-Dissolved	0.199		0.0010	mg/L		23-SEP-20	R5234336
Sulfur (S)-Dissolved	43.0		0.50	mg/L		23-SEP-20	R5234336
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		23-SEP-20	R5234336
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		23-SEP-20	R5234336
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		23-SEP-20	R5234336
Tin (Sn)-Dissolved	0.000035	<DL	0.0010	mg/L		23-SEP-20	R5234336
Titanium (Ti)-Dissolved	0.00020	<DL	0.0020	mg/L		23-SEP-20	R5234336
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		23-SEP-20	R5234336
Uranium (U)-Dissolved	0.00177	<DL	0.0050	mg/L		23-SEP-20	R5234336
Vanadium (V)-Dissolved	0.00042	<DL	0.0010	mg/L		23-SEP-20	R5234336
Zinc (Zn)-Dissolved	0.0010	<DL	0.0030	mg/L		23-SEP-20	R5234336
Zirconium (Zr)-Dissolved	0.000136	<DL	0.0010	mg/L		23-SEP-20	R5234336
Aggregate Organics							
Biochemical Oxygen Demand	2.1		2.0	mg/L		18-SEP-20	R5232781
Chemical Oxygen Demand	50		20	mg/L	18-SEP-20	24-SEP-20	R5235139
Oil and Grease, Total	0.8	<DL	1.0	mg/L	22-SEP-20	23-SEP-20	R5232627
L2504998-7 SW16 Sampled By: SF on 15-SEP-20 @ 09:50 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	106.7		0	mg/L		21-SEP-20	R5231712
pH, Client Supplied	6.42		0.10	pH		21-SEP-20	R5231712
Temperature, Client Supplied	15.49		0	Degree C		21-SEP-20	R5231712
Physical Tests							
Color, True	45.3		2.0	CU		19-SEP-20	R5231049
Conductivity (EC)	84.8		1.0	uS/cm		19-SEP-20	R5231130
Hardness (as CaCO3)	36.8		0.51	mg/L		25-SEP-20	
pH	7.72		0.10	pH		19-SEP-20	R5231130
Total Suspended Solids	8.0		3.0	mg/L		20-SEP-20	R5231285
Total Dissolved Solids	64		10	mg/L		20-SEP-20	R5231325
Turbidity	6.65		0.10	NTU		19-SEP-20	R5231036
Anions and Nutrients							
Acidity (as CaCO3)	0.6	<DL	2.0	mg/L		19-SEP-20	R5231130
Alkalinity, Total (as CaCO3)	39.2		2.0	mg/L		20-SEP-20	R5231283
Ammonia, Total (as N)	0.028	<T	0.0050	mg/L		24-SEP-20	R5236079
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		25-SEP-20	
Chloride (Cl)	2.98		0.10	mg/L	19-SEP-20	19-SEP-20	R5231080
Fluoride (F)	0.036		0.020	mg/L	19-SEP-20	19-SEP-20	R5231080
Nitrate (as N)	0.008	<DL	0.020	mg/L		19-SEP-20	R5231080
Nitrite (as N)	<0.001	<W	0.010	mg/L		19-SEP-20	R5231080
Total Kjeldahl Nitrogen	0.528		0.050	mg/L	18-SEP-20	22-SEP-20	R5232813
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	19-SEP-20	21-SEP-20	R5231640

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-7 SW16							
Sampled By: SF on 15-SEP-20 @ 09:50							
Matrix: Water							
Anions and Nutrients							
Sulfate (SO4)	4.40	<T	0.30	mg/L		19-SEP-20	R5231080
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Total	<0.0002	<W	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Free	<0.0001	<W	0.0020	mg/L		22-SEP-20	R5232783
Organic / Inorganic Carbon							
Dissolved Organic Carbon	18.4	DLM	5.0	mg/L	18-SEP-20	30-SEP-20	R5243384
Total Organic Carbon	16.0	DLM	5.0	mg/L		01-OCT-20	R5244055
Total Metals							
Aluminum (Al)-Total	0.209		0.0050	mg/L		22-SEP-20	R5232889
Antimony (Sb)-Total	0.000045	<DL	0.00060	mg/L		22-SEP-20	R5232889
Arsenic (As)-Total	0.00057	<DL	0.0010	mg/L		22-SEP-20	R5232889
Barium (Ba)-Total	0.0116		0.010	mg/L		22-SEP-20	R5232889
Beryllium (Be)-Total	0.0000026	<DL	0.0010	mg/L		22-SEP-20	R5232889
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		22-SEP-20	R5232889
Boron (B)-Total	0.0065	<DL	0.050	mg/L		22-SEP-20	R5232889
Cadmium (Cd)-Total	0.000055	<T	0.000017	mg/L		22-SEP-20	R5232889
Calcium (Ca)-Total	9.62		0.20	mg/L		22-SEP-20	R5232889
Cesium (Cs)-Total	0.0000395		0.000010	mg/L		22-SEP-20	R5232889
Chromium (Cr)-Total	0.00064	<DL	0.0010	mg/L		22-SEP-20	R5232889
Cobalt (Co)-Total	0.000155	<DL	0.00050	mg/L		22-SEP-20	R5232889
Copper (Cu)-Total	0.00120	<T	0.0010	mg/L		22-SEP-20	R5232889
Iron (Fe)-Total	0.302		0.020	mg/L		22-SEP-20	R5232889
Lead (Pb)-Total	0.00018	<T	0.000050	mg/L		22-SEP-20	R5232889
Lithium (Li)-Total	0.0014	<DL	0.050	mg/L		22-SEP-20	R5232889
Magnesium (Mg)-Total	2.95		0.020	mg/L		22-SEP-20	R5232889
Manganese (Mn)-Total	0.0204		0.0010	mg/L		22-SEP-20	R5232889
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5232985
Molybdenum (Mo)-Total	0.000210	<DL	0.0010	mg/L		22-SEP-20	R5232889
Nickel (Ni)-Total	0.00092	<DL	0.0020	mg/L		22-SEP-20	R5232889
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		22-SEP-20	R5232889
Potassium (K)-Total	0.92		0.50	mg/L		22-SEP-20	R5232889
Rubidium (Rb)-Total	0.00238		0.00020	mg/L		22-SEP-20	R5232889
Selenium (Se)-Total	0.000115	<T	0.000050	mg/L		22-SEP-20	R5232889
Silicon (Si)-Total	2.24		0.10	mg/L		22-SEP-20	R5232889
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		22-SEP-20	R5232889
Sodium (Na)-Total	4.08		0.10	mg/L		22-SEP-20	R5232889
Strontium (Sr)-Total	0.0259		0.0010	mg/L		22-SEP-20	R5232889
Sulfur (S)-Total	1.6		0.50	mg/L		22-SEP-20	R5232889
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		22-SEP-20	R5232889
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		22-SEP-20	R5232889
Thorium (Th)-Total	0.00005	<DL	0.00010	mg/L		22-SEP-20	R5232889

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-7 SW16							
Sampled By: SF on 15-SEP-20 @ 09:50							
Matrix: Water							
Total Metals							
Tin (Sn)-Total	0.00005	<DL	0.0010	mg/L		22-SEP-20	R5232889
Titanium (Ti)-Total	0.00618		0.0020	mg/L		22-SEP-20	R5232889
Tungsten (W)-Total	0.00001	<DL	0.010	mg/L		22-SEP-20	R5232889
Uranium (U)-Total	0.000103	<DL	0.0050	mg/L		22-SEP-20	R5232889
Vanadium (V)-Total	0.00090	<DL	0.0010	mg/L		22-SEP-20	R5232889
Zinc (Zn)-Total	0.0105		0.0030	mg/L		22-SEP-20	R5232889
Zirconium (Zr)-Total	0.000274	<DL	0.0010	mg/L		22-SEP-20	R5232889
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-SEP-20	R5232822
Aluminum (Al)-Dissolved	0.0214	<T	0.0050	mg/L		24-SEP-20	R5236157
Antimony (Sb)-Dissolved	0.000040	<DL	0.00060	mg/L		24-SEP-20	R5236157
Arsenic (As)-Dissolved	0.000488	<DL	0.0010	mg/L		24-SEP-20	R5236157
Barium (Ba)-Dissolved	0.00978	<DL	0.010	mg/L		24-SEP-20	R5236157
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		24-SEP-20	R5236157
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		24-SEP-20	R5236157
Boron (B)-Dissolved	0.0055	<DL	0.050	mg/L		24-SEP-20	R5236157
Cadmium (Cd)-Dissolved	0.0000030	<DL	0.000017	mg/L		24-SEP-20	R5236157
Calcium (Ca)-Dissolved	9.89		0.20	mg/L		24-SEP-20	R5236157
Cesium (Cs)-Dissolved	0.0000030	<DL	0.000010	mg/L		24-SEP-20	R5236157
Chromium (Cr)-Dissolved	0.00021	<DL	0.0010	mg/L		24-SEP-20	R5236157
Cobalt (Co)-Dissolved	0.000030	<DL	0.00050	mg/L		24-SEP-20	R5236157
Copper (Cu)-Dissolved	0.00088	<DL	0.0010	mg/L		24-SEP-20	R5236157
Iron (Fe)-Dissolved	0.112		0.020	mg/L		24-SEP-20	R5236157
Lead (Pb)-Dissolved	0.00005	<T	0.000050	mg/L		24-SEP-20	R5236157
Lithium (Li)-Dissolved	0.0010	<DL	0.050	mg/L		24-SEP-20	R5236157
Magnesium (Mg)-Dissolved	2.93		0.020	mg/L		24-SEP-20	R5236157
Manganese (Mn)-Dissolved	0.00676		0.0010	mg/L		24-SEP-20	R5236157
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5232984
Molybdenum (Mo)-Dissolved	0.000198	<DL	0.0010	mg/L		24-SEP-20	R5236157
Nickel (Ni)-Dissolved	0.00058	<DL	0.0020	mg/L		24-SEP-20	R5236157
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		24-SEP-20	R5236157
Potassium (K)-Dissolved	0.87		0.50	mg/L		24-SEP-20	R5236157
Rubidium (Rb)-Dissolved	0.00184		0.00020	mg/L		24-SEP-20	R5236157
Selenium (Se)-Dissolved	0.000110	<T	0.000050	mg/L		24-SEP-20	R5236157
Silicon (Si)-Dissolved	2.11		0.050	mg/L		24-SEP-20	R5236157
Silver (Ag)-Dissolved	0.0000020	<DL	0.00010	mg/L		24-SEP-20	R5236157
Sodium (Na)-Dissolved	4.22		0.10	mg/L		24-SEP-20	R5236157
Strontium (Sr)-Dissolved	0.0278		0.0010	mg/L		24-SEP-20	R5236157
Sulfur (S)-Dissolved	1.6		0.50	mg/L		24-SEP-20	R5236157
Tellurium (Te)-Dissolved	0.00001	<DL	0.0010	mg/L		24-SEP-20	R5236157
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		24-SEP-20	R5236157

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-7 SW16 Sampled By: SF on 15-SEP-20 @ 09:50 Matrix: Water							
Dissolved Metals							
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		24-SEP-20	R5236157
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		24-SEP-20	R5236157
Titanium (Ti)-Dissolved	0.00114	<DL	0.0020	mg/L		24-SEP-20	R5236157
Tungsten (W)-Dissolved	0.000010	<DL	0.010	mg/L		24-SEP-20	R5236157
Uranium (U)-Dissolved	0.0000880	<DL	0.0050	mg/L		24-SEP-20	R5236157
Vanadium (V)-Dissolved	0.00036	<DL	0.0010	mg/L		24-SEP-20	R5236157
Zinc (Zn)-Dissolved	0.0008	<DL	0.0030	mg/L		24-SEP-20	R5236157
Zirconium (Zr)-Dissolved	0.000150	<DL	0.0010	mg/L		24-SEP-20	R5236157
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		18-SEP-20	R5232781
Chemical Oxygen Demand	36		20	mg/L	18-SEP-20	24-SEP-20	R5235139
Oil and Grease, Total	1.0		1.0	mg/L	22-SEP-20	23-SEP-20	R5232627
L2504998-8 SW21A Sampled By: SF on 15-SEP-20 @ 11:35 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	.42		0	mg/L		21-SEP-20	R5231712
pH, Client Supplied	8.11		0.10	pH		21-SEP-20	R5231712
Temperature, Client Supplied	13.53		0	Degree C		21-SEP-20	R5231712
Physical Tests							
Color, True	45.3		2.0	CU		19-SEP-20	R5230893
Conductivity (EC)	577		1.0	uS/cm		18-SEP-20	R5230813
Hardness (as CaCO3)	271		0.51	mg/L		25-SEP-20	
pH	8.29		0.10	pH		18-SEP-20	R5230813
Total Suspended Solids	9.5		3.0	mg/L		20-SEP-20	R5231939
Total Dissolved Solids	378		20	mg/L		20-SEP-20	R5231948
Turbidity	11.4		0.10	NTU		18-SEP-20	R5230797
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		19-SEP-20	R5231130
Alkalinity, Total (as CaCO3)	274		2.0	mg/L		18-SEP-20	R5230813
Ammonia, Total (as N)	0.034	<T	0.0050	mg/L		24-SEP-20	R5236079
Ammonia, Un-ionized (as N)	0.001	<DL	0.010	mg/L		25-SEP-20	
Chloride (Cl)	17.6		0.10	mg/L	18-SEP-20	19-SEP-20	R5231080
Fluoride (F)	0.111		0.020	mg/L	18-SEP-20	19-SEP-20	R5231080
Nitrate (as N)	<0.002	<W	0.020	mg/L		19-SEP-20	R5231080
Nitrite (as N)	<0.001	<W	0.010	mg/L		19-SEP-20	R5231080
Total Kjeldahl Nitrogen	1.24		0.050	mg/L	18-SEP-20	22-SEP-20	R5232813
Orthophosphate-Dissolved (as P)	0.0210		0.0030	mg/L	18-SEP-20	19-SEP-20	R5230997
Sulfate (SO4)	51.0		0.30	mg/L		19-SEP-20	R5231080
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Total	0.0004	<DL	0.0020	mg/L		22-SEP-20	R5232783

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-8 SW21A							
Sampled By: SF on 15-SEP-20 @ 11:35							
Matrix: Water							
Cyanides							
Cyanide, Free	0.0002	<DL	0.0020	mg/L		22-SEP-20	R5232783
Organic / Inorganic Carbon							
Dissolved Organic Carbon	18.5	DLM	5.0	mg/L	18-SEP-20	30-SEP-20	R5243384
Total Organic Carbon	29.1	DLM	5.0	mg/L		01-OCT-20	R5244055
Total Metals							
Aluminum (Al)-Total	0.352		0.0050	mg/L		22-SEP-20	R5232889
Antimony (Sb)-Total	0.000155	<DL	0.00060	mg/L		22-SEP-20	R5232889
Arsenic (As)-Total	0.00184	<T	0.0010	mg/L		22-SEP-20	R5232889
Barium (Ba)-Total	0.0392		0.010	mg/L		22-SEP-20	R5232889
Beryllium (Be)-Total	0.0000091	<DL	0.0010	mg/L		22-SEP-20	R5232889
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		22-SEP-20	R5232889
Boron (B)-Total	0.0275	<DL	0.050	mg/L		22-SEP-20	R5232889
Cadmium (Cd)-Total	0.000011	<DL	0.000017	mg/L		22-SEP-20	R5232889
Calcium (Ca)-Total	56.5		0.20	mg/L		22-SEP-20	R5232889
Cesium (Cs)-Total	0.0000385		0.000010	mg/L		22-SEP-20	R5232889
Chromium (Cr)-Total	0.00106		0.0010	mg/L		22-SEP-20	R5232889
Cobalt (Co)-Total	0.000415	<DL	0.00050	mg/L		22-SEP-20	R5232889
Copper (Cu)-Total	0.00230	<T	0.0010	mg/L		22-SEP-20	R5232889
Iron (Fe)-Total	0.394		0.020	mg/L		22-SEP-20	R5232889
Lead (Pb)-Total	0.00020	<T	0.000050	mg/L		22-SEP-20	R5232889
Lithium (Li)-Total	0.0182	<DL	0.050	mg/L		22-SEP-20	R5232889
Magnesium (Mg)-Total	27.3		0.020	mg/L		22-SEP-20	R5232889
Manganese (Mn)-Total	0.0936		0.0010	mg/L		22-SEP-20	R5232889
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		23-SEP-20	R5232985
Molybdenum (Mo)-Total	0.00152	<T	0.0010	mg/L		22-SEP-20	R5232889
Nickel (Ni)-Total	0.00218	<T	0.0020	mg/L		22-SEP-20	R5232889
Phosphorus (P)-Total	0.055		0.050	mg/L		22-SEP-20	R5232889
Potassium (K)-Total	15.6		0.50	mg/L		22-SEP-20	R5232889
Rubidium (Rb)-Total	0.0156		0.00020	mg/L		22-SEP-20	R5232889
Selenium (Se)-Total	0.000245	<T	0.000050	mg/L		22-SEP-20	R5232889
Silicon (Si)-Total	5.50		0.10	mg/L		22-SEP-20	R5232889
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		22-SEP-20	R5232889
Sodium (Na)-Total	14.8		0.10	mg/L		22-SEP-20	R5232889
Strontium (Sr)-Total	0.174		0.0010	mg/L		22-SEP-20	R5232889
Sulfur (S)-Total	17.8		0.50	mg/L		22-SEP-20	R5232889
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		22-SEP-20	R5232889
Thallium (Tl)-Total	0.000005	<DL	0.00030	mg/L		22-SEP-20	R5232889
Thorium (Th)-Total	0.00006	<DL	0.00010	mg/L		22-SEP-20	R5232889
Tin (Sn)-Total	0.00027	<DL	0.0010	mg/L		22-SEP-20	R5232889
Titanium (Ti)-Total	0.0132		0.0020	mg/L		22-SEP-20	R5232889
Tungsten (W)-Total	0.00002	<DL	0.010	mg/L		22-SEP-20	R5232889

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-8 SW21A							
Sampled By: SF on 15-SEP-20 @ 11:35							
Matrix: Water							
Total Metals							
Uranium (U)-Total	0.00251	<DL	0.0050	mg/L		22-SEP-20	R5232889
Vanadium (V)-Total	0.00295	<T	0.0010	mg/L		22-SEP-20	R5232889
Zinc (Zn)-Total	0.0070	<T	0.0030	mg/L		22-SEP-20	R5232889
Zirconium (Zr)-Total	0.000484	<DL	0.0010	mg/L		22-SEP-20	R5232889
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-SEP-20	R5232822
Aluminum (Al)-Dissolved	0.0114	<T	0.0050	mg/L		24-SEP-20	R5236157
Antimony (Sb)-Dissolved	0.000165	<DL	0.00060	mg/L		24-SEP-20	R5236157
Arsenic (As)-Dissolved	0.00184	<T	0.0010	mg/L		24-SEP-20	R5236157
Barium (Ba)-Dissolved	0.0375		0.010	mg/L		24-SEP-20	R5236157
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		24-SEP-20	R5236157
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		24-SEP-20	R5236157
Boron (B)-Dissolved	0.0295	<DL	0.050	mg/L		24-SEP-20	R5236157
Cadmium (Cd)-Dissolved	0.0000030	<DL	0.000017	mg/L		24-SEP-20	R5236157
Calcium (Ca)-Dissolved	60.7		0.20	mg/L		24-SEP-20	R5236157
Cesium (Cs)-Dissolved	0.0000040	<DL	0.000010	mg/L		24-SEP-20	R5236157
Chromium (Cr)-Dissolved	0.00042	<DL	0.0010	mg/L		24-SEP-20	R5236157
Cobalt (Co)-Dissolved	0.000256	<DL	0.00050	mg/L		24-SEP-20	R5236157
Copper (Cu)-Dissolved	0.00190	<T	0.0010	mg/L		24-SEP-20	R5236157
Iron (Fe)-Dissolved	0.0460		0.020	mg/L		24-SEP-20	R5236157
Lead (Pb)-Dissolved	0.00003	<DL	0.000050	mg/L		24-SEP-20	R5236157
Lithium (Li)-Dissolved	0.0176	<DL	0.050	mg/L		24-SEP-20	R5236157
Magnesium (Mg)-Dissolved	29.0		0.020	mg/L		24-SEP-20	R5236157
Manganese (Mn)-Dissolved	0.0835		0.0010	mg/L		24-SEP-20	R5236157
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5232984
Molybdenum (Mo)-Dissolved	0.00164	<T	0.0010	mg/L		24-SEP-20	R5236157
Nickel (Ni)-Dissolved	0.00186	<DL	0.0020	mg/L		24-SEP-20	R5236157
Phosphorus (P)-Dissolved	0.035	<DL	0.050	mg/L		24-SEP-20	R5236157
Potassium (K)-Dissolved	15.8		0.50	mg/L		24-SEP-20	R5236157
Rubidium (Rb)-Dissolved	0.0149		0.00020	mg/L		24-SEP-20	R5236157
Selenium (Se)-Dissolved	0.000255	<T	0.000050	mg/L		24-SEP-20	R5236157
Silicon (Si)-Dissolved	5.28		0.050	mg/L		24-SEP-20	R5236157
Silver (Ag)-Dissolved	0.0000020	<DL	0.00010	mg/L		24-SEP-20	R5236157
Sodium (Na)-Dissolved	15.6		0.10	mg/L		24-SEP-20	R5236157
Strontium (Sr)-Dissolved	0.186		0.0010	mg/L		24-SEP-20	R5236157
Sulfur (S)-Dissolved	18.6		0.50	mg/L		24-SEP-20	R5236157
Tellurium (Te)-Dissolved	0.00002	<DL	0.0010	mg/L		24-SEP-20	R5236157
Thallium (Tl)-Dissolved	0.000002	<DL	0.00030	mg/L		24-SEP-20	R5236157
Thorium (Th)-Dissolved	0.00001	<DL	0.00010	mg/L		24-SEP-20	R5236157
Tin (Sn)-Dissolved	0.000240	<DL	0.0010	mg/L		24-SEP-20	R5236157
Titanium (Ti)-Dissolved	0.00100	<DL	0.0020	mg/L		24-SEP-20	R5236157

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-8 SW21A Sampled By: SF on 15-SEP-20 @ 11:35 Matrix: Water							
Dissolved Metals							
Tungsten (W)-Dissolved	0.000024	<DL	0.010	mg/L		24-SEP-20	R5236157
Uranium (U)-Dissolved	0.00254	<DL	0.0050	mg/L		24-SEP-20	R5236157
Vanadium (V)-Dissolved	0.00214	<T	0.0010	mg/L		24-SEP-20	R5236157
Zinc (Zn)-Dissolved	0.0046	<T	0.0030	mg/L		24-SEP-20	R5236157
Zirconium (Zr)-Dissolved	0.000300	<DL	0.0010	mg/L		24-SEP-20	R5236157
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		18-SEP-20	R5232781
Chemical Oxygen Demand	65		20	mg/L	18-SEP-20	24-SEP-20	R5235139
Oil and Grease, Total	2.8		1.0	mg/L	22-SEP-20	23-SEP-20	R5232627
L2504998-9 SW10 Sampled By: SF on 15-SEP-20 @ 14:10 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	10.56		0	mg/L		21-SEP-20	R5231712
pH, Client Supplied	7.02		0.10	pH		21-SEP-20	R5231712
Temperature, Client Supplied	14.54		0	Degree C		21-SEP-20	R5231712
Physical Tests							
Color, True	62.3		2.0	CU		19-SEP-20	R5230893
Conductivity (EC)	409		1.0	uS/cm		18-SEP-20	R5230813
Hardness (as CaCO3)	199		0.51	mg/L		25-SEP-20	
pH	8.08		0.10	pH		18-SEP-20	R5230813
Total Suspended Solids	6.0		3.0	mg/L		20-SEP-20	R5231939
Total Dissolved Solids	262		20	mg/L		20-SEP-20	R5231948
Turbidity	7.31		0.10	NTU		18-SEP-20	R5230797
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		19-SEP-20	R5231130
Alkalinity, Total (as CaCO3)	210		2.0	mg/L		18-SEP-20	R5230813
Ammonia, Total (as N)	0.024	<T	0.0050	mg/L		24-SEP-20	R5236079
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		25-SEP-20	
Chloride (Cl)	17.7		0.10	mg/L	18-SEP-20	19-SEP-20	R5231080
Fluoride (F)	0.083		0.020	mg/L	18-SEP-20	19-SEP-20	R5231080
Nitrate (as N)	<0.002	<W	0.020	mg/L		19-SEP-20	R5231080
Nitrite (as N)	<0.001	<W	0.010	mg/L		19-SEP-20	R5231080
Total Kjeldahl Nitrogen	1.18		0.050	mg/L	18-SEP-20	22-SEP-20	R5232813
Orthophosphate-Dissolved (as P)	0.0035		0.0030	mg/L	18-SEP-20	19-SEP-20	R5230997
Sulfate (SO4)	1.95	<T	0.30	mg/L		19-SEP-20	R5231080
Cyanides							
Cyanide, Weak Acid Diss	0.0008	<DL	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Total	0.0006	<DL	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Free	0.0005	<DL	0.0020	mg/L		22-SEP-20	R5232783
Organic / Inorganic Carbon							
Dissolved Organic Carbon	23.4	DLM	5.0	mg/L	18-SEP-20	30-SEP-20	R5243384

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-9 SW10							
Sampled By: SF on 15-SEP-20 @ 14:10							
Matrix: Water							
Organic / Inorganic Carbon							
Total Organic Carbon	36.8	DLM	5.0	mg/L		01-OCT-20	R5244055
Total Metals							
Aluminum (Al)-Total	0.250		0.0050	mg/L		22-SEP-20	R5232889
Antimony (Sb)-Total	0.000065	<DL	0.00060	mg/L		22-SEP-20	R5232889
Arsenic (As)-Total	0.00142	<T	0.0010	mg/L		22-SEP-20	R5232889
Barium (Ba)-Total	0.0229		0.010	mg/L		22-SEP-20	R5232889
Beryllium (Be)-Total	0.0000221	<DL	0.0010	mg/L		22-SEP-20	R5232889
Bismuth (Bi)-Total	0.00003	<DL	0.0010	mg/L		22-SEP-20	R5232889
Boron (B)-Total	0.0220	<DL	0.050	mg/L		22-SEP-20	R5232889
Cadmium (Cd)-Total	0.000012	<DL	0.000017	mg/L		22-SEP-20	R5232889
Calcium (Ca)-Total	44.3		0.20	mg/L		22-SEP-20	R5232889
Cesium (Cs)-Total	0.0000375		0.000010	mg/L		22-SEP-20	R5232889
Chromium (Cr)-Total	0.00058	<DL	0.0010	mg/L		22-SEP-20	R5232889
Cobalt (Co)-Total	0.000295	<DL	0.00050	mg/L		22-SEP-20	R5232889
Copper (Cu)-Total	0.00086	<DL	0.0010	mg/L		22-SEP-20	R5232889
Iron (Fe)-Total	0.343		0.020	mg/L		22-SEP-20	R5232889
Lead (Pb)-Total	0.00020	<T	0.000050	mg/L		22-SEP-20	R5232889
Lithium (Li)-Total	0.0094	<DL	0.050	mg/L		22-SEP-20	R5232889
Magnesium (Mg)-Total	20.0		0.020	mg/L		22-SEP-20	R5232889
Manganese (Mn)-Total	0.0710		0.0010	mg/L		22-SEP-20	R5232889
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5232985
Molybdenum (Mo)-Total	0.000480	<DL	0.0010	mg/L		22-SEP-20	R5232889
Nickel (Ni)-Total	0.00174	<DL	0.0020	mg/L		22-SEP-20	R5232889
Phosphorus (P)-Total	0.030	<DL	0.050	mg/L		22-SEP-20	R5232889
Potassium (K)-Total	1.87		0.50	mg/L		22-SEP-20	R5232889
Rubidium (Rb)-Total	0.00206		0.00020	mg/L		22-SEP-20	R5232889
Selenium (Se)-Total	0.000115	<T	0.000050	mg/L		22-SEP-20	R5232889
Silicon (Si)-Total	2.55		0.10	mg/L		22-SEP-20	R5232889
Silver (Ag)-Total	0.000004	<DL	0.00010	mg/L		22-SEP-20	R5232889
Sodium (Na)-Total	9.82		0.10	mg/L		22-SEP-20	R5232889
Strontium (Sr)-Total	0.144		0.0010	mg/L		22-SEP-20	R5232889
Sulfur (S)-Total	1.2		0.50	mg/L		22-SEP-20	R5232889
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		22-SEP-20	R5232889
Thallium (Tl)-Total	0.000020	<DL	0.00030	mg/L		22-SEP-20	R5232889
Thorium (Th)-Total	0.00004	<DL	0.00010	mg/L		22-SEP-20	R5232889
Tin (Sn)-Total	0.00005	<DL	0.0010	mg/L		22-SEP-20	R5232889
Titanium (Ti)-Total	0.00789		0.0020	mg/L		22-SEP-20	R5232889
Tungsten (W)-Total	0.00001	<DL	0.010	mg/L		22-SEP-20	R5232889
Uranium (U)-Total	0.000691	<DL	0.0050	mg/L		22-SEP-20	R5232889
Vanadium (V)-Total	0.00105	<T	0.0010	mg/L		22-SEP-20	R5232889
Zinc (Zn)-Total	0.0020	<DL	0.0030	mg/L		22-SEP-20	R5232889

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-9 SW10							
Sampled By: SF on 15-SEP-20 @ 14:10							
Matrix: Water							
Total Metals							
Zirconium (Zr)-Total	0.000342	<DL	0.0010	mg/L		22-SEP-20	R5232889
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-SEP-20	R5232822
Aluminum (Al)-Dissolved	0.0080	<T	0.0050	mg/L		24-SEP-20	R5236157
Antimony (Sb)-Dissolved	0.000050	<DL	0.00060	mg/L		24-SEP-20	R5236157
Arsenic (As)-Dissolved	0.00134	<T	0.0010	mg/L		24-SEP-20	R5236157
Barium (Ba)-Dissolved	0.0206		0.010	mg/L		24-SEP-20	R5236157
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		24-SEP-20	R5236157
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		24-SEP-20	R5236157
Boron (B)-Dissolved	0.0240	<DL	0.050	mg/L		24-SEP-20	R5236157
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		24-SEP-20	R5236157
Calcium (Ca)-Dissolved	46.5		0.20	mg/L		24-SEP-20	R5236157
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		24-SEP-20	R5236157
Chromium (Cr)-Dissolved	0.00013	<DL	0.0010	mg/L		24-SEP-20	R5236157
Cobalt (Co)-Dissolved	0.000180	<DL	0.00050	mg/L		24-SEP-20	R5236157
Copper (Cu)-Dissolved	0.00048	<DL	0.0010	mg/L		24-SEP-20	R5236157
Iron (Fe)-Dissolved	0.0995		0.020	mg/L		24-SEP-20	R5236157
Lead (Pb)-Dissolved	0.00004	<DL	0.000050	mg/L		24-SEP-20	R5236157
Lithium (Li)-Dissolved	0.0092	<DL	0.050	mg/L		24-SEP-20	R5236157
Magnesium (Mg)-Dissolved	20.1		0.020	mg/L		24-SEP-20	R5236157
Manganese (Mn)-Dissolved	0.0606		0.0010	mg/L		24-SEP-20	R5236157
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5232984
Molybdenum (Mo)-Dissolved	0.000426	<DL	0.0010	mg/L		24-SEP-20	R5236157
Nickel (Ni)-Dissolved	0.00140	<DL	0.0020	mg/L		24-SEP-20	R5236157
Phosphorus (P)-Dissolved	0.015	<DL	0.050	mg/L		24-SEP-20	R5236157
Potassium (K)-Dissolved	1.80		0.50	mg/L		24-SEP-20	R5236157
Rubidium (Rb)-Dissolved	0.00142		0.00020	mg/L		24-SEP-20	R5236157
Selenium (Se)-Dissolved	0.000175	<T	0.000050	mg/L		24-SEP-20	R5236157
Silicon (Si)-Dissolved	2.25		0.050	mg/L		24-SEP-20	R5236157
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		24-SEP-20	R5236157
Sodium (Na)-Dissolved	10.1		0.10	mg/L		24-SEP-20	R5236157
Strontium (Sr)-Dissolved	0.153		0.0010	mg/L		24-SEP-20	R5236157
Sulfur (S)-Dissolved	1.2		0.50	mg/L		24-SEP-20	R5236157
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		24-SEP-20	R5236157
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		24-SEP-20	R5236157
Thorium (Th)-Dissolved	0.00002	<DL	0.00010	mg/L		24-SEP-20	R5236157
Tin (Sn)-Dissolved	0.000015	<DL	0.0010	mg/L		24-SEP-20	R5236157
Titanium (Ti)-Dissolved	0.00090	<DL	0.0020	mg/L		24-SEP-20	R5236157
Tungsten (W)-Dissolved	0.000002	<DL	0.010	mg/L		24-SEP-20	R5236157
Uranium (U)-Dissolved	0.000691	<DL	0.0050	mg/L		24-SEP-20	R5236157
Vanadium (V)-Dissolved	0.00050	<DL	0.0010	mg/L		24-SEP-20	R5236157

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-9 SW10 Sampled By: SF on 15-SEP-20 @ 14:10 Matrix: Water							
Dissolved Metals							
Zinc (Zn)-Dissolved	0.0006	<DL	0.0030	mg/L		24-SEP-20	R5236157
Zirconium (Zr)-Dissolved	0.000216	<DL	0.0010	mg/L		24-SEP-20	R5236157
Aggregate Organics							
Biochemical Oxygen Demand	2.1		2.0	mg/L		18-SEP-20	R5232781
Chemical Oxygen Demand	77		20	mg/L	18-SEP-20	24-SEP-20	R5235139
Oil and Grease, Total	1.0		1.0	mg/L	22-SEP-20	23-SEP-20	R5232627
L2504998-10 FIELD BLANK - SURFACE WATER Sampled By: SF on 15-SEP-20 @ 11:50 Matrix: Water							
Physical Tests							
Color, True	<2.0		2.0	CU		19-SEP-20	R5230893
Conductivity (EC)	<0.2	<W	1.0	uS/cm		18-SEP-20	R5230813
Hardness (as CaCO3)	<0.51		0.51	mg/L		25-SEP-20	
pH	5.59		0.10	pH		18-SEP-20	R5230813
Total Suspended Solids	<0.5	<W	3.0	mg/L		20-SEP-20	R5231939
Total Dissolved Solids	<2	<W	10	mg/L		20-SEP-20	R5231948
Turbidity	<0.10		0.10	NTU		18-SEP-20	R5230797
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		19-SEP-20	R5231130
Alkalinity, Total (as CaCO3)	0.6	<DL	2.0	mg/L		18-SEP-20	R5230813
Ammonia, Total (as N)	<0.002	<W	0.0050	mg/L		24-SEP-20	R5236079
Chloride (Cl)	<0.10		0.10	mg/L	18-SEP-20	19-SEP-20	R5231080
Fluoride (F)	<0.020		0.020	mg/L	18-SEP-20	19-SEP-20	R5231080
Nitrate (as N)	<0.002	<W	0.020	mg/L		19-SEP-20	R5231080
Nitrite (as N)	<0.001	<W	0.010	mg/L		19-SEP-20	R5231080
Total Kjeldahl Nitrogen	<0.050		0.050	mg/L	18-SEP-20	22-SEP-20	R5232813
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	18-SEP-20	19-SEP-20	R5230997
Sulfate (SO4)	<0.05	<W	0.30	mg/L		19-SEP-20	R5231080
Cyanides							
Cyanide, Weak Acid Diss	0.0001	<DL	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Total	<0.0002	<W	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Free	0.0002	<DL	0.0020	mg/L		22-SEP-20	R5232783
Organic / Inorganic Carbon							
Dissolved Organic Carbon	<0.50		0.50	mg/L	15-SEP-20	30-SEP-20	R5243384
Total Organic Carbon	<0.50		0.50	mg/L		01-OCT-20	R5244055
Total Metals							
Aluminum (Al)-Total	0.0006	<DL	0.0050	mg/L		22-SEP-20	R5232889
Antimony (Sb)-Total	<0.000005	<W	0.00060	mg/L		22-SEP-20	R5232889
Arsenic (As)-Total	0.00001	<DL	0.0010	mg/L		22-SEP-20	R5232889
Barium (Ba)-Total	0.00001	<DL	0.010	mg/L		22-SEP-20	R5232889
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		22-SEP-20	R5232889
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		22-SEP-20	R5232889

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-10 FIELD BLANK - SURFACE WATER							
Sampled By: SF on 15-SEP-20 @ 11:50							
Matrix: Water							
Total Metals							
Boron (B)-Total	0.0055	<DL	0.050	mg/L		22-SEP-20	R5232889
Cadmium (Cd)-Total	0.000001	<DL	0.000017	mg/L		22-SEP-20	R5232889
Calcium (Ca)-Total	0.012	<DL	0.20	mg/L		22-SEP-20	R5232889
Cesium (Cs)-Total	<0.0000005	<W	0.000010	mg/L		22-SEP-20	R5232889
Chromium (Cr)-Total	0.00008	<DL	0.0010	mg/L		22-SEP-20	R5232889
Cobalt (Co)-Total	0.000005	<DL	0.00050	mg/L		22-SEP-20	R5232889
Copper (Cu)-Total	0.00004	<DL	0.0010	mg/L		22-SEP-20	R5232889
Iron (Fe)-Total	0.0005	<DL	0.020	mg/L		22-SEP-20	R5232889
Lead (Pb)-Total	<0.00001	<W	0.000050	mg/L		22-SEP-20	R5232889
Lithium (Li)-Total	<0.0002	<W	0.050	mg/L		22-SEP-20	R5232889
Magnesium (Mg)-Total	0.0004	<DL	0.020	mg/L		22-SEP-20	R5232889
Manganese (Mn)-Total	<0.0002	<W	0.0010	mg/L		22-SEP-20	R5232889
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5232985
Molybdenum (Mo)-Total	<0.000005	<W	0.0010	mg/L		22-SEP-20	R5232889
Nickel (Ni)-Total	<0.00002	<W	0.0020	mg/L		22-SEP-20	R5232889
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		22-SEP-20	R5232889
Potassium (K)-Total	0.02	<DL	0.50	mg/L		22-SEP-20	R5232889
Rubidium (Rb)-Total	<0.000002	<W	0.00020	mg/L		22-SEP-20	R5232889
Selenium (Se)-Total	<0.000005	<W	0.000050	mg/L		22-SEP-20	R5232889
Silicon (Si)-Total	0.016	<DL	0.10	mg/L		22-SEP-20	R5232889
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		22-SEP-20	R5232889
Sodium (Na)-Total	0.035	<DL	0.10	mg/L		22-SEP-20	R5232889
Strontium (Sr)-Total	0.000020	<DL	0.0010	mg/L		22-SEP-20	R5232889
Sulfur (S)-Total	<0.2	<W	0.50	mg/L		22-SEP-20	R5232889
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		22-SEP-20	R5232889
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		22-SEP-20	R5232889
Thorium (Th)-Total	<0.00001	<W	0.00010	mg/L		22-SEP-20	R5232889
Tin (Sn)-Total	0.00005	<DL	0.0010	mg/L		22-SEP-20	R5232889
Titanium (Ti)-Total	0.00003	<DL	0.0020	mg/L		22-SEP-20	R5232889
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		22-SEP-20	R5232889
Uranium (U)-Total	<0.0000005	<W	0.0050	mg/L		22-SEP-20	R5232889
Vanadium (V)-Total	0.00010	<DL	0.0010	mg/L		22-SEP-20	R5232889
Zinc (Zn)-Total	<0.0005	<W	0.0030	mg/L		22-SEP-20	R5232889
Zirconium (Zr)-Total	<0.000002	<W	0.0010	mg/L		22-SEP-20	R5232889
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-SEP-20	R5232822
Aluminum (Al)-Dissolved	0.0022	<DL	0.0050	mg/L		24-SEP-20	R5236157
Antimony (Sb)-Dissolved	<0.000005	<W	0.00060	mg/L		24-SEP-20	R5236157
Arsenic (As)-Dissolved	<0.0000002	<W	0.0010	mg/L		24-SEP-20	R5236157
Barium (Ba)-Dissolved	0.000030	<DL	0.010	mg/L		24-SEP-20	R5236157
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		24-SEP-20	R5236157

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-10 FIELD BLANK - SURFACE WATER Sampled By: SF on 15-SEP-20 @ 11:50 Matrix: Water							
Dissolved Metals							
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		24-SEP-20	R5236157
Boron (B)-Dissolved	0.0060	<DL	0.050	mg/L		24-SEP-20	R5236157
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		24-SEP-20	R5236157
Calcium (Ca)-Dissolved	0.014	<DL	0.20	mg/L		24-SEP-20	R5236157
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		24-SEP-20	R5236157
Chromium (Cr)-Dissolved	0.00010	<DL	0.0010	mg/L		24-SEP-20	R5236157
Cobalt (Co)-Dissolved	0.000002	<DL	0.00050	mg/L		24-SEP-20	R5236157
Copper (Cu)-Dissolved	<0.00002	<W	0.0010	mg/L		24-SEP-20	R5236157
Iron (Fe)-Dissolved	0.0015	<DL	0.020	mg/L		24-SEP-20	R5236157
Lead (Pb)-Dissolved	<0.00001	<W	0.000050	mg/L		24-SEP-20	R5236157
Lithium (Li)-Dissolved	<0.0002	<W	0.050	mg/L		24-SEP-20	R5236157
Magnesium (Mg)-Dissolved	0.0010	<DL	0.020	mg/L		24-SEP-20	R5236157
Manganese (Mn)-Dissolved	<0.00002	<W	0.0010	mg/L		24-SEP-20	R5236157
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5232984
Molybdenum (Mo)-Dissolved	0.000002	<DL	0.0010	mg/L		24-SEP-20	R5236157
Nickel (Ni)-Dissolved	<0.00002	<W	0.0020	mg/L		24-SEP-20	R5236157
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		24-SEP-20	R5236157
Potassium (K)-Dissolved	<0.01	<W	0.50	mg/L		24-SEP-20	R5236157
Rubidium (Rb)-Dissolved	<0.000002	<W	0.00020	mg/L		24-SEP-20	R5236157
Selenium (Se)-Dissolved	<0.000005	<W	0.000050	mg/L		24-SEP-20	R5236157
Silicon (Si)-Dissolved	0.040	<DL	0.050	mg/L		24-SEP-20	R5236157
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		24-SEP-20	R5236157
Sodium (Na)-Dissolved	0.030	<DL	0.10	mg/L		24-SEP-20	R5236157
Strontium (Sr)-Dissolved	0.00002	<DL	0.0010	mg/L		24-SEP-20	R5236157
Sulfur (S)-Dissolved	<0.2	<W	0.50	mg/L		24-SEP-20	R5236157
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		24-SEP-20	R5236157
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		24-SEP-20	R5236157
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		24-SEP-20	R5236157
Tin (Sn)-Dissolved	0.000040	<DL	0.0010	mg/L		24-SEP-20	R5236157
Titanium (Ti)-Dissolved	<0.00002	<W	0.0020	mg/L		24-SEP-20	R5236157
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		24-SEP-20	R5236157
Uranium (U)-Dissolved	<0.0000005	<W	0.0050	mg/L		24-SEP-20	R5236157
Vanadium (V)-Dissolved	<0.00002	<W	0.0010	mg/L		24-SEP-20	R5236157
Zinc (Zn)-Dissolved	0.0004	<DL	0.0030	mg/L		24-SEP-20	R5236157
Zirconium (Zr)-Dissolved	<0.000002	<W	0.0010	mg/L		24-SEP-20	R5236157
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		18-SEP-20	R5232781
Chemical Oxygen Demand	<20		20	mg/L	18-SEP-20	24-SEP-20	R5235139
Oil and Grease, Total	0.8	<DL	1.0	mg/L	22-SEP-20	23-SEP-20	R5232627
L2504998-11 SW17 Sampled By: SF on 15-SEP-20 @ 11:00 Matrix: Water							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-11 SW17							
Sampled By: SF on 15-SEP-20 @ 11:00							
Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	8.9		0	mg/L		21-SEP-20	R5231712
pH, Client Supplied	6.62		0.10	pH		21-SEP-20	R5231712
Temperature, Client Supplied	16.22		0	Degree C		21-SEP-20	R5231712
Physical Tests							
Color, True	65.2		2.0	CU		19-SEP-20	R5230893
Conductivity (EC)	101		1.0	uS/cm		18-SEP-20	R5230813
Hardness (as CaCO3)	43.0		0.51	mg/L		25-SEP-20	
pH	7.68		0.10	pH		18-SEP-20	R5230813
Total Suspended Solids	2.5	<DL	3.0	mg/L		20-SEP-20	R5231939
Total Dissolved Solids	88		13	mg/L		20-SEP-20	R5231948
Turbidity	4.34		0.10	NTU		18-SEP-20	R5230797
Anions and Nutrients							
Acidity (as CaCO3)	2.0		2.0	mg/L		19-SEP-20	R5231130
Alkalinity, Total (as CaCO3)	42.6		2.0	mg/L		18-SEP-20	R5230813
Ammonia, Total (as N)	0.006	<T	0.0050	mg/L		24-SEP-20	R5236079
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		25-SEP-20	
Chloride (Cl)	1.59		0.10	mg/L	18-SEP-20	19-SEP-20	R5231080
Fluoride (F)	<0.020		0.020	mg/L	18-SEP-20	19-SEP-20	R5231080
Nitrate (as N)	0.004	<DL	0.020	mg/L		19-SEP-20	R5231080
Nitrite (as N)	<0.001	<W	0.010	mg/L		19-SEP-20	R5231080
Total Kjeldahl Nitrogen	0.624		0.050	mg/L	18-SEP-20	22-SEP-20	R5232813
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	18-SEP-20	18-SEP-20	R5230997
Sulfate (SO4)	2.40	<T	0.30	mg/L		19-SEP-20	R5231080
Cyanides							
Cyanide, Weak Acid Diss	0.0002	<DL	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Total	<0.0002	<W	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Free	0.0003	<DL	0.0020	mg/L		22-SEP-20	R5232783
Organic / Inorganic Carbon							
Dissolved Organic Carbon	13.0	DLM	5.0	mg/L	18-SEP-20	30-SEP-20	R5243384
Total Organic Carbon	21.7	DLM	5.0	mg/L		01-OCT-20	R5244055
Total Metals							
Aluminum (Al)-Total	0.125		0.0050	mg/L		22-SEP-20	R5232889
Antimony (Sb)-Total	0.000045	<DL	0.00060	mg/L		22-SEP-20	R5232889
Arsenic (As)-Total	0.00068	<DL	0.0010	mg/L		22-SEP-20	R5232889
Barium (Ba)-Total	0.0115		0.010	mg/L		22-SEP-20	R5232889
Beryllium (Be)-Total	0.0000052	<DL	0.0010	mg/L		22-SEP-20	R5232889
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		22-SEP-20	R5232889
Boron (B)-Total	0.0065	<DL	0.050	mg/L		22-SEP-20	R5232889
Cadmium (Cd)-Total	0.000011	<DL	0.000017	mg/L		22-SEP-20	R5232889
Calcium (Ca)-Total	11.5		0.20	mg/L		22-SEP-20	R5232889
Cesium (Cs)-Total	0.0000180		0.000010	mg/L		22-SEP-20	R5232889
Chromium (Cr)-Total	0.00048	<DL	0.0010	mg/L		22-SEP-20	R5232889

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-11 SW17							
Sampled By: SF on 15-SEP-20 @ 11:00							
Matrix: Water							
Total Metals							
Cobalt (Co)-Total	0.000100	<DL	0.00050	mg/L		22-SEP-20	R5232889
Copper (Cu)-Total	0.00106	<T	0.0010	mg/L		22-SEP-20	R5232889
Iron (Fe)-Total	0.249		0.020	mg/L		22-SEP-20	R5232889
Lead (Pb)-Total	0.00013	<T	0.000050	mg/L		22-SEP-20	R5232889
Lithium (Li)-Total	0.0014	<DL	0.050	mg/L		22-SEP-20	R5232889
Magnesium (Mg)-Total	3.77		0.020	mg/L		22-SEP-20	R5232889
Manganese (Mn)-Total	0.0284		0.0010	mg/L		22-SEP-20	R5232889
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5232985
Molybdenum (Mo)-Total	0.000235	<DL	0.0010	mg/L		22-SEP-20	R5232889
Nickel (Ni)-Total	0.00084	<DL	0.0020	mg/L		22-SEP-20	R5232889
Phosphorus (P)-Total	0.005	<DL	0.050	mg/L		22-SEP-20	R5232889
Potassium (K)-Total	0.97		0.50	mg/L		22-SEP-20	R5232889
Rubidium (Rb)-Total	0.00208		0.00020	mg/L		22-SEP-20	R5232889
Selenium (Se)-Total	0.000115	<T	0.000050	mg/L		22-SEP-20	R5232889
Silicon (Si)-Total	2.40		0.10	mg/L		22-SEP-20	R5232889
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		22-SEP-20	R5232889
Sodium (Na)-Total	4.41		0.10	mg/L		22-SEP-20	R5232889
Strontium (Sr)-Total	0.0299		0.0010	mg/L		22-SEP-20	R5232889
Sulfur (S)-Total	1.8		0.50	mg/L		22-SEP-20	R5232889
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		22-SEP-20	R5232889
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		22-SEP-20	R5232889
Thorium (Th)-Total	0.00004	<DL	0.00010	mg/L		22-SEP-20	R5232889
Tin (Sn)-Total	0.00007	<DL	0.0010	mg/L		22-SEP-20	R5232889
Titanium (Ti)-Total	0.00570	<DL	0.0060	mg/L		22-SEP-20	R5232889
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		22-SEP-20	R5232889
Uranium (U)-Total	0.000101	<DL	0.0050	mg/L		22-SEP-20	R5232889
Vanadium (V)-Total	0.00070	<DL	0.0010	mg/L		22-SEP-20	R5232889
Zinc (Zn)-Total	<0.0005	<W	0.0030	mg/L		22-SEP-20	R5232889
Zirconium (Zr)-Total	0.000250	<DL	0.0010	mg/L		22-SEP-20	R5232889
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-SEP-20	R5232822
Aluminum (Al)-Dissolved	0.0248	<T	0.0050	mg/L		24-SEP-20	R5236157
Antimony (Sb)-Dissolved	0.000045	<DL	0.00060	mg/L		24-SEP-20	R5236157
Arsenic (As)-Dissolved	0.000649	<DL	0.0010	mg/L		24-SEP-20	R5236157
Barium (Ba)-Dissolved	0.0103		0.010	mg/L		24-SEP-20	R5236157
Beryllium (Be)-Dissolved	0.000004	<DL	0.0010	mg/L		24-SEP-20	R5236157
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		24-SEP-20	R5236157
Boron (B)-Dissolved	0.0065	<DL	0.050	mg/L		24-SEP-20	R5236157
Cadmium (Cd)-Dissolved	0.0000030	<DL	0.000017	mg/L		24-SEP-20	R5236157
Calcium (Ca)-Dissolved	11.0		0.20	mg/L		24-SEP-20	R5236157
Cesium (Cs)-Dissolved	0.0000030	<DL	0.000010	mg/L		24-SEP-20	R5236157

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-11 SW17 Sampled By: SF on 15-SEP-20 @ 11:00 Matrix: Water							
Dissolved Metals							
Chromium (Cr)-Dissolved	0.00020	<DL	0.0010	mg/L		24-SEP-20	R5236157
Cobalt (Co)-Dissolved	0.000038	<DL	0.00050	mg/L		24-SEP-20	R5236157
Copper (Cu)-Dissolved	0.00092	<DL	0.0010	mg/L		24-SEP-20	R5236157
Iron (Fe)-Dissolved	0.147		0.020	mg/L		24-SEP-20	R5236157
Lead (Pb)-Dissolved	0.00006	<T	0.000050	mg/L		24-SEP-20	R5236157
Lithium (Li)-Dissolved	0.0016	<DL	0.050	mg/L		24-SEP-20	R5236157
Magnesium (Mg)-Dissolved	3.78		0.020	mg/L		24-SEP-20	R5236157
Manganese (Mn)-Dissolved	0.0111		0.0010	mg/L		24-SEP-20	R5236157
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5232984
Molybdenum (Mo)-Dissolved	0.000224	<DL	0.0010	mg/L		24-SEP-20	R5236157
Nickel (Ni)-Dissolved	0.00070	<DL	0.0020	mg/L		24-SEP-20	R5236157
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		24-SEP-20	R5236157
Potassium (K)-Dissolved	0.97		0.50	mg/L		24-SEP-20	R5236157
Rubidium (Rb)-Dissolved	0.00192		0.00020	mg/L		24-SEP-20	R5236157
Selenium (Se)-Dissolved	0.000125	<T	0.000050	mg/L		24-SEP-20	R5236157
Silicon (Si)-Dissolved	2.42		0.050	mg/L		24-SEP-20	R5236157
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		24-SEP-20	R5236157
Sodium (Na)-Dissolved	4.50		0.10	mg/L		24-SEP-20	R5236157
Strontium (Sr)-Dissolved	0.0312		0.0010	mg/L		24-SEP-20	R5236157
Sulfur (S)-Dissolved	1.6		0.50	mg/L		24-SEP-20	R5236157
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		24-SEP-20	R5236157
Thallium (Tl)-Dissolved	0.000002	<DL	0.00030	mg/L		24-SEP-20	R5236157
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		24-SEP-20	R5236157
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		24-SEP-20	R5236157
Titanium (Ti)-Dissolved	0.00104	<DL	0.0020	mg/L		24-SEP-20	R5236157
Tungsten (W)-Dissolved	0.000006	<DL	0.010	mg/L		24-SEP-20	R5236157
Uranium (U)-Dissolved	0.0000985	<DL	0.0050	mg/L		24-SEP-20	R5236157
Vanadium (V)-Dissolved	0.00046	<DL	0.0010	mg/L		24-SEP-20	R5236157
Zinc (Zn)-Dissolved	0.0012	<DL	0.0030	mg/L		24-SEP-20	R5236157
Zirconium (Zr)-Dissolved	0.000188	<DL	0.0010	mg/L		24-SEP-20	R5236157
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		18-SEP-20	R5232781
Chemical Oxygen Demand	44		20	mg/L	18-SEP-20	24-SEP-20	R5235139
Oil and Grease, Total	1.0		1.0	mg/L	22-SEP-20	23-SEP-20	R5232627
L2504998-12 SW06 Sampled By: SF on 15-SEP-20 @ 12:00 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	7.9		0	mg/L		21-SEP-20	R5231712
pH, Client Supplied	6.82		0.10	pH		21-SEP-20	R5231712
Temperature, Client Supplied	16.22		0	Degree C		21-SEP-20	R5231712
Physical Tests							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-12 SW06							
Sampled By: SF on 15-SEP-20 @ 12:00							
Matrix: Water							
Physical Tests							
Color, True	65.2		2.0	CU		19-SEP-20	R5230893
Conductivity (EC)	99.8		1.0	uS/cm		18-SEP-20	R5230813
Hardness (as CaCO3)	42.0		0.51	mg/L		25-SEP-20	
pH	7.65		0.10	pH		18-SEP-20	R5230813
Total Suspended Solids	3.0		3.0	mg/L		20-SEP-20	R5231939
Total Dissolved Solids	88		13	mg/L		20-SEP-20	R5231948
Turbidity	3.81		0.10	NTU		18-SEP-20	R5230797
Anions and Nutrients							
Acidity (as CaCO3)	2.8		2.0	mg/L		19-SEP-20	R5231130
Alkalinity, Total (as CaCO3)	46.4		2.0	mg/L		18-SEP-20	R5230813
Ammonia, Total (as N)	0.028	<T	0.0050	mg/L		24-SEP-20	R5236079
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		25-SEP-20	
Chloride (Cl)	2.98		0.10	mg/L	18-SEP-20	19-SEP-20	R5231080
Fluoride (F)	0.048		0.020	mg/L	18-SEP-20	19-SEP-20	R5231080
Nitrate (as N)	<0.002	<W	0.020	mg/L		19-SEP-20	R5231080
Nitrite (as N)	<0.001	<W	0.010	mg/L		19-SEP-20	R5231080
Total Kjeldahl Nitrogen	0.653		0.050	mg/L	18-SEP-20	22-SEP-20	R5232813
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	18-SEP-20	19-SEP-20	R5230997
Sulfate (SO4)	4.55	<T	0.30	mg/L		19-SEP-20	R5231080
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Total	<0.0002	<W	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Free	<0.0001	<W	0.0020	mg/L		22-SEP-20	R5232783
Organic / Inorganic Carbon							
Dissolved Organic Carbon	12.3	DLM	5.0	mg/L	18-SEP-20	30-SEP-20	R5243384
Total Organic Carbon	20.7	DLM	5.0	mg/L		01-OCT-20	R5244055
Total Metals							
Aluminum (Al)-Total	0.128		0.0050	mg/L		22-SEP-20	R5232889
Antimony (Sb)-Total	0.000045	<DL	0.00060	mg/L		22-SEP-20	R5232889
Arsenic (As)-Total	0.00068	<DL	0.0010	mg/L		22-SEP-20	R5232889
Barium (Ba)-Total	0.0116		0.010	mg/L		22-SEP-20	R5232889
Beryllium (Be)-Total	0.0000039	<DL	0.0010	mg/L		22-SEP-20	R5232889
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		22-SEP-20	R5232889
Boron (B)-Total	0.0065	<DL	0.050	mg/L		22-SEP-20	R5232889
Cadmium (Cd)-Total	0.000007	<DL	0.000017	mg/L		22-SEP-20	R5232889
Calcium (Ca)-Total	11.4		0.20	mg/L		22-SEP-20	R5232889
Cesium (Cs)-Total	0.0000180		0.000010	mg/L		22-SEP-20	R5232889
Chromium (Cr)-Total	0.00044	<DL	0.0010	mg/L		22-SEP-20	R5232889
Cobalt (Co)-Total	0.000105	<DL	0.00050	mg/L		22-SEP-20	R5232889
Copper (Cu)-Total	0.00108	<T	0.0010	mg/L		22-SEP-20	R5232889
Iron (Fe)-Total	0.243		0.020	mg/L		22-SEP-20	R5232889
Lead (Pb)-Total	0.00013	<T	0.000050	mg/L		22-SEP-20	R5232889

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-12 SW06							
Sampled By: SF on 15-SEP-20 @ 12:00							
Matrix: Water							
Total Metals							
Lithium (Li)-Total	0.0016	<DL	0.050	mg/L		22-SEP-20	R5232889
Magnesium (Mg)-Total	3.73		0.020	mg/L		22-SEP-20	R5232889
Manganese (Mn)-Total	0.0266		0.0010	mg/L		22-SEP-20	R5232889
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5232985
Molybdenum (Mo)-Total	0.000210	<DL	0.0010	mg/L		22-SEP-20	R5232889
Nickel (Ni)-Total	0.00086	<DL	0.0020	mg/L		22-SEP-20	R5232889
Phosphorus (P)-Total	0.015	<DL	0.050	mg/L		22-SEP-20	R5232889
Potassium (K)-Total	1.02		0.50	mg/L		22-SEP-20	R5232889
Rubidium (Rb)-Total	0.00215		0.00020	mg/L		22-SEP-20	R5232889
Selenium (Se)-Total	0.000120	<T	0.000050	mg/L		22-SEP-20	R5232889
Silicon (Si)-Total	2.34		0.10	mg/L		22-SEP-20	R5232889
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		22-SEP-20	R5232889
Sodium (Na)-Total	4.37		0.10	mg/L		22-SEP-20	R5232889
Strontium (Sr)-Total	0.0294		0.0010	mg/L		22-SEP-20	R5232889
Sulfur (S)-Total	1.8		0.50	mg/L		22-SEP-20	R5232889
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		22-SEP-20	R5232889
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		22-SEP-20	R5232889
Thorium (Th)-Total	0.00004	<DL	0.00010	mg/L		22-SEP-20	R5232889
Tin (Sn)-Total	0.00012	<DL	0.0010	mg/L		22-SEP-20	R5232889
Titanium (Ti)-Total	0.00472		0.0020	mg/L		22-SEP-20	R5232889
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		22-SEP-20	R5232889
Uranium (U)-Total	0.000102	<DL	0.0050	mg/L		22-SEP-20	R5232889
Vanadium (V)-Total	0.00075	<DL	0.0010	mg/L		22-SEP-20	R5232889
Zinc (Zn)-Total	<0.0005	<W	0.0030	mg/L		22-SEP-20	R5232889
Zirconium (Zr)-Total	0.000226	<DL	0.0010	mg/L		22-SEP-20	R5232889
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-SEP-20	R5232822
Aluminum (Al)-Dissolved	0.0260	<T	0.0050	mg/L		24-SEP-20	R5236157
Antimony (Sb)-Dissolved	0.000040	<DL	0.00060	mg/L		24-SEP-20	R5236157
Arsenic (As)-Dissolved	0.000622	<DL	0.0010	mg/L		24-SEP-20	R5236157
Barium (Ba)-Dissolved	0.0105		0.010	mg/L		24-SEP-20	R5236157
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		24-SEP-20	R5236157
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		24-SEP-20	R5236157
Boron (B)-Dissolved	0.0065	<DL	0.050	mg/L		24-SEP-20	R5236157
Cadmium (Cd)-Dissolved	0.0000040	<DL	0.000017	mg/L		24-SEP-20	R5236157
Calcium (Ca)-Dissolved	10.7		0.20	mg/L		24-SEP-20	R5236157
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		24-SEP-20	R5236157
Chromium (Cr)-Dissolved	0.00020	<DL	0.0010	mg/L		24-SEP-20	R5236157
Cobalt (Co)-Dissolved	0.000038	<DL	0.00050	mg/L		24-SEP-20	R5236157
Copper (Cu)-Dissolved	0.00092	<DL	0.0010	mg/L		24-SEP-20	R5236157
Iron (Fe)-Dissolved	0.150		0.020	mg/L		24-SEP-20	R5236157

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-12 SW06 Sampled By: SF on 15-SEP-20 @ 12:00 Matrix: Water							
Dissolved Metals							
Lead (Pb)-Dissolved	0.00006	<T	0.000050	mg/L		24-SEP-20	R5236157
Lithium (Li)-Dissolved	0.0014	<DL	0.050	mg/L		24-SEP-20	R5236157
Magnesium (Mg)-Dissolved	3.68		0.020	mg/L		24-SEP-20	R5236157
Manganese (Mn)-Dissolved	0.0119		0.0010	mg/L		24-SEP-20	R5236157
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5232984
Molybdenum (Mo)-Dissolved	0.000222	<DL	0.0010	mg/L		24-SEP-20	R5236157
Nickel (Ni)-Dissolved	0.00068	<DL	0.0020	mg/L		24-SEP-20	R5236157
Phosphorus (P)-Dissolved	0.010	<DL	0.050	mg/L		24-SEP-20	R5236157
Potassium (K)-Dissolved	0.95		0.50	mg/L		24-SEP-20	R5236157
Rubidium (Rb)-Dissolved	0.00187		0.00020	mg/L		24-SEP-20	R5236157
Selenium (Se)-Dissolved	0.000110	<T	0.000050	mg/L		24-SEP-20	R5236157
Silicon (Si)-Dissolved	2.49		0.050	mg/L		24-SEP-20	R5236157
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		24-SEP-20	R5236157
Sodium (Na)-Dissolved	4.47		0.10	mg/L		24-SEP-20	R5236157
Strontium (Sr)-Dissolved	0.0309		0.0010	mg/L		24-SEP-20	R5236157
Sulfur (S)-Dissolved	1.6		0.50	mg/L		24-SEP-20	R5236157
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		24-SEP-20	R5236157
Thallium (Tl)-Dissolved	0.000002	<DL	0.00030	mg/L		24-SEP-20	R5236157
Thorium (Th)-Dissolved	0.00005	<DL	0.00010	mg/L		24-SEP-20	R5236157
Tin (Sn)-Dissolved	0.000010	<DL	0.0010	mg/L		24-SEP-20	R5236157
Titanium (Ti)-Dissolved	0.00134	<DL	0.0020	mg/L		24-SEP-20	R5236157
Tungsten (W)-Dissolved	0.000004	<DL	0.010	mg/L		24-SEP-20	R5236157
Uranium (U)-Dissolved	0.0000970	<DL	0.0050	mg/L		24-SEP-20	R5236157
Vanadium (V)-Dissolved	0.00044	<DL	0.0010	mg/L		24-SEP-20	R5236157
Zinc (Zn)-Dissolved	0.0010	<DL	0.0030	mg/L		24-SEP-20	R5236157
Zirconium (Zr)-Dissolved	0.000182	<DL	0.0010	mg/L		24-SEP-20	R5236157
Aggregate Organics							
Biochemical Oxygen Demand	<2.0	BODF	2.0	mg/L		25-SEP-20	R5242641
Chemical Oxygen Demand	49		20	mg/L	18-SEP-20	24-SEP-20	R5235139
Oil and Grease, Total	1.4		1.0	mg/L	22-SEP-20	23-SEP-20	R5232627
L2504998-13 SW23 Sampled By: SF on 15-SEP-20 @ 13:10 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	0		0	mg/L		21-SEP-20	R5231712
pH, Client Supplied	6.95		0.10	pH		21-SEP-20	R5231712
Temperature, Client Supplied	15.14		0	Degree C		21-SEP-20	R5231712
Physical Tests							
Color, True	208		2.0	CU		19-SEP-20	R5230893
Conductivity (EC)	257		1.0	uS/cm		18-SEP-20	R5230813
Hardness (as CaCO3)	143		0.51	mg/L		25-SEP-20	
pH	7.84		0.10	pH		18-SEP-20	R5230813

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-13 SW23							
Sampled By: SF on 15-SEP-20 @ 13:10							
Matrix: Water							
Physical Tests							
Total Suspended Solids	4.0		3.0	mg/L		20-SEP-20	R5231939
Total Dissolved Solids	232		20	mg/L		20-SEP-20	R5231948
Turbidity	15.4		0.10	NTU		18-SEP-20	R5230797
Anions and Nutrients							
Acidity (as CaCO3)	4.0		2.0	mg/L		19-SEP-20	R5231130
Alkalinity, Total (as CaCO3)	143		2.0	mg/L		18-SEP-20	R5230813
Ammonia, Total (as N)	0.022	<T	0.0050	mg/L		24-SEP-20	R5236079
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		25-SEP-20	
Chloride (Cl)	2.45		0.10	mg/L	18-SEP-20	19-SEP-20	R5231080
Fluoride (F)	0.058		0.020	mg/L	18-SEP-20	19-SEP-20	R5231080
Nitrate (as N)	0.004	<DL	0.020	mg/L		19-SEP-20	R5231080
Nitrite (as N)	<0.001	<W	0.010	mg/L		19-SEP-20	R5231080
Total Kjeldahl Nitrogen	1.37		0.050	mg/L	18-SEP-20	22-SEP-20	R5232813
Orthophosphate-Dissolved (as P)	0.0321		0.0030	mg/L	18-SEP-20	19-SEP-20	R5230997
Sulfate (SO4)	3.25	<T	0.30	mg/L		19-SEP-20	R5231080
Cyanides							
Cyanide, Weak Acid Diss	0.0007	<DL	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Total	0.0004	<DL	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Free	0.0005	<DL	0.0020	mg/L		22-SEP-20	R5232783
Organic / Inorganic Carbon							
Dissolved Organic Carbon	36.7	DLM	5.0	mg/L	18-SEP-20	30-SEP-20	R5243384
Total Organic Carbon	60.6	DLM	5.0	mg/L		25-SEP-20	R5238262
Total Metals							
Aluminum (Al)-Total	0.535		0.0050	mg/L		22-SEP-20	R5232889
Antimony (Sb)-Total	0.000080	<DL	0.00060	mg/L		22-SEP-20	R5232889
Arsenic (As)-Total	0.00253	<T	0.0010	mg/L		22-SEP-20	R5232889
Barium (Ba)-Total	0.0200		0.010	mg/L		22-SEP-20	R5232889
Beryllium (Be)-Total	0.0000350	<DL	0.0010	mg/L		22-SEP-20	R5232889
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		22-SEP-20	R5232889
Boron (B)-Total	0.0145	<DL	0.050	mg/L		22-SEP-20	R5232889
Cadmium (Cd)-Total	0.000010	<DL	0.000017	mg/L		22-SEP-20	R5232889
Calcium (Ca)-Total	32.2		0.20	mg/L		22-SEP-20	R5232889
Cesium (Cs)-Total	0.0000640		0.000010	mg/L		22-SEP-20	R5232889
Chromium (Cr)-Total	0.00116		0.0010	mg/L		22-SEP-20	R5232889
Cobalt (Co)-Total	0.000440	<DL	0.00050	mg/L		22-SEP-20	R5232889
Copper (Cu)-Total	0.00178	<T	0.0010	mg/L		22-SEP-20	R5232889
Iron (Fe)-Total	1.05		0.020	mg/L		22-SEP-20	R5232889
Lead (Pb)-Total	0.00038	<T	0.000050	mg/L		22-SEP-20	R5232889
Lithium (Li)-Total	0.0060	<DL	0.050	mg/L		22-SEP-20	R5232889
Magnesium (Mg)-Total	14.6		0.020	mg/L		22-SEP-20	R5232889
Manganese (Mn)-Total	0.142		0.0010	mg/L		22-SEP-20	R5232889
Mercury (Hg)-Total	0.000005	<DL	0.000030	mg/L		23-SEP-20	R5232985

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-13 SW23							
Sampled By: SF on 15-SEP-20 @ 13:10							
Matrix: Water							
Total Metals							
Molybdenum (Mo)-Total	0.000415	<DL	0.0010	mg/L		22-SEP-20	R5232889
Nickel (Ni)-Total	0.00256	<T	0.0020	mg/L		22-SEP-20	R5232889
Phosphorus (P)-Total	0.085		0.050	mg/L		22-SEP-20	R5232889
Potassium (K)-Total	1.50		0.50	mg/L		22-SEP-20	R5232889
Rubidium (Rb)-Total	0.00267		0.00020	mg/L		22-SEP-20	R5232889
Selenium (Se)-Total	0.000180	<T	0.000050	mg/L		22-SEP-20	R5232889
Silicon (Si)-Total	5.88		0.10	mg/L		22-SEP-20	R5232889
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		22-SEP-20	R5232889
Sodium (Na)-Total	2.96		0.10	mg/L		22-SEP-20	R5232889
Strontium (Sr)-Total	0.0736		0.0010	mg/L		22-SEP-20	R5232889
Sulfur (S)-Total	1.8		0.50	mg/L		22-SEP-20	R5232889
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		22-SEP-20	R5232889
Thallium (Tl)-Total	0.000005	<DL	0.00030	mg/L		22-SEP-20	R5232889
Thorium (Th)-Total	0.00014		0.00010	mg/L		22-SEP-20	R5232889
Tin (Sn)-Total	0.00005	<DL	0.0010	mg/L		22-SEP-20	R5232889
Titanium (Ti)-Total	0.0187		0.0020	mg/L		22-SEP-20	R5232889
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		22-SEP-20	R5232889
Uranium (U)-Total	0.000456	<DL	0.0050	mg/L		22-SEP-20	R5232889
Vanadium (V)-Total	0.00215	<T	0.0010	mg/L		22-SEP-20	R5232889
Zinc (Zn)-Total	0.0015	<DL	0.0030	mg/L		22-SEP-20	R5232889
Zirconium (Zr)-Total	0.00107		0.0010	mg/L		22-SEP-20	R5232889
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-SEP-20	R5232822
Aluminum (Al)-Dissolved	0.0360		0.0050	mg/L		24-SEP-20	R5236157
Antimony (Sb)-Dissolved	0.000080	<DL	0.00060	mg/L		24-SEP-20	R5236157
Arsenic (As)-Dissolved	0.00229	<T	0.0010	mg/L		24-SEP-20	R5236157
Barium (Ba)-Dissolved	0.0162		0.010	mg/L		24-SEP-20	R5236157
Beryllium (Be)-Dissolved	0.000016	<DL	0.0010	mg/L		24-SEP-20	R5236157
Bismuth (Bi)-Dissolved	0.000002	<DL	0.0010	mg/L		24-SEP-20	R5236157
Boron (B)-Dissolved	0.0155	<DL	0.050	mg/L		24-SEP-20	R5236157
Cadmium (Cd)-Dissolved	0.0000060	<DL	0.000017	mg/L		24-SEP-20	R5236157
Calcium (Ca)-Dissolved	34.0		0.20	mg/L		24-SEP-20	R5236157
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		24-SEP-20	R5236157
Chromium (Cr)-Dissolved	0.00029	<DL	0.0010	mg/L		24-SEP-20	R5236157
Cobalt (Co)-Dissolved	0.000222	<DL	0.00050	mg/L		24-SEP-20	R5236157
Copper (Cu)-Dissolved	0.00134	<T	0.0010	mg/L		24-SEP-20	R5236157
Iron (Fe)-Dissolved	0.496		0.020	mg/L		24-SEP-20	R5236157
Lead (Pb)-Dissolved	0.00009	<T	0.000050	mg/L		24-SEP-20	R5236157
Lithium (Li)-Dissolved	0.0056	<DL	0.050	mg/L		24-SEP-20	R5236157
Magnesium (Mg)-Dissolved	14.0		0.020	mg/L		24-SEP-20	R5236157
Manganese (Mn)-Dissolved	0.128		0.0010	mg/L		24-SEP-20	R5236157

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-13 SW23 Sampled By: SF on 15-SEP-20 @ 13:10 Matrix: Water							
Dissolved Metals							
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5232984
Molybdenum (Mo)-Dissolved	0.000388	<DL	0.0010	mg/L		24-SEP-20	R5236157
Nickel (Ni)-Dissolved	0.00190	<DL	0.0020	mg/L		24-SEP-20	R5236157
Phosphorus (P)-Dissolved	0.055		0.050	mg/L		24-SEP-20	R5236157
Potassium (K)-Dissolved	1.34		0.50	mg/L		24-SEP-20	R5236157
Rubidium (Rb)-Dissolved	0.00151		0.00020	mg/L		24-SEP-20	R5236157
Selenium (Se)-Dissolved	0.000210	<T	0.000050	mg/L		24-SEP-20	R5236157
Silicon (Si)-Dissolved	5.40		0.050	mg/L		24-SEP-20	R5236157
Silver (Ag)-Dissolved	0.0000020	<DL	0.00010	mg/L		24-SEP-20	R5236157
Sodium (Na)-Dissolved	2.95		0.10	mg/L		24-SEP-20	R5236157
Strontium (Sr)-Dissolved	0.0788		0.0010	mg/L		24-SEP-20	R5236157
Sulfur (S)-Dissolved	1.4		0.50	mg/L		24-SEP-20	R5236157
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		24-SEP-20	R5236157
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		24-SEP-20	R5236157
Thorium (Th)-Dissolved	0.00009	<DL	0.00010	mg/L		24-SEP-20	R5236157
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		24-SEP-20	R5236157
Titanium (Ti)-Dissolved	0.00272		0.0020	mg/L		24-SEP-20	R5236157
Tungsten (W)-Dissolved	0.000004	<DL	0.010	mg/L		24-SEP-20	R5236157
Uranium (U)-Dissolved	0.000418	<DL	0.0050	mg/L		24-SEP-20	R5236157
Vanadium (V)-Dissolved	0.00098	<DL	0.0010	mg/L		24-SEP-20	R5236157
Zinc (Zn)-Dissolved	0.0008	<DL	0.0030	mg/L		24-SEP-20	R5236157
Zirconium (Zr)-Dissolved	0.000722	<DL	0.0010	mg/L		24-SEP-20	R5236157
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-SEP-20	R5234896
Chemical Oxygen Demand	110		20	mg/L	18-SEP-20	24-SEP-20	R5235139
Oil and Grease, Total	1.2		1.0	mg/L	22-SEP-20	23-SEP-20	R5232627
L2504998-14 SW28A Sampled By: SF on 15-SEP-20 @ 14:45 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	4.11		0	mg/L		21-SEP-20	R5231712
pH, Client Supplied	7.82		0.10	pH		21-SEP-20	R5231712
Temperature, Client Supplied	12.68		0	Degree C		21-SEP-20	R5231712
Physical Tests							
Color, True	17.8		2.0	CU		19-SEP-20	R5230893
Conductivity (EC)	759		1.0	uS/cm		18-SEP-20	R5230813
Hardness (as CaCO3)	418		0.51	mg/L		25-SEP-20	
pH	8.37		0.10	pH		18-SEP-20	R5230813
Total Suspended Solids	2.5	<DL	3.0	mg/L		20-SEP-20	R5231939
Total Dissolved Solids	448		20	mg/L		20-SEP-20	R5231948
Turbidity	3.59		0.10	NTU		18-SEP-20	R5230797
Anions and Nutrients							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-14 SW28A							
Sampled By: SF on 15-SEP-20 @ 14:45							
Matrix: Water							
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		19-SEP-20	R5231130
Alkalinity, Total (as CaCO3)	431		2.0	mg/L		18-SEP-20	R5230813
Ammonia, Total (as N)	0.008	<T	0.0050	mg/L		24-SEP-20	R5236079
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		25-SEP-20	
Chloride (Cl)	20.2		0.10	mg/L	18-SEP-20	19-SEP-20	R5231080
Fluoride (F)	0.190		0.020	mg/L	18-SEP-20	19-SEP-20	R5231080
Nitrate (as N)	0.004	<DL	0.020	mg/L		19-SEP-20	R5231080
Nitrite (as N)	<0.001	<W	0.010	mg/L		19-SEP-20	R5231080
Total Kjeldahl Nitrogen	0.285		0.050	mg/L	18-SEP-20	22-SEP-20	R5232813
Orthophosphate-Dissolved (as P)	0.0039		0.0030	mg/L	18-SEP-20	19-SEP-20	R5230997
Sulfate (SO4)	12.0		0.30	mg/L		19-SEP-20	R5231080
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Total	<0.0002	<W	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Free	<0.0001	<W	0.0020	mg/L		22-SEP-20	R5232783
Organic / Inorganic Carbon							
Dissolved Organic Carbon	6.0	DLM	5.0	mg/L	18-SEP-20	30-SEP-20	R5243384
Total Organic Carbon	8.9	DLM	5.0	mg/L		01-OCT-20	R5244055
Total Metals							
Aluminum (Al)-Total	0.108		0.0050	mg/L		22-SEP-20	R5232889
Antimony (Sb)-Total	0.000035	<DL	0.00060	mg/L		22-SEP-20	R5232889
Arsenic (As)-Total	0.00149	<T	0.0010	mg/L		22-SEP-20	R5232889
Barium (Ba)-Total	0.0563		0.010	mg/L		22-SEP-20	R5232889
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		22-SEP-20	R5232889
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		22-SEP-20	R5232889
Boron (B)-Total	0.0310	<DL	0.050	mg/L		22-SEP-20	R5232889
Cadmium (Cd)-Total	0.000004	<DL	0.000017	mg/L		22-SEP-20	R5232889
Calcium (Ca)-Total	90.4		0.20	mg/L		22-SEP-20	R5232889
Cesium (Cs)-Total	0.0000145		0.000010	mg/L		22-SEP-20	R5232889
Chromium (Cr)-Total	0.00028	<DL	0.0010	mg/L		22-SEP-20	R5232889
Cobalt (Co)-Total	0.000170	<DL	0.00050	mg/L		22-SEP-20	R5232889
Copper (Cu)-Total	0.00048	<DL	0.0010	mg/L		22-SEP-20	R5232889
Iron (Fe)-Total	0.219		0.020	mg/L		22-SEP-20	R5232889
Lead (Pb)-Total	0.00008	<T	0.000050	mg/L		22-SEP-20	R5232889
Lithium (Li)-Total	0.0278	<DL	0.050	mg/L		22-SEP-20	R5232889
Magnesium (Mg)-Total	44.2		0.020	mg/L		22-SEP-20	R5232889
Manganese (Mn)-Total	0.0710		0.0010	mg/L		22-SEP-20	R5232889
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5233011
Molybdenum (Mo)-Total	0.00207	<T	0.0010	mg/L		22-SEP-20	R5232889
Nickel (Ni)-Total	0.00068	<DL	0.0020	mg/L		22-SEP-20	R5232889
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		22-SEP-20	R5232889
Potassium (K)-Total	3.04		0.50	mg/L		22-SEP-20	R5232889

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-14 SW28A							
Sampled By: SF on 15-SEP-20 @ 14:45							
Matrix: Water							
Total Metals							
Rubidium (Rb)-Total	0.00376		0.00020	mg/L		22-SEP-20	R5232889
Selenium (Se)-Total	0.000075	<T	0.000050	mg/L		22-SEP-20	R5232889
Silicon (Si)-Total	8.12		0.10	mg/L		22-SEP-20	R5232889
Silver (Ag)-Total	0.000006	<DL	0.00010	mg/L		22-SEP-20	R5232889
Sodium (Na)-Total	8.33		0.10	mg/L		22-SEP-20	R5232889
Strontium (Sr)-Total	0.476		0.0010	mg/L		22-SEP-20	R5232889
Sulfur (S)-Total	4.8		0.50	mg/L		22-SEP-20	R5232889
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		22-SEP-20	R5232889
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		22-SEP-20	R5232889
Thorium (Th)-Total	0.00003	<DL	0.00010	mg/L		22-SEP-20	R5232889
Tin (Sn)-Total	0.00004	<DL	0.0010	mg/L		22-SEP-20	R5232889
Titanium (Ti)-Total	0.00352		0.0020	mg/L		22-SEP-20	R5232889
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		22-SEP-20	R5232889
Uranium (U)-Total	0.00361	<DL	0.0050	mg/L		22-SEP-20	R5232889
Vanadium (V)-Total	0.00120	<T	0.0010	mg/L		22-SEP-20	R5232889
Zinc (Zn)-Total	<0.0005	<W	0.0030	mg/L		22-SEP-20	R5232889
Zirconium (Zr)-Total	0.000226	<DL	0.0010	mg/L		22-SEP-20	R5232889
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-SEP-20	R5232823
Aluminum (Al)-Dissolved	0.0026	<DL	0.0050	mg/L		24-SEP-20	R5236157
Antimony (Sb)-Dissolved	0.000050	<DL	0.00060	mg/L		24-SEP-20	R5236157
Arsenic (As)-Dissolved	0.00141	<T	0.0010	mg/L		24-SEP-20	R5236157
Barium (Ba)-Dissolved	0.0539		0.010	mg/L		24-SEP-20	R5236157
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		24-SEP-20	R5236157
Bismuth (Bi)-Dissolved	0.000012	<DL	0.0010	mg/L		24-SEP-20	R5236157
Boron (B)-Dissolved	0.0365	<DL	0.050	mg/L		24-SEP-20	R5236157
Cadmium (Cd)-Dissolved	0.0000020	<DL	0.000017	mg/L		24-SEP-20	R5236157
Calcium (Ca)-Dissolved	93.0		0.20	mg/L		24-SEP-20	R5236157
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		24-SEP-20	R5236157
Chromium (Cr)-Dissolved	0.00004	<DL	0.0010	mg/L		24-SEP-20	R5236157
Cobalt (Co)-Dissolved	0.000120	<DL	0.00050	mg/L		24-SEP-20	R5236157
Copper (Cu)-Dissolved	0.00034	<DL	0.0010	mg/L		24-SEP-20	R5236157
Iron (Fe)-Dissolved	0.0475		0.020	mg/L		24-SEP-20	R5236157
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		24-SEP-20	R5236157
Lithium (Li)-Dissolved	0.0260	<DL	0.050	mg/L		24-SEP-20	R5236157
Magnesium (Mg)-Dissolved	45.1		0.020	mg/L		24-SEP-20	R5236157
Manganese (Mn)-Dissolved	0.0734		0.0010	mg/L		24-SEP-20	R5236157
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5233009
Molybdenum (Mo)-Dissolved	0.00205	<T	0.0010	mg/L		24-SEP-20	R5236157
Nickel (Ni)-Dissolved	0.00054	<DL	0.0020	mg/L		24-SEP-20	R5236157
Phosphorus (P)-Dissolved	0.005	<DL	0.050	mg/L		24-SEP-20	R5236157

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-14 SW28A Sampled By: SF on 15-SEP-20 @ 14:45 Matrix: Water							
Dissolved Metals							
Potassium (K)-Dissolved	2.98		0.50	mg/L		24-SEP-20	R5236157
Rubidium (Rb)-Dissolved	0.00352		0.00020	mg/L		24-SEP-20	R5236157
Selenium (Se)-Dissolved	0.000065	<T	0.000050	mg/L		24-SEP-20	R5236157
Silicon (Si)-Dissolved	8.77		0.050	mg/L		24-SEP-20	R5236157
Silver (Ag)-Dissolved	0.0000030	<DL	0.00010	mg/L		24-SEP-20	R5236157
Sodium (Na)-Dissolved	8.50		0.10	mg/L		24-SEP-20	R5236157
Strontium (Sr)-Dissolved	0.487		0.0010	mg/L		24-SEP-20	R5236157
Sulfur (S)-Dissolved	4.2		0.50	mg/L		24-SEP-20	R5236157
Tellurium (Te)-Dissolved	0.00004	<DL	0.0010	mg/L		24-SEP-20	R5236157
Thallium (Tl)-Dissolved	0.000024	<DL	0.00030	mg/L		24-SEP-20	R5236157
Thorium (Th)-Dissolved	0.00001	<DL	0.00010	mg/L		24-SEP-20	R5236157
Tin (Sn)-Dissolved	0.000025	<DL	0.0010	mg/L		24-SEP-20	R5236157
Titanium (Ti)-Dissolved	0.00030	<DL	0.0020	mg/L		24-SEP-20	R5236157
Tungsten (W)-Dissolved	0.000008	<DL	0.010	mg/L		24-SEP-20	R5236157
Uranium (U)-Dissolved	0.00354	<DL	0.0050	mg/L		24-SEP-20	R5236157
Vanadium (V)-Dissolved	0.00090	<DL	0.0010	mg/L		24-SEP-20	R5236157
Zinc (Zn)-Dissolved	0.0018	<DL	0.0030	mg/L		24-SEP-20	R5236157
Zirconium (Zr)-Dissolved	0.000172	<DL	0.0010	mg/L		24-SEP-20	R5236157
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-SEP-20	R5234896
Chemical Oxygen Demand	28		20	mg/L	18-SEP-20	23-SEP-20	R5233174
Oil and Grease, Total	1.0		1.0	mg/L	22-SEP-20	23-SEP-20	R5232627
L2504998-15 SW20 Sampled By: SF on 15-SEP-20 @ 15:15 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	1.4		0	mg/L		21-SEP-20	R5231712
pH, Client Supplied	7.13		0.10	pH		21-SEP-20	R5231712
Temperature, Client Supplied	11.99		0	Degree C		21-SEP-20	R5231712
Physical Tests							
Color, True	69.6		2.0	CU		19-SEP-20	R5230893
Conductivity (EC)	430		1.0	uS/cm		18-SEP-20	R5230813
Hardness (as CaCO3)	185		0.51	mg/L		25-SEP-20	
pH	7.97		0.10	pH		18-SEP-20	R5230813
Total Suspended Solids	1.5	<DL	3.0	mg/L		20-SEP-20	R5231939
Total Dissolved Solids	284		20	mg/L		20-SEP-20	R5231948
Turbidity	1.54		0.10	NTU		18-SEP-20	R5230797
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		19-SEP-20	R5231130
Alkalinity, Total (as CaCO3)	179		2.0	mg/L		18-SEP-20	R5230813
Ammonia, Total (as N)	0.012	<T	0.0050	mg/L		24-SEP-20	R5236079
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		25-SEP-20	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-15 SW20							
Sampled By: SF on 15-SEP-20 @ 15:15							
Matrix: Water							
Anions and Nutrients							
Chloride (Cl)	37.1		0.10	mg/L	18-SEP-20	19-SEP-20	R5231080
Fluoride (F)	0.083		0.020	mg/L	18-SEP-20	19-SEP-20	R5231080
Nitrate (as N)	<0.002	<W	0.020	mg/L		19-SEP-20	R5231080
Nitrite (as N)	<0.001	<W	0.010	mg/L		19-SEP-20	R5231080
Total Kjeldahl Nitrogen	1.15		0.050	mg/L	18-SEP-20	22-SEP-20	R5232813
Orthophosphate-Dissolved (as P)	0.0036		0.0030	mg/L	18-SEP-20	19-SEP-20	R5230997
Sulfate (SO4)	2.65	<T	0.30	mg/L		19-SEP-20	R5231080
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Total	0.0004	<DL	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Free	<0.0001	<W	0.0020	mg/L		22-SEP-20	R5232783
Organic / Inorganic Carbon							
Dissolved Organic Carbon	22.7	DLM	5.0	mg/L	18-SEP-20	30-SEP-20	R5243384
Total Organic Carbon	34.0	DLM	5.0	mg/L		01-OCT-20	R5244055
Total Metals							
Aluminum (Al)-Total	0.0266	<T	0.0050	mg/L		22-SEP-20	R5232889
Antimony (Sb)-Total	0.000050	<DL	0.00060	mg/L		22-SEP-20	R5232889
Arsenic (As)-Total	0.00094	<DL	0.0010	mg/L		22-SEP-20	R5232889
Barium (Ba)-Total	0.0167		0.010	mg/L		22-SEP-20	R5232889
Beryllium (Be)-Total	0.0000013	<DL	0.0010	mg/L		22-SEP-20	R5232889
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		22-SEP-20	R5232889
Boron (B)-Total	0.0160	<DL	0.050	mg/L		22-SEP-20	R5232889
Cadmium (Cd)-Total	0.000002	<DL	0.000017	mg/L		22-SEP-20	R5232889
Calcium (Ca)-Total	41.5		0.20	mg/L		22-SEP-20	R5232889
Cesium (Cs)-Total	0.0000020	<DL	0.000010	mg/L		22-SEP-20	R5232889
Chromium (Cr)-Total	0.00024	<DL	0.0010	mg/L		22-SEP-20	R5232889
Cobalt (Co)-Total	0.000185	<DL	0.00050	mg/L		22-SEP-20	R5232889
Copper (Cu)-Total	0.00032	<DL	0.0010	mg/L		22-SEP-20	R5232889
Iron (Fe)-Total	0.200		0.020	mg/L		22-SEP-20	R5232889
Lead (Pb)-Total	0.00003	<DL	0.000050	mg/L		22-SEP-20	R5232889
Lithium (Li)-Total	0.0092	<DL	0.050	mg/L		22-SEP-20	R5232889
Magnesium (Mg)-Total	18.3		0.020	mg/L		22-SEP-20	R5232889
Manganese (Mn)-Total	0.0522		0.0010	mg/L		22-SEP-20	R5232889
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5233011
Molybdenum (Mo)-Total	0.000225	<DL	0.0010	mg/L		22-SEP-20	R5232889
Nickel (Ni)-Total	0.00118	<DL	0.0020	mg/L		22-SEP-20	R5232889
Phosphorus (P)-Total	0.020	<DL	0.050	mg/L		22-SEP-20	R5232889
Potassium (K)-Total	1.84		0.50	mg/L		22-SEP-20	R5232889
Rubidium (Rb)-Total	0.00264		0.00020	mg/L		22-SEP-20	R5232889
Selenium (Se)-Total	0.000120	<T	0.000050	mg/L		22-SEP-20	R5232889
Silicon (Si)-Total	3.52		0.10	mg/L		22-SEP-20	R5232889
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		22-SEP-20	R5232889

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-15 SW20							
Sampled By: SF on 15-SEP-20 @ 15:15							
Matrix: Water							
Total Metals							
Sodium (Na)-Total	18.3		0.10	mg/L		22-SEP-20	R5232889
Strontium (Sr)-Total	0.116		0.0010	mg/L		22-SEP-20	R5232889
Sulfur (S)-Total	1.6		0.50	mg/L		22-SEP-20	R5232889
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		22-SEP-20	R5232889
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		22-SEP-20	R5232889
Thorium (Th)-Total	<0.00001	<W	0.00010	mg/L		22-SEP-20	R5232889
Tin (Sn)-Total	0.00009	<DL	0.0010	mg/L		22-SEP-20	R5232889
Titanium (Ti)-Total	0.00085	<DL	0.0020	mg/L		22-SEP-20	R5232889
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		22-SEP-20	R5232889
Uranium (U)-Total	0.000466	<DL	0.0050	mg/L		22-SEP-20	R5232889
Vanadium (V)-Total	0.00040	<DL	0.0010	mg/L		22-SEP-20	R5232889
Zinc (Zn)-Total	0.0035	<T	0.0030	mg/L		22-SEP-20	R5232889
Zirconium (Zr)-Total	0.000164	<DL	0.0010	mg/L		22-SEP-20	R5232889
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-SEP-20	R5232823
Aluminum (Al)-Dissolved	0.0034	<DL	0.0050	mg/L		24-SEP-20	R5236157
Antimony (Sb)-Dissolved	0.000050	<DL	0.00060	mg/L		24-SEP-20	R5236157
Arsenic (As)-Dissolved	0.000954	<DL	0.0010	mg/L		24-SEP-20	R5236157
Barium (Ba)-Dissolved	0.0164		0.010	mg/L		24-SEP-20	R5236157
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		24-SEP-20	R5236157
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		24-SEP-20	R5236157
Boron (B)-Dissolved	0.0165	<DL	0.050	mg/L		24-SEP-20	R5236157
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		24-SEP-20	R5236157
Calcium (Ca)-Dissolved	42.3		0.20	mg/L		24-SEP-20	R5236157
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		24-SEP-20	R5236157
Chromium (Cr)-Dissolved	0.00018	<DL	0.0010	mg/L		24-SEP-20	R5236157
Cobalt (Co)-Dissolved	0.000150	<DL	0.00050	mg/L		24-SEP-20	R5236157
Copper (Cu)-Dissolved	0.00024	<DL	0.0010	mg/L		24-SEP-20	R5236157
Iron (Fe)-Dissolved	0.126		0.020	mg/L		24-SEP-20	R5236157
Lead (Pb)-Dissolved	<0.00001	<W	0.000050	mg/L		24-SEP-20	R5236157
Lithium (Li)-Dissolved	0.0088	<DL	0.050	mg/L		24-SEP-20	R5236157
Magnesium (Mg)-Dissolved	19.3		0.020	mg/L		24-SEP-20	R5236157
Manganese (Mn)-Dissolved	0.0452		0.0010	mg/L		24-SEP-20	R5236157
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5233009
Molybdenum (Mo)-Dissolved	0.000230	<DL	0.0010	mg/L		24-SEP-20	R5236157
Nickel (Ni)-Dissolved	0.00112	<DL	0.0020	mg/L		24-SEP-20	R5236157
Phosphorus (P)-Dissolved	0.010	<DL	0.050	mg/L		24-SEP-20	R5236157
Potassium (K)-Dissolved	1.81		0.50	mg/L		24-SEP-20	R5236157
Rubidium (Rb)-Dissolved	0.00257		0.00020	mg/L		24-SEP-20	R5236157
Selenium (Se)-Dissolved	0.000150	<T	0.000050	mg/L		24-SEP-20	R5236157
Silicon (Si)-Dissolved	3.82		0.050	mg/L		24-SEP-20	R5236157

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-15 SW20 Sampled By: SF on 15-SEP-20 @ 15:15 Matrix: Water							
Dissolved Metals							
Silver (Ag)-Dissolved	0.0000020	<DL	0.00010	mg/L		24-SEP-20	R5236157
Sodium (Na)-Dissolved	18.6		0.10	mg/L		24-SEP-20	R5236157
Strontium (Sr)-Dissolved	0.121		0.0010	mg/L		24-SEP-20	R5236157
Sulfur (S)-Dissolved	1.2		0.50	mg/L		24-SEP-20	R5236157
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		24-SEP-20	R5236157
Thallium (Tl)-Dissolved	0.000004	<DL	0.00030	mg/L		24-SEP-20	R5236157
Thorium (Th)-Dissolved	0.00001	<DL	0.00010	mg/L		24-SEP-20	R5236157
Tin (Sn)-Dissolved	0.000025	<DL	0.0010	mg/L		24-SEP-20	R5236157
Titanium (Ti)-Dissolved	0.00020	<DL	0.0020	mg/L		24-SEP-20	R5236157
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		24-SEP-20	R5236157
Uranium (U)-Dissolved	0.000465	<DL	0.0050	mg/L		24-SEP-20	R5236157
Vanadium (V)-Dissolved	0.00028	<DL	0.0010	mg/L		24-SEP-20	R5236157
Zinc (Zn)-Dissolved	0.0008	<DL	0.0030	mg/L		24-SEP-20	R5236157
Zirconium (Zr)-Dissolved	0.000176	<DL	0.0010	mg/L		24-SEP-20	R5236157
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-SEP-20	R5234896
Chemical Oxygen Demand	81		20	mg/L	18-SEP-20	23-SEP-20	R5233174
Oil and Grease, Total	1.4		1.0	mg/L	22-SEP-20	23-SEP-20	R5232627
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		10-OCT-20	R5255475
L2504998-16 SW24 Sampled By: SF on 15-SEP-20 @ 13:40 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	0		0	mg/L		21-SEP-20	R5231712
pH, Client Supplied	7.05		0.10	pH		21-SEP-20	R5231712
Temperature, Client Supplied	15.15		0	Degree C		21-SEP-20	R5231712
Physical Tests							
Color, True	246		2.0	CU		19-SEP-20	R5230893
Conductivity (EC)	249		1.0	uS/cm		18-SEP-20	R5230813
Hardness (as CaCO3)	139		0.51	mg/L		25-SEP-20	
pH	7.86		0.10	pH		18-SEP-20	R5230813
Total Suspended Solids	3.5		3.0	mg/L		20-SEP-20	R5231939
Total Dissolved Solids	232		20	mg/L		20-SEP-20	R5231948
Turbidity	14.9		0.10	NTU		18-SEP-20	R5230797
Anions and Nutrients							
Acidity (as CaCO3)	0.8	<DL	2.0	mg/L		19-SEP-20	R5231130
Alkalinity, Total (as CaCO3)	144		2.0	mg/L		18-SEP-20	R5230813
Ammonia, Total (as N)	0.016	<T	0.0050	mg/L		24-SEP-20	R5236079
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		25-SEP-20	
Chloride (Cl)	2.01		0.10	mg/L	18-SEP-20	19-SEP-20	R5231080
Fluoride (F)	0.058		0.020	mg/L	18-SEP-20	19-SEP-20	R5231080

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-16 SW24							
Sampled By: SF on 15-SEP-20 @ 13:40							
Matrix: Water							
Anions and Nutrients							
Nitrate (as N)	<0.002	<W	0.020	mg/L		19-SEP-20	R5231080
Nitrite (as N)	<0.001	<W	0.010	mg/L		19-SEP-20	R5231080
Total Kjeldahl Nitrogen	1.46		0.050	mg/L	18-SEP-20	22-SEP-20	R5232813
Orthophosphate-Dissolved (as P)	0.0320		0.0030	mg/L	18-SEP-20	19-SEP-20	R5230997
Sulfate (SO4)	3.15	<T	0.30	mg/L		19-SEP-20	R5231080
Cyanides							
Cyanide, Weak Acid Diss	0.0008	<DL	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Total	0.0006	<DL	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Free	0.0004	<DL	0.0020	mg/L		22-SEP-20	R5232783
Organic / Inorganic Carbon							
Dissolved Organic Carbon	40.5	DLM	5.0	mg/L	18-SEP-20	30-SEP-20	R5243384
Total Organic Carbon	60.9	DLM	5.0	mg/L		01-OCT-20	R5244055
Total Metals							
Aluminum (Al)-Total	0.519		0.0050	mg/L		23-SEP-20	R5234136
Antimony (Sb)-Total	0.000115	<DL	0.00060	mg/L		23-SEP-20	R5234136
Arsenic (As)-Total	0.00253	<T	0.0010	mg/L		23-SEP-20	R5234136
Barium (Ba)-Total	0.0189		0.010	mg/L		23-SEP-20	R5234136
Beryllium (Be)-Total	0.0000411	<DL	0.0010	mg/L		23-SEP-20	R5234136
Bismuth (Bi)-Total	0.00001	<DL	0.0010	mg/L		23-SEP-20	R5234136
Boron (B)-Total	0.0170	<DL	0.050	mg/L		23-SEP-20	R5234136
Cadmium (Cd)-Total	0.000015	<DL	0.000017	mg/L		23-SEP-20	R5234136
Calcium (Ca)-Total	32.2		0.20	mg/L		23-SEP-20	R5234136
Cesium (Cs)-Total	0.0000610		0.000010	mg/L		23-SEP-20	R5234136
Chromium (Cr)-Total	0.00106		0.0010	mg/L		23-SEP-20	R5234136
Cobalt (Co)-Total	0.000450	<DL	0.00050	mg/L		23-SEP-20	R5234136
Copper (Cu)-Total	0.00186	<T	0.0010	mg/L		23-SEP-20	R5234136
Iron (Fe)-Total	1.12		0.020	mg/L		23-SEP-20	R5234136
Lead (Pb)-Total	0.00042	<T	0.000050	mg/L		23-SEP-20	R5234136
Lithium (Li)-Total	0.0058	<DL	0.050	mg/L		23-SEP-20	R5234136
Magnesium (Mg)-Total	14.2		0.020	mg/L		23-SEP-20	R5234136
Manganese (Mn)-Total	0.129		0.0010	mg/L		23-SEP-20	R5234136
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5233011
Molybdenum (Mo)-Total	0.000420	<DL	0.0010	mg/L		23-SEP-20	R5234136
Nickel (Ni)-Total	0.00252	<T	0.0020	mg/L		23-SEP-20	R5234136
Phosphorus (P)-Total	0.095		0.050	mg/L		23-SEP-20	R5234136
Potassium (K)-Total	1.66		0.50	mg/L		23-SEP-20	R5234136
Rubidium (Rb)-Total	0.00259		0.00020	mg/L		23-SEP-20	R5234136
Selenium (Se)-Total	0.000230	<T	0.000050	mg/L		23-SEP-20	R5234136
Silicon (Si)-Total	6.39		0.10	mg/L		23-SEP-20	R5234136
Silver (Ag)-Total	0.000005	<DL	0.00010	mg/L		23-SEP-20	R5234136
Sodium (Na)-Total	2.80		0.10	mg/L		23-SEP-20	R5234136
Strontium (Sr)-Total	0.0756		0.0010	mg/L		23-SEP-20	R5234136

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-16 SW24							
Sampled By: SF on 15-SEP-20 @ 13:40							
Matrix: Water							
Total Metals							
Sulfur (S)-Total	1.6		0.50	mg/L		23-SEP-20	R5234136
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		23-SEP-20	R5234136
Thallium (Tl)-Total	0.000015	<DL	0.00030	mg/L		23-SEP-20	R5234136
Thorium (Th)-Total	0.00014		0.00010	mg/L		23-SEP-20	R5234136
Tin (Sn)-Total	0.00004	<DL	0.0010	mg/L		23-SEP-20	R5234136
Titanium (Ti)-Total	0.0172		0.0020	mg/L		23-SEP-20	R5234136
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		23-SEP-20	R5234136
Uranium (U)-Total	0.000469	<DL	0.0050	mg/L		23-SEP-20	R5234136
Vanadium (V)-Total	0.00215	<T	0.0010	mg/L		23-SEP-20	R5234136
Zinc (Zn)-Total	0.0055	<T	0.0030	mg/L		23-SEP-20	R5234136
Zirconium (Zr)-Total	0.00102		0.0010	mg/L		23-SEP-20	R5234136
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-SEP-20	R5232823
Aluminum (Al)-Dissolved	0.0766		0.0050	mg/L		24-SEP-20	R5236157
Antimony (Sb)-Dissolved	0.000105	<DL	0.00060	mg/L		24-SEP-20	R5236157
Arsenic (As)-Dissolved	0.00227	<T	0.0010	mg/L		24-SEP-20	R5236157
Barium (Ba)-Dissolved	0.0160		0.010	mg/L		24-SEP-20	R5236157
Beryllium (Be)-Dissolved	0.000010	<DL	0.0010	mg/L		24-SEP-20	R5236157
Bismuth (Bi)-Dissolved	0.000006	<DL	0.0010	mg/L		24-SEP-20	R5236157
Boron (B)-Dissolved	0.0155	<DL	0.050	mg/L		24-SEP-20	R5236157
Cadmium (Cd)-Dissolved	0.0000080	<DL	0.000017	mg/L		24-SEP-20	R5236157
Calcium (Ca)-Dissolved	32.8		0.20	mg/L		24-SEP-20	R5236157
Cesium (Cs)-Dissolved	0.0000020	<DL	0.000010	mg/L		24-SEP-20	R5236157
Chromium (Cr)-Dissolved	0.00032	<DL	0.0010	mg/L		24-SEP-20	R5236157
Cobalt (Co)-Dissolved	0.000218	<DL	0.00050	mg/L		24-SEP-20	R5236157
Copper (Cu)-Dissolved	0.00148	<T	0.0010	mg/L		24-SEP-20	R5236157
Iron (Fe)-Dissolved	0.524		0.020	mg/L		24-SEP-20	R5236157
Lead (Pb)-Dissolved	0.00016	<T	0.000050	mg/L		24-SEP-20	R5236157
Lithium (Li)-Dissolved	0.0056	<DL	0.050	mg/L		24-SEP-20	R5236157
Magnesium (Mg)-Dissolved	13.8		0.020	mg/L		24-SEP-20	R5236157
Manganese (Mn)-Dissolved	0.112		0.0010	mg/L		24-SEP-20	R5236157
Mercury (Hg)-Dissolved	0.000005	<DL	0.000030	mg/L		23-SEP-20	R5233009
Molybdenum (Mo)-Dissolved	0.000414	<DL	0.0010	mg/L		24-SEP-20	R5236157
Nickel (Ni)-Dissolved	0.00204	<T	0.0020	mg/L		24-SEP-20	R5236157
Phosphorus (P)-Dissolved	0.055		0.050	mg/L		24-SEP-20	R5236157
Potassium (K)-Dissolved	1.55		0.50	mg/L		24-SEP-20	R5236157
Rubidium (Rb)-Dissolved	0.00157		0.00020	mg/L		24-SEP-20	R5236157
Selenium (Se)-Dissolved	0.000225	<T	0.000050	mg/L		24-SEP-20	R5236157
Silicon (Si)-Dissolved	5.51		0.050	mg/L		24-SEP-20	R5236157
Silver (Ag)-Dissolved	0.0000030	<DL	0.00010	mg/L		24-SEP-20	R5236157
Sodium (Na)-Dissolved	2.99		0.10	mg/L		24-SEP-20	R5236157

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-16 SW24 Sampled By: SF on 15-SEP-20 @ 13:40 Matrix: Water							
Dissolved Metals							
Strontium (Sr)-Dissolved	0.0780		0.0010	mg/L		24-SEP-20	R5236157
Sulfur (S)-Dissolved	1.8		0.50	mg/L		24-SEP-20	R5236157
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		24-SEP-20	R5236157
Thallium (Tl)-Dissolved	0.000004	<DL	0.00030	mg/L		24-SEP-20	R5236157
Thorium (Th)-Dissolved	0.00012		0.00010	mg/L		24-SEP-20	R5236157
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		24-SEP-20	R5236157
Titanium (Ti)-Dissolved	0.00466		0.0020	mg/L		24-SEP-20	R5236157
Tungsten (W)-Dissolved	0.000006	<DL	0.010	mg/L		24-SEP-20	R5236157
Uranium (U)-Dissolved	0.000470	<DL	0.0050	mg/L		24-SEP-20	R5236157
Vanadium (V)-Dissolved	0.00108	<T	0.0010	mg/L		24-SEP-20	R5236157
Zinc (Zn)-Dissolved	0.0044	<T	0.0030	mg/L		24-SEP-20	R5236157
Zirconium (Zr)-Dissolved	0.000878	<DL	0.0010	mg/L		24-SEP-20	R5236157
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-SEP-20	R5234896
Chemical Oxygen Demand	121		20	mg/L	18-SEP-20	23-SEP-20	R5233174
Oil and Grease, Total	0.8	<DL	1.0	mg/L	22-SEP-20	23-SEP-20	R5232627
L2504998-17 SW02 Sampled By: SF on 15-SEP-20 @ 15:55 Matrix: Water							
Field Tests							
Dissolved Oxygen, Client Supplied	2.54		0	mg/L		21-SEP-20	R5231712
pH, Client Supplied	6.96		0.10	pH		21-SEP-20	R5231712
Temperature, Client Supplied	13.46		0	Degree C		21-SEP-20	R5231712
Physical Tests							
Color, True	103		2.0	CU		19-SEP-20	R5230893
Conductivity (EC)	137		1.0	uS/cm		18-SEP-20	R5230813
Hardness (as CaCO3)	75.4		0.51	mg/L		25-SEP-20	
pH	7.72		0.10	pH		18-SEP-20	R5230813
Total Suspended Solids	0.5	<DL	3.0	mg/L		20-SEP-20	R5231939
Total Dissolved Solids	104		13	mg/L		20-SEP-20	R5231948
Turbidity	0.89		0.10	NTU		18-SEP-20	R5230797
Anions and Nutrients							
Acidity (as CaCO3)	1.4	<DL	2.0	mg/L		19-SEP-20	R5231130
Alkalinity, Total (as CaCO3)	77.6		2.0	mg/L		18-SEP-20	R5230813
Ammonia, Total (as N)	0.044	<T	0.0050	mg/L		24-SEP-20	R5236079
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		25-SEP-20	
Chloride (Cl)	0.18		0.10	mg/L	18-SEP-20	19-SEP-20	R5231080
Fluoride (F)	0.036		0.020	mg/L	18-SEP-20	19-SEP-20	R5231080
Nitrate (as N)	0.008	<DL	0.020	mg/L		19-SEP-20	R5231080
Nitrite (as N)	<0.001	<W	0.010	mg/L		19-SEP-20	R5231080
Total Kjeldahl Nitrogen	0.950		0.050	mg/L	23-SEP-20	29-SEP-20	R5241925
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	18-SEP-20	19-SEP-20	R5230997

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-17 SW02							
Sampled By: SF on 15-SEP-20 @ 15:55							
Matrix: Water							
Anions and Nutrients							
Sulfate (SO4)	<0.05	<W	0.30	mg/L		19-SEP-20	R5231080
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Total	0.0004	<DL	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Free	0.0001	<DL	0.0020	mg/L		22-SEP-20	R5232783
Organic / Inorganic Carbon							
Dissolved Organic Carbon	24.6	DLM	5.0	mg/L	18-SEP-20	30-SEP-20	R5243384
Total Organic Carbon	37.3	DLM	5.0	mg/L		01-OCT-20	R5244055
Total Metals							
Aluminum (Al)-Total	0.0280	<T	0.0050	mg/L		23-SEP-20	R5234136
Antimony (Sb)-Total	0.000010	<DL	0.00060	mg/L		23-SEP-20	R5234136
Arsenic (As)-Total	0.00057	<DL	0.0010	mg/L		23-SEP-20	R5234136
Barium (Ba)-Total	0.00627	<DL	0.010	mg/L		23-SEP-20	R5234136
Beryllium (Be)-Total	0.0000059	<DL	0.0010	mg/L		23-SEP-20	R5234136
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		23-SEP-20	R5234136
Boron (B)-Total	0.0065	<DL	0.050	mg/L		23-SEP-20	R5234136
Cadmium (Cd)-Total	<0.000001	<W	0.000017	mg/L		23-SEP-20	R5234136
Calcium (Ca)-Total	18.1		0.20	mg/L		23-SEP-20	R5234136
Cesium (Cs)-Total	<0.0000005	<W	0.000010	mg/L		23-SEP-20	R5234136
Chromium (Cr)-Total	0.00022	<DL	0.0010	mg/L		23-SEP-20	R5234136
Cobalt (Co)-Total	0.000105	<DL	0.00050	mg/L		23-SEP-20	R5234136
Copper (Cu)-Total	0.00018	<DL	0.0010	mg/L		23-SEP-20	R5234136
Iron (Fe)-Total	0.190		0.020	mg/L		23-SEP-20	R5234136
Lead (Pb)-Total	0.00001	<DL	0.000050	mg/L		23-SEP-20	R5234136
Lithium (Li)-Total	0.0020	<DL	0.050	mg/L		23-SEP-20	R5234136
Magnesium (Mg)-Total	7.95		0.020	mg/L		23-SEP-20	R5234136
Manganese (Mn)-Total	0.0152		0.0010	mg/L		23-SEP-20	R5234136
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5233011
Molybdenum (Mo)-Total	0.000120	<DL	0.0010	mg/L		23-SEP-20	R5234136
Nickel (Ni)-Total	0.00038	<DL	0.0020	mg/L		23-SEP-20	R5234136
Phosphorus (P)-Total	0.005	<DL	0.050	mg/L		23-SEP-20	R5234136
Potassium (K)-Total	0.20	<DL	0.50	mg/L		23-SEP-20	R5234136
Rubidium (Rb)-Total	0.000718		0.00020	mg/L		23-SEP-20	R5234136
Selenium (Se)-Total	0.000100	<T	0.000050	mg/L		23-SEP-20	R5234136
Silicon (Si)-Total	7.67		0.10	mg/L		23-SEP-20	R5234136
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		23-SEP-20	R5234136
Sodium (Na)-Total	1.09		0.10	mg/L		23-SEP-20	R5234136
Strontium (Sr)-Total	0.0307		0.0010	mg/L		23-SEP-20	R5234136
Sulfur (S)-Total	<0.2	<W	0.50	mg/L		23-SEP-20	R5234136
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		23-SEP-20	R5234136
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		23-SEP-20	R5234136
Thorium (Th)-Total	0.00001	<DL	0.00010	mg/L		23-SEP-20	R5234136

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-17 SW02							
Sampled By: SF on 15-SEP-20 @ 15:55							
Matrix: Water							
Total Metals							
Tin (Sn)-Total	0.00003	<DL	0.0010	mg/L		23-SEP-20	R5234136
Titanium (Ti)-Total	0.00066	<DL	0.0020	mg/L		23-SEP-20	R5234136
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		23-SEP-20	R5234136
Uranium (U)-Total	0.0000185	<DL	0.0050	mg/L		23-SEP-20	R5234136
Vanadium (V)-Total	0.00025	<DL	0.0010	mg/L		23-SEP-20	R5234136
Zinc (Zn)-Total	<0.0005	<W	0.0030	mg/L		23-SEP-20	R5234136
Zirconium (Zr)-Total	0.000084	<DL	0.0010	mg/L		23-SEP-20	R5234136
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-SEP-20	R5232823
Aluminum (Al)-Dissolved	0.0154	<T	0.0050	mg/L		24-SEP-20	R5236157
Antimony (Sb)-Dissolved	0.000020	<DL	0.00060	mg/L		24-SEP-20	R5236157
Arsenic (As)-Dissolved	0.000572	<DL	0.0010	mg/L		24-SEP-20	R5236157
Barium (Ba)-Dissolved	0.00622	<DL	0.010	mg/L		24-SEP-20	R5236157
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		24-SEP-20	R5236157
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		24-SEP-20	R5236157
Boron (B)-Dissolved	0.0055	<DL	0.050	mg/L		24-SEP-20	R5236157
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		24-SEP-20	R5236157
Calcium (Ca)-Dissolved	17.5		0.20	mg/L		24-SEP-20	R5236157
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		24-SEP-20	R5236157
Chromium (Cr)-Dissolved	0.00009	<DL	0.0010	mg/L		24-SEP-20	R5236157
Cobalt (Co)-Dissolved	0.000090	<DL	0.00050	mg/L		24-SEP-20	R5236157
Copper (Cu)-Dissolved	0.00010	<DL	0.0010	mg/L		24-SEP-20	R5236157
Iron (Fe)-Dissolved	0.153		0.020	mg/L		24-SEP-20	R5236157
Lead (Pb)-Dissolved	0.00001	<DL	0.000050	mg/L		24-SEP-20	R5236157
Lithium (Li)-Dissolved	0.0022	<DL	0.050	mg/L		24-SEP-20	R5236157
Magnesium (Mg)-Dissolved	7.71		0.020	mg/L		24-SEP-20	R5236157
Manganese (Mn)-Dissolved	0.0126		0.0010	mg/L		24-SEP-20	R5236157
Mercury (Hg)-Dissolved	0.000005	<DL	0.000030	mg/L		23-SEP-20	R5233009
Molybdenum (Mo)-Dissolved	0.000114	<DL	0.0010	mg/L		24-SEP-20	R5236157
Nickel (Ni)-Dissolved	0.00036	<DL	0.0020	mg/L		24-SEP-20	R5236157
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		24-SEP-20	R5236157
Potassium (K)-Dissolved	0.19	<DL	0.50	mg/L		24-SEP-20	R5236157
Rubidium (Rb)-Dissolved	0.000682		0.00020	mg/L		24-SEP-20	R5236157
Selenium (Se)-Dissolved	0.000090	<T	0.000050	mg/L		24-SEP-20	R5236157
Silicon (Si)-Dissolved	7.48		0.050	mg/L		24-SEP-20	R5236157
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		24-SEP-20	R5236157
Sodium (Na)-Dissolved	1.14		0.10	mg/L		24-SEP-20	R5236157
Strontium (Sr)-Dissolved	0.0305		0.0010	mg/L		24-SEP-20	R5236157
Sulfur (S)-Dissolved	<0.2	<W	0.50	mg/L		24-SEP-20	R5236157
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		24-SEP-20	R5236157
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		24-SEP-20	R5236157

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-17 SW02 Sampled By: SF on 15-SEP-20 @ 15:55 Matrix: Water							
Dissolved Metals							
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		24-SEP-20	R5236157
Tin (Sn)-Dissolved	0.000030	<DL	0.0010	mg/L		24-SEP-20	R5236157
Titanium (Ti)-Dissolved	0.00034	<DL	0.0020	mg/L		24-SEP-20	R5236157
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		24-SEP-20	R5236157
Uranium (U)-Dissolved	0.0000220	<DL	0.0050	mg/L		24-SEP-20	R5236157
Vanadium (V)-Dissolved	0.00016	<DL	0.0010	mg/L		24-SEP-20	R5236157
Zinc (Zn)-Dissolved	0.0026	<DL	0.0030	mg/L		24-SEP-20	R5236157
Zirconium (Zr)-Dissolved	0.000068	<DL	0.0010	mg/L		24-SEP-20	R5236157
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-SEP-20	R5234896
Chemical Oxygen Demand	82		20	mg/L	18-SEP-20	23-SEP-20	R5233174
Oil and Grease, Total	9.8		1.0	mg/L	22-SEP-20	23-SEP-20	R5232627
L2504998-18 SEALED TRAVEL BLANK - SURFACE Sampled By: SF on 15-SEP-20 @ 12:00 Matrix: Water							
Physical Tests							
Color, True	<2.0		2.0	CU		19-SEP-20	R5230893
Conductivity (EC)	<0.2	<W	1.0	uS/cm		18-SEP-20	R5230813
Hardness (as CaCO3)	<0.51		0.51	mg/L		25-SEP-20	
pH	5.45		0.10	pH		18-SEP-20	R5230813
Total Suspended Solids	<0.5	<W	3.0	mg/L		20-SEP-20	R5231939
Total Dissolved Solids	4	<DL	10	mg/L		20-SEP-20	R5231948
Turbidity	<0.10		0.10	NTU		18-SEP-20	R5230797
Anions and Nutrients							
Acidity (as CaCO3)	0.6	<DL	2.0	mg/L		19-SEP-20	R5231130
Alkalinity, Total (as CaCO3)	0.2	<DL	2.0	mg/L		18-SEP-20	R5230813
Ammonia, Total (as N)	<0.002	<W	0.0050	mg/L		24-SEP-20	R5236079
Chloride (Cl)	<0.10		0.10	mg/L	18-SEP-20	19-SEP-20	R5231080
Fluoride (F)	<0.020		0.020	mg/L	18-SEP-20	19-SEP-20	R5231080
Nitrate (as N)	<0.002	<W	0.020	mg/L		19-SEP-20	R5231080
Nitrite (as N)	<0.001	<W	0.010	mg/L		19-SEP-20	R5231080
Total Kjeldahl Nitrogen	<0.050		0.050	mg/L	18-SEP-20	22-SEP-20	R5232813
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	18-SEP-20	19-SEP-20	R5230997
Sulfate (SO4)	<0.05	<W	0.30	mg/L		19-SEP-20	R5231080
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Total	<0.0002	<W	0.0020	mg/L		22-SEP-20	R5232783
Cyanide, Free	<0.0001	<W	0.0020	mg/L		22-SEP-20	R5232783
Organic / Inorganic Carbon							
Dissolved Organic Carbon	<0.50		0.50	mg/L	15-SEP-20	26-SEP-20	R5241327
Total Organic Carbon	<0.50		0.50	mg/L		01-OCT-20	R5244055
Total Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-18 SEALED TRAVEL BLANK - SURFACE							
Sampled By: SF on 15-SEP-20 @ 12:00							
Matrix: Water							
Total Metals							
Aluminum (Al)-Total	<0.0002	<W	0.0050	mg/L		23-SEP-20	R5234136
Antimony (Sb)-Total	<0.000005	<W	0.00060	mg/L		23-SEP-20	R5234136
Arsenic (As)-Total	0.00002	<DL	0.0010	mg/L		23-SEP-20	R5234136
Barium (Ba)-Total	<0.00001	<W	0.010	mg/L		23-SEP-20	R5234136
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		23-SEP-20	R5234136
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		23-SEP-20	R5234136
Boron (B)-Total	<0.0005	<W	0.050	mg/L		23-SEP-20	R5234136
Cadmium (Cd)-Total	<0.000001	<W	0.000017	mg/L		23-SEP-20	R5234136
Calcium (Ca)-Total	<0.002	<W	0.20	mg/L		23-SEP-20	R5234136
Cesium (Cs)-Total	<0.0000005	<W	0.000010	mg/L		23-SEP-20	R5234136
Chromium (Cr)-Total	0.00008	<DL	0.0010	mg/L		23-SEP-20	R5234136
Cobalt (Co)-Total	<0.000005	<W	0.00050	mg/L		23-SEP-20	R5234136
Copper (Cu)-Total	<0.00002	<W	0.0010	mg/L		23-SEP-20	R5234136
Iron (Fe)-Total	<0.0005	<W	0.020	mg/L		23-SEP-20	R5234136
Lead (Pb)-Total	<0.00001	<W	0.000050	mg/L		23-SEP-20	R5234136
Lithium (Li)-Total	<0.0002	<W	0.050	mg/L		23-SEP-20	R5234136
Magnesium (Mg)-Total	<0.0002	<W	0.020	mg/L		23-SEP-20	R5234136
Manganese (Mn)-Total	<0.0002	<W	0.0010	mg/L		23-SEP-20	R5234136
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5233011
Molybdenum (Mo)-Total	<0.000005	<W	0.0010	mg/L		23-SEP-20	R5234136
Nickel (Ni)-Total	<0.00002	<W	0.0020	mg/L		23-SEP-20	R5234136
Phosphorus (P)-Total	0.015	<DL	0.050	mg/L		23-SEP-20	R5234136
Potassium (K)-Total	<0.01	<W	0.50	mg/L		23-SEP-20	R5234136
Rubidium (Rb)-Total	<0.000002	<W	0.00020	mg/L		23-SEP-20	R5234136
Selenium (Se)-Total	<0.000005	<W	0.000050	mg/L		23-SEP-20	R5234136
Silicon (Si)-Total	<0.002	<W	0.10	mg/L		23-SEP-20	R5234136
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		23-SEP-20	R5234136
Sodium (Na)-Total	<0.005	<W	0.10	mg/L		23-SEP-20	R5234136
Strontium (Sr)-Total	<0.000005	<W	0.0010	mg/L		23-SEP-20	R5234136
Sulfur (S)-Total	<0.2	<W	0.50	mg/L		23-SEP-20	R5234136
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		23-SEP-20	R5234136
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		23-SEP-20	R5234136
Thorium (Th)-Total	<0.00001	<W	0.00010	mg/L		23-SEP-20	R5234136
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		23-SEP-20	R5234136
Titanium (Ti)-Total	0.00004	<DL	0.0020	mg/L		23-SEP-20	R5234136
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		23-SEP-20	R5234136
Uranium (U)-Total	<0.0000005	<W	0.0050	mg/L		23-SEP-20	R5234136
Vanadium (V)-Total	0.00005	<DL	0.0010	mg/L		23-SEP-20	R5234136
Zinc (Zn)-Total	<0.0005	<W	0.0030	mg/L		23-SEP-20	R5234136
Zirconium (Zr)-Total	<0.000002	<W	0.0010	mg/L		23-SEP-20	R5234136
Dissolved Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-18 SEALED TRAVEL BLANK - SURFACE Sampled By: SF on 15-SEP-20 @ 12:00 Matrix: Water							
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					23-SEP-20	R5232823
Aluminum (Al)-Dissolved	0.0006	<DL	0.0050	mg/L		24-SEP-20	R5236157
Antimony (Sb)-Dissolved	<0.000005	<W	0.00060	mg/L		24-SEP-20	R5236157
Arsenic (As)-Dissolved	<0.0000002	<W	0.0010	mg/L		24-SEP-20	R5236157
Barium (Ba)-Dissolved	0.000015	<DL	0.010	mg/L		24-SEP-20	R5236157
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		24-SEP-20	R5236157
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		24-SEP-20	R5236157
Boron (B)-Dissolved	<0.0005	<W	0.050	mg/L		24-SEP-20	R5236157
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		24-SEP-20	R5236157
Calcium (Ca)-Dissolved	<0.002	<W	0.20	mg/L		24-SEP-20	R5236157
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		24-SEP-20	R5236157
Chromium (Cr)-Dissolved	0.00008	<DL	0.0010	mg/L		24-SEP-20	R5236157
Cobalt (Co)-Dissolved	<0.000002	<W	0.00050	mg/L		24-SEP-20	R5236157
Copper (Cu)-Dissolved	<0.00002	<W	0.0010	mg/L		24-SEP-20	R5236157
Iron (Fe)-Dissolved	<0.0005	<W	0.020	mg/L		24-SEP-20	R5236157
Lead (Pb)-Dissolved	<0.00001	<W	0.000050	mg/L		24-SEP-20	R5236157
Lithium (Li)-Dissolved	<0.0002	<W	0.050	mg/L		24-SEP-20	R5236157
Magnesium (Mg)-Dissolved	0.0005	<DL	0.020	mg/L		24-SEP-20	R5236157
Manganese (Mn)-Dissolved	<0.00002	<W	0.0010	mg/L		24-SEP-20	R5236157
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-SEP-20	R5233009
Molybdenum (Mo)-Dissolved	<0.000002	<W	0.0010	mg/L		24-SEP-20	R5236157
Nickel (Ni)-Dissolved	<0.00002	<W	0.0020	mg/L		24-SEP-20	R5236157
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		24-SEP-20	R5236157
Potassium (K)-Dissolved	<0.01	<W	0.50	mg/L		24-SEP-20	R5236157
Rubidium (Rb)-Dissolved	<0.000002	<W	0.00020	mg/L		24-SEP-20	R5236157
Selenium (Se)-Dissolved	<0.000005	<W	0.000050	mg/L		24-SEP-20	R5236157
Silicon (Si)-Dissolved	<0.005	<W	0.050	mg/L		24-SEP-20	R5236157
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		24-SEP-20	R5236157
Sodium (Na)-Dissolved	<0.005	<W	0.10	mg/L		24-SEP-20	R5236157
Strontium (Sr)-Dissolved	<0.00002	<W	0.0010	mg/L		24-SEP-20	R5236157
Sulfur (S)-Dissolved	<0.2	<W	0.50	mg/L		24-SEP-20	R5236157
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		24-SEP-20	R5236157
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		24-SEP-20	R5236157
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		24-SEP-20	R5236157
Tin (Sn)-Dissolved	0.000015	<DL	0.0010	mg/L		24-SEP-20	R5236157
Titanium (Ti)-Dissolved	<0.00002	<W	0.0020	mg/L		24-SEP-20	R5236157
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		24-SEP-20	R5236157
Uranium (U)-Dissolved	<0.0000005	<W	0.0050	mg/L		24-SEP-20	R5236157
Vanadium (V)-Dissolved	<0.00002	<W	0.0010	mg/L		24-SEP-20	R5236157
Zinc (Zn)-Dissolved	0.0002	<DL	0.0030	mg/L		24-SEP-20	R5236157
Zirconium (Zr)-Dissolved	0.000010	<DL	0.0010	mg/L		24-SEP-20	R5236157

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2504998-18 SEALED TRAVEL BLANK - SURFACE Sampled By: SF on 15-SEP-20 @ 12:00 Matrix: Water							
Dissolved Metals							
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		19-SEP-20	R5234896
Chemical Oxygen Demand	<20		20	mg/L	18-SEP-20	23-SEP-20	R5233174
Oil and Grease, Total	0.8	<DL	1.0	mg/L	22-SEP-20	23-SEP-20	R5232627

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Duplicate	Silver (Ag)-Total	DUP-H	L2504998-10, -11, -12, -13, -14, -15, -5, -6, -7, -8, -9
Laboratory Control Sample	Iron (Fe)-Dissolved	MES	L2504998-14, -15, -16, -17, -18
Laboratory Control Sample	Iron (Fe)-Total	MES	L2504998-1, -2, -3, -4
Laboratory Control Sample	Iron (Fe)-Total	MES	L2504998-16, -17, -18
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2504998-10, -11, -12, -13, -5, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2504998-10, -11, -12, -13, -5, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L2504998-10, -11, -12, -13, -5, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2504998-10, -11, -12, -13, -5, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2504998-10, -11, -12, -13, -5, -7, -8, -9
Matrix Spike	Aluminum (Al)-Total	MS-B	L2504998-1, -2, -3, -4
Matrix Spike	Barium (Ba)-Total	MS-B	L2504998-1, -2, -3, -4
Matrix Spike	Calcium (Ca)-Total	MS-B	L2504998-1, -2, -3, -4
Matrix Spike	Calcium (Ca)-Total	MS-B	L2504998-10, -11, -12, -13, -14, -15, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2504998-1, -2, -3, -4
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2504998-10, -11, -12, -13, -14, -15, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Total	MS-B	L2504998-1, -2, -3, -4
Matrix Spike	Manganese (Mn)-Total	MS-B	L2504998-10, -11, -12, -13, -14, -15, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Total	MS-B	L2504998-1, -2, -3, -4
Matrix Spike	Sodium (Na)-Total	MS-B	L2504998-10, -11, -12, -13, -14, -15, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Total	MS-B	L2504998-1, -2, -3, -4
Matrix Spike	Strontium (Sr)-Total	MS-B	L2504998-10, -11, -12, -13, -14, -15, -5, -6, -7, -8, -9
Matrix Spike	Ammonia, Total (as N)	MS-B	L2504998-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Total Kjeldahl Nitrogen	MS-B	L2504998-17
Matrix Spike	Total Organic Carbon	MS-B	L2504998-13

Sample Parameter Qualifier key listed:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
BODF	BOD analyzed from frozen (preserved) sample. Hold time for unpreserved samples was exceeded, but freezing extends hold time to at least 1 month [ISO 5667-3 (2012)].
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-MISA-TB	Effluent	Acidity (as CaCO ₃)	APHA 2310 B-POTENTIOMETRIC TITRATION
		Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample.	
ALK-MISA-TB	Effluent	Alkalinity, Total (as CaCO ₃)	APHA 2320 B-Auto-Pot. Titration
		This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.	
BOD-TB	Water	Biochemical Oxygen Demand (BOD)	APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND
		All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation.	
CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)
		Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.	
CN-FREE-MISA-CFA-WT	Effluent	Free Cyanide by Continuous Flow Analyzer	ASTM D7237-10 (modified)
		This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion	

Reference Information

Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis.

CN-T-MISA-CFA-WT Effluent Total Cyanide by CFA ISO 14403-2:2012 (modified)

This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis.

Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.

CN-WAD-MISA-CFA-WT Effluent Weak Acid Dissociable Cyanide by CFA APHA 4500-CN CYANIDE (modified)

This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.

COD-TB Water Chemical Oxygen Demand APHA 5220D

This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.

COLOUR-TB Water Colour, True APHA 2120 C

True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard.

DO-CLIENT-TB Water Dissolved Oxygen, Client Supplied Result supplied by Client

DOC-WT Effluent Dissolved Organic Carbon for MISA APHA 5310 B-Instrumental

EC-MISA-TB Effluent Conductivity (EC) APHA 2510 B-ELECTRODE

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB Water Fluoride in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB Effluent Hardness (as CaCO₃) CALCULATION

HG-DIS-WT Effluent Mercury (Hg)-Dissolved for MISA SW846 7470A

HG-TOT-WT Effluent Mercury (Hg)-Total for MISA SW846 7470A

MET-D-MISA-TB Effluent Dissolved Metals in Water (MISA) APHA 3030B/6020B (mod)

Water samples are filtered (0.45 µm), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-MISA-TB Effluent Total Metals in Water (MISA) EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-MISA-F-TB Effluent Ammonia by Discrete Analyzer catnr 157/158 062217/99321057 (modified)

Ammonia is determined by Flow-injection analysis with fluorescence detection

NH3-UNION-CALC-TB Effluent Un-ionized ammonia Calculation

NO2-MISA-IC-TB Effluent Nitrite in Water by IC EPA 300.1 (mod)

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

NO3-MISA-IC-TB Effluent Nitrate in Water by IC EPA 300.1 (mod)

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

Reference Information

OGG-TOT-WT	Effluent	Oil and Grease, Total for MISA	APHA 5520 B-Hexane Gravimetric
------------	----------	--------------------------------	--------------------------------

PH-CLIENT-TB	Water	pH	Result supplied by Client
--------------	-------	----	---------------------------

PH-MISA-TB	Effluent	pH	APHA 4500-H-ELECTRODE
------------	----------	----	-----------------------

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

PO4-DO-COL-TB	Water	Dissolved Orthophosphate	APHA 4500-P B, F, G (modified)
---------------	-------	--------------------------	--------------------------------

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

RA226-MMER-BE	Water	Radium 226	Radium Isotopes by Alpha Spectrometry
---------------	-------	------------	---------------------------------------

Determination of Gamma Emitting Radionuclides In Water and Solids by Gamma Spectrometry.

SO4-MISA-IC-TB	Effluent	Sulfate in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

TDS-MISA-TB	Effluent	Total Dissolved Solids	APHA 2540 C (modified)
-------------	----------	------------------------	------------------------

Aqueous matrices are analyzed using gravimetry and evaporation

TEMP-CLIENT-TB	Water	Temperature	Result supplied by Client
----------------	-------	-------------	---------------------------

TKN-F-TB	Water	TKN in Water by Fluorescence	catnr 157/158, 062818/99334821
----------	-------	------------------------------	--------------------------------

Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection

TOC-WT	Water	Total Organic Carbon	APHA 5310B
--------	-------	----------------------	------------

Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

TSS-MISA-TB	Effluent	Total Suspended Solids	APHA 2540 D (modified)
-------------	----------	------------------------	------------------------

Aqueous matrices are analyzed using gravimetry

TURBIDITY-TB	Water	Turbidity	APHA 2130 B-Nephelometer
--------------	-------	-----------	--------------------------

Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
BE	BECQUEREL LABORATORIES INC. - MISSISSAUGA, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 1 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BOD-TB								
	Water							
Batch	R5232781							
WG3407328-2	LCS							
Biochemical Oxygen Demand			88.6		%		85-115	18-SEP-20
WG3407328-6	LCS							
Biochemical Oxygen Demand			95.1		%		85-115	18-SEP-20
WG3407328-1	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	18-SEP-20
WG3407328-5	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	18-SEP-20
Batch	R5234896							
WG3408024-3	DUP	L2504979-4						
Biochemical Oxygen Demand		<2.0	<2.0	RPD-NA	mg/L	N/A	30	19-SEP-20
WG3408024-2	LCS							
Biochemical Oxygen Demand			96.7		%		85-115	19-SEP-20
WG3408024-1	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	19-SEP-20
Batch	R5242641							
WG3412170-2	LCS							
Biochemical Oxygen Demand			99.5		%		85-115	25-SEP-20
WG3412170-1	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	25-SEP-20
CL-L-IC-N-TB								
	Water							
Batch	R5231080							
WG3407578-3	DUP	L2504891-1						
Chloride (Cl)		150	154		mg/L	2.7	20	19-SEP-20
WG3407700-3	DUP	L2504898-2						
Chloride (Cl)		8.86	8.84		mg/L	0.3	20	19-SEP-20
WG3408048-3	DUP	L2504898-10						
Chloride (Cl)		9.34	9.11		mg/L	2.5	20	19-SEP-20
WG3407578-2	LCS							
Chloride (Cl)			100.9		%		90-110	19-SEP-20
WG3407700-2	LCS							
Chloride (Cl)			101.9		%		90-110	19-SEP-20
WG3408048-2	LCS							
Chloride (Cl)			102.3		%		90-110	19-SEP-20
WG3407578-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	19-SEP-20
WG3407700-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	19-SEP-20

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 2 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-L-IC-N-TB								
	Water							
Batch	R5231080							
WG3408048-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	19-SEP-20
WG3407700-4	MS	L2504898-9						
Chloride (Cl)			109.3		%		75-125	19-SEP-20
WG3408048-4	MS	L2505205-5						
Chloride (Cl)			109.5		%		75-125	19-SEP-20
COD-TB								
	Water							
Batch	R5233174							
WG3407693-3	DUP	L2504891-1						
Chemical Oxygen Demand		50	51		mg/L	1.8	20	23-SEP-20
WG3407693-2	LCS							
Chemical Oxygen Demand			109.5		%		85-115	23-SEP-20
WG3407693-1	MB							
Chemical Oxygen Demand			<20		mg/L		20	23-SEP-20
WG3407693-4	MS	L2504891-2						
Chemical Oxygen Demand			93.2		%		75-125	23-SEP-20
Batch	R5235139							
WG3407688-3	DUP	L2504979-7						
Chemical Oxygen Demand		44	42		mg/L	5.6	20	24-SEP-20
WG3407688-2	LCS							
Chemical Oxygen Demand			108.1		%		85-115	24-SEP-20
WG3407688-1	MB							
Chemical Oxygen Demand			<20		mg/L		20	24-SEP-20
WG3407688-4	MS	L2504998-1						
Chemical Oxygen Demand			101.6		%		75-125	24-SEP-20
COLOUR-TB								
	Water							
Batch	R5230476							
WG3407707-3	DUP	L2504998-2						
Color, True		29.7	29.8		CU	0.5	20	18-SEP-20
WG3407707-2	LCS							
Color, True			98.4		%		85-115	18-SEP-20
WG3407707-1	MB							
Color, True			<2.0		CU		2	18-SEP-20
Batch	R5230893							
WG3407572-3	DUP	L2504891-3						
Color, True		60.0	60.4		CU	0.6	20	19-SEP-20
WG3407572-2	LCS							

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 3 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
COLOUR-TB		Water						
Batch	R5230893							
WG3407572-2	LCS							
Color, True			98.8		%		85-115	19-SEP-20
WG3407572-1	MB							
Color, True			<2.0		CU		2	19-SEP-20
Batch	R5231049							
WG3408045-3	DUP	L2504998-7						
Color, True		45.3	45.5		CU	0.5	20	19-SEP-20
WG3408045-2	LCS							
Color, True			98.9		%		85-115	19-SEP-20
WG3408045-1	MB							
Color, True			<2.0		CU		2	19-SEP-20
F-IC-N-TB		Water						
Batch	R5231080							
WG3407578-3	DUP	L2504891-1						
Fluoride (F)		<0.040	<0.040	RPD-NA	mg/L	N/A	20	19-SEP-20
WG3407700-3	DUP	L2504898-2						
Fluoride (F)		<0.020	<0.020	RPD-NA	mg/L	N/A	20	19-SEP-20
WG3408048-3	DUP	L2504898-10						
Fluoride (F)		<0.020	<0.020	RPD-NA	mg/L	N/A	20	19-SEP-20
WG3407578-2	LCS							
Fluoride (F)			100.2		%		90-110	19-SEP-20
WG3407700-2	LCS							
Fluoride (F)			100.7		%		90-110	19-SEP-20
WG3408048-2	LCS							
Fluoride (F)			102.2		%		90-110	19-SEP-20
WG3407578-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	19-SEP-20
WG3407700-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	19-SEP-20
WG3408048-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	19-SEP-20
WG3407700-4	MS	L2504898-9						
Fluoride (F)			104.4		%		75-125	19-SEP-20
PO4-DO-COL-TB		Water						
Batch	R5230997							
WG3407575-3	DUP	L2504998-6						
Orthophosphate-Dissolved (as P)		0.0176	0.0181		mg/L	2.6	20	18-SEP-20
WG3407575-2	LCS							

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 4 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PO4-DO-COL-TB								
	Water							
Batch	R5230997							
WG3407575-2	LCS							
Orthophosphate-Dissolved (as P)			98.9		%		80-120	18-SEP-20
WG3407575-1	MB							
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	18-SEP-20
WG3407575-4	MS	L2504998-11						
Orthophosphate-Dissolved (as P)			81.6		%		70-130	18-SEP-20
Batch	R5231640							
WG3407725-3	DUP	L2504979-1						
Orthophosphate-Dissolved (as P)		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	21-SEP-20
WG3408046-3	DUP	L2505112-1						
Orthophosphate-Dissolved (as P)		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	21-SEP-20
WG3407725-2	LCS							
Orthophosphate-Dissolved (as P)			105.6		%		80-120	21-SEP-20
WG3408046-2	LCS							
Orthophosphate-Dissolved (as P)			104.3		%		80-120	21-SEP-20
WG3407725-1	MB							
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	21-SEP-20
WG3408046-1	MB							
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	21-SEP-20
WG3407725-4	MS	L2504979-2						
Orthophosphate-Dissolved (as P)			101.3		%		70-130	21-SEP-20
WG3408046-4	MS	L2505112-3						
Orthophosphate-Dissolved (as P)			103.5		%		70-130	21-SEP-20
TKN-F-TB								
	Water							
Batch	R5232813							
WG3407680-3	DUP	L2504979-3						
Total Kjeldahl Nitrogen		1.12	1.19		mg/L	6.1	20	22-SEP-20
WG3407682-3	DUP	L2504998-16						
Total Kjeldahl Nitrogen		1.46	1.40		mg/L	4.7	20	22-SEP-20
WG3407680-2	LCS							
Total Kjeldahl Nitrogen			103.0		%		75-125	22-SEP-20
WG3407682-2	LCS							
Total Kjeldahl Nitrogen			103.6		%		75-125	22-SEP-20
WG3407680-1	MB							
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	22-SEP-20
WG3407682-1	MB							
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	22-SEP-20
WG3407680-4	MS	L2504979-4						

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 6 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TURBIDITY-TB		Water						
Batch	R5230797							
WG3407829-2	LCS							
Turbidity			99.0		%		85-115	18-SEP-20
WG3407829-1	MB							
Turbidity			<0.10		NTU		0.1	18-SEP-20
Batch	R5231036							
WG3408221-6	DUP	L2504998-2						
Turbidity		2.33	2.37		NTU	1.7	15	19-SEP-20
WG3408221-5	LCS							
Turbidity			99.5		%		85-115	19-SEP-20
WG3408221-4	MB							
Turbidity			<0.10		NTU		0.1	19-SEP-20
ACY-MISA-TB		Effluent						
Batch	R5231130							
WG3407570-3	DUP	L2504891-1						
Acidity (as CaCO3)		5.0	6.6	J	mg/L	1.5	4	19-SEP-20
WG3407690-3	DUP	L2504998-2						
Acidity (as CaCO3)		<0.2	<0.2	RPD-NA	mg/L	N/A	20	19-SEP-20
WG3408039-3	DUP	L2504998-7						
Acidity (as CaCO3)		0.6	0.6	RPD-NA	mg/L	N/A	20	19-SEP-20
WG3407570-2	LCS							
Acidity (as CaCO3)			105.1		%		85-115	19-SEP-20
WG3407690-2	LCS							
Acidity (as CaCO3)			102.5		%		85-115	19-SEP-20
WG3408039-2	LCS							
Acidity (as CaCO3)			105.7		%		85-115	19-SEP-20
WG3407570-1	MB							
Acidity (as CaCO3)			1.4		mg/L		4	19-SEP-20
WG3407690-1	MB							
Acidity (as CaCO3)			2.0		mg/L		4	19-SEP-20
WG3408039-1	MB							
Acidity (as CaCO3)			1.6		mg/L		4	19-SEP-20
ALK-MISA-TB		Effluent						
Batch	R5230813							
WG3407568-3	DUP	L2504998-17						
Alkalinity, Total (as CaCO3)		77.6	80.0		mg/L	3.0	20	18-SEP-20
Alkalinity, Phenolphthalein		<0.2	<0.2	RPD-NA	mg/L	N/A	25	18-SEP-20
WG3407681-3	DUP	L2504979-7						

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 7 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ALK-MISA-TB		Effluent						
Batch R5230813								
WG3407681-3	DUP	L2504979-7						
Alkalinity, Total (as CaCO3)		191	182		mg/L	4.7	20	18-SEP-20
Alkalinity, Phenolphthalein		1.8	2.2	RPD-NA	mg/L	N/A	25	18-SEP-20
WG3407568-2	LCS							
Alkalinity, Total (as CaCO3)			111.7		%		85-115	18-SEP-20
WG3407681-2	LCS							
Alkalinity, Total (as CaCO3)			106.9		%		85-115	18-SEP-20
WG3407568-1	MB							
Alkalinity, Total (as CaCO3)			<0.2		mg/L		2	18-SEP-20
Alkalinity, Phenolphthalein			<0.2		mg/L		2	18-SEP-20
WG3407681-1	MB							
Alkalinity, Total (as CaCO3)			0.2		mg/L		2	18-SEP-20
Alkalinity, Phenolphthalein			<0.2		mg/L		2	18-SEP-20
Batch R5231283								
WG3408032-2	LCS							
Alkalinity, Total (as CaCO3)			108.9		%		85-115	20-SEP-20
WG3408032-1	MB							
Alkalinity, Total (as CaCO3)			0.4		mg/L		2	20-SEP-20
Alkalinity, Phenolphthalein			<0.2		mg/L		2	20-SEP-20
CN-FREE-MISA-CFA-WT		Effluent						
Batch R5232783								
WG3410199-3	DUP	L2504998-8						
Cyanide, Free		0.0002	0.0002	RPD-NA	mg/L	N/A	20	22-SEP-20
WG3410199-7	DUP	L2504979-4						
Cyanide, Free		0.0005	0.0002	RPD-NA	mg/L	N/A	20	22-SEP-20
WG3410199-2	LCS							
Cyanide, Free			98.8		%		80-120	22-SEP-20
WG3410199-6	LCS							
Cyanide, Free			98.1		%		80-120	22-SEP-20
WG3410199-1	MB							
Cyanide, Free			0.0005		mg/L		0.002	22-SEP-20
WG3410199-5	MB							
Cyanide, Free			0.0007		mg/L		0.002	22-SEP-20
WG3410199-4	MS	L2504998-8						
Cyanide, Free			102.8		%		75-125	22-SEP-20
WG3410199-8	MS	L2504979-4						
Cyanide, Free			103.5		%		75-125	22-SEP-20

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 8 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CN-T-MISA-CFA-WT		Effluent						
Batch	R5232783							
WG3410199-3	DUP	L2504998-8						
Cyanide, Total		0.0004	0.0004	RPD-NA	mg/L	N/A	20	22-SEP-20
WG3410199-7	DUP	L2504979-4						
Cyanide, Total		0.0006	0.0004	RPD-NA	mg/L	N/A	20	22-SEP-20
WG3410199-2	LCS							
Cyanide, Total			97.2		%		80-120	22-SEP-20
WG3410199-6	LCS							
Cyanide, Total			98.2		%		80-120	22-SEP-20
WG3410199-1	MB							
Cyanide, Total			0.0004		mg/L		0.002	22-SEP-20
WG3410199-5	MB							
Cyanide, Total			0.0004		mg/L		0.002	22-SEP-20
WG3410199-4	MS	L2504998-8						
Cyanide, Total			95.2		%		75-125	22-SEP-20
WG3410199-8	MS	L2504979-4						
Cyanide, Total			98.3		%		75-125	22-SEP-20
CN-WAD-MISA-CFA-WT		Effluent						
Batch	R5232783							
WG3410199-3	DUP	L2504998-8						
Cyanide, Weak Acid Diss		0.0005	0.0003	RPD-NA	mg/L	N/A	20	22-SEP-20
WG3410199-7	DUP	L2504979-4						
Cyanide, Weak Acid Diss		0.0005	0.0004	RPD-NA	mg/L	N/A	20	22-SEP-20
WG3410199-2	LCS							
Cyanide, Weak Acid Diss			100.6		%		80-120	22-SEP-20
WG3410199-6	LCS							
Cyanide, Weak Acid Diss			98.3		%		80-120	22-SEP-20
WG3410199-1	MB							
Cyanide, Weak Acid Diss			0.0003		mg/L		0.002	22-SEP-20
WG3410199-5	MB							
Cyanide, Weak Acid Diss			0.0002		mg/L		0.002	22-SEP-20
WG3410199-4	MS	L2504998-8						
Cyanide, Weak Acid Diss			102.2		%		75-125	22-SEP-20
WG3410199-8	MS	L2504979-4						
Cyanide, Weak Acid Diss			104.2		%		75-125	22-SEP-20

DOC-WT **Effluent**

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 9 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DOC-WT		Effluent						
Batch R5241327								
WG3410210-3	DUP	WG3410210-5						
	Dissolved Organic Carbon	2.22	2.50		mg/L	12	25	26-SEP-20
WG3410210-2	LCS							
	Dissolved Organic Carbon		112.0		%		70-130	26-SEP-20
WG3410210-1	MB							
	Dissolved Organic Carbon		<0.50		mg/L		0.5	26-SEP-20
Batch R5243384								
WG3410207-3	DUP	L2504979-5						
	Dissolved Organic Carbon	5.6	6.3		mg/L	12	25	30-SEP-20
WG3410207-2	LCS							
	Dissolved Organic Carbon		92.8		%		70-130	30-SEP-20
WG3410207-1	MB							
	Dissolved Organic Carbon		<0.50		mg/L		0.5	30-SEP-20
EC-MISA-TB		Effluent						
Batch R5230813								
WG3407568-3	DUP	L2504998-17						
	Conductivity (EC)	137	137		uS/cm	0.2	10	18-SEP-20
WG3407681-3	DUP	L2504979-7						
	Conductivity (EC)	353	352		uS/cm	0.3	10	18-SEP-20
WG3407568-2	LCS							
	Conductivity (EC)		99.8		%		90-110	18-SEP-20
WG3407681-2	LCS							
	Conductivity (EC)		100.0		%		90-110	18-SEP-20
WG3407568-1	MB							
	Conductivity (EC)		1.0		uS/cm		2	18-SEP-20
WG3407681-1	MB							
	Conductivity (EC)		1.2		uS/cm		2	18-SEP-20
Batch R5231130								
WG3408039-3	DUP	L2504998-7						
	Conductivity (EC)	84.8	84.4		uS/cm	0.5	10	19-SEP-20
WG3408039-2	LCS							
	Conductivity (EC)		98.4		%		90-110	19-SEP-20
WG3408039-1	MB							
	Conductivity (EC)		1.2		uS/cm		2	19-SEP-20

HG-DIS-WT **Effluent**

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 10 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-DIS-WT		Effluent						
Batch R5232984								
WG3410530-3	DUP	L2504979-1						
Mercury (Hg)-Dissolved		0.000005	<0.000005	RPD-NA	mg/L	N/A	20	23-SEP-20
WG3410530-2	LCS							
Mercury (Hg)-Dissolved			111.0		%		80-120	23-SEP-20
WG3410530-1	MB							
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.00003	23-SEP-20
WG3410530-4	MS	L2504979-2						
Mercury (Hg)-Dissolved			108.7		%		70-130	23-SEP-20
Batch R5233009								
WG3410596-3	DUP	L2504998-14						
Mercury (Hg)-Dissolved		<0.000005	0.000005	RPD-NA	mg/L	N/A	20	23-SEP-20
WG3410596-2	LCS							
Mercury (Hg)-Dissolved			113.0		%		80-120	23-SEP-20
WG3410596-1	MB							
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.00003	23-SEP-20
WG3410596-4	MS	L2504998-15						
Mercury (Hg)-Dissolved			104.3		%		70-130	23-SEP-20
HG-TOT-WT		Effluent						
Batch R5232985								
WG3410589-3	DUP	L2504979-1						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	23-SEP-20
WG3410589-2	LCS							
Mercury (Hg)-Total			110.0		%		80-120	23-SEP-20
WG3410589-1	MB							
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	23-SEP-20
WG3410589-4	MS	L2504979-2						
Mercury (Hg)-Total			110.2		%		70-130	23-SEP-20
Batch R5233011								
WG3410599-3	DUP	L2504998-14						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	23-SEP-20
WG3410599-2	LCS							
Mercury (Hg)-Total			113.0		%		80-120	23-SEP-20
WG3410599-1	MB							
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	23-SEP-20
WG3410599-4	MS	L2504998-15						
Mercury (Hg)-Total			104.8		%		70-130	23-SEP-20

MET-D-MISA-TB **Effluent**

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 11 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB	Effluent							
Batch	R5234336							
WG3410456-6	LCS							
Aluminum (Al)-Dissolved			106.7		%		80-120	23-SEP-20
Antimony (Sb)-Dissolved			99.2		%		80-120	23-SEP-20
Arsenic (As)-Dissolved			101.7		%		80-120	23-SEP-20
Barium (Ba)-Dissolved			97.2		%		80-120	23-SEP-20
Beryllium (Be)-Dissolved			99.2		%		80-120	23-SEP-20
Bismuth (Bi)-Dissolved			95.8		%		80-120	23-SEP-20
Boron (B)-Dissolved			92.1		%		80-120	23-SEP-20
Cadmium (Cd)-Dissolved			96.9		%		80-120	23-SEP-20
Calcium (Ca)-Dissolved			99.3		%		80-120	23-SEP-20
Cesium (Cs)-Dissolved			100.0		%		80-120	23-SEP-20
Chromium (Cr)-Dissolved			101.9		%		80-120	23-SEP-20
Cobalt (Co)-Dissolved			99.6		%		80-120	23-SEP-20
Copper (Cu)-Dissolved			98.4		%		80-120	23-SEP-20
Iron (Fe)-Dissolved			116.4		%		80-120	23-SEP-20
Lead (Pb)-Dissolved			97.2		%		80-120	23-SEP-20
Lithium (Li)-Dissolved			105.4		%		80-120	23-SEP-20
Magnesium (Mg)-Dissolved			106.5		%		80-120	23-SEP-20
Manganese (Mn)-Dissolved			101.8		%		80-120	23-SEP-20
Molybdenum (Mo)-Dissolved			103.2		%		80-120	23-SEP-20
Nickel (Ni)-Dissolved			98.0		%		80-120	23-SEP-20
Phosphorus (P)-Dissolved			105.6		%		70-130	23-SEP-20
Potassium (K)-Dissolved			101.5		%		80-120	23-SEP-20
Rubidium (Rb)-Dissolved			104.1		%		80-120	23-SEP-20
Selenium (Se)-Dissolved			92.4		%		80-120	23-SEP-20
Silicon (Si)-Dissolved			107.1		%		60-140	23-SEP-20
Silver (Ag)-Dissolved			97.0		%		80-120	23-SEP-20
Sodium (Na)-Dissolved			96.6		%		80-120	23-SEP-20
Strontium (Sr)-Dissolved			103.6		%		80-120	23-SEP-20
Sulfur (S)-Dissolved			99.0		%		80-120	23-SEP-20
Tellurium (Te)-Dissolved			96.1		%		80-120	23-SEP-20
Thallium (Tl)-Dissolved			97.9		%		80-120	23-SEP-20
Thorium (Th)-Dissolved			98.0		%		80-120	23-SEP-20
Tin (Sn)-Dissolved			97.6		%		80-120	23-SEP-20

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 12 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R5234336							
WG3410456-6	LCS							
Titanium (Ti)-Dissolved			107.4		%		80-120	23-SEP-20
Tungsten (W)-Dissolved			97.5		%		80-120	23-SEP-20
Uranium (U)-Dissolved			95.7		%		80-120	23-SEP-20
Vanadium (V)-Dissolved			102.4		%		80-120	23-SEP-20
Zinc (Zn)-Dissolved			99.6		%		80-120	23-SEP-20
Zirconium (Zr)-Dissolved			106.3		%		80-120	23-SEP-20
WG3410456-5	MB							
Aluminum (Al)-Dissolved			<0.0002		mg/L		0.005	23-SEP-20
Antimony (Sb)-Dissolved			<0.000005		mg/L		0.0006	23-SEP-20
Arsenic (As)-Dissolved			0.0000080		mg/L		0.001	23-SEP-20
Barium (Ba)-Dissolved			<0.000005		mg/L		0.01	23-SEP-20
Beryllium (Be)-Dissolved			<0.000002		mg/L		0.001	23-SEP-20
Bismuth (Bi)-Dissolved			<0.000002		mg/L		0.001	23-SEP-20
Boron (B)-Dissolved			<0.0005		mg/L		0.05	23-SEP-20
Cadmium (Cd)-Dissolved			<0.0000005		mg/L		0.000017	23-SEP-20
Calcium (Ca)-Dissolved			0.020		mg/L		0.2	23-SEP-20
Cesium (Cs)-Dissolved			<0.0000005		mg/L		0.00001	23-SEP-20
Chromium (Cr)-Dissolved			0.00002		mg/L		0.001	23-SEP-20
Cobalt (Co)-Dissolved			<0.000002		mg/L		0.0005	23-SEP-20
Copper (Cu)-Dissolved			<0.00002		mg/L		0.001	23-SEP-20
Iron (Fe)-Dissolved			<0.0005		mg/L		0.02	23-SEP-20
Lead (Pb)-Dissolved			<0.00001		mg/L		0.00005	23-SEP-20
Lithium (Li)-Dissolved			0.0006		mg/L		0.05	23-SEP-20
Magnesium (Mg)-Dissolved			0.0005		mg/L		0.02	23-SEP-20
Manganese (Mn)-Dissolved			0.00010		mg/L		0.001	23-SEP-20
Molybdenum (Mo)-Dissolved			<0.000002		mg/L		0.001	23-SEP-20
Nickel (Ni)-Dissolved			<0.00002		mg/L		0.002	23-SEP-20
Phosphorus (P)-Dissolved			<0.005		mg/L		0.05	23-SEP-20
Potassium (K)-Dissolved			0.02		mg/L		0.5	23-SEP-20
Rubidium (Rb)-Dissolved			<0.000002		mg/L		0.0002	23-SEP-20
Selenium (Se)-Dissolved			<0.000005		mg/L		0.00005	23-SEP-20
Silicon (Si)-Dissolved			<0.005		mg/L		0.05	23-SEP-20
Silver (Ag)-Dissolved			<0.0000005		mg/L		0.0001	23-SEP-20
Sodium (Na)-Dissolved			<0.005		mg/L		0.1	23-SEP-20

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 13 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch R5234336								
WG3410456-5 MB								
Strontium (Sr)-Dissolved			<0.00002		mg/L		0.001	23-SEP-20
Sulfur (S)-Dissolved			<0.2		mg/L		0.5	23-SEP-20
Tellurium (Te)-Dissolved			0.00003		mg/L		0.001	23-SEP-20
Thallium (Tl)-Dissolved			<0.000002		mg/L		0.0003	23-SEP-20
Thorium (Th)-Dissolved			<0.00001		mg/L		0.0001	23-SEP-20
Tin (Sn)-Dissolved			<0.000005		mg/L		0.001	23-SEP-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.002	23-SEP-20
Tungsten (W)-Dissolved			<0.000002		mg/L		0.01	23-SEP-20
Uranium (U)-Dissolved			<0.0000005		mg/L		0.005	23-SEP-20
Vanadium (V)-Dissolved			<0.00002		mg/L		0.001	23-SEP-20
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.003	23-SEP-20
Zirconium (Zr)-Dissolved			<0.000002		mg/L		0.001	23-SEP-20
Batch R5236157								
WG3410456-7 DUP		L2504998-12						
Aluminum (Al)-Dissolved		0.0260	0.0230		mg/L	12	20	24-SEP-20
Antimony (Sb)-Dissolved		0.000040	0.000045	RPD-NA	mg/L	N/A	20	24-SEP-20
Arsenic (As)-Dissolved		0.000622	0.000670	RPD-NA	mg/L	N/A	20	24-SEP-20
Barium (Ba)-Dissolved		0.0105	0.0106		mg/L	0.8	20	24-SEP-20
Beryllium (Be)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	24-SEP-20
Bismuth (Bi)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	24-SEP-20
Boron (B)-Dissolved		0.0065	0.0065	RPD-NA	mg/L	N/A	20	24-SEP-20
Cadmium (Cd)-Dissolved		0.0000040	0.0000040	RPD-NA	mg/L	N/A	20	24-SEP-20
Calcium (Ca)-Dissolved		10.7	11.4		mg/L	6.1	20	24-SEP-20
Cesium (Cs)-Dissolved		0.0000010	0.0000020	RPD-NA	mg/L	N/A	20	24-SEP-20
Chromium (Cr)-Dissolved		0.00020	0.00021	RPD-NA	mg/L	N/A	20	24-SEP-20
Cobalt (Co)-Dissolved		0.000038	0.000044	RPD-NA	mg/L	N/A	20	24-SEP-20
Copper (Cu)-Dissolved		0.00092	0.00092	RPD-NA	mg/L	N/A	20	24-SEP-20
Iron (Fe)-Dissolved		0.150	0.155		mg/L	3.2	20	24-SEP-20
Lead (Pb)-Dissolved		0.00006	0.00006		mg/L	4.9	20	24-SEP-20
Lithium (Li)-Dissolved		0.0014	0.0016	RPD-NA	mg/L	N/A	20	24-SEP-20
Magnesium (Mg)-Dissolved		3.68	3.76		mg/L	2.0	20	24-SEP-20
Manganese (Mn)-Dissolved		0.0119	0.0124		mg/L	4.3	20	24-SEP-20
Molybdenum (Mo)-Dissolved		0.000222	0.000240	RPD-NA	mg/L	N/A	20	24-SEP-20

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 14 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R5236157							
WG3410456-7	DUP	L2504998-12						
Nickel (Ni)-Dissolved		0.00068	0.00072	RPD-NA	mg/L	N/A	20	24-SEP-20
Phosphorus (P)-Dissolved		0.010	<0.005	RPD-NA	mg/L	N/A	20	24-SEP-20
Potassium (K)-Dissolved		0.95	0.98		mg/L	3.1	20	24-SEP-20
Rubidium (Rb)-Dissolved		0.00187	0.00193		mg/L	3.2	20	24-SEP-20
Selenium (Se)-Dissolved		0.000110	0.000095		mg/L	13	20	24-SEP-20
Silicon (Si)-Dissolved		2.49	2.50		mg/L	0.5	20	24-SEP-20
Silver (Ag)-Dissolved		0.0000010	0.0000010	RPD-NA	mg/L	N/A	20	24-SEP-20
Sodium (Na)-Dissolved		4.47	4.58		mg/L	2.5	20	24-SEP-20
Strontium (Sr)-Dissolved		0.0309	0.0332		mg/L	7.3	20	24-SEP-20
Sulfur (S)-Dissolved		1.6	1.6		mg/L	5.4	20	24-SEP-20
Tellurium (Te)-Dissolved		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	24-SEP-20
Thallium (Tl)-Dissolved		0.000002	0.000002	RPD-NA	mg/L	N/A	20	24-SEP-20
Thorium (Th)-Dissolved		0.00005	0.00004	RPD-NA	mg/L	N/A	20	24-SEP-20
Tin (Sn)-Dissolved		0.000010	0.000005	RPD-NA	mg/L	N/A	20	24-SEP-20
Titanium (Ti)-Dissolved		0.00134	0.00092	RPD-NA	mg/L	N/A	20	24-SEP-20
Tungsten (W)-Dissolved		0.000004	0.000006	RPD-NA	mg/L	N/A	20	24-SEP-20
Uranium (U)-Dissolved		0.0000970	0.000101	RPD-NA	mg/L	N/A	20	24-SEP-20
Vanadium (V)-Dissolved		0.00044	0.00046	RPD-NA	mg/L	N/A	20	24-SEP-20
Zinc (Zn)-Dissolved		0.0010	0.0010	RPD-NA	mg/L	N/A	20	24-SEP-20
Zirconium (Zr)-Dissolved		0.000182	0.000242	RPD-NA	mg/L	N/A	20	24-SEP-20
WG3410460-2	LCS							
Aluminum (Al)-Dissolved			100.8		%		80-120	24-SEP-20
Antimony (Sb)-Dissolved			97.6		%		80-120	24-SEP-20
Arsenic (As)-Dissolved			102.1		%		80-120	24-SEP-20
Barium (Ba)-Dissolved			100.1		%		80-120	24-SEP-20
Beryllium (Be)-Dissolved			97.5		%		80-120	24-SEP-20
Bismuth (Bi)-Dissolved			100.3		%		80-120	24-SEP-20
Boron (B)-Dissolved			96.4		%		80-120	24-SEP-20
Cadmium (Cd)-Dissolved			100.0		%		80-120	24-SEP-20
Calcium (Ca)-Dissolved			99.0		%		80-120	24-SEP-20
Cesium (Cs)-Dissolved			98.5		%		80-120	24-SEP-20
Chromium (Cr)-Dissolved			96.6		%		80-120	24-SEP-20
Cobalt (Co)-Dissolved			96.3		%		80-120	24-SEP-20

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 15 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R5236157							
WG3410460-2	LCS							
Copper (Cu)-Dissolved			96.4		%		80-120	24-SEP-20
Iron (Fe)-Dissolved			120.9	MES	%		80-120	24-SEP-20
Lead (Pb)-Dissolved			100.8		%		80-120	24-SEP-20
Lithium (Li)-Dissolved			103.3		%		80-120	24-SEP-20
Magnesium (Mg)-Dissolved			98.8		%		80-120	24-SEP-20
Manganese (Mn)-Dissolved			100.5		%		80-120	24-SEP-20
Molybdenum (Mo)-Dissolved			103.1		%		80-120	24-SEP-20
Nickel (Ni)-Dissolved			95.6		%		80-120	24-SEP-20
Phosphorus (P)-Dissolved			103.5		%		70-130	24-SEP-20
Potassium (K)-Dissolved			105.2		%		80-120	24-SEP-20
Rubidium (Rb)-Dissolved			101.2		%		80-120	24-SEP-20
Selenium (Se)-Dissolved			94.5		%		80-120	24-SEP-20
Silicon (Si)-Dissolved			99.7		%		60-140	24-SEP-20
Silver (Ag)-Dissolved			99.6		%		80-120	24-SEP-20
Sodium (Na)-Dissolved			100.4		%		80-120	24-SEP-20
Strontium (Sr)-Dissolved			105.0		%		80-120	24-SEP-20
Sulfur (S)-Dissolved			93.4		%		80-120	24-SEP-20
Tellurium (Te)-Dissolved			96.4		%		80-120	24-SEP-20
Thallium (Tl)-Dissolved			100.5		%		80-120	24-SEP-20
Thorium (Th)-Dissolved			102.6		%		80-120	24-SEP-20
Tin (Sn)-Dissolved			99.9		%		80-120	24-SEP-20
Titanium (Ti)-Dissolved			97.7		%		80-120	24-SEP-20
Tungsten (W)-Dissolved			100.7		%		80-120	24-SEP-20
Uranium (U)-Dissolved			101.6		%		80-120	24-SEP-20
Vanadium (V)-Dissolved			99.6		%		80-120	24-SEP-20
Zinc (Zn)-Dissolved			99.1		%		80-120	24-SEP-20
Zirconium (Zr)-Dissolved			103.9		%		80-120	24-SEP-20
WG3410460-1	MB							
Aluminum (Al)-Dissolved			<0.0002		mg/L		0.005	24-SEP-20
Antimony (Sb)-Dissolved			<0.000005		mg/L		0.0006	24-SEP-20
Arsenic (As)-Dissolved			<0.0000002		mg/L		0.001	24-SEP-20
Barium (Ba)-Dissolved			<0.000005		mg/L		0.01	24-SEP-20
Beryllium (Be)-Dissolved			<0.000002		mg/L		0.001	24-SEP-20
Bismuth (Bi)-Dissolved			<0.000002		mg/L		0.001	24-SEP-20

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 16 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB	Effluent							
Batch	R5236157							
WG3410460-1 MB								
Boron (B)-Dissolved			0.0010		mg/L		0.05	24-SEP-20
Cadmium (Cd)-Dissolved			<0.000000E		mg/L		0.000017	24-SEP-20
Calcium (Ca)-Dissolved			0.002		mg/L		0.2	24-SEP-20
Cesium (Cs)-Dissolved			<0.000000E		mg/L		0.00001	24-SEP-20
Chromium (Cr)-Dissolved			<0.00001		mg/L		0.001	24-SEP-20
Cobalt (Co)-Dissolved			<0.000002		mg/L		0.0005	24-SEP-20
Copper (Cu)-Dissolved			<0.00002		mg/L		0.001	24-SEP-20
Iron (Fe)-Dissolved			<0.0005		mg/L		0.02	24-SEP-20
Lead (Pb)-Dissolved			<0.00001		mg/L		0.00005	24-SEP-20
Lithium (Li)-Dissolved			<0.0002		mg/L		0.05	24-SEP-20
Magnesium (Mg)-Dissolved			<0.0005		mg/L		0.02	24-SEP-20
Manganese (Mn)-Dissolved			<0.00002		mg/L		0.001	24-SEP-20
Molybdenum (Mo)-Dissolved			<0.000002		mg/L		0.001	24-SEP-20
Nickel (Ni)-Dissolved			<0.00002		mg/L		0.002	24-SEP-20
Phosphorus (P)-Dissolved			<0.005		mg/L		0.05	24-SEP-20
Potassium (K)-Dissolved			<0.01		mg/L		0.5	24-SEP-20
Rubidium (Rb)-Dissolved			0.000004		mg/L		0.0002	24-SEP-20
Selenium (Se)-Dissolved			<0.000005		mg/L		0.00005	24-SEP-20
Silicon (Si)-Dissolved			<0.005		mg/L		0.05	24-SEP-20
Silver (Ag)-Dissolved			<0.000000E		mg/L		0.0001	24-SEP-20
Sodium (Na)-Dissolved			<0.005		mg/L		0.1	24-SEP-20
Strontium (Sr)-Dissolved			<0.00002		mg/L		0.001	24-SEP-20
Sulfur (S)-Dissolved			<0.2		mg/L		0.5	24-SEP-20
Tellurium (Te)-Dissolved			0.00001		mg/L		0.001	24-SEP-20
Thallium (Tl)-Dissolved			<0.000002		mg/L		0.0003	24-SEP-20
Thorium (Th)-Dissolved			<0.00001		mg/L		0.0001	24-SEP-20
Tin (Sn)-Dissolved			<0.000005		mg/L		0.001	24-SEP-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.002	24-SEP-20
Tungsten (W)-Dissolved			<0.000002		mg/L		0.01	24-SEP-20
Uranium (U)-Dissolved			<0.000000E		mg/L		0.005	24-SEP-20
Vanadium (V)-Dissolved			0.00004		mg/L		0.001	24-SEP-20
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.003	24-SEP-20
Zirconium (Zr)-Dissolved			<0.000002		mg/L		0.001	24-SEP-20

WG3410456-8 MS

L2504998-13

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 17 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB								
	Effluent							
Batch	R5236157							
WG3410456-8 MS		L2504998-13						
Aluminum (Al)-Dissolved			110.2		%		70-130	24-SEP-20
Antimony (Sb)-Dissolved			103.3		%		70-130	24-SEP-20
Arsenic (As)-Dissolved			108.8		%		70-130	24-SEP-20
Barium (Ba)-Dissolved			102.8		%		70-130	24-SEP-20
Beryllium (Be)-Dissolved			106.1		%		70-130	24-SEP-20
Bismuth (Bi)-Dissolved			100.8		%		70-130	24-SEP-20
Boron (B)-Dissolved			104.3		%		70-130	24-SEP-20
Cadmium (Cd)-Dissolved			103.9		%		70-130	24-SEP-20
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	24-SEP-20
Cesium (Cs)-Dissolved			110.1		%		70-130	24-SEP-20
Chromium (Cr)-Dissolved			104.9		%		70-130	24-SEP-20
Cobalt (Co)-Dissolved			105.0		%		70-130	24-SEP-20
Copper (Cu)-Dissolved			102.8		%		70-130	24-SEP-20
Iron (Fe)-Dissolved			102.7		%		70-130	24-SEP-20
Lead (Pb)-Dissolved			105.7		%		70-130	24-SEP-20
Lithium (Li)-Dissolved			106.2		%		70-130	24-SEP-20
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	24-SEP-20
Manganese (Mn)-Dissolved			N/A	MS-B	%		-	24-SEP-20
Molybdenum (Mo)-Dissolved			112.5		%		70-130	24-SEP-20
Nickel (Ni)-Dissolved			102.8		%		70-130	24-SEP-20
Phosphorus (P)-Dissolved			108.1		%		70-130	24-SEP-20
Potassium (K)-Dissolved			107.5		%		70-130	24-SEP-20
Rubidium (Rb)-Dissolved			109.8		%		70-130	24-SEP-20
Selenium (Se)-Dissolved			105.4		%		70-130	24-SEP-20
Silicon (Si)-Dissolved			87.9		%		70-130	24-SEP-20
Silver (Ag)-Dissolved			92.7		%		70-130	24-SEP-20
Sodium (Na)-Dissolved			N/A	MS-B	%		-	24-SEP-20
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	24-SEP-20
Sulfur (S)-Dissolved			106.5		%		70-130	24-SEP-20
Tellurium (Te)-Dissolved			105.8		%		70-130	24-SEP-20
Thallium (Tl)-Dissolved			105.3		%		70-130	24-SEP-20
Thorium (Th)-Dissolved			110.3		%		70-130	24-SEP-20
Tin (Sn)-Dissolved			106.1		%		70-130	24-SEP-20

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 18 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R5236157							
WG3410456-8 MS		L2504998-13						
Titanium (Ti)-Dissolved			109.7		%		70-130	24-SEP-20
Tungsten (W)-Dissolved			107.6		%		70-130	24-SEP-20
Uranium (U)-Dissolved			108.2		%		70-130	24-SEP-20
Vanadium (V)-Dissolved			107.4		%		70-130	24-SEP-20
Zinc (Zn)-Dissolved			104.1		%		70-130	24-SEP-20
Zirconium (Zr)-Dissolved			111.4		%		70-130	24-SEP-20
MET-T-MISA-TB		Effluent						
Batch	R5232889							
WG3408068-11 DUP		L2504998-3						
Aluminum (Al)-Total		0.262	0.245		mg/L	6.5	20	22-SEP-20
Antimony (Sb)-Total		0.000110	0.000110	RPD-NA	mg/L	N/A	20	22-SEP-20
Arsenic (As)-Total		0.00122	0.00117		mg/L	4.0	20	22-SEP-20
Barium (Ba)-Total		0.0432	0.0431		mg/L	0.1	20	22-SEP-20
Beryllium (Be)-Total		0.0000049	0.0000037	RPD-NA	mg/L	N/A	20	22-SEP-20
Bismuth (Bi)-Total		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	22-SEP-20
Boron (B)-Total		0.0565	0.0570		mg/L	0.4	20	22-SEP-20
Cadmium (Cd)-Total		0.000005	0.000006	RPD-NA	mg/L	N/A	20	22-SEP-20
Calcium (Ca)-Total		85.9	87.7		mg/L	2.1	20	22-SEP-20
Cesium (Cs)-Total		0.0000350	0.0000375		mg/L	5.8	20	22-SEP-20
Chromium (Cr)-Total		0.00058	0.00054	RPD-NA	mg/L	N/A	20	22-SEP-20
Cobalt (Co)-Total		0.000305	0.000290	RPD-NA	mg/L	N/A	20	22-SEP-20
Copper (Cu)-Total		0.00120	0.00120		mg/L	0.6	20	22-SEP-20
Iron (Fe)-Total		0.458	0.427		mg/L	7.1	20	22-SEP-20
Lead (Pb)-Total		0.00022	0.00020		mg/L	7.9	20	22-SEP-20
Lithium (Li)-Total		0.0250	0.0252	RPD-NA	mg/L	N/A	20	22-SEP-20
Magnesium (Mg)-Total		39.2	38.9		mg/L	0.8	20	22-SEP-20
Manganese (Mn)-Total		0.134	0.133		mg/L	0.9	20	22-SEP-20
Molybdenum (Mo)-Total		0.00176	0.00172		mg/L	2.2	20	22-SEP-20
Nickel (Ni)-Total		0.00136	0.00132	RPD-NA	mg/L	N/A	20	22-SEP-20
Phosphorus (P)-Total		0.015	0.015	RPD-NA	mg/L	N/A	20	22-SEP-20
Potassium (K)-Total		4.81	4.88		mg/L	1.5	20	22-SEP-20
Rubidium (Rb)-Total		0.00248	0.00257		mg/L	3.7	20	22-SEP-20
Selenium (Se)-Total		0.000100	0.000110		mg/L	6.4	20	22-SEP-20

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 19 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5232889							
WG3408068-11	DUP	L2504998-3						
Silicon (Si)-Total		3.34	3.21		mg/L	4.1	20	22-SEP-20
Silver (Ag)-Total		0.000002	0.000003	RPD-NA	mg/L	N/A	20	22-SEP-20
Sodium (Na)-Total		12.4	12.4		mg/L	0.3	20	22-SEP-20
Strontium (Sr)-Total		0.309	0.308		mg/L	0.3	20	22-SEP-20
Sulfur (S)-Total		27.8	27.2		mg/L	2.6	20	22-SEP-20
Tellurium (Te)-Total		0.00004	0.00004	RPD-NA	mg/L	N/A	20	22-SEP-20
Thallium (Tl)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	22-SEP-20
Thorium (Th)-Total		0.00004	0.00004	RPD-NA	mg/L	N/A	20	22-SEP-20
Tin (Sn)-Total		0.00003	0.00003	RPD-NA	mg/L	N/A	20	22-SEP-20
Titanium (Ti)-Total		0.00805	0.00745		mg/L	7.7	20	22-SEP-20
Tungsten (W)-Total		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	22-SEP-20
Uranium (U)-Total		0.00286	0.00274	RPD-NA	mg/L	N/A	20	22-SEP-20
Vanadium (V)-Total		0.00145	0.00145		mg/L	1.3	20	22-SEP-20
Zinc (Zn)-Total		0.0015	0.0010	RPD-NA	mg/L	N/A	20	22-SEP-20
Zirconium (Zr)-Total		0.000268	0.000250	RPD-NA	mg/L	N/A	20	22-SEP-20
WG3409521-3	DUP	L2504998-14						
Aluminum (Al)-Total		0.108	0.0994		mg/L	8.6	20	22-SEP-20
Antimony (Sb)-Total		0.000035	0.000035	RPD-NA	mg/L	N/A	20	22-SEP-20
Arsenic (As)-Total		0.00149	0.00147		mg/L	1.2	20	22-SEP-20
Barium (Ba)-Total		0.0563	0.0539		mg/L	4.4	20	22-SEP-20
Beryllium (Be)-Total		<0.0000001	<0.0000001	RPD-NA	mg/L	N/A	20	22-SEP-20
Bismuth (Bi)-Total		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	22-SEP-20
Boron (B)-Total		0.0310	0.0320	RPD-NA	mg/L	N/A	20	22-SEP-20
Cadmium (Cd)-Total		0.000004	0.000004	RPD-NA	mg/L	N/A	20	22-SEP-20
Calcium (Ca)-Total		90.4	90.9		mg/L	0.5	20	22-SEP-20
Cesium (Cs)-Total		0.0000145	0.0000145		mg/L	0.0	20	22-SEP-20
Chromium (Cr)-Total		0.00028	0.00026	RPD-NA	mg/L	N/A	20	22-SEP-20
Cobalt (Co)-Total		0.000170	0.000170	RPD-NA	mg/L	N/A	20	22-SEP-20
Copper (Cu)-Total		0.00048	0.00048	RPD-NA	mg/L	N/A	20	22-SEP-20
Iron (Fe)-Total		0.219	0.210		mg/L	3.9	20	22-SEP-20
Lead (Pb)-Total		0.00008	0.00009		mg/L	15	20	22-SEP-20
Lithium (Li)-Total		0.0278	0.0274	RPD-NA	mg/L	N/A	20	22-SEP-20
Magnesium (Mg)-Total		44.2	44.0		mg/L	0.4	20	22-SEP-20

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 20 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5232889							
WG3409521-3	DUP	L2504998-14						
Manganese (Mn)-Total		0.0710	0.0700		mg/L	1.6	20	22-SEP-20
Molybdenum (Mo)-Total		0.00207	0.00203		mg/L	2.0	20	22-SEP-20
Nickel (Ni)-Total		0.00068	0.00066	RPD-NA	mg/L	N/A	20	22-SEP-20
Phosphorus (P)-Total		<0.005	0.005	RPD-NA	mg/L	N/A	20	22-SEP-20
Potassium (K)-Total		3.04	2.98		mg/L	2.1	20	22-SEP-20
Rubidium (Rb)-Total		0.00376	0.00376		mg/L	0.2	20	22-SEP-20
Selenium (Se)-Total		0.000075	0.000080		mg/L	4.4	20	22-SEP-20
Silicon (Si)-Total		8.12	8.14		mg/L	0.2	20	22-SEP-20
Silver (Ag)-Total		0.000006	0.000264	DUP-H	mg/L	N/A	20	22-SEP-20
Sodium (Na)-Total		8.33	8.42		mg/L	1.1	20	22-SEP-20
Strontium (Sr)-Total		0.476	0.460		mg/L	3.4	20	22-SEP-20
Sulfur (S)-Total		4.8	4.6		mg/L	2.2	20	22-SEP-20
Tellurium (Te)-Total		<0.00002	0.00004	RPD-NA	mg/L	N/A	20	22-SEP-20
Thallium (Tl)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	22-SEP-20
Thorium (Th)-Total		0.00003	0.00003	RPD-NA	mg/L	N/A	20	22-SEP-20
Tin (Sn)-Total		0.00004	0.00003	RPD-NA	mg/L	N/A	20	22-SEP-20
Titanium (Ti)-Total		0.00352	0.00317		mg/L	10	20	22-SEP-20
Tungsten (W)-Total		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	22-SEP-20
Uranium (U)-Total		0.00361	0.00352	RPD-NA	mg/L	N/A	20	22-SEP-20
Vanadium (V)-Total		0.00120	0.00120		mg/L	1.4	20	22-SEP-20
Zinc (Zn)-Total		<0.0005	0.0020	RPD-NA	mg/L	N/A	20	22-SEP-20
Zirconium (Zr)-Total		0.000226	0.000208	RPD-NA	mg/L	N/A	20	22-SEP-20
WG3408068-10		LCS						
Aluminum (Al)-Total			101.9		%		80-120	22-SEP-20
Antimony (Sb)-Total			99.8		%		80-120	22-SEP-20
Arsenic (As)-Total			99.3		%		80-120	22-SEP-20
Barium (Ba)-Total			95.8		%		80-120	22-SEP-20
Beryllium (Be)-Total			104.1		%		80-120	22-SEP-20
Bismuth (Bi)-Total			96.7		%		80-120	22-SEP-20
Boron (B)-Total			98.7		%		80-120	22-SEP-20
Cadmium (Cd)-Total			97.9		%		80-120	22-SEP-20
Calcium (Ca)-Total			94.1		%		80-120	22-SEP-20
Cesium (Cs)-Total			103.2		%		80-120	22-SEP-20

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 21 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5232889							
WG3408068-10 LCS								
Chromium (Cr)-Total			98.2		%		80-120	22-SEP-20
Cobalt (Co)-Total			96.5		%		80-120	22-SEP-20
Copper (Cu)-Total			96.6		%		80-120	22-SEP-20
Iron (Fe)-Total			120.3	MES	%		80-120	22-SEP-20
Lead (Pb)-Total			100.2		%		80-120	22-SEP-20
Lithium (Li)-Total			108.6		%		80-120	22-SEP-20
Magnesium (Mg)-Total			99.0		%		80-120	22-SEP-20
Manganese (Mn)-Total			98.7		%		80-120	22-SEP-20
Molybdenum (Mo)-Total			95.0		%		80-120	22-SEP-20
Nickel (Ni)-Total			96.2		%		80-120	22-SEP-20
Phosphorus (P)-Total			99.7		%		80-120	22-SEP-20
Potassium (K)-Total			101.0		%		80-120	22-SEP-20
Rubidium (Rb)-Total			99.5		%		80-120	22-SEP-20
Selenium (Se)-Total			91.9		%		80-120	22-SEP-20
Silicon (Si)-Total			103.7		%		80-120	22-SEP-20
Silver (Ag)-Total			99.98		%		80-120	22-SEP-20
Sodium (Na)-Total			99.5		%		80-120	22-SEP-20
Strontium (Sr)-Total			96.6		%		80-120	22-SEP-20
Sulfur (S)-Total			106.4		%		80-120	22-SEP-20
Tellurium (Te)-Total			96.7		%		80-120	22-SEP-20
Thallium (Tl)-Total			99.0		%		80-120	22-SEP-20
Thorium (Th)-Total			101.8		%		80-120	22-SEP-20
Tin (Sn)-Total			100.4		%		80-120	22-SEP-20
Titanium (Ti)-Total			97.8		%		80-120	22-SEP-20
Tungsten (W)-Total			98.8		%		80-120	22-SEP-20
Uranium (U)-Total			98.9		%		80-120	22-SEP-20
Vanadium (V)-Total			98.1		%		80-120	22-SEP-20
Zinc (Zn)-Total			91.2		%		80-120	22-SEP-20
Zirconium (Zr)-Total			96.9		%		80-120	22-SEP-20
WG3409521-2 LCS								
Aluminum (Al)-Total			99.7		%		80-120	22-SEP-20
Antimony (Sb)-Total			103.2		%		80-120	22-SEP-20
Arsenic (As)-Total			100.9		%		80-120	22-SEP-20
Barium (Ba)-Total			101.0		%		80-120	22-SEP-20

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 22 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5232889							
WG3409521-2	LCS							
Beryllium (Be)-Total			99.4		%		80-120	22-SEP-20
Bismuth (Bi)-Total			96.5		%		80-120	22-SEP-20
Boron (B)-Total			83.6		%		80-120	22-SEP-20
Cadmium (Cd)-Total			98.0		%		80-120	22-SEP-20
Calcium (Ca)-Total			97.8		%		80-120	22-SEP-20
Cesium (Cs)-Total			108.7		%		80-120	22-SEP-20
Chromium (Cr)-Total			98.6		%		80-120	22-SEP-20
Cobalt (Co)-Total			96.5		%		80-120	22-SEP-20
Copper (Cu)-Total			96.7		%		80-120	22-SEP-20
Iron (Fe)-Total			118.0		%		80-120	22-SEP-20
Lead (Pb)-Total			100.3		%		80-120	22-SEP-20
Lithium (Li)-Total			105.8		%		80-120	22-SEP-20
Magnesium (Mg)-Total			98.7		%		80-120	22-SEP-20
Manganese (Mn)-Total			100.2		%		80-120	22-SEP-20
Molybdenum (Mo)-Total			100.4		%		80-120	22-SEP-20
Nickel (Ni)-Total			96.9		%		80-120	22-SEP-20
Phosphorus (P)-Total			106.5		%		80-120	22-SEP-20
Potassium (K)-Total			104.4		%		80-120	22-SEP-20
Rubidium (Rb)-Total			101.3		%		80-120	22-SEP-20
Selenium (Se)-Total			93.9		%		80-120	22-SEP-20
Silicon (Si)-Total			99.6		%		80-120	22-SEP-20
Silver (Ag)-Total			104.9		%		80-120	22-SEP-20
Sodium (Na)-Total			100.5		%		80-120	22-SEP-20
Strontium (Sr)-Total			101.8		%		80-120	22-SEP-20
Sulfur (S)-Total			115.3		%		80-120	22-SEP-20
Tellurium (Te)-Total			103.0		%		80-120	22-SEP-20
Thallium (Tl)-Total			99.9		%		80-120	22-SEP-20
Thorium (Th)-Total			102.1		%		80-120	22-SEP-20
Tin (Sn)-Total			102.3		%		80-120	22-SEP-20
Titanium (Ti)-Total			100.8		%		80-120	22-SEP-20
Tungsten (W)-Total			99.96		%		80-120	22-SEP-20
Uranium (U)-Total			102.2		%		80-120	22-SEP-20
Vanadium (V)-Total			98.6		%		80-120	22-SEP-20

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 23 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5232889							
WG3409521-2	LCS							
Zinc (Zn)-Total			96.0		%		80-120	22-SEP-20
Zirconium (Zr)-Total			101.5		%		80-120	22-SEP-20
WG3408068-9	MB							
Aluminum (Al)-Total			0.0004		mg/L		0.005	22-SEP-20
Antimony (Sb)-Total			<0.000005		mg/L		0.0006	22-SEP-20
Arsenic (As)-Total			0.00004		mg/L		0.001	22-SEP-20
Barium (Ba)-Total			<0.00001		mg/L		0.01	22-SEP-20
Beryllium (Be)-Total			<0.0000001		mg/L		0.001	22-SEP-20
Bismuth (Bi)-Total			<0.00001		mg/L		0.001	22-SEP-20
Boron (B)-Total			0.0005		mg/L		0.05	22-SEP-20
Cadmium (Cd)-Total			<0.000001		mg/L		0.000017	22-SEP-20
Calcium (Ca)-Total			<0.002		mg/L		0.2	22-SEP-20
Cesium (Cs)-Total			<0.0000005		mg/L		0.00001	22-SEP-20
Chromium (Cr)-Total			<0.00002		mg/L		0.001	22-SEP-20
Cobalt (Co)-Total			<0.000005		mg/L		0.0005	22-SEP-20
Copper (Cu)-Total			0.00004		mg/L		0.001	22-SEP-20
Iron (Fe)-Total			<0.0005		mg/L		0.02	22-SEP-20
Lead (Pb)-Total			<0.00001		mg/L		0.00005	22-SEP-20
Lithium (Li)-Total			<0.0002		mg/L		0.05	22-SEP-20
Magnesium (Mg)-Total			0.0002		mg/L		0.02	22-SEP-20
Manganese (Mn)-Total			<0.0002		mg/L		0.001	22-SEP-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.001	22-SEP-20
Nickel (Ni)-Total			<0.00002		mg/L		0.002	22-SEP-20
Phosphorus (P)-Total			0.010		mg/L		0.05	22-SEP-20
Potassium (K)-Total			<0.01		mg/L		0.5	22-SEP-20
Rubidium (Rb)-Total			<0.000002		mg/L		0.0002	22-SEP-20
Selenium (Se)-Total			<0.000005		mg/L		0.00005	22-SEP-20
Silicon (Si)-Total			0.032		mg/L		0.1	22-SEP-20
Silver (Ag)-Total			<0.000001		mg/L		0.0001	22-SEP-20
Sodium (Na)-Total			<0.005		mg/L		0.1	22-SEP-20
Strontium (Sr)-Total			<0.000005		mg/L		0.001	22-SEP-20
Sulfur (S)-Total			0.2		mg/L		0.5	22-SEP-20
Tellurium (Te)-Total			<0.00002		mg/L		0.001	22-SEP-20
Thallium (Tl)-Total			<0.000005		mg/L		0.0003	22-SEP-20

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 24 of 35

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5232889							
WG3408068-9 MB								
Thorium (Th)-Total			<0.00001		mg/L		0.0001	22-SEP-20
Tin (Sn)-Total			<0.00001		mg/L		0.001	22-SEP-20
Titanium (Ti)-Total			0.00001		mg/L		0.002	22-SEP-20
Tungsten (W)-Total			<0.00001		mg/L		0.01	22-SEP-20
Uranium (U)-Total			<0.0000005		mg/L		0.005	22-SEP-20
Vanadium (V)-Total			0.00015		mg/L		0.001	22-SEP-20
Zinc (Zn)-Total			0.0015		mg/L		0.003	22-SEP-20
Zirconium (Zr)-Total			0.000002		mg/L		0.001	22-SEP-20
WG3409521-1 MB								
Aluminum (Al)-Total			0.0008		mg/L		0.005	22-SEP-20
Antimony (Sb)-Total			0.000005		mg/L		0.0006	22-SEP-20
Arsenic (As)-Total			0.00004		mg/L		0.001	22-SEP-20
Barium (Ba)-Total			0.00002		mg/L		0.01	22-SEP-20
Beryllium (Be)-Total			<0.0000001		mg/L		0.001	22-SEP-20
Bismuth (Bi)-Total			<0.00001		mg/L		0.001	22-SEP-20
Boron (B)-Total			0.0010		mg/L		0.05	22-SEP-20
Cadmium (Cd)-Total			<0.000001		mg/L		0.000017	22-SEP-20
Calcium (Ca)-Total			0.008		mg/L		0.2	22-SEP-20
Cesium (Cs)-Total			<0.0000005		mg/L		0.00001	22-SEP-20
Chromium (Cr)-Total			<0.00002		mg/L		0.001	22-SEP-20
Cobalt (Co)-Total			<0.000005		mg/L		0.0005	22-SEP-20
Copper (Cu)-Total			0.00008		mg/L		0.001	22-SEP-20
Iron (Fe)-Total			0.0015		mg/L		0.02	22-SEP-20
Lead (Pb)-Total			<0.00001		mg/L		0.00005	22-SEP-20
Lithium (Li)-Total			<0.0002		mg/L		0.05	22-SEP-20
Magnesium (Mg)-Total			0.0008		mg/L		0.02	22-SEP-20
Manganese (Mn)-Total			<0.0002		mg/L		0.001	22-SEP-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.001	22-SEP-20
Nickel (Ni)-Total			<0.00002		mg/L		0.002	22-SEP-20
Phosphorus (P)-Total			<0.005		mg/L		0.05	22-SEP-20
Potassium (K)-Total			0.02		mg/L		0.5	22-SEP-20
Rubidium (Rb)-Total			<0.000002		mg/L		0.0002	22-SEP-20
Selenium (Se)-Total			<0.000005		mg/L		0.00005	22-SEP-20
Silicon (Si)-Total			0.016		mg/L		0.1	22-SEP-20

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 25 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R5232889							
WG3409521-1 MB								
Silver (Ag)-Total			0.000001		mg/L		0.0001	22-SEP-20
Sodium (Na)-Total			0.005		mg/L		0.1	22-SEP-20
Strontium (Sr)-Total			0.000015		mg/L		0.001	22-SEP-20
Sulfur (S)-Total			0.2		mg/L		0.5	22-SEP-20
Tellurium (Te)-Total			<0.00002		mg/L		0.001	22-SEP-20
Thallium (Tl)-Total			<0.000005		mg/L		0.0003	22-SEP-20
Thorium (Th)-Total			<0.00001		mg/L		0.0001	22-SEP-20
Tin (Sn)-Total			<0.00001		mg/L		0.001	22-SEP-20
Titanium (Ti)-Total			0.00002		mg/L		0.002	22-SEP-20
Tungsten (W)-Total			<0.00001		mg/L		0.01	22-SEP-20
Uranium (U)-Total			<0.0000005		mg/L		0.005	22-SEP-20
Vanadium (V)-Total			0.00020		mg/L		0.001	22-SEP-20
Zinc (Zn)-Total			0.0025		mg/L		0.003	22-SEP-20
Zirconium (Zr)-Total			<0.000002		mg/L		0.001	22-SEP-20
WG3408068-12 MS		L2504998-4						
Aluminum (Al)-Total			N/A	MS-B	%		-	22-SEP-20
Antimony (Sb)-Total			104.4		%		70-130	22-SEP-20
Arsenic (As)-Total			104.0		%		70-130	22-SEP-20
Barium (Ba)-Total			N/A	MS-B	%		-	22-SEP-20
Beryllium (Be)-Total			105.6		%		70-130	22-SEP-20
Bismuth (Bi)-Total			103.9		%		70-130	22-SEP-20
Boron (B)-Total			100.4		%		70-130	22-SEP-20
Cadmium (Cd)-Total			102.0		%		70-130	22-SEP-20
Calcium (Ca)-Total			N/A	MS-B	%		-	22-SEP-20
Cesium (Cs)-Total			112.9		%		70-130	22-SEP-20
Chromium (Cr)-Total			106.8		%		70-130	22-SEP-20
Cobalt (Co)-Total			103.7		%		70-130	22-SEP-20
Copper (Cu)-Total			103.8		%		70-130	22-SEP-20
Iron (Fe)-Total			116.3		%		70-130	22-SEP-20
Lead (Pb)-Total			105.9		%		70-130	22-SEP-20
Lithium (Li)-Total			101.7		%		70-130	22-SEP-20
Magnesium (Mg)-Total			N/A	MS-B	%		-	22-SEP-20
Manganese (Mn)-Total			N/A	MS-B	%		-	22-SEP-20
Molybdenum (Mo)-Total			104.2		%		70-130	22-SEP-20

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 26 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R5232889							
WG3408068-12 MS		L2504998-4						
Nickel (Ni)-Total			103.8		%		70-130	22-SEP-20
Phosphorus (P)-Total			101.4		%		70-130	22-SEP-20
Potassium (K)-Total			107.1		%		70-130	22-SEP-20
Rubidium (Rb)-Total			109.2		%		70-130	22-SEP-20
Selenium (Se)-Total			100.6		%		70-130	22-SEP-20
Silicon (Si)-Total			96.9		%		70-130	22-SEP-20
Silver (Ag)-Total			107.1		%		70-130	22-SEP-20
Sodium (Na)-Total			N/A	MS-B	%		-	22-SEP-20
Strontium (Sr)-Total			N/A	MS-B	%		-	22-SEP-20
Sulfur (S)-Total			103.3		%		70-130	22-SEP-20
Tellurium (Te)-Total			102.8		%		70-130	22-SEP-20
Thallium (Tl)-Total			105.4		%		70-130	22-SEP-20
Thorium (Th)-Total			109.8		%		70-130	22-SEP-20
Tin (Sn)-Total			103.3		%		70-130	22-SEP-20
Titanium (Ti)-Total			125.7		%		70-130	22-SEP-20
Tungsten (W)-Total			103.4		%		70-130	22-SEP-20
Uranium (U)-Total			107.5		%		70-130	22-SEP-20
Vanadium (V)-Total			106.9		%		70-130	22-SEP-20
Zinc (Zn)-Total			96.7		%		70-130	22-SEP-20
Zirconium (Zr)-Total			103.9		%		70-130	22-SEP-20
WG3409521-4 MS		L2504998-15						
Aluminum (Al)-Total			121.1		%		70-130	22-SEP-20
Antimony (Sb)-Total			107.5		%		70-130	22-SEP-20
Arsenic (As)-Total			105.0		%		70-130	22-SEP-20
Barium (Ba)-Total			104.7		%		70-130	22-SEP-20
Beryllium (Be)-Total			113.3		%		70-130	22-SEP-20
Bismuth (Bi)-Total			103.4		%		70-130	22-SEP-20
Boron (B)-Total			96.8		%		70-130	22-SEP-20
Cadmium (Cd)-Total			103.3		%		70-130	22-SEP-20
Calcium (Ca)-Total			N/A	MS-B	%		-	22-SEP-20
Cesium (Cs)-Total			114.0		%		70-130	22-SEP-20
Chromium (Cr)-Total			104.5		%		70-130	22-SEP-20
Cobalt (Co)-Total			103.5		%		70-130	22-SEP-20
Copper (Cu)-Total			101.0		%		70-130	22-SEP-20

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 27 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R5232889							
WG3409521-4	MS	L2504998-15						
Iron (Fe)-Total			93.8		%		70-130	22-SEP-20
Lead (Pb)-Total			104.8		%		70-130	22-SEP-20
Lithium (Li)-Total			115.2		%		70-130	22-SEP-20
Magnesium (Mg)-Total			N/A	MS-B	%		-	22-SEP-20
Manganese (Mn)-Total			N/A	MS-B	%		-	22-SEP-20
Molybdenum (Mo)-Total			106.6		%		70-130	22-SEP-20
Nickel (Ni)-Total			101.8		%		70-130	22-SEP-20
Phosphorus (P)-Total			107.9		%		70-130	22-SEP-20
Potassium (K)-Total			102.9		%		70-130	22-SEP-20
Rubidium (Rb)-Total			106.6		%		70-130	22-SEP-20
Selenium (Se)-Total			98.4		%		70-130	22-SEP-20
Silicon (Si)-Total			82.7		%		70-130	22-SEP-20
Silver (Ag)-Total			109.7		%		70-130	22-SEP-20
Sodium (Na)-Total			N/A	MS-B	%		-	22-SEP-20
Strontium (Sr)-Total			N/A	MS-B	%		-	22-SEP-20
Sulfur (S)-Total			104.6		%		70-130	22-SEP-20
Tellurium (Te)-Total			104.4		%		70-130	22-SEP-20
Thallium (Tl)-Total			105.6		%		70-130	22-SEP-20
Thorium (Th)-Total			109.3		%		70-130	22-SEP-20
Tin (Sn)-Total			106.3		%		70-130	22-SEP-20
Titanium (Ti)-Total			106.2		%		70-130	22-SEP-20
Tungsten (W)-Total			106.3		%		70-130	22-SEP-20
Uranium (U)-Total			105.5		%		70-130	22-SEP-20
Vanadium (V)-Total			104.6		%		70-130	22-SEP-20
Zinc (Zn)-Total			98.4		%		70-130	22-SEP-20
Zirconium (Zr)-Total			103.8		%		70-130	22-SEP-20
Batch	R5234136							
WG3409530-2	LCS							
Aluminum (Al)-Total			101.9		%		80-120	23-SEP-20
Antimony (Sb)-Total			99.8		%		80-120	23-SEP-20
Arsenic (As)-Total			103.4		%		80-120	23-SEP-20
Barium (Ba)-Total			99.3		%		80-120	23-SEP-20
Beryllium (Be)-Total			97.6		%		80-120	23-SEP-20
Bismuth (Bi)-Total			98.7		%		80-120	23-SEP-20

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 28 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5234136							
WG3409530-2	LCS							
Boron (B)-Total			97.5		%		80-120	23-SEP-20
Cadmium (Cd)-Total			98.9		%		80-120	23-SEP-20
Calcium (Ca)-Total			99.8		%		80-120	23-SEP-20
Cesium (Cs)-Total			103.1		%		80-120	23-SEP-20
Chromium (Cr)-Total			103.0		%		80-120	23-SEP-20
Cobalt (Co)-Total			101.1		%		80-120	23-SEP-20
Copper (Cu)-Total			97.4		%		80-120	23-SEP-20
Iron (Fe)-Total			121.6	MES	%		80-120	23-SEP-20
Lead (Pb)-Total			99.6		%		80-120	23-SEP-20
Lithium (Li)-Total			102.0		%		80-120	23-SEP-20
Magnesium (Mg)-Total			103.6		%		80-120	23-SEP-20
Manganese (Mn)-Total			103.8		%		80-120	23-SEP-20
Molybdenum (Mo)-Total			101.5		%		80-120	23-SEP-20
Nickel (Ni)-Total			98.5		%		80-120	23-SEP-20
Phosphorus (P)-Total			103.2		%		80-120	23-SEP-20
Potassium (K)-Total			101.1		%		80-120	23-SEP-20
Rubidium (Rb)-Total			101.2		%		80-120	23-SEP-20
Selenium (Se)-Total			95.6		%		80-120	23-SEP-20
Silicon (Si)-Total			106.6		%		80-120	23-SEP-20
Silver (Ag)-Total			98.6		%		80-120	23-SEP-20
Sodium (Na)-Total			96.3		%		80-120	23-SEP-20
Strontium (Sr)-Total			101.8		%		80-120	23-SEP-20
Sulfur (S)-Total			108.3		%		80-120	23-SEP-20
Tellurium (Te)-Total			94.8		%		80-120	23-SEP-20
Thallium (Tl)-Total			98.2		%		80-120	23-SEP-20
Thorium (Th)-Total			99.8		%		80-120	23-SEP-20
Tin (Sn)-Total			100.7		%		80-120	23-SEP-20
Titanium (Ti)-Total			103.9		%		80-120	23-SEP-20
Tungsten (W)-Total			100.2		%		80-120	23-SEP-20
Uranium (U)-Total			100.4		%		80-120	23-SEP-20
Vanadium (V)-Total			104.6		%		80-120	23-SEP-20
Zinc (Zn)-Total			100.1		%		80-120	23-SEP-20
Zirconium (Zr)-Total			104.1		%		80-120	23-SEP-20
WG3409530-1	MB							

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 29 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5234136							
WG3409530-1 MB								
Aluminum (Al)-Total			0.0004		mg/L		0.005	23-SEP-20
Antimony (Sb)-Total			<0.000005		mg/L		0.0006	23-SEP-20
Arsenic (As)-Total			0.00002		mg/L		0.001	23-SEP-20
Barium (Ba)-Total			<0.00001		mg/L		0.01	23-SEP-20
Beryllium (Be)-Total			0.0000010		mg/L		0.001	23-SEP-20
Bismuth (Bi)-Total			<0.00001		mg/L		0.001	23-SEP-20
Boron (B)-Total			<0.0005		mg/L		0.05	23-SEP-20
Cadmium (Cd)-Total			<0.000001		mg/L		0.000017	23-SEP-20
Calcium (Ca)-Total			0.018		mg/L		0.2	23-SEP-20
Cesium (Cs)-Total			<0.0000005		mg/L		0.00001	23-SEP-20
Chromium (Cr)-Total			0.00004		mg/L		0.001	23-SEP-20
Cobalt (Co)-Total			<0.000005		mg/L		0.0005	23-SEP-20
Copper (Cu)-Total			<0.00002		mg/L		0.001	23-SEP-20
Iron (Fe)-Total			<0.0005		mg/L		0.02	23-SEP-20
Lead (Pb)-Total			<0.00001		mg/L		0.00005	23-SEP-20
Lithium (Li)-Total			<0.0002		mg/L		0.05	23-SEP-20
Magnesium (Mg)-Total			0.0008		mg/L		0.02	23-SEP-20
Manganese (Mn)-Total			<0.0002		mg/L		0.001	23-SEP-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.001	23-SEP-20
Nickel (Ni)-Total			<0.00002		mg/L		0.002	23-SEP-20
Phosphorus (P)-Total			<0.005		mg/L		0.05	23-SEP-20
Potassium (K)-Total			<0.01		mg/L		0.5	23-SEP-20
Rubidium (Rb)-Total			<0.000002		mg/L		0.0002	23-SEP-20
Selenium (Se)-Total			<0.000005		mg/L		0.00005	23-SEP-20
Silicon (Si)-Total			0.020		mg/L		0.1	23-SEP-20
Silver (Ag)-Total			<0.000001		mg/L		0.0001	23-SEP-20
Sodium (Na)-Total			<0.005		mg/L		0.1	23-SEP-20
Strontium (Sr)-Total			<0.000005		mg/L		0.001	23-SEP-20
Sulfur (S)-Total			<0.2		mg/L		0.5	23-SEP-20
Tellurium (Te)-Total			0.00002		mg/L		0.001	23-SEP-20
Thallium (Tl)-Total			<0.000005		mg/L		0.0003	23-SEP-20
Thorium (Th)-Total			<0.00001		mg/L		0.0001	23-SEP-20
Tin (Sn)-Total			<0.00001		mg/L		0.001	23-SEP-20

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 30 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5234136							
WG3409530-1	MB							
Titanium (Ti)-Total			<0.00001		mg/L		0.002	23-SEP-20
Tungsten (W)-Total			<0.00001		mg/L		0.01	23-SEP-20
Uranium (U)-Total			<0.0000005		mg/L		0.005	23-SEP-20
Vanadium (V)-Total			0.00005		mg/L		0.001	23-SEP-20
Zinc (Zn)-Total			0.0010		mg/L		0.003	23-SEP-20
Zirconium (Zr)-Total			<0.000002		mg/L		0.001	23-SEP-20
NH3-MISA-F-TB		Effluent						
Batch	R5236079							
WG3407672-3	DUP	L2504979-1						
Ammonia, Total (as N)		0.016	0.016		mg/L	0.6	20	24-SEP-20
WG3407674-3	DUP	L2504998-14						
Ammonia, Total (as N)		0.008	0.008		mg/L	9.2	20	24-SEP-20
WG3407672-2	LCS							
Ammonia, Total (as N)			95.9		%		85-115	24-SEP-20
WG3407674-2	LCS							
Ammonia, Total (as N)			98.3		%		85-115	24-SEP-20
WG3407672-1	MB							
Ammonia, Total (as N)			<0.002		mg/L		0.005	24-SEP-20
WG3407674-1	MB							
Ammonia, Total (as N)			0.002		mg/L		0.005	24-SEP-20
WG3407672-4	MS	L2504979-2						
Ammonia, Total (as N)			N/A	MS-B	%		-	24-SEP-20
WG3407674-4	MS	L2504998-15						
Ammonia, Total (as N)			110.3		%		75-125	24-SEP-20
NO2-MISA-IC-TB		Effluent						
Batch	R5231080							
WG3407578-3	DUP	L2504891-1						
Nitrite (as N)		<0.001	0.002	RPD-NA	mg/L	N/A	20	19-SEP-20
WG3407700-3	DUP	L2504898-2						
Nitrite (as N)		<0.001	<0.001	RPD-NA	mg/L	N/A	20	19-SEP-20
WG3408048-3	DUP	L2504898-10						
Nitrite (as N)		0.001	0.003	RPD-NA	mg/L	N/A	20	19-SEP-20
WG3407578-2	LCS							
Nitrite (as N)			99.0		%		90-110	19-SEP-20
WG3407700-2	LCS							
Nitrite (as N)			101.5		%		90-110	19-SEP-20

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 31 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO2-MISA-IC-TB		Effluent						
Batch	R5231080							
WG3408048-2	LCS							
Nitrite (as N)			101.3		%		90-110	19-SEP-20
WG3407578-1	MB							
Nitrite (as N)			<0.001		mg/L		0.01	19-SEP-20
WG3407700-1	MB							
Nitrite (as N)			<0.001		mg/L		0.01	19-SEP-20
WG3408048-1	MB							
Nitrite (as N)			<0.001		mg/L		0.01	19-SEP-20
WG3407700-4	MS	L2504898-9						
Nitrite (as N)			104.4		%		75-125	19-SEP-20
NO3-MISA-IC-TB		Effluent						
Batch	R5231080							
WG3407578-3	DUP	L2504891-1						
Nitrate (as N)		0.020	0.020	RPD-NA	mg/L	N/A	20	19-SEP-20
WG3407700-3	DUP	L2504898-2						
Nitrate (as N)		0.028	0.024		mg/L	11	20	19-SEP-20
WG3408048-3	DUP	L2504898-10						
Nitrate (as N)		0.034	0.028		mg/L	16	20	19-SEP-20
WG3407578-2	LCS							
Nitrate (as N)			101.1		%		90-110	19-SEP-20
WG3407700-2	LCS							
Nitrate (as N)			102.5		%		90-110	19-SEP-20
WG3408048-2	LCS							
Nitrate (as N)			102.8		%		90-110	19-SEP-20
WG3407578-1	MB							
Nitrate (as N)			<0.002		mg/L		0.02	19-SEP-20
WG3407700-1	MB							
Nitrate (as N)			0.002		mg/L		0.02	19-SEP-20
WG3408048-1	MB							
Nitrate (as N)			<0.002		mg/L		0.02	19-SEP-20
WG3407700-4	MS	L2504898-9						
Nitrate (as N)			107.7		%		75-125	19-SEP-20
OGG-TOT-WT		Effluent						
Batch	R5232627							
WG3410245-2	LCS							
Oil and Grease, Total			94.3		%		50-150	23-SEP-20
WG3410245-1	MB							
Oil and Grease, Total			<0.2		mg/L		1	23-SEP-20

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 32 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-MISA-TB		Effluent						
Batch	R5230813							
WG3407568-3	DUP	L2504998-17						
pH		7.72	7.71	J	pH	0.01	0.2	18-SEP-20
WG3407681-3	DUP	L2504979-7						
pH		8.35	8.36	J	pH	0.01	0.2	18-SEP-20
WG3407568-2	LCS							
pH			6.96		pH		6.9-7.1	18-SEP-20
WG3407681-2	LCS							
pH			6.95		pH		6.9-7.1	18-SEP-20
Batch	R5231130							
WG3408039-3	DUP	L2504998-7						
pH		7.72	7.71	J	pH	0.01	0.2	19-SEP-20
WG3408039-2	LCS							
pH			7.02		pH		6.9-7.1	19-SEP-20
SO4-MISA-IC-TB		Effluent						
Batch	R5231080							
WG3407578-3	DUP	L2504891-1						
Sulfate (SO4)		139	142		mg/L	2.6	20	19-SEP-20
WG3407700-3	DUP	L2504898-2						
Sulfate (SO4)		6.90	6.85		mg/L	0.6	20	19-SEP-20
WG3408048-3	DUP	L2504898-10						
Sulfate (SO4)		32.7	31.3		mg/L	4.4	20	19-SEP-20
WG3407578-2	LCS							
Sulfate (SO4)			102.4		%		90-110	19-SEP-20
WG3407700-2	LCS							
Sulfate (SO4)			103.2		%		90-110	19-SEP-20
WG3408048-2	LCS							
Sulfate (SO4)			103.8		%		90-110	19-SEP-20
WG3407578-1	MB							
Sulfate (SO4)			<0.05		mg/L		0.3	19-SEP-20
WG3407700-1	MB							
Sulfate (SO4)			<0.05		mg/L		0.3	19-SEP-20
WG3408048-1	MB							
Sulfate (SO4)			<0.05		mg/L		0.3	19-SEP-20
WG3407700-4	MS	L2504898-9						
Sulfate (SO4)			112.2		%		75-125	19-SEP-20

TDS-MISA-TB **Effluent**

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Page 33 of 35

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TDS-MISA-TB								
	Effluent							
Batch	R5231325							
WG3408328-2	LCS							
Total Dissolved Solids			98.0		%		85-115	20-SEP-20
WG3408328-1	MB							
Total Dissolved Solids			<2		mg/L		10	20-SEP-20
Batch	R5231948							
WG3408371-3	DUP	L2504998-16						
Total Dissolved Solids		232	236		mg/L	1.1	20	20-SEP-20
WG3408371-2	LCS							
Total Dissolved Solids			97.8		%		85-115	20-SEP-20
WG3408371-1	MB							
Total Dissolved Solids			2		mg/L		10	20-SEP-20
TSS-MISA-TB								
	Effluent							
Batch	R5231285							
WG3408329-2	LCS							
Total Suspended Solids			96.2		%		85-115	20-SEP-20
WG3408329-1	MB							
Total Suspended Solids			<0.5		mg/L		3	20-SEP-20
Batch	R5231939							
WG3408372-3	DUP	L2504998-16						
Total Suspended Solids		3.5	3.0		mg/L	6.3	20	20-SEP-20
WG3408372-2	LCS							
Total Suspended Solids			86.8		%		85-115	20-SEP-20
WG3408372-1	MB							
Total Suspended Solids			<0.5		mg/L		3	20-SEP-20

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Page 34 of 35

Contact: Amanda Jacobs

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
DLDS	Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
J	Duplicate results and limits are expressed in terms of absolute difference.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L2504998

Report Date: 16-OCT-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Amanda Jacobs

Page 35 of 35

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Colour, True							
	1	15-SEP-20 14:20	19-SEP-20 12:06	3	4	days	EHTL
	7	15-SEP-20 09:50	19-SEP-20 11:00	3	4	days	EHTR
	9	15-SEP-20 14:10	19-SEP-20 12:06	3	4	days	EHTL
	14	15-SEP-20 14:45	19-SEP-20 12:06	3	4	days	EHTL
	15	15-SEP-20 15:15	19-SEP-20 12:06	3	4	days	EHTL
	16	15-SEP-20 13:40	19-SEP-20 12:06	3	4	days	EHTL
	17	15-SEP-20 15:55	19-SEP-20 12:06	3	4	days	EHTL
Turbidity							
	2	15-SEP-20 09:25	19-SEP-20 16:00	3	4	days	EHTR
	3	15-SEP-20 09:55	19-SEP-20 16:00	3	4	days	EHTR
	5	15-SEP-20 10:20	19-SEP-20 16:00	3	4	days	EHTR
	7	15-SEP-20 09:50	19-SEP-20 16:00	3	4	days	EHTR
Aggregate Organics							
Biochemical Oxygen Demand (BOD)							
	12	15-SEP-20 12:00	25-SEP-20 11:55	4	10	days	EHT

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2504998 were received on 18-SEP-20 10:30.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878



L2504998-COFC

SD

Number: 14 -

Page ____ of ____

here
(lab use only)

Report To				Report Format / Distribution				Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)																							
Company:		New Gold Inc. Rainy River Project		Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel <input checked="" type="checkbox"/> EDD (Digital)				R <input checked="" type="checkbox"/> Regular (Standard TAT if received by 3pm - business days)																							
Contact:		Amanda Jacobs / Carolyn Winik		Quality Control (QC) Report with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				P <input type="checkbox"/> Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT																							
Address:		24 Marr Rd.		<input type="checkbox"/> Criteria on Report - provide details below if box checked				E <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT																							
City/Province:		Barwick ON		Select Distribution: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail <input type="checkbox"/> Fax				E2 <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT																							
Postal Code:		P0W 1A0		Email 1 or Fax: rainyriver.labresults@newgold.com				Date and Time Required for all E&P TATs:																							
Phone:		807-482-0900 x8076 or x8046						For tests that can not be performed according to the service level selected, you will be contacted.																							
				Email 2 yag.inviron@newgold.com				Analysis Request																							
Invoice To		Same as Report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Invoice Distribution				Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below																							
		Copy of Invoice with Report? <input type="checkbox"/> Yes <input type="checkbox"/> No		Select Invoice Distribution: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail <input type="checkbox"/> Fax																											
Company:				Email 1 or Fax: rainyriver.labresults@newgold.com				NG-SW-P-TB Number of Containers																							
Contact:				Email 2:																											
Project Information				Oil and Gas Required Fields (client use)																											
ALS Quote #:				Approver ID:		Cost Center:																									
Job #: Surface Water				GL Account:		Routing Code:																									
PO / AFE: 4500018623				Activity Code:																											
LSD:				Location:																											
ALS Lab Work Order # (lab use only) L2504998				ALS Contact:		Sampler:																									
Sample Ref (upload EDD)	Sample Identification and/or Coordinates (Description will appear on the report)	Temp	Field pH	Field DO (mg/L)	Date (dd-MMM-yy)	Time (hh:mm)	Sample Type																								
131356	SW03	12.61	6.75	0	15-Sep-20	02:20	Water													✓											
131357	SW25	14.09	7.52	4.8	15-Sep-20	09:25	Water	✓																							
131358	SW26	13.56	7.8	5.05	15-Sep-20	09:55	Water	✓																							
131359	SW15	15.48	6.76	0	15-Sep-20	11:50	Water	✓																							



L2504998-COFC

SD


131360	SW22A	12.43	7.01	0	15-Sep-20	10:20	Water	✓											
131361	SW27	11.08	7.41	0	15-Sep-20	10:55	Water	✓											
131362	SW16	15.49	6.42	106.7	15-Sep-20	09:50	Water	✓											
131363	SW21A	13.53	8.11	0.42	15-Sep-20	11:35	Water	✓											
131364	SW10	14.54	7.02	10.55	15-Sep-20	02:10	Water	✓											
131365	Field Blank - Surface Water				15-Sep-20	11:50	Water	✓											
131366	SW17	16.22	6.62	8.9	15-Sep-20	11:00	Water	✓											
131367	SW06	16.22	6.62	7.9	15-Sep-20	12:00	Water	✓											
131368	SW23	15.14	6.95	0	15-Sep-20	01:10	Water	✓											
131369	SW28A	12.68	7.82	4.11	15-Sep-20	02:45	Water	✓											
131370	SW20	11.99	7.13	1.4	15-Sep-20	03:15	Water	✓											
131371	SW24	15.15	7.05	0	15-Sep-20	01:40	Water	✓											
131372	SW02	13.46	6.96	2.54	15-Sep-20	03:55	Water	✓											
131389	Sealed Travel Blank - Surface				15-Sep-20	12:00	Water	✓											

Drinking Water (DW) Samples¹ (client use)			Special Instructions / Specify Criteria to add on report (client Use)			SAMPLE CONDITION AS RECEIVED (lab use only)					
Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			MISA [Template NGSWMISA]			Frozen <input type="checkbox"/> SIF Observations <input type="checkbox"/> Yes <input type="checkbox"/> No					
Are samples for human drinking water use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						Ice packs <input type="checkbox"/> Yes <input type="checkbox"/> No Custody seal intact <input type="checkbox"/> Yes <input type="checkbox"/> No					
						Cooling Initiated <input type="checkbox"/>					
						INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
						8.0					
SHIPMENT RELEASE (client use)				INITIAL SHIPMENT RECEPTION (lab use only)				FINAL SHIPMENT RECEPTION (lab use only)			
Released by: <original signed by>		Date: 2020-09-17	Time: 8:00am	Received by: <original signed by>		Date: Sept 19 2020	Time: 10:30	Received by:		Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION WHITE - LABORATORY COPY YELLOW - CLIENT COPY NA-FM-0326e v09 Front/04 January 2014

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.



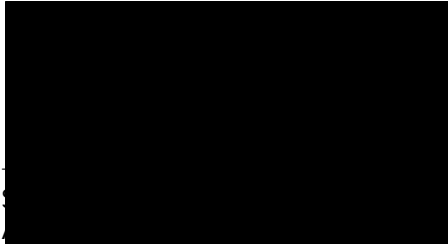
New Gold Inc. Rainy River Project
ATTN: Amanda Jacobs
24 Marr Rd
Barwick ON POW 1A0

Date Received: 16-OCT-20
Report Date: 19-NOV-20 14:54 (MT)
Version: FINAL

Client Phone: 807-482-0931

Certificate of Analysis

Lab Work Order #: L2517645
Project P.O. #: 4500038941
Job Reference: RAINY RIVERY
C of C Numbers:
Legal Site Desc: Chapple



[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3, Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598



ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-1 FB_SW_20201006 Sampled By: Client on 14-OCT-20 @ 12:00 Matrix: SW							
Physical Tests							
Color, True	3.5		2.0	CU		17-OCT-20	R5256356
Conductivity (EC)	3.4	<T	1.0	uS/cm		17-OCT-20	R5256377
Hardness (as CaCO3)	0.99		0.51	mg/L		23-OCT-20	
pH	6.98		0.10	pH		17-OCT-20	R5256377
Total Suspended Solids	<0.5	<W	3.0	mg/L		19-OCT-20	R5258096
Total Dissolved Solids	8	<DL	10	mg/L		19-OCT-20	R5258237
Turbidity	0.99		0.10	NTU		17-OCT-20	R5256181
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		18-OCT-20	R5256643
Alkalinity, Total (as CaCO3)	2.6		2.0	mg/L		17-OCT-20	R5256377
Ammonia, Total (as N)	<0.002	<W	0.0050	mg/L		22-OCT-20	R5263998
Chloride (Cl)	<0.10		0.10	mg/L	17-OCT-20	18-OCT-20	R5256723
Fluoride (F)	<0.020		0.020	mg/L	17-OCT-20	18-OCT-20	R5256723
Nitrate (as N)	<0.002	<W	0.020	mg/L		18-OCT-20	R5256723
Nitrite (as N)	<0.001	<W	0.010	mg/L		18-OCT-20	R5256723
Total Kjeldahl Nitrogen	<0.050		0.050	mg/L	20-OCT-20	26-OCT-20	R5268626
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	17-OCT-20	20-OCT-20	R5260597
Sulfate (SO4)	0.15	<DL	0.30	mg/L		18-OCT-20	R5256723
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Total	<0.0002	<W	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Free	<0.0001	<W	0.0020	mg/L		21-OCT-20	R5263218
Organic / Inorganic Carbon							
Dissolved Organic Carbon	<0.05	<W	0.50	mg/L		25-OCT-20	R5268862
Total Organic Carbon	<0.1	<W	0.50	mg/L		25-OCT-20	R5268867
Total Metals							
Aluminum (Al)-Total	0.0348		0.0050	mg/L		21-OCT-20	R5263621
Antimony (Sb)-Total	0.000010	<DL	0.00060	mg/L		21-OCT-20	R5263621
Arsenic (As)-Total	0.00005	<DL	0.0010	mg/L		21-OCT-20	R5263621
Barium (Ba)-Total	0.00047	<DL	0.010	mg/L		21-OCT-20	R5263621
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		21-OCT-20	R5263621
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		21-OCT-20	R5263621
Boron (B)-Total	0.0090	<DL	0.050	mg/L		21-OCT-20	R5263621
Cadmium (Cd)-Total	<0.000001	<W	0.000017	mg/L		21-OCT-20	R5263621
Calcium (Ca)-Total	0.428		0.20	mg/L		21-OCT-20	R5263621
Cesium (Cs)-Total	0.0000020	<DL	0.000010	mg/L		21-OCT-20	R5263621
Chromium (Cr)-Total	0.00030	<DL	0.0010	mg/L		21-OCT-20	R5263621
Cobalt (Co)-Total	0.000010	<DL	0.00050	mg/L		21-OCT-20	R5263621
Copper (Cu)-Total	0.00014	<DL	0.0010	mg/L		21-OCT-20	R5263621
Iron (Fe)-Total	0.0395		0.020	mg/L		21-OCT-20	R5263621
Lead (Pb)-Total	0.00004	<DL	0.000050	mg/L		21-OCT-20	R5263621
Lithium (Li)-Total	<0.0002	<W	0.050	mg/L		21-OCT-20	R5263621

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-1 FB_SW_20201006							
Sampled By: Client on 14-OCT-20 @ 12:00							
Matrix: SW							
Total Metals							
Magnesium (Mg)-Total	0.0110	<DL	0.020	mg/L		21-OCT-20	R5263621
Manganese (Mn)-Total	<0.0002	<W	0.0010	mg/L		21-OCT-20	R5263621
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261597
Molybdenum (Mo)-Total	0.000005	<DL	0.0010	mg/L		21-OCT-20	R5263621
Nickel (Ni)-Total	0.00006	<DL	0.0020	mg/L		21-OCT-20	R5263621
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		21-OCT-20	R5263621
Potassium (K)-Total	<0.01	<W	0.50	mg/L		21-OCT-20	R5263621
Rubidium (Rb)-Total	0.000018	<DL	0.00020	mg/L		21-OCT-20	R5263621
Selenium (Se)-Total	<0.000005	<W	0.000050	mg/L		21-OCT-20	R5263621
Silicon (Si)-Total	2.08		0.10	mg/L		21-OCT-20	R5263621
Silver (Ag)-Total	0.000006	<DL	0.00010	mg/L		21-OCT-20	R5263621
Sodium (Na)-Total	0.710		0.10	mg/L		21-OCT-20	R5263621
Strontium (Sr)-Total	0.000630	<DL	0.0010	mg/L		21-OCT-20	R5263621
Sulfur (S)-Total	<0.2	<W	0.50	mg/L		21-OCT-20	R5263621
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		21-OCT-20	R5263621
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		21-OCT-20	R5263621
Thorium (Th)-Total	<0.00001	<W	0.00010	mg/L		21-OCT-20	R5263621
Tin (Sn)-Total	0.00017	<DL	0.0010	mg/L		21-OCT-20	R5263621
Titanium (Ti)-Total	0.00076	<DL	0.0020	mg/L		21-OCT-20	R5263621
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		21-OCT-20	R5263621
Uranium (U)-Total	0.0000010	<DL	0.0050	mg/L		21-OCT-20	R5263621
Vanadium (V)-Total	0.00035	<DL	0.0010	mg/L		21-OCT-20	R5263621
Zinc (Zn)-Total	0.0010	<DL	0.0030	mg/L		21-OCT-20	R5263621
Zirconium (Zr)-Total	0.000106	<DL	0.0010	mg/L		21-OCT-20	R5263621
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					21-OCT-20	R5265858
Aluminum (Al)-Dissolved	0.0336		0.0050	mg/L		22-OCT-20	R5267319
Antimony (Sb)-Dissolved	0.000015	<DL	0.00060	mg/L		22-OCT-20	R5267319
Arsenic (As)-Dissolved	0.0000118	<DL	0.0010	mg/L		22-OCT-20	R5267319
Barium (Ba)-Dissolved	0.000420	<DL	0.010	mg/L		22-OCT-20	R5267319
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		22-OCT-20	R5267319
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		22-OCT-20	R5267319
Boron (B)-Dissolved	0.0070	<DL	0.050	mg/L		22-OCT-20	R5267319
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		22-OCT-20	R5267319
Calcium (Ca)-Dissolved	0.394		0.20	mg/L		22-OCT-20	R5267319
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		22-OCT-20	R5267319
Chromium (Cr)-Dissolved	0.00025	<DL	0.0010	mg/L		22-OCT-20	R5267319
Cobalt (Co)-Dissolved	0.000014	<DL	0.00050	mg/L		22-OCT-20	R5267319
Copper (Cu)-Dissolved	0.00012	<DL	0.0010	mg/L		22-OCT-20	R5267319
Iron (Fe)-Dissolved	0.0355		0.020	mg/L		22-OCT-20	R5267319
Lead (Pb)-Dissolved	0.00003	<DL	0.000050	mg/L		22-OCT-20	R5267319

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-1 FB_SW_20201006 Sampled By: Client on 14-OCT-20 @ 12:00 Matrix: SW							
Dissolved Metals							
Lithium (Li)-Dissolved	<0.0002	<W	0.050	mg/L		22-OCT-20	R5267319
Magnesium (Mg)-Dissolved	0.0090	<DL	0.020	mg/L		22-OCT-20	R5267319
Manganese (Mn)-Dissolved	0.00012	<DL	0.0010	mg/L		22-OCT-20	R5267319
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261582
Molybdenum (Mo)-Dissolved	0.000008	<DL	0.0010	mg/L		22-OCT-20	R5267319
Nickel (Ni)-Dissolved	<0.00002	<W	0.0020	mg/L		22-OCT-20	R5267319
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		22-OCT-20	R5267319
Potassium (K)-Dissolved	<0.01	<W	0.50	mg/L		22-OCT-20	R5267319
Rubidium (Rb)-Dissolved	0.000032	<DL	0.00020	mg/L		22-OCT-20	R5267319
Selenium (Se)-Dissolved	<0.000005	<W	0.000050	mg/L		22-OCT-20	R5267319
Silicon (Si)-Dissolved	1.93		0.050	mg/L		22-OCT-20	R5267319
Silver (Ag)-Dissolved	0.0000030	<DL	0.00010	mg/L		22-OCT-20	R5267319
Sodium (Na)-Dissolved	0.650		0.10	mg/L		22-OCT-20	R5267319
Strontium (Sr)-Dissolved	0.00058	<DL	0.0010	mg/L		22-OCT-20	R5267319
Sulfur (S)-Dissolved	<0.2	<W	0.50	mg/L		22-OCT-20	R5267319
Tellurium (Te)-Dissolved	0.00001	<DL	0.0010	mg/L		22-OCT-20	R5267319
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		22-OCT-20	R5267319
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		22-OCT-20	R5267319
Tin (Sn)-Dissolved	0.000305	<DL	0.0010	mg/L		22-OCT-20	R5267319
Titanium (Ti)-Dissolved	0.00064	<DL	0.0020	mg/L		22-OCT-20	R5267319
Tungsten (W)-Dissolved	0.000004	<DL	0.010	mg/L		22-OCT-20	R5267319
Uranium (U)-Dissolved	0.0000010	<DL	0.0050	mg/L		22-OCT-20	R5267319
Vanadium (V)-Dissolved	<0.00002	<W	0.0010	mg/L		22-OCT-20	R5267319
Zinc (Zn)-Dissolved	<0.0002	<W	0.0030	mg/L		22-OCT-20	R5267319
Zirconium (Zr)-Dissolved	0.000082	<DL	0.0010	mg/L		22-OCT-20	R5267319
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		17-OCT-20	R5264839
Chemical Oxygen Demand	<20		20	mg/L	20-OCT-20	22-OCT-20	R5264521
Oil and Grease, Total	1.4		1.0	mg/L	20-OCT-20	20-OCT-20	R5260068
L2517645-2 SW02_SW_20201006 Sampled By: Client on 14-OCT-20 @ 13:45 Matrix: SW							
Field Tests							
pH, Client Supplied	7.22		0.10	pH		21-OCT-20	R5261137
Temperature, Client Supplied	5.45		0	Degree C		21-OCT-20	R5261137
Physical Tests							
Color, True	106		2.0	CU		17-OCT-20	R5256356
Conductivity (EC)	122		1.0	uS/cm		17-OCT-20	R5256377
Hardness (as CaCO3)	66.4		0.51	mg/L		23-OCT-20	
pH	7.54		0.10	pH		17-OCT-20	R5256377
Total Suspended Solids	0.5	<DL	3.0	mg/L		19-OCT-20	R5258096
Total Dissolved Solids	120		13	mg/L		19-OCT-20	R5258237

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-2 SW02_SW_20201006							
Sampled By: Client on 14-OCT-20 @ 13:45							
Matrix: SW							
Physical Tests							
Turbidity	0.93		0.10	NTU		17-OCT-20	R5256181
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		18-OCT-20	R5256643
Alkalinity, Total (as CaCO3)	62.2		2.0	mg/L		17-OCT-20	R5256377
Ammonia, Total (as N)	0.012	<T	0.0050	mg/L		22-OCT-20	R5263998
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		23-OCT-20	
Chloride (Cl)	0.93		0.10	mg/L	17-OCT-20	18-OCT-20	R5256723
Fluoride (F)	0.028		0.020	mg/L	17-OCT-20	18-OCT-20	R5256723
Nitrate (as N)	0.048	<T	0.020	mg/L		18-OCT-20	R5256723
Nitrite (as N)	0.002	<DL	0.010	mg/L		18-OCT-20	R5256723
Total Kjeldahl Nitrogen	0.913		0.050	mg/L	20-OCT-20	26-OCT-20	R5268626
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	17-OCT-20	20-OCT-20	R5260597
Sulfate (SO4)	1.55	<T	0.30	mg/L		18-OCT-20	R5256723
Cyanides							
Cyanide, Weak Acid Diss	0.0012	<DL	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Total	0.0004	<DL	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Free	0.0005	<DL	0.0020	mg/L		21-OCT-20	R5263218
Organic / Inorganic Carbon							
Dissolved Organic Carbon	23.6		0.50	mg/L		25-OCT-20	R5268862
Total Organic Carbon	23.8		0.50	mg/L		25-OCT-20	R5268867
Total Metals							
Aluminum (Al)-Total	0.0502		0.0050	mg/L		21-OCT-20	R5263621
Antimony (Sb)-Total	0.000035	<DL	0.00060	mg/L		21-OCT-20	R5263621
Arsenic (As)-Total	0.00057	<DL	0.0010	mg/L		21-OCT-20	R5263621
Barium (Ba)-Total	0.00775	<DL	0.010	mg/L		21-OCT-20	R5263621
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		21-OCT-20	R5263621
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		21-OCT-20	R5263621
Boron (B)-Total	0.0090	<DL	0.050	mg/L		21-OCT-20	R5263621
Cadmium (Cd)-Total	0.000004	<DL	0.000017	mg/L		21-OCT-20	R5263621
Calcium (Ca)-Total	17.0		0.20	mg/L		21-OCT-20	R5263621
Cesium (Cs)-Total	0.0000060	<DL	0.000010	mg/L		21-OCT-20	R5263621
Chromium (Cr)-Total	0.00024	<DL	0.0010	mg/L		21-OCT-20	R5263621
Cobalt (Co)-Total	0.000105	<DL	0.00050	mg/L		21-OCT-20	R5263621
Copper (Cu)-Total	0.00036	<DL	0.0010	mg/L		21-OCT-20	R5263621
Iron (Fe)-Total	0.192		0.020	mg/L		21-OCT-20	R5263621
Lead (Pb)-Total	0.00004	<DL	0.000050	mg/L		21-OCT-20	R5263621
Lithium (Li)-Total	0.0022	<DL	0.050	mg/L		21-OCT-20	R5263621
Magnesium (Mg)-Total	7.09		0.020	mg/L		21-OCT-20	R5263621
Manganese (Mn)-Total	0.0108		0.0010	mg/L		21-OCT-20	R5263621
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261597
Molybdenum (Mo)-Total	0.000230	<DL	0.0010	mg/L		21-OCT-20	R5263621
Nickel (Ni)-Total	0.00056	<DL	0.0020	mg/L		21-OCT-20	R5263621

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-2 SW02_SW_20201006							
Sampled By: Client on 14-OCT-20 @ 13:45							
Matrix: SW							
Total Metals							
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		21-OCT-20	R5263621
Potassium (K)-Total	0.77		0.50	mg/L		21-OCT-20	R5263621
Rubidium (Rb)-Total	0.00176		0.00020	mg/L		21-OCT-20	R5263621
Selenium (Se)-Total	0.000100	<T	0.000050	mg/L		21-OCT-20	R5263621
Silicon (Si)-Total	5.73		0.10	mg/L		21-OCT-20	R5263621
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		21-OCT-20	R5263621
Sodium (Na)-Total	1.33		0.10	mg/L		21-OCT-20	R5263621
Strontium (Sr)-Total	0.0263		0.0010	mg/L		21-OCT-20	R5263621
Sulfur (S)-Total	0.6		0.50	mg/L		21-OCT-20	R5263621
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		21-OCT-20	R5263621
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		21-OCT-20	R5263621
Thorium (Th)-Total	<0.00001	<W	0.00010	mg/L		21-OCT-20	R5263621
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		21-OCT-20	R5263621
Titanium (Ti)-Total	0.00121	<DL	0.0020	mg/L		21-OCT-20	R5263621
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		21-OCT-20	R5263621
Uranium (U)-Total	0.0000425	<DL	0.0050	mg/L		21-OCT-20	R5263621
Vanadium (V)-Total	0.00045	<DL	0.0010	mg/L		21-OCT-20	R5263621
Zinc (Zn)-Total	0.0005	<DL	0.0030	mg/L		21-OCT-20	R5263621
Zirconium (Zr)-Total	0.000094	<DL	0.0010	mg/L		21-OCT-20	R5263621
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					21-OCT-20	R5265858
Aluminum (Al)-Dissolved	0.0210	<T	0.0050	mg/L		22-OCT-20	R5267319
Antimony (Sb)-Dissolved	0.000035	<DL	0.00060	mg/L		22-OCT-20	R5267319
Arsenic (As)-Dissolved	0.000500	<DL	0.0010	mg/L		22-OCT-20	R5267319
Barium (Ba)-Dissolved	0.00738	<DL	0.010	mg/L		22-OCT-20	R5267319
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		22-OCT-20	R5267319
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		22-OCT-20	R5267319
Boron (B)-Dissolved	0.0070	<DL	0.050	mg/L		22-OCT-20	R5267319
Cadmium (Cd)-Dissolved	0.0000020	<DL	0.000017	mg/L		22-OCT-20	R5267319
Calcium (Ca)-Dissolved	16.0		0.20	mg/L		22-OCT-20	R5267319
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		22-OCT-20	R5267319
Chromium (Cr)-Dissolved	0.00008	<DL	0.0010	mg/L		22-OCT-20	R5267319
Cobalt (Co)-Dissolved	0.000076	<DL	0.00050	mg/L		22-OCT-20	R5267319
Copper (Cu)-Dissolved	0.00030	<DL	0.0010	mg/L		22-OCT-20	R5267319
Iron (Fe)-Dissolved	0.163		0.020	mg/L		22-OCT-20	R5267319
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		22-OCT-20	R5267319
Lithium (Li)-Dissolved	0.0014	<DL	0.050	mg/L		22-OCT-20	R5267319
Magnesium (Mg)-Dissolved	6.42		0.020	mg/L		22-OCT-20	R5267319
Manganese (Mn)-Dissolved	0.00838		0.0010	mg/L		22-OCT-20	R5267319
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261582
Molybdenum (Mo)-Dissolved	0.000196	<DL	0.0010	mg/L		22-OCT-20	R5267319

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-2 SW02_SW_20201006 Sampled By: Client on 14-OCT-20 @ 13:45 Matrix: SW							
Dissolved Metals							
Nickel (Ni)-Dissolved	0.00044	<DL	0.0020	mg/L		22-OCT-20	R5267319
Phosphorus (P)-Dissolved	0.005	<DL	0.050	mg/L		22-OCT-20	R5267319
Potassium (K)-Dissolved	0.74		0.50	mg/L		22-OCT-20	R5267319
Rubidium (Rb)-Dissolved	0.00160		0.00020	mg/L		22-OCT-20	R5267319
Selenium (Se)-Dissolved	0.000120	<T	0.000050	mg/L		22-OCT-20	R5267319
Silicon (Si)-Dissolved	5.44		0.050	mg/L		22-OCT-20	R5267319
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		22-OCT-20	R5267319
Sodium (Na)-Dissolved	1.21		0.10	mg/L		22-OCT-20	R5267319
Strontium (Sr)-Dissolved	0.0246		0.0010	mg/L		22-OCT-20	R5267319
Sulfur (S)-Dissolved	<0.2	<W	0.50	mg/L		22-OCT-20	R5267319
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		22-OCT-20	R5267319
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		22-OCT-20	R5267319
Thorium (Th)-Dissolved	0.00001	<DL	0.00010	mg/L		22-OCT-20	R5267319
Tin (Sn)-Dissolved	0.000025	<DL	0.0010	mg/L		22-OCT-20	R5267319
Titanium (Ti)-Dissolved	0.00050	<DL	0.0020	mg/L		22-OCT-20	R5267319
Tungsten (W)-Dissolved	0.000002	<DL	0.010	mg/L		22-OCT-20	R5267319
Uranium (U)-Dissolved	0.0000335	<DL	0.0050	mg/L		22-OCT-20	R5267319
Vanadium (V)-Dissolved	0.00010	<DL	0.0010	mg/L		22-OCT-20	R5267319
Zinc (Zn)-Dissolved	0.0018	<DL	0.0030	mg/L		22-OCT-20	R5267319
Zirconium (Zr)-Dissolved	0.000092	<DL	0.0010	mg/L		22-OCT-20	R5267319
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		17-OCT-20	R5264839
Chemical Oxygen Demand	75		20	mg/L	20-OCT-20	22-OCT-20	R5264521
Oil and Grease, Total	0.4	<DL	1.0	mg/L	20-OCT-20	20-OCT-20	R5260068
L2517645-3 SW03_SW_20201006 Sampled By: Client on 14-OCT-20 @ 15:40 Matrix: SW							
Field Tests							
pH, Client Supplied	7.35		0.10	pH		21-OCT-20	R5261137
Temperature, Client Supplied	7.09		0	Degree C		21-OCT-20	R5261137
Physical Tests							
Color, True	55.8		2.0	CU		17-OCT-20	R5256356
Conductivity (EC)	341		1.0	uS/cm		17-OCT-20	R5256377
Hardness (as CaCO3)	170		0.51	mg/L		23-OCT-20	
pH	7.98		0.10	pH		17-OCT-20	R5256377
Total Suspended Solids	4.5		3.0	mg/L		19-OCT-20	R5258096
Total Dissolved Solids	234		20	mg/L		19-OCT-20	R5258237
Turbidity	6.33		0.10	NTU		17-OCT-20	R5256181
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		18-OCT-20	R5256643
Alkalinity, Total (as CaCO3)	163		2.0	mg/L		17-OCT-20	R5256377
Ammonia, Total (as N)	0.008	<T	0.0050	mg/L		22-OCT-20	R5263998

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-3 SW03_SW_20201006							
Sampled By: Client on 14-OCT-20 @ 15:40							
Matrix: SW							
Anions and Nutrients							
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		23-OCT-20	
Chloride (Cl)	9.51		0.10	mg/L	17-OCT-20	19-OCT-20	R5257836
Fluoride (F)	0.062		0.020	mg/L	17-OCT-20	19-OCT-20	R5257836
Nitrate (as N)	0.062	<T	0.020	mg/L		19-OCT-20	R5257836
Nitrite (as N)	0.002	<DL	0.010	mg/L		19-OCT-20	R5257836
Total Kjeldahl Nitrogen	1.07		0.050	mg/L	20-OCT-20	26-OCT-20	R52688626
Orthophosphate-Dissolved (as P)	0.0171		0.0030	mg/L	17-OCT-20	20-OCT-20	R5260597
Sulfate (SO4)	12.9		0.30	mg/L		19-OCT-20	R5257836
Cyanides							
Cyanide, Weak Acid Diss	0.0007	<DL	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Total	0.0008	<DL	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Free	0.0008	<DL	0.0020	mg/L		21-OCT-20	R5263218
Organic / Inorganic Carbon							
Dissolved Organic Carbon	22.5		0.50	mg/L		25-OCT-20	R5268862
Total Organic Carbon	22.5		0.50	mg/L		25-OCT-20	R5268867
Total Metals							
Aluminum (Al)-Total	0.229		0.0050	mg/L		21-OCT-20	R5263621
Antimony (Sb)-Total	0.000065	<DL	0.00060	mg/L		21-OCT-20	R5263621
Arsenic (As)-Total	0.00123	<T	0.0010	mg/L		21-OCT-20	R5263621
Barium (Ba)-Total	0.0216		0.010	mg/L		21-OCT-20	R5263621
Beryllium (Be)-Total	0.0000114	<DL	0.0010	mg/L		21-OCT-20	R5263621
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		21-OCT-20	R5263621
Boron (B)-Total	0.0170	<DL	0.050	mg/L		21-OCT-20	R5263621
Cadmium (Cd)-Total	0.000009	<DL	0.000017	mg/L		21-OCT-20	R5263621
Calcium (Ca)-Total	42.3		0.20	mg/L		21-OCT-20	R5263621
Cesium (Cs)-Total	0.0000330		0.000010	mg/L		21-OCT-20	R5263621
Chromium (Cr)-Total	0.00058	<DL	0.0010	mg/L		21-OCT-20	R5263621
Cobalt (Co)-Total	0.000255	<DL	0.00050	mg/L		21-OCT-20	R5263621
Copper (Cu)-Total	0.00132	<T	0.0010	mg/L		21-OCT-20	R5263621
Iron (Fe)-Total	0.354		0.020	mg/L		21-OCT-20	R5263621
Lead (Pb)-Total	0.00012	<T	0.000050	mg/L		21-OCT-20	R5263621
Lithium (Li)-Total	0.0058	<DL	0.050	mg/L		21-OCT-20	R5263621
Magnesium (Mg)-Total	18.1		0.020	mg/L		21-OCT-20	R5263621
Manganese (Mn)-Total	0.0526		0.0010	mg/L		21-OCT-20	R5263621
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261597
Molybdenum (Mo)-Total	0.000445	<DL	0.0010	mg/L		21-OCT-20	R5263621
Nickel (Ni)-Total	0.00180	<DL	0.0020	mg/L		21-OCT-20	R5263621
Phosphorus (P)-Total	0.035	<DL	0.050	mg/L		21-OCT-20	R5263621
Potassium (K)-Total	1.97		0.50	mg/L		21-OCT-20	R5263621
Rubidium (Rb)-Total	0.00273		0.00020	mg/L		21-OCT-20	R5263621
Selenium (Se)-Total	0.000200	<T	0.000050	mg/L		21-OCT-20	R5263621
Silicon (Si)-Total	2.81		0.10	mg/L		21-OCT-20	R5263621

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-3 SW03_SW_20201006							
Sampled By: Client on 14-OCT-20 @ 15:40							
Matrix: SW							
Total Metals							
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		21-OCT-20	R5263621
Sodium (Na)-Total	4.66		0.10	mg/L		21-OCT-20	R5263621
Strontium (Sr)-Total	0.101		0.0010	mg/L		21-OCT-20	R5263621
Sulfur (S)-Total	4.8		0.50	mg/L		21-OCT-20	R5263621
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		21-OCT-20	R5263621
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		21-OCT-20	R5263621
Thorium (Th)-Total	0.00004	<DL	0.00010	mg/L		21-OCT-20	R5263621
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		21-OCT-20	R5263621
Titanium (Ti)-Total	0.00734		0.0020	mg/L		21-OCT-20	R5263621
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		21-OCT-20	R5263621
Uranium (U)-Total	0.000805	<DL	0.0050	mg/L		21-OCT-20	R5263621
Vanadium (V)-Total	0.00115	<T	0.0010	mg/L		21-OCT-20	R5263621
Zinc (Zn)-Total	0.0020	<DL	0.0030	mg/L		21-OCT-20	R5263621
Zirconium (Zr)-Total	0.000312	<DL	0.0010	mg/L		21-OCT-20	R5263621
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					21-OCT-20	R5265858
Aluminum (Al)-Dissolved	0.0088	<T	0.0050	mg/L		22-OCT-20	R5267319
Antimony (Sb)-Dissolved	0.000060	<DL	0.00060	mg/L		22-OCT-20	R5267319
Arsenic (As)-Dissolved	0.00115	<T	0.0010	mg/L		22-OCT-20	R5267319
Barium (Ba)-Dissolved	0.0196		0.010	mg/L		22-OCT-20	R5267319
Beryllium (Be)-Dissolved	0.000010	<DL	0.0010	mg/L		22-OCT-20	R5267319
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		22-OCT-20	R5267319
Boron (B)-Dissolved	0.0150	<DL	0.050	mg/L		22-OCT-20	R5267319
Cadmium (Cd)-Dissolved	0.0000040	<DL	0.000017	mg/L		22-OCT-20	R5267319
Calcium (Ca)-Dissolved	41.3		0.20	mg/L		22-OCT-20	R5267319
Cesium (Cs)-Dissolved	0.0000020	<DL	0.000010	mg/L		22-OCT-20	R5267319
Chromium (Cr)-Dissolved	0.00008	<DL	0.0010	mg/L		22-OCT-20	R5267319
Cobalt (Co)-Dissolved	0.000136	<DL	0.00050	mg/L		22-OCT-20	R5267319
Copper (Cu)-Dissolved	0.00100	<T	0.0010	mg/L		22-OCT-20	R5267319
Iron (Fe)-Dissolved	0.118		0.020	mg/L		22-OCT-20	R5267319
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		22-OCT-20	R5267319
Lithium (Li)-Dissolved	0.0044	<DL	0.050	mg/L		22-OCT-20	R5267319
Magnesium (Mg)-Dissolved	16.4		0.020	mg/L		22-OCT-20	R5267319
Manganese (Mn)-Dissolved	0.0384		0.0010	mg/L		22-OCT-20	R5267319
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261582
Molybdenum (Mo)-Dissolved	0.000384	<DL	0.0010	mg/L		22-OCT-20	R5267319
Nickel (Ni)-Dissolved	0.00142	<DL	0.0020	mg/L		22-OCT-20	R5267319
Phosphorus (P)-Dissolved	0.030	<DL	0.050	mg/L		22-OCT-20	R5267319
Potassium (K)-Dissolved	1.92		0.50	mg/L		22-OCT-20	R5267319
Rubidium (Rb)-Dissolved	0.00233		0.00020	mg/L		22-OCT-20	R5267319
Selenium (Se)-Dissolved	0.000185	<T	0.000050	mg/L		22-OCT-20	R5267319

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-3 SW03_SW_20201006 Sampled By: Client on 14-OCT-20 @ 15:40 Matrix: SW							
Dissolved Metals							
Silicon (Si)-Dissolved	2.26		0.050	mg/L		22-OCT-20	R5267319
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		22-OCT-20	R5267319
Sodium (Na)-Dissolved	4.28		0.10	mg/L		22-OCT-20	R5267319
Strontium (Sr)-Dissolved	0.0948		0.0010	mg/L		22-OCT-20	R5267319
Sulfur (S)-Dissolved	4.2		0.50	mg/L		22-OCT-20	R5267319
Tellurium (Te)-Dissolved	0.00002	<DL	0.0010	mg/L		22-OCT-20	R5267319
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		22-OCT-20	R5267319
Thorium (Th)-Dissolved	0.00001	<DL	0.00010	mg/L		22-OCT-20	R5267319
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		22-OCT-20	R5267319
Titanium (Ti)-Dissolved	0.00080	<DL	0.0020	mg/L		22-OCT-20	R5267319
Tungsten (W)-Dissolved	0.000006	<DL	0.010	mg/L		22-OCT-20	R5267319
Uranium (U)-Dissolved	0.000691	<DL	0.0050	mg/L		22-OCT-20	R5267319
Vanadium (V)-Dissolved	0.00036	<DL	0.0010	mg/L		22-OCT-20	R5267319
Zinc (Zn)-Dissolved	0.0012	<DL	0.0030	mg/L		22-OCT-20	R5267319
Zirconium (Zr)-Dissolved	0.000204	<DL	0.0010	mg/L		22-OCT-20	R5267319
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		17-OCT-20	R5264839
Chemical Oxygen Demand	68		20	mg/L	20-OCT-20	22-OCT-20	R5264521
Oil and Grease, Total	1.2		1.0	mg/L	20-OCT-20	21-OCT-20	R5260278
L2517645-4 SW06_SW_20201006 Sampled By: Client on 14-OCT-20 @ 12:00 Matrix: SW							
Physical Tests							
Color, True	34.9		2.0	CU		17-OCT-20	R5256356
Conductivity (EC)	81.2		1.0	uS/cm		17-OCT-20	R5256377
Hardness (as CaCO3)	35.9		0.51	mg/L		23-OCT-20	
pH	7.55		0.10	pH		17-OCT-20	R5256377
Total Suspended Solids	6.5		3.0	mg/L		19-OCT-20	R5258096
Total Dissolved Solids	68		13	mg/L		19-OCT-20	R5258237
Turbidity	6.57		0.10	NTU		17-OCT-20	R5256181
Anions and Nutrients							
Acidity (as CaCO3)	0.2	<DL	2.0	mg/L		18-OCT-20	R5256643
Alkalinity, Total (as CaCO3)	35.2		2.0	mg/L		17-OCT-20	R5256377
Ammonia, Total (as N)	0.008	<T	0.0050	mg/L		22-OCT-20	R5263998
Chloride (Cl)	2.76		0.10	mg/L	17-OCT-20	18-OCT-20	R5256723
Fluoride (F)	0.038		0.020	mg/L	17-OCT-20	18-OCT-20	R5256723
Nitrate (as N)	0.024	<T	0.020	mg/L		18-OCT-20	R5256723
Nitrite (as N)	0.002	<DL	0.010	mg/L		18-OCT-20	R5256723
Total Kjeldahl Nitrogen	0.503		0.050	mg/L	20-OCT-20	26-OCT-20	R5268626
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	17-OCT-20	20-OCT-20	R5260597
Sulfate (SO4)	3.05	<T	0.30	mg/L		18-OCT-20	R5256723
Cyanides							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-4 SW06_SW_20201006							
Sampled By: Client on 14-OCT-20 @ 12:00							
Matrix: SW							
Cyanides							
Cyanide, Weak Acid Diss	0.0009	<DL	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Total	0.0004	<DL	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Free	0.0005	<DL	0.0020	mg/L		21-OCT-20	R5263218
Organic / Inorganic Carbon							
Dissolved Organic Carbon	10.1		0.50	mg/L		27-OCT-20	R5270323
Total Organic Carbon	9.9		0.50	mg/L		25-OCT-20	R5268867
Total Metals							
Aluminum (Al)-Total	0.100		0.0050	mg/L		21-OCT-20	R5263621
Antimony (Sb)-Total	0.000040	<DL	0.00060	mg/L		21-OCT-20	R5263621
Arsenic (As)-Total	0.00055	<DL	0.0010	mg/L		21-OCT-20	R5263621
Barium (Ba)-Total	0.0105		0.010	mg/L		21-OCT-20	R5263621
Beryllium (Be)-Total	0.0000029	<DL	0.0010	mg/L		21-OCT-20	R5263621
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		21-OCT-20	R5263621
Boron (B)-Total	0.0075	<DL	0.050	mg/L		21-OCT-20	R5263621
Cadmium (Cd)-Total	0.000027	<T	0.000017	mg/L		21-OCT-20	R5263621
Calcium (Ca)-Total	9.72		0.20	mg/L		21-OCT-20	R5263621
Cesium (Cs)-Total	0.0000165		0.000010	mg/L		21-OCT-20	R5263621
Chromium (Cr)-Total	0.00040	<DL	0.0010	mg/L		21-OCT-20	R5263621
Cobalt (Co)-Total	0.000130	<DL	0.00050	mg/L		21-OCT-20	R5263621
Copper (Cu)-Total	0.00132	<T	0.0010	mg/L		21-OCT-20	R5263621
Iron (Fe)-Total	0.206		0.020	mg/L		21-OCT-20	R5263621
Lead (Pb)-Total	0.00021	<T	0.000050	mg/L		21-OCT-20	R5263621
Lithium (Li)-Total	0.0014	<DL	0.050	mg/L		21-OCT-20	R5263621
Magnesium (Mg)-Total	3.45		0.020	mg/L		21-OCT-20	R5263621
Manganese (Mn)-Total	0.0160		0.0010	mg/L		21-OCT-20	R5263621
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261597
Molybdenum (Mo)-Total	0.000165	<DL	0.0010	mg/L		21-OCT-20	R5263621
Nickel (Ni)-Total	0.00084	<DL	0.0020	mg/L		21-OCT-20	R5263621
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		21-OCT-20	R5263621
Potassium (K)-Total	0.83		0.50	mg/L		21-OCT-20	R5263621
Rubidium (Rb)-Total	0.00174		0.00020	mg/L		21-OCT-20	R5263621
Selenium (Se)-Total	0.000120	<T	0.000050	mg/L		21-OCT-20	R5263621
Silicon (Si)-Total	2.01		0.10	mg/L		21-OCT-20	R5263621
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		21-OCT-20	R5263621
Sodium (Na)-Total	2.82		0.10	mg/L		21-OCT-20	R5263621
Strontium (Sr)-Total	0.0275		0.0010	mg/L		21-OCT-20	R5263621
Sulfur (S)-Total	1.0		0.50	mg/L		21-OCT-20	R5263621
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		21-OCT-20	R5263621
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		21-OCT-20	R5263621
Thorium (Th)-Total	0.00004	<DL	0.00010	mg/L		21-OCT-20	R5263621
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		21-OCT-20	R5263621

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-4 SW06_SW_20201006							
Sampled By: Client on 14-OCT-20 @ 12:00							
Matrix: SW							
Total Metals							
Titanium (Ti)-Total	0.00387		0.0020	mg/L		21-OCT-20	R5263621
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		21-OCT-20	R5263621
Uranium (U)-Total	0.000118	<DL	0.0050	mg/L		21-OCT-20	R5263621
Vanadium (V)-Total	0.00070	<DL	0.0010	mg/L		21-OCT-20	R5263621
Zinc (Zn)-Total	0.0010	<DL	0.0030	mg/L		21-OCT-20	R5263621
Zirconium (Zr)-Total	0.000224	<DL	0.0010	mg/L		21-OCT-20	R5263621
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					21-OCT-20	R5265858
Aluminum (Al)-Dissolved	0.0196	<T	0.0050	mg/L		22-OCT-20	R5267319
Antimony (Sb)-Dissolved	0.000040	<DL	0.00060	mg/L		22-OCT-20	R5267319
Arsenic (As)-Dissolved	0.000512	<DL	0.0010	mg/L		22-OCT-20	R5267319
Barium (Ba)-Dissolved	0.00890	<DL	0.010	mg/L		22-OCT-20	R5267319
Beryllium (Be)-Dissolved	0.000004	<DL	0.0010	mg/L		22-OCT-20	R5267319
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		22-OCT-20	R5267319
Boron (B)-Dissolved	0.0075	<DL	0.050	mg/L		22-OCT-20	R5267319
Cadmium (Cd)-Dissolved	0.0000170	<T	0.000017	mg/L		22-OCT-20	R5267319
Calcium (Ca)-Dissolved	9.24		0.20	mg/L		22-OCT-20	R5267319
Cesium (Cs)-Dissolved	0.0000020	<DL	0.000010	mg/L		22-OCT-20	R5267319
Chromium (Cr)-Dissolved	0.00015	<DL	0.0010	mg/L		22-OCT-20	R5267319
Cobalt (Co)-Dissolved	0.000036	<DL	0.00050	mg/L		22-OCT-20	R5267319
Copper (Cu)-Dissolved	0.00094	<DL	0.0010	mg/L		22-OCT-20	R5267319
Iron (Fe)-Dissolved	0.0845		0.020	mg/L		22-OCT-20	R5267319
Lead (Pb)-Dissolved	0.00005	<T	0.000050	mg/L		22-OCT-20	R5267319
Lithium (Li)-Dissolved	0.0006	<DL	0.050	mg/L		22-OCT-20	R5267319
Magnesium (Mg)-Dissolved	3.10		0.020	mg/L		22-OCT-20	R5267319
Manganese (Mn)-Dissolved	0.00572		0.0010	mg/L		22-OCT-20	R5267319
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261582
Molybdenum (Mo)-Dissolved	0.000186	<DL	0.0010	mg/L		22-OCT-20	R5267319
Nickel (Ni)-Dissolved	0.00060	<DL	0.0020	mg/L		22-OCT-20	R5267319
Phosphorus (P)-Dissolved	0.005	<DL	0.050	mg/L		22-OCT-20	R5267319
Potassium (K)-Dissolved	0.78		0.50	mg/L		22-OCT-20	R5267319
Rubidium (Rb)-Dissolved	0.00141		0.00020	mg/L		22-OCT-20	R5267319
Selenium (Se)-Dissolved	0.000095	<T	0.000050	mg/L		22-OCT-20	R5267319
Silicon (Si)-Dissolved	1.87		0.050	mg/L		22-OCT-20	R5267319
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		22-OCT-20	R5267319
Sodium (Na)-Dissolved	2.56		0.10	mg/L		22-OCT-20	R5267319
Strontium (Sr)-Dissolved	0.0259		0.0010	mg/L		22-OCT-20	R5267319
Sulfur (S)-Dissolved	0.6		0.50	mg/L		22-OCT-20	R5267319
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		22-OCT-20	R5267319
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		22-OCT-20	R5267319
Thorium (Th)-Dissolved	0.00003	<DL	0.00010	mg/L		22-OCT-20	R5267319

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-4 SW06_SW_20201006 Sampled By: Client on 14-OCT-20 @ 12:00 Matrix: SW							
Dissolved Metals							
Tin (Sn)-Dissolved	0.000005	<DL	0.0010	mg/L		22-OCT-20	R5267319
Titanium (Ti)-Dissolved	0.00098	<DL	0.0020	mg/L		22-OCT-20	R5267319
Tungsten (W)-Dissolved	0.000006	<DL	0.010	mg/L		22-OCT-20	R5267319
Uranium (U)-Dissolved	0.000102	<DL	0.0050	mg/L		22-OCT-20	R5267319
Vanadium (V)-Dissolved	0.00030	<DL	0.0010	mg/L		22-OCT-20	R5267319
Zinc (Zn)-Dissolved	0.0010	<DL	0.0030	mg/L		22-OCT-20	R5267319
Zirconium (Zr)-Dissolved	0.000134	<DL	0.0010	mg/L		22-OCT-20	R5267319
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		17-OCT-20	R5264839
Chemical Oxygen Demand	37		20	mg/L	20-OCT-20	22-OCT-20	R5264521
Oil and Grease, Total	<0.2	<W	1.0	mg/L	20-OCT-20	21-OCT-20	R5260278
L2517645-5 SW10_SW_20201006 Sampled By: Client on 14-OCT-20 @ 10:15 Matrix: SW							
Field Tests							
pH, Client Supplied	7.26		0.10	pH		21-OCT-20	R5261137
Temperature, Client Supplied	8.51		0	Degree C		21-OCT-20	R5261137
Physical Tests							
Color, True	54.2		2.0	CU		17-OCT-20	R5256356
Conductivity (EC)	375		1.0	uS/cm		17-OCT-20	R5256377
Hardness (as CaCO3)	174		0.51	mg/L		23-OCT-20	
pH	7.96		0.10	pH		17-OCT-20	R5256377
Total Suspended Solids	5.0		3.0	mg/L		19-OCT-20	R5258096
Total Dissolved Solids	246		20	mg/L		19-OCT-20	R5258237
Turbidity	2.24		0.10	NTU		17-OCT-20	R5256181
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		18-OCT-20	R5256643
Alkalinity, Total (as CaCO3)	178		2.0	mg/L		17-OCT-20	R5256377
Ammonia, Total (as N)	0.014	<T	0.0050	mg/L		22-OCT-20	R5263998
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		23-OCT-20	
Chloride (Cl)	20.3		0.10	mg/L	17-OCT-20	18-OCT-20	R5256723
Fluoride (F)	0.066		0.020	mg/L	17-OCT-20	18-OCT-20	R5256723
Nitrate (as N)	0.006	<DL	0.020	mg/L		18-OCT-20	R5256723
Nitrite (as N)	0.001	<DL	0.010	mg/L		18-OCT-20	R5256723
Total Kjeldahl Nitrogen	1.28		0.050	mg/L	20-OCT-20	26-OCT-20	R5268626
Orthophosphate-Dissolved (as P)	0.0115		0.0030	mg/L	17-OCT-20	20-OCT-20	R5260597
Sulfate (SO4)	1.00	<T	0.30	mg/L		18-OCT-20	R5256723
Cyanides							
Cyanide, Weak Acid Diss	0.0010	<DL	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Total	0.0006	<DL	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Free	0.0005	<DL	0.0020	mg/L		21-OCT-20	R5263218
Organic / Inorganic Carbon							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-5 SW10_SW_20201006							
Sampled By: Client on 14-OCT-20 @ 10:15							
Matrix: SW							
Organic / Inorganic Carbon							
Dissolved Organic Carbon	23.2		0.50	mg/L		25-OCT-20	R5268862
Total Organic Carbon	22.8		0.50	mg/L		25-OCT-20	R5268867
Total Metals							
Aluminum (Al)-Total	0.0758		0.0050	mg/L		21-OCT-20	R5263621
Antimony (Sb)-Total	0.000060	<DL	0.00060	mg/L		21-OCT-20	R5263621
Arsenic (As)-Total	0.00100	<T	0.0010	mg/L		21-OCT-20	R5263621
Barium (Ba)-Total	0.0327		0.010	mg/L		21-OCT-20	R5263621
Beryllium (Be)-Total	0.0000085	<DL	0.0010	mg/L		21-OCT-20	R5263621
Bismuth (Bi)-Total	0.00002	<DL	0.0010	mg/L		21-OCT-20	R5263621
Boron (B)-Total	0.0200	<DL	0.050	mg/L		21-OCT-20	R5263621
Cadmium (Cd)-Total	0.000007	<DL	0.000017	mg/L		21-OCT-20	R5263621
Calcium (Ca)-Total	42.1		0.20	mg/L		21-OCT-20	R5263621
Cesium (Cs)-Total	0.0000105		0.000010	mg/L		21-OCT-20	R5263621
Chromium (Cr)-Total	0.00038	<DL	0.0010	mg/L		21-OCT-20	R5263621
Cobalt (Co)-Total	0.000210	<DL	0.00050	mg/L		21-OCT-20	R5263621
Copper (Cu)-Total	0.00048	<DL	0.0010	mg/L		21-OCT-20	R5263621
Iron (Fe)-Total	0.231		0.020	mg/L		21-OCT-20	R5263621
Lead (Pb)-Total	0.00007	<T	0.000050	mg/L		21-OCT-20	R5263621
Lithium (Li)-Total	0.0076	<DL	0.050	mg/L		21-OCT-20	R5263621
Magnesium (Mg)-Total	18.5		0.020	mg/L		21-OCT-20	R5263621
Manganese (Mn)-Total	0.0418		0.0010	mg/L		21-OCT-20	R5263621
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261597
Molybdenum (Mo)-Total	0.000260	<DL	0.0010	mg/L		21-OCT-20	R5263621
Nickel (Ni)-Total	0.00162	<DL	0.0020	mg/L		21-OCT-20	R5263621
Phosphorus (P)-Total	0.020	<DL	0.050	mg/L		21-OCT-20	R5263621
Potassium (K)-Total	2.22		0.50	mg/L		21-OCT-20	R5263621
Rubidium (Rb)-Total	0.00239		0.00020	mg/L		21-OCT-20	R5263621
Selenium (Se)-Total	0.000125	<T	0.000050	mg/L		21-OCT-20	R5263621
Silicon (Si)-Total	1.46		0.10	mg/L		21-OCT-20	R5263621
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		21-OCT-20	R5263621
Sodium (Na)-Total	10.7		0.10	mg/L		21-OCT-20	R5263621
Strontium (Sr)-Total	0.125		0.0010	mg/L		21-OCT-20	R5263621
Sulfur (S)-Total	0.8		0.50	mg/L		21-OCT-20	R5263621
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		21-OCT-20	R5263621
Thallium (Tl)-Total	0.000025	<DL	0.00030	mg/L		21-OCT-20	R5263621
Thorium (Th)-Total	0.00003	<DL	0.00010	mg/L		21-OCT-20	R5263621
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		21-OCT-20	R5263621
Titanium (Ti)-Total	0.00263		0.0020	mg/L		21-OCT-20	R5263621
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		21-OCT-20	R5263621
Uranium (U)-Total	0.000495	<DL	0.0050	mg/L		21-OCT-20	R5263621
Vanadium (V)-Total	0.00050	<DL	0.0010	mg/L		21-OCT-20	R5263621

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-5 SW10_SW_20201006							
Sampled By: Client on 14-OCT-20 @ 10:15							
Matrix: SW							
Total Metals							
Zinc (Zn)-Total	0.0010	<DL	0.0030	mg/L		21-OCT-20	R5263621
Zirconium (Zr)-Total	0.000196	<DL	0.0010	mg/L		21-OCT-20	R5263621
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					21-OCT-20	R5265858
Aluminum (Al)-Dissolved	0.0042	<DL	0.0050	mg/L		22-OCT-20	R5267319
Antimony (Sb)-Dissolved	0.000045	<DL	0.00060	mg/L		22-OCT-20	R5267319
Arsenic (As)-Dissolved	0.000903	<DL	0.0010	mg/L		22-OCT-20	R5267319
Barium (Ba)-Dissolved	0.0166		0.010	mg/L		22-OCT-20	R5267319
Beryllium (Be)-Dissolved	0.000008	<DL	0.0010	mg/L		22-OCT-20	R5267319
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		22-OCT-20	R5267319
Boron (B)-Dissolved	0.0175	<DL	0.050	mg/L		22-OCT-20	R5267319
Cadmium (Cd)-Dissolved	0.0000010	<DL	0.000017	mg/L		22-OCT-20	R5267319
Calcium (Ca)-Dissolved	40.6		0.20	mg/L		22-OCT-20	R5267319
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		22-OCT-20	R5267319
Chromium (Cr)-Dissolved	0.00008	<DL	0.0010	mg/L		22-OCT-20	R5267319
Cobalt (Co)-Dissolved	0.000150	<DL	0.00050	mg/L		22-OCT-20	R5267319
Copper (Cu)-Dissolved	0.00022	<DL	0.0010	mg/L		22-OCT-20	R5267319
Iron (Fe)-Dissolved	0.0995		0.020	mg/L		22-OCT-20	R5267319
Lead (Pb)-Dissolved	<0.00001	<W	0.000050	mg/L		22-OCT-20	R5267319
Lithium (Li)-Dissolved	0.0068	<DL	0.050	mg/L		22-OCT-20	R5267319
Magnesium (Mg)-Dissolved	17.6		0.020	mg/L		22-OCT-20	R5267319
Manganese (Mn)-Dissolved	0.0278		0.0010	mg/L		22-OCT-20	R5267319
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261582
Molybdenum (Mo)-Dissolved	0.000244	<DL	0.0010	mg/L		22-OCT-20	R5267319
Nickel (Ni)-Dissolved	0.00144	<DL	0.0020	mg/L		22-OCT-20	R5267319
Phosphorus (P)-Dissolved	0.025	<DL	0.050	mg/L		22-OCT-20	R5267319
Potassium (K)-Dissolved	2.17		0.50	mg/L		22-OCT-20	R5267319
Rubidium (Rb)-Dissolved	0.00224		0.00020	mg/L		22-OCT-20	R5267319
Selenium (Se)-Dissolved	0.000120	<T	0.000050	mg/L		22-OCT-20	R5267319
Silicon (Si)-Dissolved	1.28		0.050	mg/L		22-OCT-20	R5267319
Silver (Ag)-Dissolved	0.0000020	<DL	0.00010	mg/L		22-OCT-20	R5267319
Sodium (Na)-Dissolved	9.91		0.10	mg/L		22-OCT-20	R5267319
Strontium (Sr)-Dissolved	0.116		0.0010	mg/L		22-OCT-20	R5267319
Sulfur (S)-Dissolved	0.4	<DL	0.50	mg/L		22-OCT-20	R5267319
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		22-OCT-20	R5267319
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		22-OCT-20	R5267319
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		22-OCT-20	R5267319
Tin (Sn)-Dissolved	0.000025	<DL	0.0010	mg/L		22-OCT-20	R5267319
Titanium (Ti)-Dissolved	0.00036	<DL	0.0020	mg/L		22-OCT-20	R5267319
Tungsten (W)-Dissolved	0.000004	<DL	0.010	mg/L		22-OCT-20	R5267319
Uranium (U)-Dissolved	0.000437	<DL	0.0050	mg/L		22-OCT-20	R5267319

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-5 SW10_SW_20201006 Sampled By: Client on 14-OCT-20 @ 10:15 Matrix: SW							
Dissolved Metals							
Vanadium (V)-Dissolved	0.00024	<DL	0.0010	mg/L		22-OCT-20	R5267319
Zinc (Zn)-Dissolved	0.0004	<DL	0.0030	mg/L		22-OCT-20	R5267319
Zirconium (Zr)-Dissolved	0.000152	<DL	0.0010	mg/L		22-OCT-20	R5267319
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		17-OCT-20	R5264839
Chemical Oxygen Demand	73		20	mg/L	20-OCT-20	22-OCT-20	R5264521
Oil and Grease, Total	0.4	<DL	1.0	mg/L	20-OCT-20	21-OCT-20	R5260278
L2517645-6 SW15_SW_20201006 Sampled By: Client on 14-OCT-20 @ 12:10 Matrix: SW							
Field Tests							
pH, Client Supplied	7.35		0.10	pH		21-OCT-20	R5261137
Temperature, Client Supplied	7.3		0	Degree C		21-OCT-20	R5261137
Physical Tests							
Color, True	221		2.0	CU		17-OCT-20	R5256356
Conductivity (EC)	262		1.0	uS/cm		17-OCT-20	R5256377
Hardness (as CaCO3)	137		0.51	mg/L		23-OCT-20	
pH	7.97		0.10	pH		17-OCT-20	R5256377
Total Suspended Solids	30.0		3.0	mg/L		19-OCT-20	R5258096
Total Dissolved Solids	242		20	mg/L		19-OCT-20	R5258237
Turbidity	44.2		0.10	NTU		17-OCT-20	R5256181
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		18-OCT-20	R5256643
Alkalinity, Total (as CaCO3)	139		2.0	mg/L		17-OCT-20	R5256377
Ammonia, Total (as N)	0.076	<T	0.0050	mg/L		22-OCT-20	R5263998
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		23-OCT-20	
Chloride (Cl)	2.65		0.10	mg/L	17-OCT-20	18-OCT-20	R5256723
Fluoride (F)	0.055		0.020	mg/L	17-OCT-20	18-OCT-20	R5256723
Nitrate (as N)	0.030	<T	0.020	mg/L		18-OCT-20	R5256723
Nitrite (as N)	0.002	<DL	0.010	mg/L		18-OCT-20	R5256723
Total Kjeldahl Nitrogen	1.55		0.050	mg/L	20-OCT-20	26-OCT-20	R5268626
Orthophosphate-Dissolved (as P)	0.0389		0.0030	mg/L	17-OCT-20	20-OCT-20	R5260597
Sulfate (SO4)	5.85		0.30	mg/L		18-OCT-20	R5256723
Cyanides							
Cyanide, Weak Acid Diss	0.0011	<DL	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Total	0.0008	<DL	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Free	0.0005	<DL	0.0020	mg/L		21-OCT-20	R5263218
Organic / Inorganic Carbon							
Dissolved Organic Carbon	33.7		0.50	mg/L		25-OCT-20	R5268862
Total Organic Carbon	36.5		0.50	mg/L		25-OCT-20	R5268867
Total Metals							
Aluminum (Al)-Total	1.12		0.0050	mg/L		21-OCT-20	R5263621

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-6 SW15_SW_20201006							
Sampled By: Client on 14-OCT-20 @ 12:10							
Matrix: SW							
Total Metals							
Antimony (Sb)-Total	0.000100	<DL	0.00060	mg/L		21-OCT-20	R5263621
Arsenic (As)-Total	0.00294	<T	0.0010	mg/L		21-OCT-20	R5263621
Barium (Ba)-Total	0.0321		0.010	mg/L		21-OCT-20	R5263621
Beryllium (Be)-Total	0.0000696	<DL	0.0010	mg/L		21-OCT-20	R5263621
Bismuth (Bi)-Total	0.00002	<DL	0.0010	mg/L		21-OCT-20	R5263621
Boron (B)-Total	0.0230	<DL	0.050	mg/L		21-OCT-20	R5263621
Cadmium (Cd)-Total	0.000027	<T	0.000017	mg/L		21-OCT-20	R5263621
Calcium (Ca)-Total	35.9		0.20	mg/L		21-OCT-20	R5263621
Cesium (Cs)-Total	0.000172		0.000010	mg/L		21-OCT-20	R5263621
Chromium (Cr)-Total	0.00230		0.0010	mg/L		21-OCT-20	R5263621
Cobalt (Co)-Total	0.00101	<T	0.00050	mg/L		21-OCT-20	R5263621
Copper (Cu)-Total	0.00388	<T	0.0010	mg/L		21-OCT-20	R5263621
Iron (Fe)-Total	1.95		0.020	mg/L		21-OCT-20	R5263621
Lead (Pb)-Total	0.00106	<T	0.000050	mg/L		21-OCT-20	R5263621
Lithium (Li)-Total	0.0066	<DL	0.050	mg/L		21-OCT-20	R5263621
Magnesium (Mg)-Total	14.7		0.020	mg/L		21-OCT-20	R5263621
Manganese (Mn)-Total	0.170		0.0010	mg/L		21-OCT-20	R5263621
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261597
Molybdenum (Mo)-Total	0.000540	<DL	0.0010	mg/L		21-OCT-20	R5263621
Nickel (Ni)-Total	0.00436	<T	0.0020	mg/L		21-OCT-20	R5263621
Phosphorus (P)-Total	0.120		0.050	mg/L		21-OCT-20	R5263621
Potassium (K)-Total	2.79		0.50	mg/L		21-OCT-20	R5263621
Rubidium (Rb)-Total	0.00422		0.00020	mg/L		21-OCT-20	R5263621
Selenium (Se)-Total	0.000235	<T	0.000050	mg/L		21-OCT-20	R5263621
Silicon (Si)-Total	6.97		0.10	mg/L		21-OCT-20	R5263621
Silver (Ag)-Total	0.000007	<DL	0.00010	mg/L		21-OCT-20	R5263621
Sodium (Na)-Total	4.94		0.10	mg/L		21-OCT-20	R5263621
Strontium (Sr)-Total	0.0810		0.0010	mg/L		21-OCT-20	R5263621
Sulfur (S)-Total	2.2		0.50	mg/L		21-OCT-20	R5263621
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		21-OCT-20	R5263621
Thallium (Tl)-Total	0.000015	<DL	0.00030	mg/L		21-OCT-20	R5263621
Thorium (Th)-Total	0.00029		0.00010	mg/L		21-OCT-20	R5263621
Tin (Sn)-Total	0.00005	<DL	0.0010	mg/L		21-OCT-20	R5263621
Titanium (Ti)-Total	0.0384		0.0020	mg/L		21-OCT-20	R5263621
Tungsten (W)-Total	0.00001	<DL	0.010	mg/L		21-OCT-20	R5263621
Uranium (U)-Total	0.000640	<DL	0.0050	mg/L		21-OCT-20	R5263621
Vanadium (V)-Total	0.00420	<T	0.0010	mg/L		21-OCT-20	R5263621
Zinc (Zn)-Total	0.0060	<T	0.0030	mg/L		21-OCT-20	R5263621
Zirconium (Zr)-Total	0.00156		0.0010	mg/L		21-OCT-20	R5263621
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					21-OCT-20	R5265858

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-6 SW15_SW_20201006							
Sampled By: Client on 14-OCT-20 @ 12:10							
Matrix: SW							
Dissolved Metals							
Aluminum (Al)-Dissolved	0.0680		0.0050	mg/L		22-OCT-20	R5267319
Antimony (Sb)-Dissolved	0.000095	<DL	0.00060	mg/L		22-OCT-20	R5267319
Arsenic (As)-Dissolved	0.00200	<T	0.0010	mg/L		22-OCT-20	R5267319
Barium (Ba)-Dissolved	0.0197		0.010	mg/L		22-OCT-20	R5267319
Beryllium (Be)-Dissolved	0.000022	<DL	0.0010	mg/L		22-OCT-20	R5267319
Bismuth (Bi)-Dissolved	0.000004	<DL	0.0010	mg/L		22-OCT-20	R5267319
Boron (B)-Dissolved	0.0215	<DL	0.050	mg/L		22-OCT-20	R5267319
Cadmium (Cd)-Dissolved	0.0000075	<DL	0.000017	mg/L		22-OCT-20	R5267319
Calcium (Ca)-Dissolved	33.1		0.20	mg/L		22-OCT-20	R5267319
Cesium (Cs)-Dissolved	0.0000030	<DL	0.000010	mg/L		22-OCT-20	R5267319
Chromium (Cr)-Dissolved	0.00028	<DL	0.0010	mg/L		22-OCT-20	R5267319
Cobalt (Co)-Dissolved	0.000112	<DL	0.00050	mg/L		22-OCT-20	R5267319
Copper (Cu)-Dissolved	0.00266	<T	0.0010	mg/L		22-OCT-20	R5267319
Iron (Fe)-Dissolved	0.435		0.020	mg/L		22-OCT-20	R5267319
Lead (Pb)-Dissolved	0.00019	<T	0.000050	mg/L		22-OCT-20	R5267319
Lithium (Li)-Dissolved	0.0052	<DL	0.050	mg/L		22-OCT-20	R5267319
Magnesium (Mg)-Dissolved	13.2		0.020	mg/L		22-OCT-20	R5267319
Manganese (Mn)-Dissolved	0.00566		0.0010	mg/L		22-OCT-20	R5267319
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261582
Molybdenum (Mo)-Dissolved	0.000548	<DL	0.0010	mg/L		22-OCT-20	R5267319
Nickel (Ni)-Dissolved	0.00248	<T	0.0020	mg/L		22-OCT-20	R5267319
Phosphorus (P)-Dissolved	0.065		0.050	mg/L		22-OCT-20	R5267319
Potassium (K)-Dissolved	2.45		0.50	mg/L		22-OCT-20	R5267319
Rubidium (Rb)-Dissolved	0.00173		0.00020	mg/L		22-OCT-20	R5267319
Selenium (Se)-Dissolved	0.000195	<T	0.000050	mg/L		22-OCT-20	R5267319
Silicon (Si)-Dissolved	4.82		0.050	mg/L		22-OCT-20	R5267319
Silver (Ag)-Dissolved	0.0000040	<DL	0.00010	mg/L		22-OCT-20	R5267319
Sodium (Na)-Dissolved	4.54		0.10	mg/L		22-OCT-20	R5267319
Strontium (Sr)-Dissolved	0.0710		0.0010	mg/L		22-OCT-20	R5267319
Sulfur (S)-Dissolved	2.2		0.50	mg/L		22-OCT-20	R5267319
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		22-OCT-20	R5267319
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		22-OCT-20	R5267319
Thorium (Th)-Dissolved	0.00022		0.00010	mg/L		22-OCT-20	R5267319
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		22-OCT-20	R5267319
Titanium (Ti)-Dissolved	0.0165		0.0020	mg/L		22-OCT-20	R5267319
Tungsten (W)-Dissolved	0.000010	<DL	0.010	mg/L		22-OCT-20	R5267319
Uranium (U)-Dissolved	0.000507	<DL	0.0050	mg/L		22-OCT-20	R5267319
Vanadium (V)-Dissolved	0.00120	<T	0.0010	mg/L		22-OCT-20	R5267319
Zinc (Zn)-Dissolved	0.0002	<DL	0.0030	mg/L		22-OCT-20	R5267319
Zirconium (Zr)-Dissolved	0.00140		0.0010	mg/L		22-OCT-20	R5267319
Aggregate Organics							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-6 SW15_SW_20201006 Sampled By: Client on 14-OCT-20 @ 12:10 Matrix: SW							
Aggregate Organics							
Biochemical Oxygen Demand	2.4		2.0	mg/L		17-OCT-20	R5264839
Chemical Oxygen Demand	115		20	mg/L	20-OCT-20	22-OCT-20	R5264521
Oil and Grease, Total	3.4		1.0	mg/L	20-OCT-20	21-OCT-20	R5260278
L2517645-7 SW16_SW_20201006 Sampled By: Client on 14-OCT-20 @ 10:30 Matrix: SW							
Field Tests							
pH, Client Supplied	7.15		0.10	pH		21-OCT-20	R5261137
Temperature, Client Supplied	9.45		0	Degree C		21-OCT-20	R5261137
Physical Tests							
Color, True	35.6		2.0	CU		17-OCT-20	R5256356
Conductivity (EC)	83.0		1.0	uS/cm		17-OCT-20	R5256377
Hardness (as CaCO3)	36.2		0.51	mg/L		23-OCT-20	
pH	7.60		0.10	pH		17-OCT-20	R5256377
Total Suspended Solids	6.0		3.0	mg/L		19-OCT-20	R5258096
Total Dissolved Solids	68		13	mg/L		19-OCT-20	R5258237
Turbidity	6.81		0.10	NTU		17-OCT-20	R5256181
Anions and Nutrients							
Acidity (as CaCO3)	0.2	<DL	2.0	mg/L		18-OCT-20	R5256643
Alkalinity, Total (as CaCO3)	35.0		2.0	mg/L		17-OCT-20	R5256377
Ammonia, Total (as N)	0.008	<T	0.0050	mg/L		22-OCT-20	R5263998
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		23-OCT-20	
Chloride (Cl)	2.54		0.10	mg/L	17-OCT-20	18-OCT-20	R5256723
Fluoride (F)	0.038		0.020	mg/L	17-OCT-20	18-OCT-20	R5256723
Nitrate (as N)	0.018	<DL	0.020	mg/L		18-OCT-20	R5256723
Nitrite (as N)	0.002	<DL	0.010	mg/L		18-OCT-20	R5256723
Total Kjeldahl Nitrogen	0.571		0.050	mg/L	20-OCT-20	26-OCT-20	R5268626
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	17-OCT-20	20-OCT-20	R5260597
Sulfate (SO4)	3.00	<T	0.30	mg/L		18-OCT-20	R5256723
Cyanides							
Cyanide, Weak Acid Diss	0.0007	<DL	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Total	0.0002	<DL	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Free	0.0002	<DL	0.0020	mg/L		21-OCT-20	R5263218
Organic / Inorganic Carbon							
Dissolved Organic Carbon	10.0		0.50	mg/L		25-OCT-20	R5268862
Total Organic Carbon	10.2		0.50	mg/L		25-OCT-20	R5268867
Total Metals							
Aluminum (Al)-Total	0.273		0.0050	mg/L		21-OCT-20	R5263621
Antimony (Sb)-Total	0.000070	<DL	0.00060	mg/L		21-OCT-20	R5263621
Arsenic (As)-Total	0.00060	<DL	0.0010	mg/L		21-OCT-20	R5263621
Barium (Ba)-Total	0.0119		0.010	mg/L		21-OCT-20	R5263621
Beryllium (Be)-Total	0.0000122	<DL	0.0010	mg/L		21-OCT-20	R5263621

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-7 SW16_SW_20201006							
Sampled By: Client on 14-OCT-20 @ 10:30							
Matrix: SW							
Total Metals							
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		21-OCT-20	R5263621
Boron (B)-Total	0.0080	<DL	0.050	mg/L		21-OCT-20	R5263621
Cadmium (Cd)-Total	0.000025	<T	0.000017	mg/L		21-OCT-20	R5263621
Calcium (Ca)-Total	10.0		0.20	mg/L		21-OCT-20	R5263621
Cesium (Cs)-Total	0.0000390		0.000010	mg/L		21-OCT-20	R5263621
Chromium (Cr)-Total	0.00094	<DL	0.0010	mg/L		21-OCT-20	R5263621
Cobalt (Co)-Total	0.000245	<DL	0.00050	mg/L		21-OCT-20	R5263621
Copper (Cu)-Total	0.00222	<T	0.0010	mg/L		21-OCT-20	R5263621
Iron (Fe)-Total	0.379		0.020	mg/L		21-OCT-20	R5263621
Lead (Pb)-Total	0.00038	<T	0.000050	mg/L		21-OCT-20	R5263621
Lithium (Li)-Total	0.0016	<DL	0.050	mg/L		21-OCT-20	R5263621
Magnesium (Mg)-Total	3.66		0.020	mg/L		21-OCT-20	R5263621
Manganese (Mn)-Total	0.0204		0.0010	mg/L		21-OCT-20	R5263621
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261597
Molybdenum (Mo)-Total	0.000235	<DL	0.0010	mg/L		21-OCT-20	R5263621
Nickel (Ni)-Total	0.00112	<DL	0.0020	mg/L		21-OCT-20	R5263621
Phosphorus (P)-Total	0.010	<DL	0.050	mg/L		21-OCT-20	R5263621
Potassium (K)-Total	0.90		0.50	mg/L		21-OCT-20	R5263621
Rubidium (Rb)-Total	0.00216		0.00020	mg/L		21-OCT-20	R5263621
Selenium (Se)-Total	0.000120	<T	0.000050	mg/L		21-OCT-20	R5263621
Silicon (Si)-Total	2.38		0.10	mg/L		21-OCT-20	R5263621
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		21-OCT-20	R5263621
Sodium (Na)-Total	3.07		0.10	mg/L		21-OCT-20	R5263621
Strontium (Sr)-Total	0.0304		0.0010	mg/L		21-OCT-20	R5263621
Sulfur (S)-Total	0.8		0.50	mg/L		21-OCT-20	R5263621
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		21-OCT-20	R5263621
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		21-OCT-20	R5263621
Thorium (Th)-Total	0.00006	<DL	0.00010	mg/L		21-OCT-20	R5263621
Tin (Sn)-Total	0.00003	<DL	0.0010	mg/L		21-OCT-20	R5263621
Titanium (Ti)-Total	0.00999		0.0020	mg/L		21-OCT-20	R5263621
Tungsten (W)-Total	0.00002	<DL	0.010	mg/L		21-OCT-20	R5263621
Uranium (U)-Total	0.000133	<DL	0.0050	mg/L		21-OCT-20	R5263621
Vanadium (V)-Total	0.00100	<T	0.0010	mg/L		21-OCT-20	R5263621
Zinc (Zn)-Total	0.0075	<T	0.0030	mg/L		21-OCT-20	R5263621
Zirconium (Zr)-Total	0.000278	<DL	0.0010	mg/L		21-OCT-20	R5263621
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					21-OCT-20	R5265858
Aluminum (Al)-Dissolved	0.0188	<T	0.0050	mg/L		22-OCT-20	R5267319
Antimony (Sb)-Dissolved	0.000045	<DL	0.00060	mg/L		22-OCT-20	R5267319
Arsenic (As)-Dissolved	0.000498	<DL	0.0010	mg/L		22-OCT-20	R5267319
Barium (Ba)-Dissolved	0.00890	<DL	0.010	mg/L		22-OCT-20	R5267319

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-7 SW16_SW_20201006							
Sampled By: Client on 14-OCT-20 @ 10:30							
Matrix: SW							
Dissolved Metals							
Beryllium (Be)-Dissolved	0.000006	<DL	0.0010	mg/L		22-OCT-20	R5267319
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		22-OCT-20	R5267319
Boron (B)-Dissolved	0.0075	<DL	0.050	mg/L		22-OCT-20	R5267319
Cadmium (Cd)-Dissolved	0.0000190	<T	0.000017	mg/L		22-OCT-20	R5267319
Calcium (Ca)-Dissolved	9.26		0.20	mg/L		22-OCT-20	R5267319
Cesium (Cs)-Dissolved	0.0000020	<DL	0.000010	mg/L		22-OCT-20	R5267319
Chromium (Cr)-Dissolved	0.00016	<DL	0.0010	mg/L		22-OCT-20	R5267319
Cobalt (Co)-Dissolved	0.000036	<DL	0.00050	mg/L		22-OCT-20	R5267319
Copper (Cu)-Dissolved	0.00104	<T	0.0010	mg/L		22-OCT-20	R5267319
Iron (Fe)-Dissolved	0.0840		0.020	mg/L		22-OCT-20	R5267319
Lead (Pb)-Dissolved	0.00006	<T	0.000050	mg/L		22-OCT-20	R5267319
Lithium (Li)-Dissolved	0.0010	<DL	0.050	mg/L		22-OCT-20	R5267319
Magnesium (Mg)-Dissolved	3.18		0.020	mg/L		22-OCT-20	R5267319
Manganese (Mn)-Dissolved	0.00596		0.0010	mg/L		22-OCT-20	R5267319
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261582
Molybdenum (Mo)-Dissolved	0.000152	<DL	0.0010	mg/L		22-OCT-20	R5267319
Nickel (Ni)-Dissolved	0.00054	<DL	0.0020	mg/L		22-OCT-20	R5267319
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		22-OCT-20	R5267319
Potassium (K)-Dissolved	0.80		0.50	mg/L		22-OCT-20	R5267319
Rubidium (Rb)-Dissolved	0.00143		0.00020	mg/L		22-OCT-20	R5267319
Selenium (Se)-Dissolved	0.000085	<T	0.000050	mg/L		22-OCT-20	R5267319
Silicon (Si)-Dissolved	1.84		0.050	mg/L		22-OCT-20	R5267319
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		22-OCT-20	R5267319
Sodium (Na)-Dissolved	2.65		0.10	mg/L		22-OCT-20	R5267319
Strontium (Sr)-Dissolved	0.0264		0.0010	mg/L		22-OCT-20	R5267319
Sulfur (S)-Dissolved	0.6		0.50	mg/L		22-OCT-20	R5267319
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		22-OCT-20	R5267319
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		22-OCT-20	R5267319
Thorium (Th)-Dissolved	0.00003	<DL	0.00010	mg/L		22-OCT-20	R5267319
Tin (Sn)-Dissolved	0.000035	<DL	0.0010	mg/L		22-OCT-20	R5267319
Titanium (Ti)-Dissolved	0.00088	<DL	0.0020	mg/L		22-OCT-20	R5267319
Tungsten (W)-Dissolved	0.000012	<DL	0.010	mg/L		22-OCT-20	R5267319
Uranium (U)-Dissolved	0.000104	<DL	0.0050	mg/L		22-OCT-20	R5267319
Vanadium (V)-Dissolved	0.00034	<DL	0.0010	mg/L		22-OCT-20	R5267319
Zinc (Zn)-Dissolved	0.0038	<T	0.0030	mg/L		22-OCT-20	R5267319
Zirconium (Zr)-Dissolved	0.000150	<DL	0.0010	mg/L		22-OCT-20	R5267319
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		17-OCT-20	R5264839
Chemical Oxygen Demand	41		20	mg/L	20-OCT-20	22-OCT-20	R5264521
Oil and Grease, Total	<0.2	<W	1.0	mg/L	20-OCT-20	21-OCT-20	R5260278
L2517645-8 SW17_SW_20201006							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-8 SW17_SW_20201006							
Sampled By: Client on 14-OCT-20 @ 11:40							
Matrix: SW							
Field Tests							
pH, Client Supplied	7.66		0.10	pH		21-OCT-20	R5261137
Temperature, Client Supplied	9.34		0	Degree C		21-OCT-20	R5261137
Physical Tests							
Color, True	37.8		2.0	CU		17-OCT-20	R5256356
Conductivity (EC)	89.2		1.0	uS/cm		17-OCT-20	R5256377
Hardness (as CaCO3)	40.2		0.51	mg/L		23-OCT-20	
pH	7.64		0.10	pH		17-OCT-20	R5256377
Total Suspended Solids	13.5		3.0	mg/L		19-OCT-20	R5258096
Total Dissolved Solids	70		13	mg/L		19-OCT-20	R5258237
Turbidity	11.5		0.10	NTU		17-OCT-20	R5256181
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		18-OCT-20	R5256643
Alkalinity, Total (as CaCO3)	40.0		2.0	mg/L		17-OCT-20	R5256377
Ammonia, Total (as N)	0.006	<T	0.0050	mg/L		22-OCT-20	R5263998
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		23-OCT-20	
Chloride (Cl)	1.83		0.10	mg/L	17-OCT-20	18-OCT-20	R5256723
Fluoride (F)	0.039		0.020	mg/L	17-OCT-20	18-OCT-20	R5256723
Nitrate (as N)	0.020	<T	0.020	mg/L		18-OCT-20	R5256723
Nitrite (as N)	0.002	<DL	0.010	mg/L		18-OCT-20	R5256723
Total Kjeldahl Nitrogen	0.588		0.050	mg/L	20-OCT-20	26-OCT-20	R5268626
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	17-OCT-20	20-OCT-20	R5260597
Sulfate (SO4)	3.30	<T	0.30	mg/L		18-OCT-20	R5256723
Cyanides							
Cyanide, Weak Acid Diss	0.0007	<DL	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Total	0.0004	<DL	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Free	0.0002	<DL	0.0020	mg/L		21-OCT-20	R5263218
Organic / Inorganic Carbon							
Dissolved Organic Carbon	10.3		0.50	mg/L		25-OCT-20	R5268862
Total Organic Carbon	10.9		0.50	mg/L		25-OCT-20	R5268867
Total Metals							
Aluminum (Al)-Total	0.202		0.0050	mg/L		21-OCT-20	R5263621
Antimony (Sb)-Total	0.000055	<DL	0.00060	mg/L		21-OCT-20	R5263621
Arsenic (As)-Total	0.00057	<DL	0.0010	mg/L		21-OCT-20	R5263621
Barium (Ba)-Total	0.0124		0.010	mg/L		21-OCT-20	R5263621
Beryllium (Be)-Total	0.0000141	<DL	0.0010	mg/L		21-OCT-20	R5263621
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		21-OCT-20	R5263621
Boron (B)-Total	0.0070	<DL	0.050	mg/L		21-OCT-20	R5263621
Cadmium (Cd)-Total	0.000035	<T	0.000017	mg/L		21-OCT-20	R5263621
Calcium (Ca)-Total	11.1		0.20	mg/L		21-OCT-20	R5263621
Cesium (Cs)-Total	0.0000340		0.000010	mg/L		21-OCT-20	R5263621
Chromium (Cr)-Total	0.00066	<DL	0.0010	mg/L		21-OCT-20	R5263621
Cobalt (Co)-Total	0.000220	<DL	0.00050	mg/L		21-OCT-20	R5263621

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-8 SW17_SW_20201006							
Sampled By: Client on 14-OCT-20 @ 11:40							
Matrix: SW							
Total Metals							
Copper (Cu)-Total	0.00120	<T	0.0010	mg/L		21-OCT-20	R5263621
Iron (Fe)-Total	0.355		0.020	mg/L		21-OCT-20	R5263621
Lead (Pb)-Total	0.00033	<T	0.000050	mg/L		21-OCT-20	R5263621
Lithium (Li)-Total	0.0014	<DL	0.050	mg/L		21-OCT-20	R5263621
Magnesium (Mg)-Total	4.10		0.020	mg/L		21-OCT-20	R5263621
Manganese (Mn)-Total	0.0362		0.0010	mg/L		21-OCT-20	R5263621
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261597
Molybdenum (Mo)-Total	0.000160	<DL	0.0010	mg/L		21-OCT-20	R5263621
Nickel (Ni)-Total	0.00110	<DL	0.0020	mg/L		21-OCT-20	R5263621
Phosphorus (P)-Total	0.005	<DL	0.050	mg/L		21-OCT-20	R5263621
Potassium (K)-Total	0.88		0.50	mg/L		21-OCT-20	R5263621
Rubidium (Rb)-Total	0.00218		0.00020	mg/L		21-OCT-20	R5263621
Selenium (Se)-Total	0.000080	<T	0.000050	mg/L		21-OCT-20	R5263621
Silicon (Si)-Total	2.30		0.10	mg/L		21-OCT-20	R5263621
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		21-OCT-20	R5263621
Sodium (Na)-Total	2.78		0.10	mg/L		21-OCT-20	R5263621
Strontium (Sr)-Total	0.0309		0.0010	mg/L		21-OCT-20	R5263621
Sulfur (S)-Total	1.2		0.50	mg/L		21-OCT-20	R5263621
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		21-OCT-20	R5263621
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		21-OCT-20	R5263621
Thorium (Th)-Total	0.00005	<DL	0.00010	mg/L		21-OCT-20	R5263621
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		21-OCT-20	R5263621
Titanium (Ti)-Total	0.00633		0.0020	mg/L		21-OCT-20	R5263621
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		21-OCT-20	R5263621
Uranium (U)-Total	0.000126	<DL	0.0050	mg/L		21-OCT-20	R5263621
Vanadium (V)-Total	0.00085	<DL	0.0010	mg/L		21-OCT-20	R5263621
Zinc (Zn)-Total	0.0050	<T	0.0030	mg/L		21-OCT-20	R5263621
Zirconium (Zr)-Total	0.000356	<DL	0.0010	mg/L		21-OCT-20	R5263621
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					21-OCT-20	R5265858
Aluminum (Al)-Dissolved	0.0094	<T	0.0050	mg/L		22-OCT-20	R5267319
Antimony (Sb)-Dissolved	0.000040	<DL	0.00060	mg/L		22-OCT-20	R5267319
Arsenic (As)-Dissolved	0.000493	<DL	0.0010	mg/L		22-OCT-20	R5267319
Barium (Ba)-Dissolved	0.00966	<DL	0.010	mg/L		22-OCT-20	R5267319
Beryllium (Be)-Dissolved	0.000002	<DL	0.0010	mg/L		22-OCT-20	R5267319
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		22-OCT-20	R5267319
Boron (B)-Dissolved	0.0070	<DL	0.050	mg/L		22-OCT-20	R5267319
Cadmium (Cd)-Dissolved	0.0000190	<T	0.000017	mg/L		22-OCT-20	R5267319
Calcium (Ca)-Dissolved	10.2		0.20	mg/L		22-OCT-20	R5267319
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		22-OCT-20	R5267319
Chromium (Cr)-Dissolved	0.00011	<DL	0.0010	mg/L		22-OCT-20	R5267319

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-8 SW17_SW_20201006 Sampled By: Client on 14-OCT-20 @ 11:40 Matrix: SW							
Dissolved Metals							
Cobalt (Co)-Dissolved	0.000038	<DL	0.00050	mg/L		22-OCT-20	R5267319
Copper (Cu)-Dissolved	0.00078	<DL	0.0010	mg/L		22-OCT-20	R5267319
Iron (Fe)-Dissolved	0.0780		0.020	mg/L		22-OCT-20	R5267319
Lead (Pb)-Dissolved	0.00004	<DL	0.000050	mg/L		22-OCT-20	R5267319
Lithium (Li)-Dissolved	0.0010	<DL	0.050	mg/L		22-OCT-20	R5267319
Magnesium (Mg)-Dissolved	3.58		0.020	mg/L		22-OCT-20	R5267319
Manganese (Mn)-Dissolved	0.00696		0.0010	mg/L		22-OCT-20	R5267319
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261582
Molybdenum (Mo)-Dissolved	0.000156	<DL	0.0010	mg/L		22-OCT-20	R5267319
Nickel (Ni)-Dissolved	0.00056	<DL	0.0020	mg/L		22-OCT-20	R5267319
Phosphorus (P)-Dissolved	0.010	<DL	0.050	mg/L		22-OCT-20	R5267319
Potassium (K)-Dissolved	0.82		0.50	mg/L		22-OCT-20	R5267319
Rubidium (Rb)-Dissolved	0.00149		0.00020	mg/L		22-OCT-20	R5267319
Selenium (Se)-Dissolved	0.000085	<T	0.000050	mg/L		22-OCT-20	R5267319
Silicon (Si)-Dissolved	1.90		0.050	mg/L		22-OCT-20	R5267319
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		22-OCT-20	R5267319
Sodium (Na)-Dissolved	2.51		0.10	mg/L		22-OCT-20	R5267319
Strontium (Sr)-Dissolved	0.0269		0.0010	mg/L		22-OCT-20	R5267319
Sulfur (S)-Dissolved	1.0		0.50	mg/L		22-OCT-20	R5267319
Tellurium (Te)-Dissolved	0.00001	<DL	0.0010	mg/L		22-OCT-20	R5267319
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		22-OCT-20	R5267319
Thorium (Th)-Dissolved	0.00003	<DL	0.00010	mg/L		22-OCT-20	R5267319
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		22-OCT-20	R5267319
Titanium (Ti)-Dissolved	0.00038	<DL	0.0020	mg/L		22-OCT-20	R5267319
Tungsten (W)-Dissolved	0.000006	<DL	0.010	mg/L		22-OCT-20	R5267319
Uranium (U)-Dissolved	0.0000865	<DL	0.0050	mg/L		22-OCT-20	R5267319
Vanadium (V)-Dissolved	0.00038	<DL	0.0010	mg/L		22-OCT-20	R5267319
Zinc (Zn)-Dissolved	0.0004	<DL	0.0030	mg/L		22-OCT-20	R5267319
Zirconium (Zr)-Dissolved	0.000128	<DL	0.0010	mg/L		22-OCT-20	R5267319
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		17-OCT-20	R5264839
Chemical Oxygen Demand	40		20	mg/L	20-OCT-20	22-OCT-20	R5264521
Oil and Grease, Total	<0.2	<W	1.0	mg/L	20-OCT-20	21-OCT-20	R5260278
L2517645-9 SW20_SW_20201006 Sampled By: Client on 14-OCT-20 @ 11:20 Matrix: SW							
Field Tests							
pH, Client Supplied	6.81		0.10	pH		21-OCT-20	R5261137
Temperature, Client Supplied	6.67		0	Degree C		21-OCT-20	R5261137
Physical Tests							
Color, True	52.7		2.0	CU		17-OCT-20	R5256356
Conductivity (EC)	433		1.0	uS/cm		17-OCT-20	R5256377

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-9 SW20_SW_20201006 Sampled By: Client on 14-OCT-20 @ 11:20 Matrix: SW							
Physical Tests							
Hardness (as CaCO3)	186		0.51	mg/L		23-OCT-20	
pH	7.89		0.10	pH		17-OCT-20	R5256377
Total Suspended Solids	2.5	<DL	3.0	mg/L		19-OCT-20	R5258096
Total Dissolved Solids	284		20	mg/L		19-OCT-20	R5258237
Turbidity	2.20		0.10	NTU		17-OCT-20	R5256181
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		18-OCT-20	R5256643
Alkalinity, Total (as CaCO3)	179		2.0	mg/L		17-OCT-20	R5256377
Ammonia, Total (as N)	0.012	<T	0.0050	mg/L		22-OCT-20	R5263998
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		23-OCT-20	
Chloride (Cl)	32.2		0.10	mg/L	17-OCT-20	18-OCT-20	R5256723
Fluoride (F)	0.063		0.020	mg/L	17-OCT-20	18-OCT-20	R5256723
Nitrate (as N)	0.006	<DL	0.020	mg/L		18-OCT-20	R5256723
Nitrite (as N)	<0.001	<W	0.010	mg/L		18-OCT-20	R5256723
Total Kjeldahl Nitrogen	1.02		0.050	mg/L	20-OCT-20	26-OCT-20	R5268626
Orthophosphate-Dissolved (as P)	0.0091		0.0030	mg/L	17-OCT-20	20-OCT-20	R5260597
Sulfate (SO4)	7.40		0.30	mg/L		18-OCT-20	R5256723
Cyanides							
Cyanide, Weak Acid Diss	0.0010	<DL	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Total	0.0006	<DL	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Free	0.0005	<DL	0.0020	mg/L		21-OCT-20	R5263218
Organic / Inorganic Carbon							
Dissolved Organic Carbon	21.1		0.50	mg/L		25-OCT-20	R5268862
Total Organic Carbon	21.1		0.50	mg/L		25-OCT-20	R5268867
Total Metals							
Aluminum (Al)-Total	0.100		0.0050	mg/L		21-OCT-20	R5263621
Antimony (Sb)-Total	0.000045	<DL	0.00060	mg/L		21-OCT-20	R5263621
Arsenic (As)-Total	0.00086	<DL	0.0010	mg/L		21-OCT-20	R5263621
Barium (Ba)-Total	0.0195		0.010	mg/L		21-OCT-20	R5263621
Beryllium (Be)-Total	0.0000009	<DL	0.0010	mg/L		21-OCT-20	R5263621
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		21-OCT-20	R5263621
Boron (B)-Total	0.0190	<DL	0.050	mg/L		21-OCT-20	R5263621
Cadmium (Cd)-Total	0.000001	<DL	0.000017	mg/L		21-OCT-20	R5263621
Calcium (Ca)-Total	46.5		0.20	mg/L		21-OCT-20	R5263621
Cesium (Cs)-Total	0.0000090	<DL	0.000010	mg/L		21-OCT-20	R5263621
Chromium (Cr)-Total	0.00038	<DL	0.0010	mg/L		21-OCT-20	R5263621
Cobalt (Co)-Total	0.000190	<DL	0.00050	mg/L		21-OCT-20	R5263621
Copper (Cu)-Total	0.00034	<DL	0.0010	mg/L		21-OCT-20	R5263621
Iron (Fe)-Total	0.284		0.020	mg/L		21-OCT-20	R5263621
Lead (Pb)-Total	0.00005	<T	0.000050	mg/L		21-OCT-20	R5263621
Lithium (Li)-Total	0.0094	<DL	0.050	mg/L		21-OCT-20	R5263621
Magnesium (Mg)-Total	20.3		0.020	mg/L		21-OCT-20	R5263621

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-9 SW20_SW_20201006 Sampled By: Client on 14-OCT-20 @ 11:20 Matrix: SW							
Total Metals							
Manganese (Mn)-Total	0.0586		0.0010	mg/L		21-OCT-20	R5263621
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261597
Molybdenum (Mo)-Total	0.000290	<DL	0.0010	mg/L		21-OCT-20	R5263621
Nickel (Ni)-Total	0.00124	<DL	0.0020	mg/L		21-OCT-20	R5263621
Phosphorus (P)-Total	0.015	<DL	0.050	mg/L		21-OCT-20	R5263621
Potassium (K)-Total	2.53		0.50	mg/L		21-OCT-20	R5263621
Rubidium (Rb)-Total	0.00322		0.00020	mg/L		21-OCT-20	R5263621
Selenium (Se)-Total	0.000115	<T	0.000050	mg/L		21-OCT-20	R5263621
Silicon (Si)-Total	3.89		0.10	mg/L		21-OCT-20	R5263621
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		21-OCT-20	R5263621
Sodium (Na)-Total	16.5		0.10	mg/L		21-OCT-20	R5263621
Strontium (Sr)-Total	0.132		0.0010	mg/L		21-OCT-20	R5263621
Sulfur (S)-Total	2.6		0.50	mg/L		21-OCT-20	R5263621
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		21-OCT-20	R5263621
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		21-OCT-20	R5263621
Thorium (Th)-Total	0.00002	<DL	0.00010	mg/L		21-OCT-20	R5263621
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		21-OCT-20	R5263621
Titanium (Ti)-Total	0.00432	<DL	0.0045	mg/L		21-OCT-20	R5263621
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		21-OCT-20	R5263621
Uranium (U)-Total	0.000584	<DL	0.0050	mg/L		21-OCT-20	R5263621
Vanadium (V)-Total	0.00050	<DL	0.0010	mg/L		21-OCT-20	R5263621
Zinc (Zn)-Total	<0.0005	<W	0.0030	mg/L		21-OCT-20	R5263621
Zirconium (Zr)-Total	0.000218	<DL	0.0010	mg/L		21-OCT-20	R5263621
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					21-OCT-20	R5265858
Aluminum (Al)-Dissolved	0.0028	<DL	0.0050	mg/L		22-OCT-20	R5267319
Antimony (Sb)-Dissolved	0.000045	<DL	0.00060	mg/L		22-OCT-20	R5267319
Arsenic (As)-Dissolved	0.000754	<DL	0.0010	mg/L		22-OCT-20	R5267319
Barium (Ba)-Dissolved	0.0176		0.010	mg/L		22-OCT-20	R5267319
Beryllium (Be)-Dissolved	0.000002	<DL	0.0010	mg/L		22-OCT-20	R5267319
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		22-OCT-20	R5267319
Boron (B)-Dissolved	0.0180	<DL	0.050	mg/L		22-OCT-20	R5267319
Cadmium (Cd)-Dissolved	0.0000010	<DL	0.000017	mg/L		22-OCT-20	R5267319
Calcium (Ca)-Dissolved	43.2		0.20	mg/L		22-OCT-20	R5267319
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		22-OCT-20	R5267319
Chromium (Cr)-Dissolved	0.00009	<DL	0.0010	mg/L		22-OCT-20	R5267319
Cobalt (Co)-Dissolved	0.000132	<DL	0.00050	mg/L		22-OCT-20	R5267319
Copper (Cu)-Dissolved	0.00028	<DL	0.0010	mg/L		22-OCT-20	R5267319
Iron (Fe)-Dissolved	0.109		0.020	mg/L		22-OCT-20	R5267319
Lead (Pb)-Dissolved	0.00001	<DL	0.000050	mg/L		22-OCT-20	R5267319
Lithium (Li)-Dissolved	0.0088	<DL	0.050	mg/L		22-OCT-20	R5267319

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-9 SW20_SW_20201006 Sampled By: Client on 14-OCT-20 @ 11:20 Matrix: SW							
Dissolved Metals							
Magnesium (Mg)-Dissolved	18.9		0.020	mg/L		22-OCT-20	R5267319
Manganese (Mn)-Dissolved	0.0499		0.0010	mg/L		22-OCT-20	R5267319
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261582
Molybdenum (Mo)-Dissolved	0.000278	<DL	0.0010	mg/L		22-OCT-20	R5267319
Nickel (Ni)-Dissolved	0.00104	<DL	0.0020	mg/L		22-OCT-20	R5267319
Phosphorus (P)-Dissolved	0.015	<DL	0.050	mg/L		22-OCT-20	R5267319
Potassium (K)-Dissolved	2.53		0.50	mg/L		22-OCT-20	R5267319
Rubidium (Rb)-Dissolved	0.00303		0.00020	mg/L		22-OCT-20	R5267319
Selenium (Se)-Dissolved	0.000125	<T	0.000050	mg/L		22-OCT-20	R5267319
Silicon (Si)-Dissolved	3.62		0.050	mg/L		22-OCT-20	R5267319
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		22-OCT-20	R5267319
Sodium (Na)-Dissolved	15.2		0.10	mg/L		22-OCT-20	R5267319
Strontium (Sr)-Dissolved	0.122		0.0010	mg/L		22-OCT-20	R5267319
Sulfur (S)-Dissolved	2.6		0.50	mg/L		22-OCT-20	R5267319
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		22-OCT-20	R5267319
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		22-OCT-20	R5267319
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		22-OCT-20	R5267319
Tin (Sn)-Dissolved	0.000015	<DL	0.0010	mg/L		22-OCT-20	R5267319
Titanium (Ti)-Dissolved	0.00016	<DL	0.0020	mg/L		22-OCT-20	R5267319
Tungsten (W)-Dissolved	0.000004	<DL	0.010	mg/L		22-OCT-20	R5267319
Uranium (U)-Dissolved	0.000560	<DL	0.0050	mg/L		22-OCT-20	R5267319
Vanadium (V)-Dissolved	0.00022	<DL	0.0010	mg/L		22-OCT-20	R5267319
Zinc (Zn)-Dissolved	0.0020	<DL	0.0030	mg/L		22-OCT-20	R5267319
Zirconium (Zr)-Dissolved	0.000158	<DL	0.0010	mg/L		22-OCT-20	R5267319
Aggregate Organics							
Biochemical Oxygen Demand	2.1		2.0	mg/L		17-OCT-20	R5264839
Chemical Oxygen Demand	70		20	mg/L	20-OCT-20	22-OCT-20	R5264521
Oil and Grease, Total	<0.2	<W	1.0	mg/L	20-OCT-20	21-OCT-20	R5260278
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		16-NOV-20	R5286984
L2517645-10 SW23_SW_20201006 Sampled By: Client on 14-OCT-20 @ 14:10 Matrix: SW							
Field Tests							
pH, Client Supplied	7.28		0.10	pH		21-OCT-20	R5261137
Temperature, Client Supplied	7.69		0	Degree C		21-OCT-20	R5261137
Physical Tests							
Color, True	104		2.0	CU		17-OCT-20	R5256356
Conductivity (EC)	248		1.0	uS/cm		17-OCT-20	R5256377
Hardness (as CaCO3)	128		0.51	mg/L		23-OCT-20	
pH	7.85		0.10	pH		17-OCT-20	R5256377
Total Suspended Solids	5.0		3.0	mg/L		19-OCT-20	R5258096

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-10 SW23_SW_20201006							
Sampled By: Client on 14-OCT-20 @ 14:10							
Matrix: SW							
Physical Tests							
Total Dissolved Solids	202		20	mg/L		19-OCT-20	R5258237
Turbidity	7.41		0.10	NTU		17-OCT-20	R5256181
Anions and Nutrients							
Acidity (as CaCO3)	0.6	<DL	2.0	mg/L		18-OCT-20	R5256643
Alkalinity, Total (as CaCO3)	125		2.0	mg/L		17-OCT-20	R5256377
Ammonia, Total (as N)	0.020	<T	0.0050	mg/L		22-OCT-20	R5263998
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		23-OCT-20	
Chloride (Cl)	2.68		0.10	mg/L	17-OCT-20	19-OCT-20	R5257836
Fluoride (F)	0.051		0.020	mg/L	17-OCT-20	19-OCT-20	R5257836
Nitrate (as N)	0.046	<T	0.020	mg/L		19-OCT-20	R5257836
Nitrite (as N)	0.002	<DL	0.010	mg/L		19-OCT-20	R5257836
Total Kjeldahl Nitrogen	1.38		0.050	mg/L	20-OCT-20	26-OCT-20	R5268626
Orthophosphate-Dissolved (as P)	0.0278		0.0030	mg/L	17-OCT-20	20-OCT-20	R5260597
Sulfate (SO4)	3.65	<T	0.30	mg/L		19-OCT-20	R5257836
Cyanides							
Cyanide, Weak Acid Diss	0.0013	<DL	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Total	0.0006	<DL	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Free	0.0008	<DL	0.0020	mg/L		21-OCT-20	R5263218
Organic / Inorganic Carbon							
Dissolved Organic Carbon	31.0		0.50	mg/L		25-OCT-20	R5268862
Total Organic Carbon	30.6		0.50	mg/L		25-OCT-20	R5268867
Total Metals							
Aluminum (Al)-Total	0.332		0.0050	mg/L		21-OCT-20	R5263621
Antimony (Sb)-Total	0.000065	<DL	0.00060	mg/L		21-OCT-20	R5263621
Arsenic (As)-Total	0.00177	<T	0.0010	mg/L		21-OCT-20	R5263621
Barium (Ba)-Total	0.0168		0.010	mg/L		21-OCT-20	R5263621
Beryllium (Be)-Total	0.0000188	<DL	0.0010	mg/L		21-OCT-20	R5263621
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		21-OCT-20	R5263621
Boron (B)-Total	0.0130	<DL	0.050	mg/L		21-OCT-20	R5263621
Cadmium (Cd)-Total	0.000010	<DL	0.000017	mg/L		21-OCT-20	R5263621
Calcium (Ca)-Total	32.5		0.20	mg/L		21-OCT-20	R5263621
Cesium (Cs)-Total	0.0000400		0.000010	mg/L		21-OCT-20	R5263621
Chromium (Cr)-Total	0.00086	<DL	0.0010	mg/L		21-OCT-20	R5263621
Cobalt (Co)-Total	0.000280	<DL	0.00050	mg/L		21-OCT-20	R5263621
Copper (Cu)-Total	0.00114	<T	0.0010	mg/L		21-OCT-20	R5263621
Iron (Fe)-Total	0.682		0.020	mg/L		21-OCT-20	R5263621
Lead (Pb)-Total	0.00022	<T	0.000050	mg/L		21-OCT-20	R5263621
Lithium (Li)-Total	0.0048	<DL	0.050	mg/L		21-OCT-20	R5263621
Magnesium (Mg)-Total	13.7		0.020	mg/L		21-OCT-20	R5263621
Manganese (Mn)-Total	0.0506		0.0010	mg/L		21-OCT-20	R5263621
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261597
Molybdenum (Mo)-Total	0.000310	<DL	0.0010	mg/L		21-OCT-20	R5263621

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-10 SW23_SW_20201006 Sampled By: Client on 14-OCT-20 @ 14:10 Matrix: SW							
Total Metals							
Nickel (Ni)-Total	0.00198	<DL	0.0020	mg/L		21-OCT-20	R5263621
Phosphorus (P)-Total	0.055		0.050	mg/L		21-OCT-20	R5263621
Potassium (K)-Total	1.61		0.50	mg/L		21-OCT-20	R5263621
Rubidium (Rb)-Total	0.00259		0.00020	mg/L		21-OCT-20	R5263621
Selenium (Se)-Total	0.000160	<T	0.000050	mg/L		21-OCT-20	R5263621
Silicon (Si)-Total	5.57		0.10	mg/L		21-OCT-20	R5263621
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		21-OCT-20	R5263621
Sodium (Na)-Total	2.55		0.10	mg/L		21-OCT-20	R5263621
Strontium (Sr)-Total	0.0685		0.0010	mg/L		21-OCT-20	R5263621
Sulfur (S)-Total	1.6		0.50	mg/L		21-OCT-20	R5263621
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		21-OCT-20	R5263621
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		21-OCT-20	R5263621
Thorium (Th)-Total	0.00007	<DL	0.00010	mg/L		21-OCT-20	R5263621
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		21-OCT-20	R5263621
Titanium (Ti)-Total	0.0111		0.0020	mg/L		21-OCT-20	R5263621
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		21-OCT-20	R5263621
Uranium (U)-Total	0.000458	<DL	0.0050	mg/L		21-OCT-20	R5263621
Vanadium (V)-Total	0.00140	<T	0.0010	mg/L		21-OCT-20	R5263621
Zinc (Zn)-Total	0.0020	<DL	0.0030	mg/L		21-OCT-20	R5263621
Zirconium (Zr)-Total	0.000594	<DL	0.0010	mg/L		21-OCT-20	R5263621
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					21-OCT-20	R5265858
Aluminum (Al)-Dissolved	0.0442		0.0050	mg/L		22-OCT-20	R5267319
Antimony (Sb)-Dissolved	0.000060	<DL	0.00060	mg/L		22-OCT-20	R5267319
Arsenic (As)-Dissolved	0.00152	<T	0.0010	mg/L		22-OCT-20	R5267319
Barium (Ba)-Dissolved	0.0145		0.010	mg/L		22-OCT-20	R5267319
Beryllium (Be)-Dissolved	0.000012	<DL	0.0010	mg/L		22-OCT-20	R5267319
Bismuth (Bi)-Dissolved	0.000002	<DL	0.0010	mg/L		22-OCT-20	R5267319
Boron (B)-Dissolved	0.0125	<DL	0.050	mg/L		22-OCT-20	R5267319
Cadmium (Cd)-Dissolved	0.0000020	<DL	0.000017	mg/L		22-OCT-20	R5267319
Calcium (Ca)-Dissolved	30.4		0.20	mg/L		22-OCT-20	R5267319
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		22-OCT-20	R5267319
Chromium (Cr)-Dissolved	0.00022	<DL	0.0010	mg/L		22-OCT-20	R5267319
Cobalt (Co)-Dissolved	0.000138	<DL	0.00050	mg/L		22-OCT-20	R5267319
Copper (Cu)-Dissolved	0.00082	<DL	0.0010	mg/L		22-OCT-20	R5267319
Iron (Fe)-Dissolved	0.334		0.020	mg/L		22-OCT-20	R5267319
Lead (Pb)-Dissolved	0.00008	<T	0.000050	mg/L		22-OCT-20	R5267319
Lithium (Li)-Dissolved	0.0040	<DL	0.050	mg/L		22-OCT-20	R5267319
Magnesium (Mg)-Dissolved	12.6		0.020	mg/L		22-OCT-20	R5267319
Manganese (Mn)-Dissolved	0.0352		0.0010	mg/L		22-OCT-20	R5267319
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261582

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-10 SW23_SW_20201006 Sampled By: Client on 14-OCT-20 @ 14:10 Matrix: SW							
Dissolved Metals							
Molybdenum (Mo)-Dissolved	0.000262	<DL	0.0010	mg/L		22-OCT-20	R5267319
Nickel (Ni)-Dissolved	0.00158	<DL	0.0020	mg/L		22-OCT-20	R5267319
Phosphorus (P)-Dissolved	0.040	<DL	0.050	mg/L		22-OCT-20	R5267319
Potassium (K)-Dissolved	1.54		0.50	mg/L		22-OCT-20	R5267319
Rubidium (Rb)-Dissolved	0.00200		0.00020	mg/L		22-OCT-20	R5267319
Selenium (Se)-Dissolved	0.000155	<T	0.000050	mg/L		22-OCT-20	R5267319
Silicon (Si)-Dissolved	4.63		0.050	mg/L		22-OCT-20	R5267319
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		22-OCT-20	R5267319
Sodium (Na)-Dissolved	2.31		0.10	mg/L		22-OCT-20	R5267319
Strontium (Sr)-Dissolved	0.0614		0.0010	mg/L		22-OCT-20	R5267319
Sulfur (S)-Dissolved	1.2		0.50	mg/L		22-OCT-20	R5267319
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		22-OCT-20	R5267319
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		22-OCT-20	R5267319
Thorium (Th)-Dissolved	0.00005	<DL	0.00010	mg/L		22-OCT-20	R5267319
Tin (Sn)-Dissolved	0.000015	<DL	0.0010	mg/L		22-OCT-20	R5267319
Titanium (Ti)-Dissolved	0.00178	<DL	0.0020	mg/L		22-OCT-20	R5267319
Tungsten (W)-Dissolved	0.000002	<DL	0.010	mg/L		22-OCT-20	R5267319
Uranium (U)-Dissolved	0.000387	<DL	0.0050	mg/L		22-OCT-20	R5267319
Vanadium (V)-Dissolved	0.00074	<DL	0.0010	mg/L		22-OCT-20	R5267319
Zinc (Zn)-Dissolved	0.0006	<DL	0.0030	mg/L		22-OCT-20	R5267319
Zirconium (Zr)-Dissolved	0.000410	<DL	0.0010	mg/L		22-OCT-20	R5267319
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		17-OCT-20	R5264839
Chemical Oxygen Demand	102		20	mg/L	20-OCT-20	22-OCT-20	R5264521
Oil and Grease, Total	<0.2	<W	1.0	mg/L	20-OCT-20	21-OCT-20	R5260278
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		16-NOV-20	R5286984
L2517645-11 SW24_SW_20201006 Sampled By: Client on 14-OCT-20 @ 13:50 Matrix: SW							
Field Tests							
pH, Client Supplied	7.28		0.10	pH		21-OCT-20	R5261137
Temperature, Client Supplied	7.69		0	Degree C		21-OCT-20	R5261137
Physical Tests							
Color, True	134		2.0	CU		17-OCT-20	R5256356
Conductivity (EC)	801		1.0	uS/cm		17-OCT-20	R5256377
Hardness (as CaCO3)	261		0.51	mg/L		23-OCT-20	
pH	7.88		0.10	pH		17-OCT-20	R5256377
Total Suspended Solids	4.0		3.0	mg/L		19-OCT-20	R5258096
Total Dissolved Solids	590		20	mg/L		19-OCT-20	R5258237
Turbidity	4.35		0.10	NTU		17-OCT-20	R5256181
Anions and Nutrients							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-11 SW24_SW_20201006							
Sampled By: Client on 14-OCT-20 @ 13:50							
Matrix: SW							
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		18-OCT-20	R5256643
Alkalinity, Total (as CaCO3)	116		2.0	mg/L		17-OCT-20	R5256377
Ammonia, Total (as N)	0.136	<T	0.0050	mg/L		22-OCT-20	R5263998
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		23-OCT-20	
Chloride (Cl)	11.7		0.10	mg/L	17-OCT-20	19-OCT-20	R5257836
Fluoride (F)	0.090		0.020	mg/L	17-OCT-20	19-OCT-20	R5257836
Nitrate (as N)	2.31		0.020	mg/L		19-OCT-20	R5257836
Nitrite (as N)	0.034	<T	0.010	mg/L		19-OCT-20	R5257836
Total Kjeldahl Nitrogen	1.45		0.050	mg/L	20-OCT-20	26-OCT-20	R5268626
Orthophosphate-Dissolved (as P)	0.0153		0.0030	mg/L	17-OCT-20	20-OCT-20	R5260597
Sulfate (SO4)	275		0.30	mg/L		19-OCT-20	R5257836
Cyanides							
Cyanide, Weak Acid Diss	0.0043	<DL	0.020	mg/L		21-OCT-20	R5263218
Cyanide, Total	0.0034	<DL	0.020	mg/L		21-OCT-20	R5263218
Cyanide, Free	<0.0001	<W	0.020	mg/L		21-OCT-20	R5263218
Organic / Inorganic Carbon							
Dissolved Organic Carbon	25.0		0.50	mg/L		25-OCT-20	R5268862
Total Organic Carbon	25.7		0.50	mg/L		25-OCT-20	R5268867
Total Metals							
Aluminum (Al)-Total	0.227		0.0050	mg/L		21-OCT-20	R5263621
Antimony (Sb)-Total	0.00758		0.00060	mg/L		21-OCT-20	R5263621
Arsenic (As)-Total	0.00205	<T	0.0010	mg/L		21-OCT-20	R5263621
Barium (Ba)-Total	0.0331		0.010	mg/L		21-OCT-20	R5263621
Beryllium (Be)-Total	0.0000112	<DL	0.0010	mg/L		21-OCT-20	R5263621
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		21-OCT-20	R5263621
Boron (B)-Total	0.0570		0.050	mg/L		21-OCT-20	R5263621
Cadmium (Cd)-Total	0.000017	<T	0.000017	mg/L		21-OCT-20	R5263621
Calcium (Ca)-Total	81.8		0.20	mg/L		21-OCT-20	R5263621
Cesium (Cs)-Total	0.000118		0.000010	mg/L		21-OCT-20	R5263621
Chromium (Cr)-Total	0.00056	<DL	0.0010	mg/L		21-OCT-20	R5263621
Cobalt (Co)-Total	0.000865	<T	0.00050	mg/L		21-OCT-20	R5263621
Copper (Cu)-Total	0.00868	<T	0.0010	mg/L		21-OCT-20	R5263621
Iron (Fe)-Total	0.435		0.020	mg/L		21-OCT-20	R5263621
Lead (Pb)-Total	0.00024	<T	0.000050	mg/L		21-OCT-20	R5263621
Lithium (Li)-Total	0.0084	<DL	0.050	mg/L		21-OCT-20	R5263621
Magnesium (Mg)-Total	17.5		0.020	mg/L		21-OCT-20	R5263621
Manganese (Mn)-Total	0.0358		0.0010	mg/L		21-OCT-20	R5263621
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261597
Molybdenum (Mo)-Total	0.00500	<T	0.0010	mg/L		21-OCT-20	R5263621
Nickel (Ni)-Total	0.00176	<DL	0.0020	mg/L		21-OCT-20	R5263621
Phosphorus (P)-Total	0.030	<DL	0.050	mg/L		21-OCT-20	R5263621
Potassium (K)-Total	24.5		0.50	mg/L		21-OCT-20	R5263621

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-11 SW24_SW_20201006 Sampled By: Client on 14-OCT-20 @ 13:50 Matrix: SW							
Total Metals							
Rubidium (Rb)-Total	0.0144		0.00020	mg/L		21-OCT-20	R5263621
Selenium (Se)-Total	0.000345	<T	0.000050	mg/L		21-OCT-20	R5263621
Silicon (Si)-Total	3.66		0.10	mg/L		21-OCT-20	R5263621
Silver (Ag)-Total	0.000004	<DL	0.00010	mg/L		21-OCT-20	R5263621
Sodium (Na)-Total	51.7		0.10	mg/L		21-OCT-20	R5263621
Strontium (Sr)-Total	0.284		0.0010	mg/L		21-OCT-20	R5263621
Sulfur (S)-Total	90.2		0.50	mg/L		21-OCT-20	R5263621
Tellurium (Te)-Total	0.00004	<DL	0.0010	mg/L		21-OCT-20	R5263621
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		21-OCT-20	R5263621
Thorium (Th)-Total	0.00006	<DL	0.00010	mg/L		21-OCT-20	R5263621
Tin (Sn)-Total	0.00003	<DL	0.0010	mg/L		21-OCT-20	R5263621
Titanium (Ti)-Total	0.00751		0.0020	mg/L		21-OCT-20	R5263621
Tungsten (W)-Total	0.00008	<DL	0.010	mg/L		21-OCT-20	R5263621
Uranium (U)-Total	0.00123	<DL	0.0050	mg/L		21-OCT-20	R5263621
Vanadium (V)-Total	0.00110	<T	0.0010	mg/L		21-OCT-20	R5263621
Zinc (Zn)-Total	0.0015	<DL	0.0030	mg/L		21-OCT-20	R5263621
Zirconium (Zr)-Total	0.000380	<DL	0.0010	mg/L		21-OCT-20	R5263621
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					21-OCT-20	R5265858
Aluminum (Al)-Dissolved	0.0600		0.0050	mg/L		22-OCT-20	R5267319
Antimony (Sb)-Dissolved	0.00715		0.00060	mg/L		22-OCT-20	R5267319
Arsenic (As)-Dissolved	0.00188	<T	0.0010	mg/L		22-OCT-20	R5267319
Barium (Ba)-Dissolved	0.0300		0.010	mg/L		22-OCT-20	R5267319
Beryllium (Be)-Dissolved	0.000006	<DL	0.0010	mg/L		22-OCT-20	R5267319
Bismuth (Bi)-Dissolved	0.000002	<DL	0.0010	mg/L		22-OCT-20	R5267319
Boron (B)-Dissolved	0.0520		0.050	mg/L		22-OCT-20	R5267319
Cadmium (Cd)-Dissolved	0.0000115	<DL	0.000017	mg/L		22-OCT-20	R5267319
Calcium (Ca)-Dissolved	77.8		0.20	mg/L		22-OCT-20	R5267319
Cesium (Cs)-Dissolved	0.0000880		0.000010	mg/L		22-OCT-20	R5267319
Chromium (Cr)-Dissolved	0.00016	<DL	0.0010	mg/L		22-OCT-20	R5267319
Cobalt (Co)-Dissolved	0.000760	<T	0.00050	mg/L		22-OCT-20	R5267319
Copper (Cu)-Dissolved	0.00760	<T	0.0010	mg/L		22-OCT-20	R5267319
Iron (Fe)-Dissolved	0.283		0.020	mg/L		22-OCT-20	R5267319
Lead (Pb)-Dissolved	0.00013	<T	0.000050	mg/L		22-OCT-20	R5267319
Lithium (Li)-Dissolved	0.0074	<DL	0.050	mg/L		22-OCT-20	R5267319
Magnesium (Mg)-Dissolved	16.2		0.020	mg/L		22-OCT-20	R5267319
Manganese (Mn)-Dissolved	0.0255		0.0010	mg/L		22-OCT-20	R5267319
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261582
Molybdenum (Mo)-Dissolved	0.00472	<T	0.0010	mg/L		22-OCT-20	R5267319
Nickel (Ni)-Dissolved	0.00144	<DL	0.0020	mg/L		22-OCT-20	R5267319
Phosphorus (P)-Dissolved	0.025	<DL	0.050	mg/L		22-OCT-20	R5267319

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-11 SW24_SW_20201006 Sampled By: Client on 14-OCT-20 @ 13:50 Matrix: SW							
Dissolved Metals							
Potassium (K)-Dissolved	23.8		0.50	mg/L		22-OCT-20	R5267319
Rubidium (Rb)-Dissolved	0.0137		0.00020	mg/L		22-OCT-20	R5267319
Selenium (Se)-Dissolved	0.000315	<T	0.000050	mg/L		22-OCT-20	R5267319
Silicon (Si)-Dissolved	3.25		0.050	mg/L		22-OCT-20	R5267319
Silver (Ag)-Dissolved	0.0000020	<DL	0.00010	mg/L		22-OCT-20	R5267319
Sodium (Na)-Dissolved	47.0		0.10	mg/L		22-OCT-20	R5267319
Strontium (Sr)-Dissolved	0.265		0.0010	mg/L		22-OCT-20	R5267319
Sulfur (S)-Dissolved	94.6		0.50	mg/L		22-OCT-20	R5267319
Tellurium (Te)-Dissolved	0.00002	<DL	0.0010	mg/L		22-OCT-20	R5267319
Thallium (Tl)-Dissolved	0.000004	<DL	0.00030	mg/L		22-OCT-20	R5267319
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		22-OCT-20	R5267319
Tin (Sn)-Dissolved	0.000025	<DL	0.0010	mg/L		22-OCT-20	R5267319
Titanium (Ti)-Dissolved	0.00170	<DL	0.0020	mg/L		22-OCT-20	R5267319
Tungsten (W)-Dissolved	0.000074	<DL	0.010	mg/L		22-OCT-20	R5267319
Uranium (U)-Dissolved	0.00111	<DL	0.0050	mg/L		22-OCT-20	R5267319
Vanadium (V)-Dissolved	0.00060	<DL	0.0010	mg/L		22-OCT-20	R5267319
Zinc (Zn)-Dissolved	0.0082	<T	0.0030	mg/L		22-OCT-20	R5267319
Zirconium (Zr)-Dissolved	0.000348	<DL	0.0010	mg/L		22-OCT-20	R5267319
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		17-OCT-20	R5264839
Chemical Oxygen Demand	83		20	mg/L	20-OCT-20	22-OCT-20	R5264521
Oil and Grease, Total	0.4	<DL	1.0	mg/L	20-OCT-20	21-OCT-20	R5260278
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		16-NOV-20	R5286984
L2517645-12 SW25_SW_20201006 Sampled By: Client on 14-OCT-20 @ 14:15 Matrix: SW							
Field Tests							
pH, Client Supplied	7.06		0.10	pH		21-OCT-20	R5261137
Temperature, Client Supplied	5.61		0	Degree C		21-OCT-20	R5261137
Physical Tests							
Color, True	38.2		2.0	CU		17-OCT-20	R5256356
Conductivity (EC)	516		1.0	uS/cm		17-OCT-20	R5256377
Hardness (as CaCO3)	224		0.51	mg/L		23-OCT-20	
pH	8.03		0.10	pH		17-OCT-20	R5256377
Total Suspended Solids	4.5		3.0	mg/L		19-OCT-20	R5258096
Total Dissolved Solids	364		20	mg/L		19-OCT-20	R5258237
Turbidity	27.5		0.10	NTU		17-OCT-20	R5256181
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		18-OCT-20	R5256643
Alkalinity, Total (as CaCO3)	159		2.0	mg/L		17-OCT-20	R5256377
Ammonia, Total (as N)	0.010	<T	0.0050	mg/L		22-OCT-20	R5263998

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-12 SW25_SW_20201006							
Sampled By: Client on 14-OCT-20 @ 14:15							
Matrix: SW							
Anions and Nutrients							
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		23-OCT-20	
Chloride (Cl)	42.8		0.10	mg/L	17-OCT-20	19-OCT-20	R5257836
Fluoride (F)	0.113		0.020	mg/L	17-OCT-20	19-OCT-20	R5257836
Nitrate (as N)	0.064	<T	0.020	mg/L		19-OCT-20	R5257836
Nitrite (as N)	0.001	<DL	0.010	mg/L		19-OCT-20	R5257836
Total Kjeldahl Nitrogen	0.748		0.050	mg/L	20-OCT-20	26-OCT-20	R5268626
Orthophosphate-Dissolved (as P)	0.0133		0.0030	mg/L	17-OCT-20	20-OCT-20	R5260597
Sulfate (SO4)	49.6		0.30	mg/L		19-OCT-20	R5257836
Cyanides							
Cyanide, Weak Acid Diss	0.0007	<DL	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Total	0.0008	<DL	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Free	0.0007	<DL	0.0020	mg/L		21-OCT-20	R5263218
Organic / Inorganic Carbon							
Dissolved Organic Carbon	11.1		0.50	mg/L		25-OCT-20	R5268862
Total Organic Carbon	11.8		0.50	mg/L		25-OCT-20	R5268867
Total Metals							
Aluminum (Al)-Total	0.925		0.0050	mg/L		21-OCT-20	R5263621
Antimony (Sb)-Total	0.000155	<DL	0.00060	mg/L		21-OCT-20	R5263621
Arsenic (As)-Total	0.00106	<T	0.0010	mg/L		21-OCT-20	R5263621
Barium (Ba)-Total	0.0407		0.010	mg/L		21-OCT-20	R5263621
Beryllium (Be)-Total	0.0000300	<DL	0.0010	mg/L		21-OCT-20	R5263621
Bismuth (Bi)-Total	0.00002	<DL	0.0010	mg/L		21-OCT-20	R5263621
Boron (B)-Total	0.0220	<DL	0.050	mg/L		21-OCT-20	R5263621
Cadmium (Cd)-Total	0.000016	<DL	0.000017	mg/L		21-OCT-20	R5263621
Calcium (Ca)-Total	61.0		0.20	mg/L		21-OCT-20	R5263621
Cesium (Cs)-Total	0.000111		0.000010	mg/L		21-OCT-20	R5263621
Chromium (Cr)-Total	0.00178		0.0010	mg/L		21-OCT-20	R5263621
Cobalt (Co)-Total	0.000645	<T	0.00050	mg/L		21-OCT-20	R5263621
Copper (Cu)-Total	0.00748	<T	0.0010	mg/L		21-OCT-20	R5263621
Iron (Fe)-Total	1.03		0.020	mg/L		21-OCT-20	R5263621
Lead (Pb)-Total	0.00049	<T	0.000050	mg/L		21-OCT-20	R5263621
Lithium (Li)-Total	0.0104	<DL	0.050	mg/L		21-OCT-20	R5263621
Magnesium (Mg)-Total	21.6		0.020	mg/L		21-OCT-20	R5263621
Manganese (Mn)-Total	0.0896		0.0010	mg/L		21-OCT-20	R5263621
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261597
Molybdenum (Mo)-Total	0.00237	<T	0.0010	mg/L		21-OCT-20	R5263621
Nickel (Ni)-Total	0.00274	<T	0.0020	mg/L		21-OCT-20	R5263621
Phosphorus (P)-Total	0.035	<DL	0.050	mg/L		21-OCT-20	R5263621
Potassium (K)-Total	5.45		0.50	mg/L		21-OCT-20	R5263621
Rubidium (Rb)-Total	0.00341		0.00020	mg/L		21-OCT-20	R5263621
Selenium (Se)-Total	0.000235	<T	0.000050	mg/L		21-OCT-20	R5263621
Silicon (Si)-Total	6.03		0.10	mg/L		21-OCT-20	R5263621

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-12 SW25_SW_20201006							
Sampled By: Client on 14-OCT-20 @ 14:15							
Matrix: SW							
Total Metals							
Silver (Ag)-Total	0.000014	<DL	0.00010	mg/L		21-OCT-20	R5263621
Sodium (Na)-Total	9.30		0.10	mg/L		21-OCT-20	R5263621
Strontium (Sr)-Total	0.218		0.0010	mg/L		21-OCT-20	R5263621
Sulfur (S)-Total	16.8		0.50	mg/L		21-OCT-20	R5263621
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		21-OCT-20	R5263621
Thallium (Tl)-Total	0.000010	<DL	0.00030	mg/L		21-OCT-20	R5263621
Thorium (Th)-Total	0.00023		0.00010	mg/L		21-OCT-20	R5263621
Tin (Sn)-Total	0.00004	<DL	0.0010	mg/L		21-OCT-20	R5263621
Titanium (Ti)-Total	0.0295		0.0020	mg/L		21-OCT-20	R5263621
Tungsten (W)-Total	0.00002	<DL	0.010	mg/L		21-OCT-20	R5263621
Uranium (U)-Total	0.00435	<DL	0.0050	mg/L		21-OCT-20	R5263621
Vanadium (V)-Total	0.00295	<T	0.0010	mg/L		21-OCT-20	R5263621
Zinc (Zn)-Total	0.0100		0.0030	mg/L		21-OCT-20	R5263621
Zirconium (Zr)-Total	0.000712	<DL	0.0010	mg/L		21-OCT-20	R5263621
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					21-OCT-20	R5265858
Aluminum (Al)-Dissolved	0.0166	<T	0.0050	mg/L		22-OCT-20	R5267319
Antimony (Sb)-Dissolved	0.000140	<DL	0.00060	mg/L		22-OCT-20	R5267319
Arsenic (As)-Dissolved	0.000721	<DL	0.0010	mg/L		22-OCT-20	R5267319
Barium (Ba)-Dissolved	0.0324		0.010	mg/L		22-OCT-20	R5267319
Beryllium (Be)-Dissolved	0.000002	<DL	0.0010	mg/L		22-OCT-20	R5267319
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		22-OCT-20	R5267319
Boron (B)-Dissolved	0.0200	<DL	0.050	mg/L		22-OCT-20	R5267319
Cadmium (Cd)-Dissolved	0.0000055	<DL	0.000017	mg/L		22-OCT-20	R5267319
Calcium (Ca)-Dissolved	57.0		0.20	mg/L		22-OCT-20	R5267319
Cesium (Cs)-Dissolved	0.0000030	<DL	0.000010	mg/L		22-OCT-20	R5267319
Chromium (Cr)-Dissolved	0.00015	<DL	0.0010	mg/L		22-OCT-20	R5267319
Cobalt (Co)-Dissolved	0.000164	<DL	0.00050	mg/L		22-OCT-20	R5267319
Copper (Cu)-Dissolved	0.00302	<T	0.0010	mg/L		22-OCT-20	R5267319
Iron (Fe)-Dissolved	0.0540		0.020	mg/L		22-OCT-20	R5267319
Lead (Pb)-Dissolved	0.00003	<DL	0.000050	mg/L		22-OCT-20	R5267319
Lithium (Li)-Dissolved	0.0082	<DL	0.050	mg/L		22-OCT-20	R5267319
Magnesium (Mg)-Dissolved	19.8		0.020	mg/L		22-OCT-20	R5267319
Manganese (Mn)-Dissolved	0.0692		0.0010	mg/L		22-OCT-20	R5267319
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261582
Molybdenum (Mo)-Dissolved	0.00215	<T	0.0010	mg/L		22-OCT-20	R5267319
Nickel (Ni)-Dissolved	0.00132	<DL	0.0020	mg/L		22-OCT-20	R5267319
Phosphorus (P)-Dissolved	0.015	<DL	0.050	mg/L		22-OCT-20	R5267319
Potassium (K)-Dissolved	5.05		0.50	mg/L		22-OCT-20	R5267319
Rubidium (Rb)-Dissolved	0.00173		0.00020	mg/L		22-OCT-20	R5267319
Selenium (Se)-Dissolved	0.000275	<T	0.000050	mg/L		22-OCT-20	R5267319

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-12 SW25_SW_20201006 Sampled By: Client on 14-OCT-20 @ 14:15 Matrix: SW							
Dissolved Metals							
Silicon (Si)-Dissolved	4.16		0.050	mg/L		22-OCT-20	R5267319
Silver (Ag)-Dissolved	0.0000020	<DL	0.00010	mg/L		22-OCT-20	R5267319
Sodium (Na)-Dissolved	8.45		0.10	mg/L		22-OCT-20	R5267319
Strontium (Sr)-Dissolved	0.195		0.0010	mg/L		22-OCT-20	R5267319
Sulfur (S)-Dissolved	16.4		0.50	mg/L		22-OCT-20	R5267319
Tellurium (Te)-Dissolved	0.00001	<DL	0.0010	mg/L		22-OCT-20	R5267319
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		22-OCT-20	R5267319
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		22-OCT-20	R5267319
Tin (Sn)-Dissolved	0.000015	<DL	0.0010	mg/L		22-OCT-20	R5267319
Titanium (Ti)-Dissolved	0.00416		0.0020	mg/L		22-OCT-20	R5267319
Tungsten (W)-Dissolved	0.000018	<DL	0.010	mg/L		22-OCT-20	R5267319
Uranium (U)-Dissolved	0.00378	<DL	0.0050	mg/L		22-OCT-20	R5267319
Vanadium (V)-Dissolved	0.00072	<DL	0.0010	mg/L		22-OCT-20	R5267319
Zinc (Zn)-Dissolved	0.0068	<T	0.0030	mg/L		22-OCT-20	R5267319
Zirconium (Zr)-Dissolved	0.000418	<DL	0.0010	mg/L		22-OCT-20	R5267319
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		17-OCT-20	R5264839
Chemical Oxygen Demand	44		20	mg/L	20-OCT-20	22-OCT-20	R5264521
Oil and Grease, Total	0.4	<DL	1.0	mg/L	20-OCT-20	21-OCT-20	R5260278
L2517645-13 SW28A_SW_20201006 Sampled By: Client on 14-OCT-20 @ 13:20 Matrix: SW							
Field Tests							
pH, Client Supplied	7.41		0.10	pH		21-OCT-20	R5261137
Temperature, Client Supplied	6.01		0	Degree C		21-OCT-20	R5261137
Physical Tests							
Color, True	36.0		2.0	CU		17-OCT-20	R5256356
Conductivity (EC)	455		1.0	uS/cm		17-OCT-20	R5256377
Hardness (as CaCO3)	229		0.51	mg/L		23-OCT-20	
pH	8.19		0.10	pH		17-OCT-20	R5256377
Total Suspended Solids	20.5		3.0	mg/L		19-OCT-20	R5258096
Total Dissolved Solids	282		20	mg/L		19-OCT-20	R5258237
Turbidity	15.2		0.10	NTU		17-OCT-20	R5256181
Anions and Nutrients							
Acidity (as CaCO3)	0.4	<DL	2.0	mg/L		18-OCT-20	R5256643
Alkalinity, Total (as CaCO3)	233		2.0	mg/L		17-OCT-20	R5256377
Ammonia, Total (as N)	0.008	<T	0.0050	mg/L		22-OCT-20	R5263998
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		23-OCT-20	
Chloride (Cl)	13.6		0.10	mg/L	17-OCT-20	18-OCT-20	R5256723
Fluoride (F)	0.104		0.020	mg/L	17-OCT-20	18-OCT-20	R5256723
Nitrate (as N)	0.010	<DL	0.020	mg/L		18-OCT-20	R5256723
Nitrite (as N)	0.001	<DL	0.010	mg/L		18-OCT-20	R5256723

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-13 SW28A_SW_20201006 Sampled By: Client on 14-OCT-20 @ 13:20 Matrix: SW							
Anions and Nutrients							
Total Kjeldahl Nitrogen	0.788		0.050	mg/L	20-OCT-20	26-OCT-20	R5268626
Orthophosphate-Dissolved (as P)	0.0118		0.0030	mg/L	17-OCT-20	20-OCT-20	R5260597
Sulfate (SO4)	7.10		0.30	mg/L		18-OCT-20	R5256723
Cyanides							
Cyanide, Weak Acid Diss	0.0010	<DL	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Total	0.0004	<DL	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Free	0.0002	<DL	0.0020	mg/L		21-OCT-20	R5263218
Organic / Inorganic Carbon							
Dissolved Organic Carbon	11.7		0.50	mg/L		25-OCT-20	R5268862
Total Organic Carbon	12.6		0.50	mg/L		25-OCT-20	R5268867
Total Metals							
Aluminum (Al)-Total	0.558		0.0050	mg/L		21-OCT-20	R5263621
Antimony (Sb)-Total	0.000055	<DL	0.00060	mg/L		21-OCT-20	R5263621
Arsenic (As)-Total	0.00113	<T	0.0010	mg/L		21-OCT-20	R5263621
Barium (Ba)-Total	0.0347		0.010	mg/L		21-OCT-20	R5263621
Beryllium (Be)-Total	0.0000225	<DL	0.0010	mg/L		21-OCT-20	R5263621
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		21-OCT-20	R5263621
Boron (B)-Total	0.0185	<DL	0.050	mg/L		21-OCT-20	R5263621
Cadmium (Cd)-Total	0.000011	<DL	0.000017	mg/L		21-OCT-20	R5263621
Calcium (Ca)-Total	54.1		0.20	mg/L		21-OCT-20	R5263621
Cesium (Cs)-Total	0.0000770		0.000010	mg/L		21-OCT-20	R5263621
Chromium (Cr)-Total	0.00110		0.0010	mg/L		21-OCT-20	R5263621
Cobalt (Co)-Total	0.000415	<DL	0.00050	mg/L		21-OCT-20	R5263621
Copper (Cu)-Total	0.00172	<T	0.0010	mg/L		21-OCT-20	R5263621
Iron (Fe)-Total	0.703		0.020	mg/L		21-OCT-20	R5263621
Lead (Pb)-Total	0.00035	<T	0.000050	mg/L		21-OCT-20	R5263621
Lithium (Li)-Total	0.0114	<DL	0.050	mg/L		21-OCT-20	R5263621
Magnesium (Mg)-Total	25.8		0.020	mg/L		21-OCT-20	R5263621
Manganese (Mn)-Total	0.0466		0.0010	mg/L		21-OCT-20	R5263621
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261597
Molybdenum (Mo)-Total	0.00124	<T	0.0010	mg/L		21-OCT-20	R5263621
Nickel (Ni)-Total	0.00170	<DL	0.0020	mg/L		21-OCT-20	R5263621
Phosphorus (P)-Total	0.025	<DL	0.050	mg/L		21-OCT-20	R5263621
Potassium (K)-Total	3.33		0.50	mg/L		21-OCT-20	R5263621
Rubidium (Rb)-Total	0.00419		0.00020	mg/L		21-OCT-20	R5263621
Selenium (Se)-Total	0.000140	<T	0.000050	mg/L		21-OCT-20	R5263621
Silicon (Si)-Total	5.95		0.10	mg/L		21-OCT-20	R5263621
Silver (Ag)-Total	0.000004	<DL	0.00010	mg/L		21-OCT-20	R5263621
Sodium (Na)-Total	4.76		0.10	mg/L		21-OCT-20	R5263621
Strontium (Sr)-Total	0.171		0.0010	mg/L		21-OCT-20	R5263621
Sulfur (S)-Total	2.4		0.50	mg/L		21-OCT-20	R5263621
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		21-OCT-20	R5263621

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-13 SW28A_SW_20201006							
Sampled By: Client on 14-OCT-20 @ 13:20							
Matrix: SW							
Total Metals							
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		21-OCT-20	R5263621
Thorium (Th)-Total	0.00008	<DL	0.00010	mg/L		21-OCT-20	R5263621
Tin (Sn)-Total	0.00003	<DL	0.0010	mg/L		21-OCT-20	R5263621
Titanium (Ti)-Total	0.0155		0.0020	mg/L		21-OCT-20	R5263621
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		21-OCT-20	R5263621
Uranium (U)-Total	0.00291	<DL	0.0050	mg/L		21-OCT-20	R5263621
Vanadium (V)-Total	0.00205	<T	0.0010	mg/L		21-OCT-20	R5263621
Zinc (Zn)-Total	0.0025	<DL	0.0030	mg/L		21-OCT-20	R5263621
Zirconium (Zr)-Total	0.000468	<DL	0.0010	mg/L		21-OCT-20	R5263621
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					21-OCT-20	R5265858
Aluminum (Al)-Dissolved	0.0048	<DL	0.0050	mg/L		22-OCT-20	R5267319
Antimony (Sb)-Dissolved	0.000055	<DL	0.00060	mg/L		22-OCT-20	R5267319
Arsenic (As)-Dissolved	0.000887	<DL	0.0010	mg/L		22-OCT-20	R5267319
Barium (Ba)-Dissolved	0.0299		0.010	mg/L		22-OCT-20	R5267319
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		22-OCT-20	R5267319
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		22-OCT-20	R5267319
Boron (B)-Dissolved	0.0165	<DL	0.050	mg/L		22-OCT-20	R5267319
Cadmium (Cd)-Dissolved	0.0000020	<DL	0.000017	mg/L		22-OCT-20	R5267319
Calcium (Ca)-Dissolved	51.9		0.20	mg/L		22-OCT-20	R5267319
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		22-OCT-20	R5267319
Chromium (Cr)-Dissolved	0.00006	<DL	0.0010	mg/L		22-OCT-20	R5267319
Cobalt (Co)-Dissolved	0.000122	<DL	0.00050	mg/L		22-OCT-20	R5267319
Copper (Cu)-Dissolved	0.00120	<T	0.0010	mg/L		22-OCT-20	R5267319
Iron (Fe)-Dissolved	0.0690		0.020	mg/L		22-OCT-20	R5267319
Lead (Pb)-Dissolved	0.00001	<DL	0.000050	mg/L		22-OCT-20	R5267319
Lithium (Li)-Dissolved	0.0100	<DL	0.050	mg/L		22-OCT-20	R5267319
Magnesium (Mg)-Dissolved	24.1		0.020	mg/L		22-OCT-20	R5267319
Manganese (Mn)-Dissolved	0.0244		0.0010	mg/L		22-OCT-20	R5267319
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261582
Molybdenum (Mo)-Dissolved	0.00114	<T	0.0010	mg/L		22-OCT-20	R5267319
Nickel (Ni)-Dissolved	0.00102	<DL	0.0020	mg/L		22-OCT-20	R5267319
Phosphorus (P)-Dissolved	0.015	<DL	0.050	mg/L		22-OCT-20	R5267319
Potassium (K)-Dissolved	3.06		0.50	mg/L		22-OCT-20	R5267319
Rubidium (Rb)-Dissolved	0.00247		0.00020	mg/L		22-OCT-20	R5267319
Selenium (Se)-Dissolved	0.000145	<T	0.000050	mg/L		22-OCT-20	R5267319
Silicon (Si)-Dissolved	4.49		0.050	mg/L		22-OCT-20	R5267319
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		22-OCT-20	R5267319
Sodium (Na)-Dissolved	4.39		0.10	mg/L		22-OCT-20	R5267319
Strontium (Sr)-Dissolved	0.155		0.0010	mg/L		22-OCT-20	R5267319
Sulfur (S)-Dissolved	2.4		0.50	mg/L		22-OCT-20	R5267319

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-13 SW28A_SW_20201006 Sampled By: Client on 14-OCT-20 @ 13:20 Matrix: SW							
Dissolved Metals							
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		22-OCT-20	R5267319
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		22-OCT-20	R5267319
Thorium (Th)-Dissolved	0.00001	<DL	0.00010	mg/L		22-OCT-20	R5267319
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		22-OCT-20	R5267319
Titanium (Ti)-Dissolved	0.00076	<DL	0.0020	mg/L		22-OCT-20	R5267319
Tungsten (W)-Dissolved	0.000004	<DL	0.010	mg/L		22-OCT-20	R5267319
Uranium (U)-Dissolved	0.00256	<DL	0.0050	mg/L		22-OCT-20	R5267319
Vanadium (V)-Dissolved	0.00044	<DL	0.0010	mg/L		22-OCT-20	R5267319
Zinc (Zn)-Dissolved	0.0014	<DL	0.0030	mg/L		22-OCT-20	R5267319
Zirconium (Zr)-Dissolved	0.000212	<DL	0.0010	mg/L		22-OCT-20	R5267319
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		17-OCT-20	R5264839
Chemical Oxygen Demand	52		20	mg/L	20-OCT-20	22-OCT-20	R5264521
Oil and Grease, Total	0.4	<DL	1.0	mg/L	20-OCT-20	21-OCT-20	R5260278
L2517645-14 TB_SW_20201006 Sampled By: Client on 15-OCT-20 @ 09:15 Matrix: SW							
Physical Tests							
Color, True	<2.0		2.0	CU		17-OCT-20	R5256356
Conductivity (EC)	<0.2	<W	1.0	uS/cm		17-OCT-20	R5256377
Hardness (as CaCO3)	<0.51		0.51	mg/L		23-OCT-20	
pH	5.58		0.10	pH		17-OCT-20	R5256377
Total Suspended Solids	<0.5	<W	3.0	mg/L		19-OCT-20	R5258096
Total Dissolved Solids	4	<DL	10	mg/L		19-OCT-20	R5258237
Turbidity	<0.10		0.10	NTU		17-OCT-20	R5256181
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		18-OCT-20	R5256643
Alkalinity, Total (as CaCO3)	<0.2	<W	2.0	mg/L		17-OCT-20	R5256377
Ammonia, Total (as N)	<0.002	<W	0.0050	mg/L		22-OCT-20	R5263998
Chloride (Cl)	<0.10		0.10	mg/L	17-OCT-20	19-OCT-20	R5257836
Fluoride (F)	0.097	RRR	0.020	mg/L	20-OCT-20	22-OCT-20	R5266229
Nitrate (as N)	<0.002	<W	0.020	mg/L		19-OCT-20	R5257836
Nitrite (as N)	<0.001	<W	0.010	mg/L		19-OCT-20	R5257836
Total Kjeldahl Nitrogen	<0.050		0.050	mg/L	20-OCT-20	26-OCT-20	R5268626
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	17-OCT-20	20-OCT-20	R5260597
Sulfate (SO4)	<0.05	<W	0.30	mg/L		19-OCT-20	R5257836
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Total	<0.0002	<W	0.0020	mg/L		21-OCT-20	R5263218
Cyanide, Free	0.0001	<DL	0.0020	mg/L		21-OCT-20	R5263218
Organic / Inorganic Carbon							
Dissolved Organic Carbon	0.15	<DL	0.50	mg/L		25-OCT-20	R5268862

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-14 TB_SW_20201006 Sampled By: Client on 15-OCT-20 @ 09:15 Matrix: SW							
Organic / Inorganic Carbon							
Total Organic Carbon	0.1	<DL	0.50	mg/L		25-OCT-20	R5268867
Total Metals							
Aluminum (Al)-Total	0.0002	<DL	0.0050	mg/L		21-OCT-20	R5263621
Antimony (Sb)-Total	<0.000005	<W	0.00060	mg/L		21-OCT-20	R5263621
Arsenic (As)-Total	0.00001	<DL	0.0010	mg/L		21-OCT-20	R5263621
Barium (Ba)-Total	0.00005	<DL	0.010	mg/L		21-OCT-20	R5263621
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		21-OCT-20	R5263621
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		21-OCT-20	R5263621
Boron (B)-Total	0.0075	<DL	0.050	mg/L		21-OCT-20	R5263621
Cadmium (Cd)-Total	<0.000001	<W	0.000017	mg/L		21-OCT-20	R5263621
Calcium (Ca)-Total	0.040	<DL	0.20	mg/L		21-OCT-20	R5263621
Cesium (Cs)-Total	0.0000010	<DL	0.000010	mg/L		21-OCT-20	R5263621
Chromium (Cr)-Total	0.00006	<DL	0.0010	mg/L		21-OCT-20	R5263621
Cobalt (Co)-Total	0.000005	<DL	0.00050	mg/L		21-OCT-20	R5263621
Copper (Cu)-Total	<0.00002	<W	0.0010	mg/L		21-OCT-20	R5263621
Iron (Fe)-Total	0.0010	<DL	0.020	mg/L		21-OCT-20	R5263621
Lead (Pb)-Total	<0.00001	<W	0.000050	mg/L		21-OCT-20	R5263621
Lithium (Li)-Total	<0.0002	<W	0.050	mg/L		21-OCT-20	R5263621
Magnesium (Mg)-Total	0.0002	<DL	0.020	mg/L		21-OCT-20	R5263621
Manganese (Mn)-Total	<0.0002	<W	0.0010	mg/L		21-OCT-20	R5263621
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261597
Molybdenum (Mo)-Total	<0.000005	<W	0.0010	mg/L		21-OCT-20	R5263621
Nickel (Ni)-Total	0.00004	<DL	0.0020	mg/L		21-OCT-20	R5263621
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		21-OCT-20	R5263621
Potassium (K)-Total	<0.01	<W	0.50	mg/L		21-OCT-20	R5263621
Rubidium (Rb)-Total	<0.000002	<W	0.00020	mg/L		21-OCT-20	R5263621
Selenium (Se)-Total	<0.000005	<W	0.000050	mg/L		21-OCT-20	R5263621
Silicon (Si)-Total	0.024	<DL	0.10	mg/L		21-OCT-20	R5263621
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		21-OCT-20	R5263621
Sodium (Na)-Total	0.070	<DL	0.10	mg/L		21-OCT-20	R5263621
Strontium (Sr)-Total	0.000070	<DL	0.0010	mg/L		21-OCT-20	R5263621
Sulfur (S)-Total	<0.2	<W	0.50	mg/L		21-OCT-20	R5263621
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		21-OCT-20	R5263621
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		21-OCT-20	R5263621
Thorium (Th)-Total	<0.00001	<W	0.00010	mg/L		21-OCT-20	R5263621
Tin (Sn)-Total	0.00003	<DL	0.0010	mg/L		21-OCT-20	R5263621
Titanium (Ti)-Total	0.00003	<DL	0.0020	mg/L		21-OCT-20	R5263621
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		21-OCT-20	R5263621
Uranium (U)-Total	<0.0000005	<W	0.0050	mg/L		21-OCT-20	R5263621
Vanadium (V)-Total	0.00010	<DL	0.0010	mg/L		21-OCT-20	R5263621
Zinc (Zn)-Total	0.0005	<DL	0.0030	mg/L		21-OCT-20	R5263621

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-14 TB_SW_20201006							
Sampled By: Client on 15-OCT-20 @ 09:15							
Matrix: SW							
Total Metals							
Zirconium (Zr)-Total	<0.000002	<W	0.0010	mg/L		21-OCT-20	R5263621
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					21-OCT-20	R5265858
Aluminum (Al)-Dissolved	0.0002	<DL	0.0050	mg/L		22-OCT-20	R5267319
Antimony (Sb)-Dissolved	<0.000005	<W	0.00060	mg/L		22-OCT-20	R5267319
Arsenic (As)-Dissolved	0.0000080	<DL	0.0010	mg/L		22-OCT-20	R5267319
Barium (Ba)-Dissolved	0.000040	<DL	0.010	mg/L		22-OCT-20	R5267319
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		22-OCT-20	R5267319
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		22-OCT-20	R5267319
Boron (B)-Dissolved	0.0080	<DL	0.050	mg/L		22-OCT-20	R5267319
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		22-OCT-20	R5267319
Calcium (Ca)-Dissolved	0.034	<DL	0.20	mg/L		22-OCT-20	R5267319
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		22-OCT-20	R5267319
Chromium (Cr)-Dissolved	0.00009	<DL	0.0010	mg/L		22-OCT-20	R5267319
Cobalt (Co)-Dissolved	0.000002	<DL	0.00050	mg/L		22-OCT-20	R5267319
Copper (Cu)-Dissolved	0.00002	<DL	0.0010	mg/L		22-OCT-20	R5267319
Iron (Fe)-Dissolved	<0.0005	<W	0.020	mg/L		22-OCT-20	R5267319
Lead (Pb)-Dissolved	<0.00001	<W	0.000050	mg/L		22-OCT-20	R5267319
Lithium (Li)-Dissolved	<0.0002	<W	0.050	mg/L		22-OCT-20	R5267319
Magnesium (Mg)-Dissolved	<0.0005	<W	0.020	mg/L		22-OCT-20	R5267319
Manganese (Mn)-Dissolved	<0.00002	<W	0.0010	mg/L		22-OCT-20	R5267319
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		21-OCT-20	R5261582
Molybdenum (Mo)-Dissolved	<0.000002	<W	0.0010	mg/L		22-OCT-20	R5267319
Nickel (Ni)-Dissolved	<0.00002	<W	0.0020	mg/L		22-OCT-20	R5267319
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		22-OCT-20	R5267319
Potassium (K)-Dissolved	<0.01	<W	0.50	mg/L		22-OCT-20	R5267319
Rubidium (Rb)-Dissolved	<0.000002	<W	0.00020	mg/L		22-OCT-20	R5267319
Selenium (Se)-Dissolved	<0.000005	<W	0.000050	mg/L		22-OCT-20	R5267319
Silicon (Si)-Dissolved	0.020	<DL	0.050	mg/L		22-OCT-20	R5267319
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		22-OCT-20	R5267319
Sodium (Na)-Dissolved	0.070	<DL	0.10	mg/L		22-OCT-20	R5267319
Strontium (Sr)-Dissolved	0.00006	<DL	0.0010	mg/L		22-OCT-20	R5267319
Sulfur (S)-Dissolved	<0.2	<W	0.50	mg/L		22-OCT-20	R5267319
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		22-OCT-20	R5267319
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		22-OCT-20	R5267319
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		22-OCT-20	R5267319
Tin (Sn)-Dissolved	0.000020	<DL	0.0010	mg/L		22-OCT-20	R5267319
Titanium (Ti)-Dissolved	<0.00002	<W	0.0020	mg/L		22-OCT-20	R5267319
Tungsten (W)-Dissolved	0.000002	<DL	0.010	mg/L		22-OCT-20	R5267319
Uranium (U)-Dissolved	0.0000010	<DL	0.0050	mg/L		22-OCT-20	R5267319
Vanadium (V)-Dissolved	0.00004	<DL	0.0010	mg/L		22-OCT-20	R5267319

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2517645-14 TB_SW_20201006 Sampled By: Client on 15-OCT-20 @ 09:15 Matrix: SW							
Dissolved Metals							
Zinc (Zn)-Dissolved	<0.0002	<W	0.0030	mg/L		22-OCT-20	R5267319
Zirconium (Zr)-Dissolved	<0.000002	<W	0.0010	mg/L		22-OCT-20	R5267319
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		18-OCT-20	R5266925
Chemical Oxygen Demand	<20		20	mg/L	20-OCT-20	22-OCT-20	R5264521
Oil and Grease, Total	0.4	<DL	1.0	mg/L	20-OCT-20	21-OCT-20	R5260278
Report Remarks : Laboratory Control Sample for anions just outside DQO. All other quality controls within DQO.							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Duplicate	Aluminum (Al)-Total	DUP-H	L2517645-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Laboratory Control Sample	Fluoride (F)	LCS-H	L2517645-14
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L2517645-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2517645-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2517645-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L2517645-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2517645-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2517645-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Aluminum (Al)-Total	MS-B	L2517645-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Total	MS-B	L2517645-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Total	MS-B	L2517645-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Total	MS-B	L2517645-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Iron (Fe)-Total	MS-B	L2517645-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2517645-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2517645-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Total	MS-B	L2517645-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Potassium (K)-Total	MS-B	L2517645-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Silicon (Si)-Total	MS-B	L2517645-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Total	MS-B	L2517645-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Total	MS-B	L2517645-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Total	MS-B	L2517645-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Total	MS-B	L2517645-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Titanium (Ti)-Total	MS-B	L2517645-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9

Sample Parameter Qualifier key listed:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
LCS-H	Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RRR	Refer to Report Remarks for issues regarding this analysis

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-MISA-TB	Effluent	Acidity (as CaCO3)	APHA 2310 B-POTENTIOMETRIC TITRATION
Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample.			
ALK-MISA-TB	Effluent	Alkalinity, Total (as CaCO3)	APHA 2320 B-Auto-Pot. Titration

Reference Information

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BOD-TB	Water	Biochemical Oxygen Demand (BOD)	APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND
--------	-------	---------------------------------	--

All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation.

CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)
--------------	-------	-------------------------------------	-----------------

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CN-FREE-MISA-CFA-WT	Effluent	Free Cyanide by Continuous Flow Analyzer	ASTM D7237-10 (modified)
---------------------	----------	--	--------------------------

This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis.

CN-T-MISA-CFA-WT	Effluent	Total Cyanide by CFA	ISO 14403-2:2012 (modified)
------------------	----------	----------------------	-----------------------------

This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis.

Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.

CN-WAD-MISA-CFA-WT	Effluent	Weak Acid Dissociable Cyanide by CFA	APHA 4500-CN CYANIDE (modified)
--------------------	----------	--------------------------------------	---------------------------------

This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.

COD-TB	Water	Chemical Oxygen Demand	APHA 5220D
--------	-------	------------------------	------------

This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.

COLOUR-TB	Water	Colour, True	APHA 2120 C
-----------	-------	--------------	-------------

True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard.

DOC-MISA-WP	Effluent	Diss Organic Carbon by Combustion (MISA)	APHA 5310 B-WP
-------------	----------	--	----------------

Filtered (0.45 um) sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon is oxidized to CO2 which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.

EC-MISA-TB	Effluent	Conductivity (EC)	APHA 2510 B-ELECTRODE
------------	----------	-------------------	-----------------------

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)
-----------	-------	-------------------------	-----------------

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Effluent	Hardness (as CaCO3)	CALCULATION
------------------	----------	---------------------	-------------

HG-DIS-WT	Effluent	Mercury (Hg)-Dissolved for MISA	SW846 7470A
-----------	----------	---------------------------------	-------------

HG-TOT-WT	Effluent	Mercury (Hg)-Total for MISA	SW846 7470A
-----------	----------	-----------------------------	-------------

MET-D-MISA-TB	Effluent	Dissolved Metals in Water (MISA)	APHA 3030B/6020B (mod)
---------------	----------	----------------------------------	------------------------

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-MISA-TB	Effluent	Total Metals in Water (MISA)	EPA 200.2/6020B (mod)
---------------	----------	------------------------------	-----------------------

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-MISA-F-TB	Effluent	Ammonia by Discrete Analyzer	catnr 157/158 062217/99321057 (modified)
---------------	----------	------------------------------	--

Ammonia is determined by Flow-injection analysis with fluorescence detection

Reference Information

NH3-UNION-CALC-TB	Effluent	Un-ionized ammonia	Calculation
NO2-MISA-IC-TB	Effluent	Nitrite in Water by IC	EPA 300.1 (mod)
Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.			
NO3-MISA-IC-TB	Effluent	Nitrate in Water by IC	EPA 300.1 (mod)
Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.			
OGG-TOT-WT	Effluent	Oil and Grease, Total for MISA	APHA 5520 B-Hexane Gravimetric
PH-CLIENT-TB	Water	pH	Result supplied by Client
PH-MISA-TB	Effluent	pH	APHA 4500-H-ELECTRODE
This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode			
PO4-DO-COL-TB	Water	Dissolved Orthophosphate	APHA 4500-P B, F, G (modified)
Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.			
RA226-MMER-BE	Water	Radium 226	Radium Isotopes by Alpha Spectrometry
Determination of Gamma Emitting Radionuclides In Water and Solids by Gamma Spectrometry.			
SO4-MISA-IC-TB	Effluent	Sulfate in Water by IC	EPA 300.1 (mod)
Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.			
TDS-MISA-TB	Effluent	Total Dissolved Solids	APHA 2540 C (modified)
Aqueous matrices are analyzed using gravimetry and evaporation			
TEMP-CLIENT-TB	Water	Temperature	Result supplied by Client
TKN-F-TB	Water	TKN in Water by Fluorescence	catnr 157/158, 062818/99334821
Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection			
TOC-MISA-WP	Effluent	Total Organic Carbon by Combustion (MISA)	APHA 5310 B-WP
Sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon is oxidized to CO2 which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.			
TSS-MISA-TB	Effluent	Total Suspended Solids	APHA 2540 D (modified)
Aqueous matrices are analyzed using gravimetry			
TURBIDITY-TB	Water	Turbidity	APHA 2130 B-Nephelometer
Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA
BE	BECQUEREL LABORATORIES INC. - MISSISSAUGA, ONTARIO, CANADA

Chain of Custody Numbers:

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 1 of 26

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BOD-TB								
	Water							
Batch	R5264839							
WG3426564-3	DUP	L2517645-4						
Biochemical Oxygen Demand		<2.0	<2.0	RPD-NA	mg/L	N/A	30	17-OCT-20
WG3426564-10	LCS							
Biochemical Oxygen Demand			91.6		%		85-115	17-OCT-20
WG3426564-2	LCS							
Biochemical Oxygen Demand			87.7		%		85-115	17-OCT-20
WG3426564-6	LCS							
Biochemical Oxygen Demand			86.8		%		85-115	17-OCT-20
WG3426564-1	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	17-OCT-20
WG3426564-5	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	17-OCT-20
WG3426564-9	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	17-OCT-20
Batch	R5266925							
WG3426850-3	DUP	L2518107-13						
Biochemical Oxygen Demand		<2.0	<2.0	RPD-NA	mg/L	N/A	30	18-OCT-20
WG3426850-2	LCS							
Biochemical Oxygen Demand			91.2		%		85-115	18-OCT-20
WG3426850-1	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	18-OCT-20
CL-L-IC-N-TB								
	Water							
Batch	R5256723							
WG3426632-3	DUP	L2517580-6						
Chloride (Cl)		1.09	1.12		mg/L	2.7	20	18-OCT-20
WG3426632-2	LCS							
Chloride (Cl)			92.1		%		90-110	18-OCT-20
WG3426632-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	18-OCT-20
WG3426632-4	MS	L2517645-1						
Chloride (Cl)			105.8		%		75-125	18-OCT-20
Batch	R5257836							
WG3426638-3	DUP	L2517645-3						
Chloride (Cl)		9.51	9.41		mg/L	1.1	20	19-OCT-20
WG3426638-2	LCS							
Chloride (Cl)			90.9		%		90-110	19-OCT-20
WG3426638-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	19-OCT-20

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 2 of 26

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-L-IC-N-TB								
	Water							
Batch	R5257836							
WG3426638-4	MS	L2517645-14						
Chloride (Cl)			105.8		%		75-125	19-OCT-20
COD-TB								
	Water							
Batch	R5264521							
WG3428039-3	DUP	L2517527-5						
Chemical Oxygen Demand		49	46		mg/L	5.9	20	22-OCT-20
WG3428039-2	LCS							
Chemical Oxygen Demand			103.1		%		85-115	22-OCT-20
WG3428039-1	MB							
Chemical Oxygen Demand			<20		mg/L		20	22-OCT-20
WG3428039-4	MS	L2517527-6						
Chemical Oxygen Demand			102.0		%		75-125	22-OCT-20
COLOUR-TB								
	Water							
Batch	R5256356							
WG3426612-3	DUP	L2517636-2						
Color, True		8.6	8.7		CU	1.2	20	17-OCT-20
WG3426621-3	DUP	L2517645-11						
Color, True		134	134		CU	0.7	20	17-OCT-20
WG3426612-2	LCS							
Color, True			96.1		%		85-115	17-OCT-20
WG3426621-2	LCS							
Color, True			95.2		%		85-115	17-OCT-20
WG3426612-1	MB							
Color, True			<2.0		CU		2	17-OCT-20
WG3426621-1	MB							
Color, True			<2.0		CU		2	17-OCT-20
F-IC-N-TB								
	Water							
Batch	R5256723							
WG3426632-2	LCS							
Fluoride (F)			94.9		%		90-110	18-OCT-20
WG3426632-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	18-OCT-20
WG3426632-4	MS	L2517645-1						
Fluoride (F)			107.7		%		75-125	18-OCT-20

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 3 of 26

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F-IC-N-TB		Water						
Batch	R5257836							
WG3426638-3	DUP	L2517645-3						
Fluoride (F)		0.062	0.068		mg/L	8.5	20	19-OCT-20
WG3426638-2	LCS							
Fluoride (F)			99.1		%		90-110	19-OCT-20
WG3426638-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	19-OCT-20
WG3426638-4	MS	L2517645-14						
Fluoride (F)			107.0		%		75-125	19-OCT-20
Batch	R5266229							
WG3428561-2	LCS							
Fluoride (F)			115.1	LCS-H	%		90-110	22-OCT-20
WG3428561-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	22-OCT-20
PO4-DO-COL-TB		Water						
Batch	R5260597							
WG3426626-3	DUP	L2517636-1						
Orthophosphate-Dissolved (as P)		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	20-OCT-20
WG3426626-2	LCS							
Orthophosphate-Dissolved (as P)			97.5		%		80-120	20-OCT-20
WG3426626-1	MB							
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	20-OCT-20
WG3426626-4	MS	L2517645-14						
Orthophosphate-Dissolved (as P)			98.4		%		70-130	20-OCT-20
TKN-F-TB		Water						
Batch	R5268626							
WG3428046-3	DUP	L2517527-7						
Total Kjeldahl Nitrogen		1.04	0.884		mg/L	16	20	26-OCT-20
WG3428046-2	LCS							
Total Kjeldahl Nitrogen			102.4		%		75-125	26-OCT-20
WG3428046-1	MB							
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	26-OCT-20
TURBIDITY-TB		Water						
Batch	R5256181							
WG3426584-3	DUP	L2517645-6						
Turbidity		44.2	44.8		NTU	1.3	15	17-OCT-20
WG3426584-2	LCS							
Turbidity			99.0		%		85-115	17-OCT-20

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 4 of 26

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TURBIDITY-TB		Water						
Batch	R5256181							
WG3426584-1	MB							
Turbidity			<0.10		NTU		0.1	17-OCT-20
ACY-MISA-TB		Effluent						
Batch	R5256643							
WG3426604-3	DUP	L2517645-5						
Acidity (as CaCO3)		<0.2	<0.2	RPD-NA	mg/L	N/A	20	18-OCT-20
WG3426604-2	LCS		97.6		%		85-115	18-OCT-20
Acidity (as CaCO3)								
WG3426604-1	MB		1.6		mg/L		4	18-OCT-20
Acidity (as CaCO3)								
ALK-MISA-TB		Effluent						
Batch	R5256377							
WG3426650-15	DUP	L2517727-1						
Alkalinity, Total (as CaCO3)		120	120		mg/L	0.1	20	17-OCT-20
Alkalinity, Phenolphthalein		<0.2	<0.2	RPD-NA	mg/L	N/A	25	17-OCT-20
WG3426595-2	LCS		103.9		%		85-115	17-OCT-20
Alkalinity, Total (as CaCO3)								
WG3426597-2	LCS		104.2		%		85-115	17-OCT-20
Alkalinity, Total (as CaCO3)								
WG3426595-1	MB		0.4		mg/L		2	17-OCT-20
Alkalinity, Total (as CaCO3)								
Alkalinity, Phenolphthalein			<0.2		mg/L		2	17-OCT-20
WG3426597-1	MB		0.6		mg/L		2	17-OCT-20
Alkalinity, Total (as CaCO3)								
Alkalinity, Phenolphthalein			<0.2		mg/L		2	17-OCT-20
CN-FREE-MISA-CFA-WT		Effluent						
Batch	R5263218							
WG3429333-3	DUP	L2517636-1						
Cyanide, Free		<0.0001	<0.0001	RPD-NA	mg/L	N/A	20	21-OCT-20
WG3429333-7	DUP	L2517645-11						
Cyanide, Free		<0.0001	0.0020	RPD-NA	mg/L	N/A	20	21-OCT-20
WG3429333-2	LCS		97.5		%		80-120	21-OCT-20
Cyanide, Free								
WG3429333-6	LCS		97.1		%		80-120	21-OCT-20
Cyanide, Free								
WG3429333-1	MB							

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 5 of 26

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CN-FREE-MISA-CFA-WT		Effluent						
Batch	R5263218							
WG3429333-1	MB							
Cyanide, Free			0.0005		mg/L		0.002	21-OCT-20
WG3429333-5	MB							
Cyanide, Free			0.0003		mg/L		0.002	21-OCT-20
WG3429333-4	MS	L2517636-1						
Cyanide, Free			87.2		%		75-125	21-OCT-20
WG3429333-8	MS	L2517645-11						
Cyanide, Free			104.7		%		75-125	21-OCT-20
CN-T-MISA-CFA-WT		Effluent						
Batch	R5263218							
WG3429333-3	DUP	L2517636-1						
Cyanide, Total		<0.0002	<0.0002	RPD-NA	mg/L	N/A	20	21-OCT-20
WG3429333-7	DUP	L2517645-11						
Cyanide, Total		0.0034	0.0026	RPD-NA	mg/L	N/A	20	21-OCT-20
WG3429333-2	LCS							
Cyanide, Total			96.3		%		80-120	21-OCT-20
WG3429333-6	LCS							
Cyanide, Total			93.8		%		80-120	21-OCT-20
WG3429333-1	MB							
Cyanide, Total			0.0002		mg/L		0.002	21-OCT-20
WG3429333-5	MB							
Cyanide, Total			<0.0002		mg/L		0.002	21-OCT-20
WG3429333-4	MS	L2517636-1						
Cyanide, Total			89.1		%		75-125	21-OCT-20
WG3429333-8	MS	L2517645-11						
Cyanide, Total			98.6		%		75-125	21-OCT-20
CN-WAD-MISA-CFA-WT		Effluent						
Batch	R5263218							
WG3429333-3	DUP	L2517636-1						
Cyanide, Weak Acid Diss		0.0003	0.0003	RPD-NA	mg/L	N/A	20	21-OCT-20
WG3429333-7	DUP	L2517645-11						
Cyanide, Weak Acid Diss		0.0043	0.0023	RPD-NA	mg/L	N/A	20	21-OCT-20
WG3429333-2	LCS							
Cyanide, Weak Acid Diss			102.9		%		80-120	21-OCT-20
WG3429333-6	LCS							
Cyanide, Weak Acid Diss			102.6		%		80-120	21-OCT-20
WG3429333-1	MB							
Cyanide, Weak Acid Diss			<0.0001		mg/L		0.002	21-OCT-20

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 6 of 26

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CN-WAD-MISA-CFA-WT								
	Effluent							
Batch	R5263218							
WG3429333-5	MB							
	Cyanide, Weak Acid Diss		<0.0001		mg/L		0.002	21-OCT-20
WG3429333-4	MS	L2517636-1						
	Cyanide, Weak Acid Diss		93.0		%		75-125	21-OCT-20
WG3429333-8	MS	L2517645-11						
	Cyanide, Weak Acid Diss		104.6		%		75-125	21-OCT-20
DOC-MISA-WP								
	Effluent							
Batch	R5268862							
WG3432044-2	LCS							
	Dissolved Organic Carbon		96.3		%		80-120	25-OCT-20
WG3432044-1	MB							
	Dissolved Organic Carbon		<0.05		mg/L		0.5	25-OCT-20
WG3432044-3	MS	L2517645-1						
	Dissolved Organic Carbon		101.0		%		70-130	25-OCT-20
Batch	R5270323							
WG3434071-2	LCS							
	Dissolved Organic Carbon		97.7		%		80-120	27-OCT-20
WG3434071-1	MB							
	Dissolved Organic Carbon		0.05		mg/L		0.5	27-OCT-20
EC-MISA-TB								
	Effluent							
Batch	R5256377							
WG3426650-15	DUP	L2517727-1						
	Conductivity (EC)	1670	1650		uS/cm	0.8	10	17-OCT-20
WG3426595-2	LCS							
	Conductivity (EC)		96.2		%		90-110	17-OCT-20
WG3426597-2	LCS							
	Conductivity (EC)		96.0		%		90-110	17-OCT-20
WG3426595-1	MB							
	Conductivity (EC)		1.2		uS/cm		2	17-OCT-20
WG3426597-1	MB							
	Conductivity (EC)		1.2		uS/cm		2	17-OCT-20
HG-DIS-WT								
	Effluent							
Batch	R5261582							
WG3428939-3	DUP	L2517636-1						
	Mercury (Hg)-Dissolved	<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	21-OCT-20
WG3428939-2	LCS							
	Mercury (Hg)-Dissolved		92.3		%		80-120	21-OCT-20

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 7 of 26

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-DIS-WT		Effluent						
Batch	R5261582							
WG3428939-1 MB								
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.00003	21-OCT-20
WG3428939-4 MS		L2517645-1						
Mercury (Hg)-Dissolved			96.7		%		70-130	21-OCT-20
HG-TOT-WT		Effluent						
Batch	R5261597							
WG3428943-3 DUP		L2517636-1						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	21-OCT-20
WG3428943-2 LCS								
Mercury (Hg)-Total			91.9		%		80-120	21-OCT-20
WG3428943-1 MB								
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	21-OCT-20
WG3428943-4 MS		L2517645-1						
Mercury (Hg)-Total			100.0		%		70-130	21-OCT-20
MET-D-MISA-TB		Effluent						
Batch	R5267319							
WG3430032-19 DUP		L2517645-12						
Aluminum (Al)-Dissolved		0.0166	0.0158		mg/L	5.3	20	22-OCT-20
Antimony (Sb)-Dissolved		0.000140	0.000135	RPD-NA	mg/L	N/A	20	22-OCT-20
Arsenic (As)-Dissolved		0.000721	0.000694	RPD-NA	mg/L	N/A	20	22-OCT-20
Barium (Ba)-Dissolved		0.0324	0.0323		mg/L	0.5	20	22-OCT-20
Beryllium (Be)-Dissolved		0.000002	0.000002	RPD-NA	mg/L	N/A	20	22-OCT-20
Bismuth (Bi)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	22-OCT-20
Boron (B)-Dissolved		0.0200	0.0190	RPD-NA	mg/L	N/A	20	22-OCT-20
Cadmium (Cd)-Dissolved		0.0000055	0.0000030	RPD-NA	mg/L	N/A	20	22-OCT-20
Calcium (Ca)-Dissolved		57.0	57.7		mg/L	1.2	20	22-OCT-20
Cesium (Cs)-Dissolved		0.0000030	0.0000020	RPD-NA	mg/L	N/A	20	22-OCT-20
Chromium (Cr)-Dissolved		0.00015	0.00014	RPD-NA	mg/L	N/A	20	22-OCT-20
Cobalt (Co)-Dissolved		0.000164	0.000156	RPD-NA	mg/L	N/A	20	22-OCT-20
Copper (Cu)-Dissolved		0.00302	0.00296		mg/L	2.2	20	22-OCT-20
Iron (Fe)-Dissolved		0.0540	0.0545		mg/L	1.4	20	22-OCT-20
Lead (Pb)-Dissolved		0.00003	0.00003	RPD-NA	mg/L	N/A	20	22-OCT-20
Lithium (Li)-Dissolved		0.0082	0.0084	RPD-NA	mg/L	N/A	20	22-OCT-20
Magnesium (Mg)-Dissolved		19.8	19.5		mg/L	1.5	20	22-OCT-20
Manganese (Mn)-Dissolved		0.0692	0.0684		mg/L	1.2	20	22-OCT-20

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 8 of 26

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R5267319							
WG3430032-19	DUP	L2517645-12						
Molybdenum (Mo)-Dissolved		0.00215	0.00218		mg/L	1.3	20	22-OCT-20
Nickel (Ni)-Dissolved		0.00132	0.00132	RPD-NA	mg/L	N/A	20	22-OCT-20
Phosphorus (P)-Dissolved		0.015	0.020	RPD-NA	mg/L	N/A	20	22-OCT-20
Potassium (K)-Dissolved		5.05	5.09		mg/L	0.7	20	22-OCT-20
Rubidium (Rb)-Dissolved		0.00173	0.00180		mg/L	4.0	20	22-OCT-20
Selenium (Se)-Dissolved		0.000275	0.000315		mg/L	14	20	22-OCT-20
Silicon (Si)-Dissolved		4.16	4.15		mg/L	0.3	20	22-OCT-20
Silver (Ag)-Dissolved		0.0000020	0.0000020	RPD-NA	mg/L	N/A	20	22-OCT-20
Sodium (Na)-Dissolved		8.45	8.41		mg/L	0.5	20	22-OCT-20
Strontium (Sr)-Dissolved		0.195	0.198		mg/L	1.6	20	22-OCT-20
Sulfur (S)-Dissolved		16.4	17.2		mg/L	4.4	20	22-OCT-20
Tellurium (Te)-Dissolved		0.00001	<0.00001	RPD-NA	mg/L	N/A	20	22-OCT-20
Thallium (Tl)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	22-OCT-20
Thorium (Th)-Dissolved		0.00004	0.00004	RPD-NA	mg/L	N/A	20	22-OCT-20
Tin (Sn)-Dissolved		0.000015	0.000015	RPD-NA	mg/L	N/A	20	22-OCT-20
Titanium (Ti)-Dissolved		0.00416	0.00426		mg/L	2.6	20	22-OCT-20
Tungsten (W)-Dissolved		0.000018	0.000018	RPD-NA	mg/L	N/A	20	22-OCT-20
Uranium (U)-Dissolved		0.00378	0.00388	RPD-NA	mg/L	N/A	20	22-OCT-20
Vanadium (V)-Dissolved		0.00072	0.00070	RPD-NA	mg/L	N/A	20	22-OCT-20
Zinc (Zn)-Dissolved		0.0068	0.0066		mg/L	3.2	20	22-OCT-20
Zirconium (Zr)-Dissolved		0.000418	0.000348	RPD-NA	mg/L	N/A	20	22-OCT-20
WG3430032-18		LCS						
Aluminum (Al)-Dissolved			95.3		%		80-120	22-OCT-20
Antimony (Sb)-Dissolved			98.5		%		80-120	22-OCT-20
Arsenic (As)-Dissolved			99.0		%		80-120	22-OCT-20
Barium (Ba)-Dissolved			98.4		%		80-120	22-OCT-20
Beryllium (Be)-Dissolved			97.1		%		80-120	22-OCT-20
Bismuth (Bi)-Dissolved			96.8		%		80-120	22-OCT-20
Boron (B)-Dissolved			102.2		%		80-120	22-OCT-20
Cadmium (Cd)-Dissolved			100.3		%		80-120	22-OCT-20
Calcium (Ca)-Dissolved			96.2		%		80-120	22-OCT-20
Cesium (Cs)-Dissolved			97.4		%		80-120	22-OCT-20
Chromium (Cr)-Dissolved			93.9		%		80-120	22-OCT-20

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 9 of 26

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R5267319							
WG3430032-18 LCS								
Cobalt (Co)-Dissolved			93.5		%		80-120	22-OCT-20
Copper (Cu)-Dissolved			94.0		%		80-120	22-OCT-20
Iron (Fe)-Dissolved			113.3		%		80-120	22-OCT-20
Lead (Pb)-Dissolved			97.8		%		80-120	22-OCT-20
Lithium (Li)-Dissolved			97.7		%		80-120	22-OCT-20
Magnesium (Mg)-Dissolved			95.9		%		80-120	22-OCT-20
Manganese (Mn)-Dissolved			95.4		%		80-120	22-OCT-20
Molybdenum (Mo)-Dissolved			97.8		%		80-120	22-OCT-20
Nickel (Ni)-Dissolved			93.0		%		80-120	22-OCT-20
Phosphorus (P)-Dissolved			105.4		%		70-130	22-OCT-20
Potassium (K)-Dissolved			99.4		%		80-120	22-OCT-20
Rubidium (Rb)-Dissolved			99.4		%		80-120	22-OCT-20
Selenium (Se)-Dissolved			100.5		%		80-120	22-OCT-20
Silicon (Si)-Dissolved			102.7		%		60-140	22-OCT-20
Silver (Ag)-Dissolved			98.5		%		80-120	22-OCT-20
Sodium (Na)-Dissolved			96.4		%		80-120	22-OCT-20
Strontium (Sr)-Dissolved			96.9		%		80-120	22-OCT-20
Sulfur (S)-Dissolved			101.3		%		80-120	22-OCT-20
Tellurium (Te)-Dissolved			97.2		%		80-120	22-OCT-20
Thallium (Tl)-Dissolved			97.9		%		80-120	22-OCT-20
Thorium (Th)-Dissolved			96.5		%		80-120	22-OCT-20
Tin (Sn)-Dissolved			98.0		%		80-120	22-OCT-20
Titanium (Ti)-Dissolved			93.5		%		80-120	22-OCT-20
Tungsten (W)-Dissolved			101.7		%		80-120	22-OCT-20
Uranium (U)-Dissolved			96.9		%		80-120	22-OCT-20
Vanadium (V)-Dissolved			96.7		%		80-120	22-OCT-20
Zinc (Zn)-Dissolved			100.4		%		80-120	22-OCT-20
Zirconium (Zr)-Dissolved			97.8		%		80-120	22-OCT-20
WG3430032-17 MB								
Aluminum (Al)-Dissolved			<0.0002		mg/L		0.005	22-OCT-20
Antimony (Sb)-Dissolved			<0.000005		mg/L		0.0006	22-OCT-20
Arsenic (As)-Dissolved			0.0000352		mg/L		0.001	22-OCT-20
Barium (Ba)-Dissolved			0.000005		mg/L		0.01	22-OCT-20
Beryllium (Be)-Dissolved			<0.000002		mg/L		0.001	22-OCT-20

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 10 of 26

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB	Effluent							
Batch	R5267319							
WG3430032-17 MB								
Bismuth (Bi)-Dissolved			<0.000002		mg/L		0.001	22-OCT-20
Boron (B)-Dissolved			0.0040		mg/L		0.05	22-OCT-20
Cadmium (Cd)-Dissolved			<0.0000005		mg/L		0.000017	22-OCT-20
Calcium (Ca)-Dissolved			0.004		mg/L		0.2	22-OCT-20
Cesium (Cs)-Dissolved			<0.0000005		mg/L		0.00001	22-OCT-20
Chromium (Cr)-Dissolved			<0.00001		mg/L		0.001	22-OCT-20
Cobalt (Co)-Dissolved			<0.000002		mg/L		0.0005	22-OCT-20
Copper (Cu)-Dissolved			<0.00002		mg/L		0.001	22-OCT-20
Iron (Fe)-Dissolved			<0.0005		mg/L		0.02	22-OCT-20
Lead (Pb)-Dissolved			<0.00001		mg/L		0.00005	22-OCT-20
Lithium (Li)-Dissolved			0.0006		mg/L		0.05	22-OCT-20
Magnesium (Mg)-Dissolved			<0.0005		mg/L		0.02	22-OCT-20
Manganese (Mn)-Dissolved			0.00004		mg/L		0.001	22-OCT-20
Molybdenum (Mo)-Dissolved			<0.000002		mg/L		0.001	22-OCT-20
Nickel (Ni)-Dissolved			<0.00002		mg/L		0.002	22-OCT-20
Phosphorus (P)-Dissolved			<0.005		mg/L		0.05	22-OCT-20
Potassium (K)-Dissolved			<0.01		mg/L		0.5	22-OCT-20
Rubidium (Rb)-Dissolved			0.000002		mg/L		0.0002	22-OCT-20
Selenium (Se)-Dissolved			0.000010		mg/L		0.00005	22-OCT-20
Silicon (Si)-Dissolved			<0.005		mg/L		0.05	22-OCT-20
Silver (Ag)-Dissolved			<0.0000005		mg/L		0.0001	22-OCT-20
Sodium (Na)-Dissolved			<0.005		mg/L		0.1	22-OCT-20
Strontium (Sr)-Dissolved			0.00002		mg/L		0.001	22-OCT-20
Sulfur (S)-Dissolved			<0.2		mg/L		0.5	22-OCT-20
Tellurium (Te)-Dissolved			<0.00001		mg/L		0.001	22-OCT-20
Thallium (Tl)-Dissolved			<0.000002		mg/L		0.0003	22-OCT-20
Thorium (Th)-Dissolved			<0.00001		mg/L		0.0001	22-OCT-20
Tin (Sn)-Dissolved			<0.000005		mg/L		0.001	22-OCT-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.002	22-OCT-20
Tungsten (W)-Dissolved			<0.000002		mg/L		0.01	22-OCT-20
Uranium (U)-Dissolved			<0.0000005		mg/L		0.005	22-OCT-20
Vanadium (V)-Dissolved			<0.00002		mg/L		0.001	22-OCT-20
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.003	22-OCT-20

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 11 of 26

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB								
	Effluent							
Batch	R5267319							
WG3430032-17 MB								
Zirconium (Zr)-Dissolved			<0.000002		mg/L		0.001	22-OCT-20
WG3430032-20 MS		L2517645-13						
Aluminum (Al)-Dissolved			96.6		%		70-130	22-OCT-20
Antimony (Sb)-Dissolved			95.5		%		70-130	22-OCT-20
Arsenic (As)-Dissolved			102.0		%		70-130	22-OCT-20
Barium (Ba)-Dissolved			N/A	MS-B	%		-	22-OCT-20
Beryllium (Be)-Dissolved			94.2		%		70-130	22-OCT-20
Bismuth (Bi)-Dissolved			93.3		%		70-130	22-OCT-20
Boron (B)-Dissolved			96.6		%		70-130	22-OCT-20
Cadmium (Cd)-Dissolved			102.3		%		70-130	22-OCT-20
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	22-OCT-20
Cesium (Cs)-Dissolved			102.1		%		70-130	22-OCT-20
Chromium (Cr)-Dissolved			95.5		%		70-130	22-OCT-20
Cobalt (Co)-Dissolved			93.9		%		70-130	22-OCT-20
Copper (Cu)-Dissolved			93.3		%		70-130	22-OCT-20
Iron (Fe)-Dissolved			95.2		%		70-130	22-OCT-20
Lead (Pb)-Dissolved			97.3		%		70-130	22-OCT-20
Lithium (Li)-Dissolved			88.9		%		70-130	22-OCT-20
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	22-OCT-20
Manganese (Mn)-Dissolved			N/A	MS-B	%		-	22-OCT-20
Molybdenum (Mo)-Dissolved			95.4		%		70-130	22-OCT-20
Nickel (Ni)-Dissolved			95.1		%		70-130	22-OCT-20
Phosphorus (P)-Dissolved			100.8		%		70-130	22-OCT-20
Potassium (K)-Dissolved			93.6		%		70-130	22-OCT-20
Rubidium (Rb)-Dissolved			95.2		%		70-130	22-OCT-20
Selenium (Se)-Dissolved			105.9		%		70-130	22-OCT-20
Silicon (Si)-Dissolved			78.5		%		70-130	22-OCT-20
Silver (Ag)-Dissolved			98.7		%		70-130	22-OCT-20
Sodium (Na)-Dissolved			N/A	MS-B	%		-	22-OCT-20
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	22-OCT-20
Sulfur (S)-Dissolved			107.1		%		70-130	22-OCT-20
Tellurium (Te)-Dissolved			102.2		%		70-130	22-OCT-20
Thallium (Tl)-Dissolved			97.9		%		70-130	22-OCT-20
Thorium (Th)-Dissolved			99.7		%		70-130	22-OCT-20

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 12 of 26

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB								
	Effluent							
Batch	R5267319							
WG3430032-20 MS		L2517645-13						
Tin (Sn)-Dissolved			96.9		%		70-130	22-OCT-20
Titanium (Ti)-Dissolved			94.5		%		70-130	22-OCT-20
Tungsten (W)-Dissolved			99.0		%		70-130	22-OCT-20
Uranium (U)-Dissolved			96.5		%		70-130	22-OCT-20
Vanadium (V)-Dissolved			98.5		%		70-130	22-OCT-20
Zinc (Zn)-Dissolved			97.7		%		70-130	22-OCT-20
Zirconium (Zr)-Dissolved			96.4		%		70-130	22-OCT-20
MET-T-MISA-TB								
	Effluent							
Batch	R5263621							
WG3429021-11 DUP		L2517747-4						
Aluminum (Al)-Total		5.08	6.22	DUP-H	mg/L	20	20	21-OCT-20
Antimony (Sb)-Total		0.000050	0.000045	RPD-NA	mg/L	N/A	20	21-OCT-20
Arsenic (As)-Total		0.0214	0.0216		mg/L	0.7	20	21-OCT-20
Barium (Ba)-Total		0.0897	0.0926		mg/L	3.2	20	21-OCT-20
Beryllium (Be)-Total		0.0000902	0.0000874	RPD-NA	mg/L	N/A	20	21-OCT-20
Bismuth (Bi)-Total		0.00002	0.00002	RPD-NA	mg/L	N/A	20	21-OCT-20
Boron (B)-Total		0.0820	0.0820		mg/L	0.1	20	21-OCT-20
Cadmium (Cd)-Total		0.000064	0.000062		mg/L	3.4	20	21-OCT-20
Calcium (Ca)-Total		113	114		mg/L	1.0	20	21-OCT-20
Cesium (Cs)-Total		0.000481	0.000526		mg/L	8.9	20	21-OCT-20
Chromium (Cr)-Total		0.0122	0.0143		mg/L	15	20	21-OCT-20
Cobalt (Co)-Total		0.00608	0.00664		mg/L	8.8	20	21-OCT-20
Copper (Cu)-Total		0.0306	0.0310		mg/L	1.3	20	21-OCT-20
Iron (Fe)-Total		11.7	12.8		mg/L	8.5	20	21-OCT-20
Lead (Pb)-Total		0.00147	0.00147		mg/L	0.1	20	21-OCT-20
Lithium (Li)-Total		0.0386	0.0376	RPD-NA	mg/L	N/A	20	21-OCT-20
Magnesium (Mg)-Total		45.3	45.5		mg/L	0.5	20	21-OCT-20
Manganese (Mn)-Total		0.695	0.694		mg/L	0.1	20	21-OCT-20
Molybdenum (Mo)-Total		0.00111	0.00122		mg/L	9.7	20	21-OCT-20
Nickel (Ni)-Total		0.0122	0.0131		mg/L	7.3	20	21-OCT-20
Phosphorus (P)-Total		0.465	0.480		mg/L	2.2	20	21-OCT-20
Potassium (K)-Total		5.01	4.97		mg/L	0.9	20	21-OCT-20
Rubidium (Rb)-Total		0.00567	0.00597		mg/L	5.2	20	21-OCT-20

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 13 of 26

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R5263621							
WG3429021-11	DUP	L2517747-4						
Selenium (Se)-Total		0.000055	0.000085	J	mg/L	0.000028	0.0001	21-OCT-20
Silicon (Si)-Total		18.2	19.0		mg/L	4.2	20	21-OCT-20
Silver (Ag)-Total		0.000019	0.000019	RPD-NA	mg/L	N/A	20	21-OCT-20
Sodium (Na)-Total		15.5	15.5		mg/L	0.0	20	21-OCT-20
Strontium (Sr)-Total		0.569	0.564		mg/L	0.8	20	21-OCT-20
Sulfur (S)-Total		8.6	8.4		mg/L	0.7	20	21-OCT-20
Tellurium (Te)-Total		0.00004	0.00004	RPD-NA	mg/L	N/A	20	21-OCT-20
Thallium (Tl)-Total		0.000025	0.000030	RPD-NA	mg/L	N/A	20	21-OCT-20
Thorium (Th)-Total		0.00122	0.00122		mg/L	0.2	20	21-OCT-20
Tin (Sn)-Total		0.00007	0.00007	RPD-NA	mg/L	N/A	20	21-OCT-20
Titanium (Ti)-Total		0.213	0.256		mg/L	18	20	21-OCT-20
Tungsten (W)-Total		0.00003	0.00003	RPD-NA	mg/L	N/A	20	21-OCT-20
Uranium (U)-Total		0.00190	0.00186	RPD-NA	mg/L	N/A	20	21-OCT-20
Vanadium (V)-Total		0.0169	0.0192		mg/L	13	20	21-OCT-20
Zinc (Zn)-Total		0.0200	0.0210		mg/L	5.5	20	21-OCT-20
Zirconium (Zr)-Total		0.00130	0.00130		mg/L	0.1	20	21-OCT-20
WG3429021-7	DUP	L2517645-3						
Aluminum (Al)-Total		0.229	0.235		mg/L	2.5	20	21-OCT-20
Antimony (Sb)-Total		0.000065	0.000070	RPD-NA	mg/L	N/A	20	21-OCT-20
Arsenic (As)-Total		0.00123	0.00130		mg/L	5.3	20	21-OCT-20
Barium (Ba)-Total		0.0216	0.0215		mg/L	0.4	20	21-OCT-20
Beryllium (Be)-Total		0.0000114	0.0000067	RPD-NA	mg/L	N/A	20	21-OCT-20
Bismuth (Bi)-Total		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	21-OCT-20
Boron (B)-Total		0.0170	0.0170	RPD-NA	mg/L	N/A	20	21-OCT-20
Cadmium (Cd)-Total		0.000009	0.000007	RPD-NA	mg/L	N/A	20	21-OCT-20
Calcium (Ca)-Total		42.3	42.3		mg/L	0.1	20	21-OCT-20
Cesium (Cs)-Total		0.0000330	0.0000295		mg/L	9.8	20	21-OCT-20
Chromium (Cr)-Total		0.00058	0.00052	RPD-NA	mg/L	N/A	20	21-OCT-20
Cobalt (Co)-Total		0.000255	0.000250	RPD-NA	mg/L	N/A	20	21-OCT-20
Copper (Cu)-Total		0.00132	0.00132		mg/L	0.3	20	21-OCT-20
Iron (Fe)-Total		0.354	0.357		mg/L	0.8	20	21-OCT-20
Lead (Pb)-Total		0.00012	0.00012		mg/L	3.5	20	21-OCT-20
Lithium (Li)-Total		0.0058	0.0056	RPD-NA	mg/L	N/A	20	21-OCT-20

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 14 of 26

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5263621							
WG3429021-7	DUP	L2517645-3						
Magnesium (Mg)-Total		18.1	18.1		mg/L	0.1	20	21-OCT-20
Manganese (Mn)-Total		0.0526	0.0520		mg/L	1.3	20	21-OCT-20
Molybdenum (Mo)-Total		0.000445	0.000425	RPD-NA	mg/L	N/A	20	21-OCT-20
Nickel (Ni)-Total		0.00180	0.00180	RPD-NA	mg/L	N/A	20	21-OCT-20
Phosphorus (P)-Total		0.035	0.040	RPD-NA	mg/L	N/A	20	21-OCT-20
Potassium (K)-Total		1.97	1.95		mg/L	1.2	20	21-OCT-20
Rubidium (Rb)-Total		0.00273	0.00275		mg/L	0.7	20	21-OCT-20
Selenium (Se)-Total		0.000200	0.000170		mg/L	15	20	21-OCT-20
Silicon (Si)-Total		2.81	2.79		mg/L	0.7	20	21-OCT-20
Silver (Ag)-Total		0.000001	0.000002	RPD-NA	mg/L	N/A	20	21-OCT-20
Sodium (Na)-Total		4.66	4.68		mg/L	0.4	20	21-OCT-20
Strontium (Sr)-Total		0.101	0.100		mg/L	1.1	20	21-OCT-20
Sulfur (S)-Total		4.8	4.6		mg/L	3.4	20	21-OCT-20
Tellurium (Te)-Total		0.00002	0.00004	RPD-NA	mg/L	N/A	20	21-OCT-20
Thallium (Tl)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	21-OCT-20
Thorium (Th)-Total		0.00004	0.00004	RPD-NA	mg/L	N/A	20	21-OCT-20
Tin (Sn)-Total		0.00002	0.00002	RPD-NA	mg/L	N/A	20	21-OCT-20
Titanium (Ti)-Total		0.00734	0.00793		mg/L	7.8	20	21-OCT-20
Tungsten (W)-Total		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	21-OCT-20
Uranium (U)-Total		0.000805	0.000772	RPD-NA	mg/L	N/A	20	21-OCT-20
Vanadium (V)-Total		0.00115	0.00130		mg/L	16	20	21-OCT-20
Zinc (Zn)-Total		0.0020	0.0040	RPD-NA	mg/L	N/A	20	21-OCT-20
Zirconium (Zr)-Total		0.000312	0.000346	RPD-NA	mg/L	N/A	20	21-OCT-20
WG3429021-10	LCS							
Aluminum (Al)-Total			98.2		%		80-120	21-OCT-20
Antimony (Sb)-Total			101.4		%		80-120	21-OCT-20
Arsenic (As)-Total			102.4		%		80-120	21-OCT-20
Barium (Ba)-Total			101.0		%		80-120	21-OCT-20
Beryllium (Be)-Total			97.4		%		80-120	21-OCT-20
Bismuth (Bi)-Total			99.8		%		80-120	21-OCT-20
Boron (B)-Total			92.5		%		80-120	21-OCT-20
Cadmium (Cd)-Total			101.0		%		80-120	21-OCT-20
Calcium (Ca)-Total			99.1		%		80-120	21-OCT-20

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 15 of 26

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5263621							
WG3429021-10 LCS								
Cesium (Cs)-Total			103.0		%		80-120	21-OCT-20
Chromium (Cr)-Total			99.7		%		80-120	21-OCT-20
Cobalt (Co)-Total			97.3		%		80-120	21-OCT-20
Copper (Cu)-Total			98.3		%		80-120	21-OCT-20
Iron (Fe)-Total			109.1		%		80-120	21-OCT-20
Lead (Pb)-Total			98.1		%		80-120	21-OCT-20
Lithium (Li)-Total			96.7		%		80-120	21-OCT-20
Magnesium (Mg)-Total			100.9		%		80-120	21-OCT-20
Manganese (Mn)-Total			97.8		%		80-120	21-OCT-20
Molybdenum (Mo)-Total			100.6		%		80-120	21-OCT-20
Nickel (Ni)-Total			98.2		%		80-120	21-OCT-20
Phosphorus (P)-Total			102.5		%		80-120	21-OCT-20
Potassium (K)-Total			98.9		%		80-120	21-OCT-20
Rubidium (Rb)-Total			99.5		%		80-120	21-OCT-20
Selenium (Se)-Total			102.3		%		80-120	21-OCT-20
Silicon (Si)-Total			103.1		%		80-120	21-OCT-20
Silver (Ag)-Total			100.1		%		80-120	21-OCT-20
Sodium (Na)-Total			104.5		%		80-120	21-OCT-20
Strontium (Sr)-Total			101.8		%		80-120	21-OCT-20
Sulfur (S)-Total			102.0		%		80-120	21-OCT-20
Tellurium (Te)-Total			101.8		%		80-120	21-OCT-20
Thallium (Tl)-Total			98.7		%		80-120	21-OCT-20
Thorium (Th)-Total			102.1		%		80-120	21-OCT-20
Tin (Sn)-Total			101.3		%		80-120	21-OCT-20
Titanium (Ti)-Total			94.9		%		80-120	21-OCT-20
Tungsten (W)-Total			101.8		%		80-120	21-OCT-20
Uranium (U)-Total			103.3		%		80-120	21-OCT-20
Vanadium (V)-Total			98.4		%		80-120	21-OCT-20
Zinc (Zn)-Total			99.7		%		80-120	21-OCT-20
Zirconium (Zr)-Total			100.5		%		80-120	21-OCT-20
WG3429021-6 LCS								
Aluminum (Al)-Total			101.6		%		80-120	21-OCT-20
Antimony (Sb)-Total			101.7		%		80-120	21-OCT-20
Arsenic (As)-Total			104.4		%		80-120	21-OCT-20

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 16 of 26

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB	Effluent							
Batch	R5263621							
WG3429021-6	LCS							
Barium (Ba)-Total			99.0		%		80-120	21-OCT-20
Beryllium (Be)-Total			97.8		%		80-120	21-OCT-20
Bismuth (Bi)-Total			99.0		%		80-120	21-OCT-20
Boron (B)-Total			98.3		%		80-120	21-OCT-20
Cadmium (Cd)-Total			100.3		%		80-120	21-OCT-20
Calcium (Ca)-Total			99.5		%		80-120	21-OCT-20
Cesium (Cs)-Total			104.7		%		80-120	21-OCT-20
Chromium (Cr)-Total			98.4		%		80-120	21-OCT-20
Cobalt (Co)-Total			98.4		%		80-120	21-OCT-20
Copper (Cu)-Total			99.6		%		80-120	21-OCT-20
Iron (Fe)-Total			108.3		%		80-120	21-OCT-20
Lead (Pb)-Total			97.8		%		80-120	21-OCT-20
Lithium (Li)-Total			97.4		%		80-120	21-OCT-20
Magnesium (Mg)-Total			104.0		%		80-120	21-OCT-20
Manganese (Mn)-Total			97.0		%		80-120	21-OCT-20
Molybdenum (Mo)-Total			101.1		%		80-120	21-OCT-20
Nickel (Ni)-Total			98.0		%		80-120	21-OCT-20
Phosphorus (P)-Total			102.8		%		80-120	21-OCT-20
Potassium (K)-Total			101.5		%		80-120	21-OCT-20
Rubidium (Rb)-Total			99.7		%		80-120	21-OCT-20
Selenium (Se)-Total			100.1		%		80-120	21-OCT-20
Silicon (Si)-Total			101.3		%		80-120	21-OCT-20
Silver (Ag)-Total			100.2		%		80-120	21-OCT-20
Sodium (Na)-Total			103.8		%		80-120	21-OCT-20
Strontium (Sr)-Total			102.9		%		80-120	21-OCT-20
Sulfur (S)-Total			99.5		%		80-120	21-OCT-20
Tellurium (Te)-Total			109.1		%		80-120	21-OCT-20
Thallium (Tl)-Total			97.8		%		80-120	21-OCT-20
Thorium (Th)-Total			99.8		%		80-120	21-OCT-20
Tin (Sn)-Total			101.8		%		80-120	21-OCT-20
Titanium (Ti)-Total			99.9		%		80-120	21-OCT-20
Tungsten (W)-Total			99.3		%		80-120	21-OCT-20
Uranium (U)-Total			98.0		%		80-120	21-OCT-20

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 17 of 26

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5263621							
WG3429021-6	LCS							
Vanadium (V)-Total			99.5		%		80-120	21-OCT-20
Zinc (Zn)-Total			99.0		%		80-120	21-OCT-20
Zirconium (Zr)-Total			102.3		%		80-120	21-OCT-20
WG3429021-5	MB							
Aluminum (Al)-Total			0.0006		mg/L		0.005	21-OCT-20
Antimony (Sb)-Total			<0.000005		mg/L		0.0006	21-OCT-20
Arsenic (As)-Total			0.00004		mg/L		0.001	21-OCT-20
Barium (Ba)-Total			<0.00001		mg/L		0.01	21-OCT-20
Beryllium (Be)-Total			<0.0000001		mg/L		0.001	21-OCT-20
Bismuth (Bi)-Total			<0.00001		mg/L		0.001	21-OCT-20
Boron (B)-Total			0.0015		mg/L		0.05	21-OCT-20
Cadmium (Cd)-Total			<0.000001		mg/L		0.000017	21-OCT-20
Calcium (Ca)-Total			<0.002		mg/L		0.2	21-OCT-20
Cesium (Cs)-Total			<0.0000005		mg/L		0.00001	21-OCT-20
Chromium (Cr)-Total			<0.00002		mg/L		0.001	21-OCT-20
Cobalt (Co)-Total			<0.000005		mg/L		0.0005	21-OCT-20
Copper (Cu)-Total			<0.00002		mg/L		0.001	21-OCT-20
Iron (Fe)-Total			<0.0005		mg/L		0.02	21-OCT-20
Lead (Pb)-Total			<0.00001		mg/L		0.00005	21-OCT-20
Lithium (Li)-Total			0.0002		mg/L		0.05	21-OCT-20
Magnesium (Mg)-Total			0.0002		mg/L		0.02	21-OCT-20
Manganese (Mn)-Total			<0.0002		mg/L		0.001	21-OCT-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.001	21-OCT-20
Nickel (Ni)-Total			0.00004		mg/L		0.002	21-OCT-20
Phosphorus (P)-Total			<0.005		mg/L		0.05	21-OCT-20
Potassium (K)-Total			<0.01		mg/L		0.5	21-OCT-20
Rubidium (Rb)-Total			<0.000002		mg/L		0.0002	21-OCT-20
Selenium (Se)-Total			<0.000005		mg/L		0.00005	21-OCT-20
Silicon (Si)-Total			0.034		mg/L		0.1	21-OCT-20
Silver (Ag)-Total			0.000001		mg/L		0.0001	21-OCT-20
Sodium (Na)-Total			<0.005		mg/L		0.1	21-OCT-20
Strontium (Sr)-Total			0.000005		mg/L		0.001	21-OCT-20
Sulfur (S)-Total			0.2		mg/L		0.5	21-OCT-20
Tellurium (Te)-Total			<0.00002		mg/L		0.001	21-OCT-20

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 18 of 26

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5263621							
WG3429021-5 MB								
Thallium (Tl)-Total			<0.000005		mg/L		0.0003	21-OCT-20
Thorium (Th)-Total			<0.00001		mg/L		0.0001	21-OCT-20
Tin (Sn)-Total			<0.00001		mg/L		0.001	21-OCT-20
Titanium (Ti)-Total			0.00002		mg/L		0.002	21-OCT-20
Tungsten (W)-Total			<0.00001		mg/L		0.01	21-OCT-20
Uranium (U)-Total			0.0000010		mg/L		0.005	21-OCT-20
Vanadium (V)-Total			0.00025		mg/L		0.001	21-OCT-20
Zinc (Zn)-Total			0.0005		mg/L		0.003	21-OCT-20
Zirconium (Zr)-Total			<0.000002		mg/L		0.001	21-OCT-20
WG3429021-9 MB								
Aluminum (Al)-Total			0.0012		mg/L		0.005	21-OCT-20
Antimony (Sb)-Total			0.000005		mg/L		0.0006	21-OCT-20
Arsenic (As)-Total			0.00003		mg/L		0.001	21-OCT-20
Barium (Ba)-Total			<0.00001		mg/L		0.01	21-OCT-20
Beryllium (Be)-Total			<0.0000001		mg/L		0.001	21-OCT-20
Bismuth (Bi)-Total			<0.00001		mg/L		0.001	21-OCT-20
Boron (B)-Total			0.0015		mg/L		0.05	21-OCT-20
Cadmium (Cd)-Total			<0.000001		mg/L		0.000017	21-OCT-20
Calcium (Ca)-Total			<0.002		mg/L		0.2	21-OCT-20
Cesium (Cs)-Total			<0.0000005		mg/L		0.00001	21-OCT-20
Chromium (Cr)-Total			<0.00002		mg/L		0.001	21-OCT-20
Cobalt (Co)-Total			<0.000005		mg/L		0.0005	21-OCT-20
Copper (Cu)-Total			<0.00002		mg/L		0.001	21-OCT-20
Iron (Fe)-Total			0.0010		mg/L		0.02	21-OCT-20
Lead (Pb)-Total			<0.00001		mg/L		0.00005	21-OCT-20
Lithium (Li)-Total			0.0004		mg/L		0.05	21-OCT-20
Magnesium (Mg)-Total			0.0004		mg/L		0.02	21-OCT-20
Manganese (Mn)-Total			<0.0002		mg/L		0.001	21-OCT-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.001	21-OCT-20
Nickel (Ni)-Total			<0.00002		mg/L		0.002	21-OCT-20
Phosphorus (P)-Total			<0.005		mg/L		0.05	21-OCT-20
Potassium (K)-Total			<0.01		mg/L		0.5	21-OCT-20
Rubidium (Rb)-Total			<0.000002		mg/L		0.0002	21-OCT-20
Selenium (Se)-Total			<0.000005		mg/L		0.00005	21-OCT-20

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 19 of 26

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R5263621							
WG3429021-9 MB								
Silicon (Si)-Total			0.038		mg/L		0.1	21-OCT-20
Silver (Ag)-Total			<0.000001		mg/L		0.0001	21-OCT-20
Sodium (Na)-Total			<0.005		mg/L		0.1	21-OCT-20
Strontium (Sr)-Total			<0.000005		mg/L		0.001	21-OCT-20
Sulfur (S)-Total			0.2		mg/L		0.5	21-OCT-20
Tellurium (Te)-Total			<0.00002		mg/L		0.001	21-OCT-20
Thallium (Tl)-Total			<0.000005		mg/L		0.0003	21-OCT-20
Thorium (Th)-Total			<0.00001		mg/L		0.0001	21-OCT-20
Tin (Sn)-Total			<0.00001		mg/L		0.001	21-OCT-20
Titanium (Ti)-Total			<0.00001		mg/L		0.002	21-OCT-20
Tungsten (W)-Total			<0.00001		mg/L		0.01	21-OCT-20
Uranium (U)-Total			<0.0000005		mg/L		0.005	21-OCT-20
Vanadium (V)-Total			0.00015		mg/L		0.001	21-OCT-20
Zinc (Zn)-Total			0.0010		mg/L		0.003	21-OCT-20
Zirconium (Zr)-Total			<0.000002		mg/L		0.001	21-OCT-20
WG3429021-12 MS		L2517747-5						
Aluminum (Al)-Total			N/A	MS-B	%		-	21-OCT-20
Antimony (Sb)-Total			88.8		%		70-130	21-OCT-20
Arsenic (As)-Total			98.6		%		70-130	21-OCT-20
Barium (Ba)-Total			N/A	MS-B	%		-	21-OCT-20
Beryllium (Be)-Total			91.1		%		70-130	21-OCT-20
Bismuth (Bi)-Total			91.5		%		70-130	21-OCT-20
Boron (B)-Total			83.3		%		70-130	21-OCT-20
Cadmium (Cd)-Total			96.6		%		70-130	21-OCT-20
Calcium (Ca)-Total			N/A	MS-B	%		-	21-OCT-20
Cesium (Cs)-Total			102.0		%		70-130	21-OCT-20
Chromium (Cr)-Total			98.2		%		70-130	21-OCT-20
Cobalt (Co)-Total			93.0		%		70-130	21-OCT-20
Copper (Cu)-Total			92.3		%		70-130	21-OCT-20
Iron (Fe)-Total			N/A	MS-B	%		-	21-OCT-20
Lead (Pb)-Total			90.2		%		70-130	21-OCT-20
Lithium (Li)-Total			88.0		%		70-130	21-OCT-20
Magnesium (Mg)-Total			N/A	MS-B	%		-	21-OCT-20
Manganese (Mn)-Total			N/A	MS-B	%		-	21-OCT-20

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 20 of 26

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R5263621							
WG3429021-12 MS		L2517747-5						
Molybdenum (Mo)-Total			88.4		%		70-130	21-OCT-20
Nickel (Ni)-Total			92.6		%		70-130	21-OCT-20
Phosphorus (P)-Total			98.0		%		70-130	21-OCT-20
Potassium (K)-Total			N/A	MS-B	%		-	21-OCT-20
Rubidium (Rb)-Total			96.8		%		70-130	21-OCT-20
Selenium (Se)-Total			102.6		%		70-130	21-OCT-20
Silicon (Si)-Total			N/A	MS-B	%		-	21-OCT-20
Silver (Ag)-Total			96.6		%		70-130	21-OCT-20
Sodium (Na)-Total			N/A	MS-B	%		-	21-OCT-20
Strontium (Sr)-Total			N/A	MS-B	%		-	21-OCT-20
Sulfur (S)-Total			96.3		%		70-130	21-OCT-20
Tellurium (Te)-Total			85.4		%		70-130	21-OCT-20
Thallium (Tl)-Total			90.7		%		70-130	21-OCT-20
Thorium (Th)-Total			97.3		%		70-130	21-OCT-20
Tin (Sn)-Total			87.7		%		70-130	21-OCT-20
Titanium (Ti)-Total			N/A	MS-B	%		-	21-OCT-20
Tungsten (W)-Total			84.7		%		70-130	21-OCT-20
Uranium (U)-Total			96.4		%		70-130	21-OCT-20
Vanadium (V)-Total			98.3		%		70-130	21-OCT-20
Zinc (Zn)-Total			89.7		%		70-130	21-OCT-20
Zirconium (Zr)-Total			90.3		%		70-130	21-OCT-20
WG3429021-8 MS		L2517645-4						
Aluminum (Al)-Total			104.8		%		70-130	21-OCT-20
Antimony (Sb)-Total			87.8		%		70-130	21-OCT-20
Arsenic (As)-Total			86.4		%		70-130	21-OCT-20
Barium (Ba)-Total			86.9		%		70-130	21-OCT-20
Beryllium (Be)-Total			85.6		%		70-130	21-OCT-20
Bismuth (Bi)-Total			87.0		%		70-130	21-OCT-20
Boron (B)-Total			86.5		%		70-130	21-OCT-20
Cadmium (Cd)-Total			85.3		%		70-130	21-OCT-20
Calcium (Ca)-Total			N/A	MS-B	%		-	21-OCT-20
Cesium (Cs)-Total			88.4		%		70-130	21-OCT-20
Chromium (Cr)-Total			86.9		%		70-130	21-OCT-20
Cobalt (Co)-Total			86.1		%		70-130	21-OCT-20

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 21 of 26

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R5263621							
WG3429021-8	MS	L2517645-4						
Copper (Cu)-Total			87.1		%		70-130	21-OCT-20
Iron (Fe)-Total			79.5		%		70-130	21-OCT-20
Lead (Pb)-Total			84.7		%		70-130	21-OCT-20
Lithium (Li)-Total			83.4		%		70-130	21-OCT-20
Magnesium (Mg)-Total			N/A	MS-B	%		-	21-OCT-20
Manganese (Mn)-Total			83.4		%		70-130	21-OCT-20
Molybdenum (Mo)-Total			88.3		%		70-130	21-OCT-20
Nickel (Ni)-Total			86.7		%		70-130	21-OCT-20
Phosphorus (P)-Total			88.5		%		70-130	21-OCT-20
Potassium (K)-Total			87.2		%		70-130	21-OCT-20
Rubidium (Rb)-Total			84.1		%		70-130	21-OCT-20
Selenium (Se)-Total			89.1		%		70-130	21-OCT-20
Silicon (Si)-Total			84.9		%		70-130	21-OCT-20
Silver (Ag)-Total			85.1		%		70-130	21-OCT-20
Sodium (Na)-Total			N/A	MS-B	%		-	21-OCT-20
Strontium (Sr)-Total			N/A	MS-B	%		-	21-OCT-20
Sulfur (S)-Total			84.6		%		70-130	21-OCT-20
Tellurium (Te)-Total			87.7		%		70-130	21-OCT-20
Thallium (Tl)-Total			83.9		%		70-130	21-OCT-20
Thorium (Th)-Total			88.4		%		70-130	21-OCT-20
Tin (Sn)-Total			87.7		%		70-130	21-OCT-20
Titanium (Ti)-Total			89.4		%		70-130	21-OCT-20
Tungsten (W)-Total			87.7		%		70-130	21-OCT-20
Uranium (U)-Total			89.9		%		70-130	21-OCT-20
Vanadium (V)-Total			85.8		%		70-130	21-OCT-20
Zinc (Zn)-Total			85.4		%		70-130	21-OCT-20
Zirconium (Zr)-Total			90.3		%		70-130	21-OCT-20
NH3-MISA-F-TB								
	Effluent							
Batch	R5263998							
WG3428018-2	LCS							
Ammonia, Total (as N)			97.4		%		85-115	22-OCT-20
WG3428018-1	MB							
Ammonia, Total (as N)			<0.002		mg/L		0.005	22-OCT-20
NO2-MISA-IC-TB								
	Effluent							

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 22 of 26

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO2-MISA-IC-TB		Effluent						
Batch	R5256723							
WG3426632-2	LCS							
Nitrite (as N)			93.7		%		90-110	18-OCT-20
WG3426632-1	MB							
Nitrite (as N)			<0.001		mg/L		0.01	18-OCT-20
WG3426632-4	MS	L2517645-1						
Nitrite (as N)			106.3		%		75-125	18-OCT-20
Batch	R5257836							
WG3426638-3	DUP	L2517645-3						
Nitrite (as N)		0.002	<0.001	RPD-NA	mg/L	N/A	20	19-OCT-20
WG3426638-2	LCS							
Nitrite (as N)			90.3		%		90-110	19-OCT-20
WG3426638-1	MB							
Nitrite (as N)			<0.001		mg/L		0.01	19-OCT-20
WG3426638-4	MS	L2517645-14						
Nitrite (as N)			107.9		%		75-125	19-OCT-20
NO3-MISA-IC-TB		Effluent						
Batch	R5256723							
WG3426632-2	LCS							
Nitrate (as N)			91.2		%		90-110	18-OCT-20
WG3426632-1	MB							
Nitrate (as N)			<0.002		mg/L		0.02	18-OCT-20
WG3426632-4	MS	L2517645-1						
Nitrate (as N)			107.5		%		75-125	18-OCT-20
Batch	R5257836							
WG3426638-3	DUP	L2517645-3						
Nitrate (as N)		0.062	0.048	J	mg/L	0.013	0.04	19-OCT-20
WG3426638-2	LCS							
Nitrate (as N)			95.4		%		90-110	19-OCT-20
WG3426638-1	MB							
Nitrate (as N)			<0.002		mg/L		0.02	19-OCT-20
WG3426638-4	MS	L2517645-14						
Nitrate (as N)			110.3		%		75-125	19-OCT-20
OGG-TOT-WT		Effluent						
Batch	R5260068							
WG3428430-2	LCS							
Oil and Grease, Total			98.7		%		50-150	20-OCT-20
WG3428430-1	MB							

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 23 of 26

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OGG-TOT-WT		Effluent						
Batch	R5260068							
WG3428430-1	MB							
Oil and Grease, Total			0.4		mg/L		1	20-OCT-20
Batch	R5260278							
WG3428737-2	LCS							
Oil and Grease, Total			94.2		%		50-150	21-OCT-20
WG3428737-1	MB							
Oil and Grease, Total			0.8		mg/L		1	21-OCT-20
PH-MISA-TB		Effluent						
Batch	R5256377							
WG3426650-15	DUP	L2517727-1						
pH		8.00	8.02	J	pH	0.02	0.2	17-OCT-20
WG3426595-2	LCS							
pH			7.01		pH		6.9-7.1	17-OCT-20
WG3426597-2	LCS							
pH			7.01		pH		6.9-7.1	17-OCT-20
SO4-MISA-IC-TB		Effluent						
Batch	R5256723							
WG3426632-2	LCS							
Sulfate (SO4)			95.2		%		90-110	18-OCT-20
WG3426632-1	MB							
Sulfate (SO4)			0.05		mg/L		0.3	18-OCT-20
WG3426632-4	MS	L2517645-1						
Sulfate (SO4)			108.8		%		75-125	18-OCT-20
Batch	R5257836							
WG3426638-3	DUP	L2517645-3						
Sulfate (SO4)		12.9	13.0		mg/L	0.6	20	19-OCT-20
WG3426638-2	LCS							
Sulfate (SO4)			93.0		%		90-110	19-OCT-20
WG3426638-1	MB							
Sulfate (SO4)			<0.05		mg/L		0.3	19-OCT-20
WG3426638-4	MS	L2517645-14						
Sulfate (SO4)			108.3		%		75-125	19-OCT-20
TDS-MISA-TB		Effluent						

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Page 24 of 26

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TDS-MISA-TB		Effluent						
Batch	R5258237							
WG3427096-3	DUP	L2517645-11						
Total Dissolved Solids		590	588		mg/L	0.1	20	19-OCT-20
WG3427096-2	LCS							
Total Dissolved Solids			97.4		%		85-115	19-OCT-20
WG3427096-1	MB							
Total Dissolved Solids			<2		mg/L		10	19-OCT-20
TOC-MISA-WP		Effluent						
Batch	R5268867							
WG3432085-2	LCS							
Total Organic Carbon			99.5		%		80-120	25-OCT-20
WG3432085-1	MB							
Total Organic Carbon			<0.1		mg/L		0.5	25-OCT-20
WG3432085-4	MS	L2517645-1						
Total Organic Carbon			102.6		%		70-130	25-OCT-20
TSS-MISA-TB		Effluent						
Batch	R5258096							
WG3427097-3	DUP	L2517645-11						
Total Suspended Solids		4.0	4.0		mg/L	10	20	19-OCT-20
WG3427097-2	LCS							
Total Suspended Solids			90.7		%		85-115	19-OCT-20
WG3427097-1	MB							
Total Suspended Solids			<0.5		mg/L		3	19-OCT-20

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Page 25 of 26

Contact: Amanda Jacobs

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
J	Duplicate results and limits are expressed in terms of absolute difference.
LCS-H	Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L2517645

Report Date: 19-NOV-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Amanda Jacobs

Page 26 of 26

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Organic / Inorganic Carbon							
Diss Organic Carbon by Combustion (MISA)							
	1	14-OCT-20 12:00	25-OCT-20 15:00	10	11	days	EHT
	2	14-OCT-20 13:45	25-OCT-20 15:00	10	11	days	EHT
	3	14-OCT-20 15:40	25-OCT-20 15:00	10	11	days	EHT
	4	14-OCT-20 12:00	27-OCT-20 15:00	10	13	days	EHT
	5	14-OCT-20 10:15	25-OCT-20 15:00	10	11	days	EHT
	6	14-OCT-20 12:10	25-OCT-20 15:00	10	11	days	EHT
	7	14-OCT-20 10:30	25-OCT-20 15:00	10	11	days	EHT
	8	14-OCT-20 11:40	25-OCT-20 15:00	10	11	days	EHT
	9	14-OCT-20 11:20	25-OCT-20 15:00	10	11	days	EHT
	10	14-OCT-20 14:10	25-OCT-20 15:00	10	11	days	EHT
	11	14-OCT-20 13:50	25-OCT-20 15:00	10	11	days	EHT
	12	14-OCT-20 14:15	25-OCT-20 15:00	10	11	days	EHT
	13	14-OCT-20 13:20	25-OCT-20 15:00	10	11	days	EHT

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2517645 were received on 16-OCT-20 14:30.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 10/15/2020 3:32:00 PM COC Number: ALS-44119647						Containers SW Kit Ra-226 Bottle																	
						Filtered N N																	
						Preservatives																	
						NG-SW-P-TB RA226-MMER-BE																	
Sample Code				Date and Time	Matrix															Number of Containers	Comments		
FB_SW_20201006				10/14/2020 12:00	SW	X														11			
SW02_SW_20201006	7.22	5.45		10/14/2020 13:45	SW	X														11			
SW03_SW_20201006	7.35	7.09		10/14/2020 15:40	SW	X														11			
SW06_SW_20201006				10/14/2020 12:00	SW	X														11			
SW10_SW_20201006	7.26	8.51		10/14/2020 10:15	SW	X														11			
SW15_SW_20201006	7.35	7.3		10/14/2020 12:10	SW	X														11			

Signature Shipped by Received by	Date/Time 10/15/2020 3:32:00 PM	Shipping Details Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: 807-623-6463	ATTN	Special Instructions: Email Invoice to: <rainyriver.accounts1@newgold.com> Email Report to: rainyriver.labresults@newgold.com>



CHAIN OF CUSTODY RECORD - ALS-44119647

Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 10/15/2020 3:32:00 PM COC Number: ALS-44119647						Containers SW Kit Ra-226 Bottle																	
						Filtered N N																	
						Preservatives																	
						NG-SW-P-TB RA226-MMER-BE																	
Sample Code				Date and Time	Matrix															Number of Containers	Comments		
SW16_SW_202 01006	7.15	9.45		10/14/2020 10:30	SW	X														11			
SW17_SW_202 01006	7.66	9.34		10/14/2020 11:40	SW	X														11			
SW20_SW_202 01006	6.81	6.67		10/14/2020 11:20	SW	X	X													12			
SW23_SW_202 01006	7.28	7.23		10/14/2020 14:10	SW	X	X													12			
SW24_SW_202 01006	7.28	7.69		10/14/2020 13:50	SW	X	X													12			
SW25_SW_202 01006	7.06	5.61		10/14/2020 14:15	SW	X														11			

Signature	Date/Time	Shipping Details	ATTN	Special Instructions:
Shipped by	10/15/2020 3:32:00 PM	Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: 807-623-6463		Email Invoice to: <rainyriver.accounts1@newgold.com> Email Report to: rainyriver.labresults@newgold.com>
Received by				



Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 10/15/2020 3:32:00 PM COC Number: ALS-44119647						Containers SW Kit Ra-226 Bottle																	
						Filtered N N																	
						Preservatives																	
						NG-SW-P-TB RA226-MMER-BE																	
Sample Code				Date and Time	Matrix																		
SW28A_SW_20 201006		7.41 6.01		10/14/2020 13:20	SW	X													11				
TB_SW_20201 006				10/15/2020 09:15	SW	X													11				

Number of Containers

Comments

Drinking Water (DW) Samples¹ (client use)

Are samples taken from a Regulated DW System?

1 2

Are samples for human consumption/ use?

1 2

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: NONE ICE ICE PACKS FROZEN COOLING INITIATED

Submission Comments Identified on Sample Receipt Notification: YES NO

Cooler Custody Seals Intact: YES N/A Sample Custody Seals Intact:


INITIAL COOLER TEMPERATURES °C: 7.9

FINAL COOLER TEMPERATURES °C:

INITIAL SHIPMENT RECEPTION (ALS use only)

Received by: *y* Date: 2020 10/16 Time: 1430

Signature	Date/Time	Shipping Details	ATTN	Special Instructions:
Shipped by Amanda Jacobs	10/15/2020 9:00:00 AM	Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: 807-623-6463		Email Invoice to: <rainyriver.accounts1@newgold.com> Email Report to: rainyriver.labresults@newgold.com>
Received by				



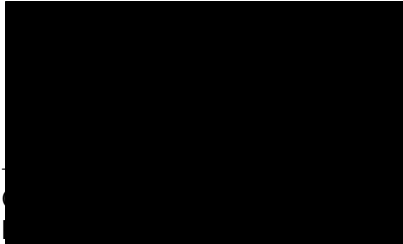
New Gold Inc. Rainy River Project
ATTN: Amanda Jacobs
24 Marr Rd
Barwick ON POW 1A0

Date Received: 21-OCT-20
Report Date: 18-NOV-20 14:48 (MT)
Version: FINAL

Client Phone: 807-482-0931

Certificate of Analysis

Lab Work Order #: L2519654
Project P.O. #: 4500038941
Job Reference: SURFACE WATER
C of C Numbers:
Legal Site Desc:



[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3, Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598



ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2519654-1 SW21A_SW_20201006							
Sampled By: Client on 19-OCT-20 @ 11:05							
Matrix: Water							
Field Tests							
pH, Client Supplied	7.16		0.10	pH		25-OCT-20	R5268326
Temperature, Client Supplied	6.8		0	Degree C		25-OCT-20	R5268326
Physical Tests							
Color, True	35.9		2.0	CU		22-OCT-20	R5264420
Conductivity (EC)	483		1.0	uS/cm		22-OCT-20	R5265717
Hardness (as CaCO3)	232		0.51	mg/L		29-OCT-20	
pH	7.91		0.10	pH		22-OCT-20	R5265717
Total Suspended Solids	4.0		3.0	mg/L		24-OCT-20	R5268324
Total Dissolved Solids	322		20	mg/L		24-OCT-20	R5268345
Turbidity	3.76		0.10	NTU		21-OCT-20	R5262376
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		25-OCT-20	R5268422
Alkalinity, Total (as CaCO3)	188		2.0	mg/L		22-OCT-20	R5265717
Ammonia, Total (as N)	0.008	<T	0.0050	mg/L		27-OCT-20	R5269587
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		28-OCT-20	
Chloride (Cl)	18.8		0.10	mg/L	22-OCT-20	24-OCT-20	R5268235
Fluoride (F)	0.083		0.020	mg/L	22-OCT-20	24-OCT-20	R5268235
Nitrate (as N)	<0.002	<W	0.020	mg/L		24-OCT-20	R5268235
Nitrite (as N)	<0.001	<W	0.010	mg/L		24-OCT-20	R5268235
Total Kjeldahl Nitrogen	1.02		0.050	mg/L	27-OCT-20	29-OCT-20	R5271163
Orthophosphate-Dissolved (as P)	0.0083		0.0030	mg/L	25-OCT-20	25-OCT-20	R5268449
Sulfate (SO4)	58.5		0.30	mg/L		24-OCT-20	R5268235
Cyanides							
Cyanide, Weak Acid Diss	0.0006	<DL	0.0020	mg/L		23-OCT-20	R5267816
Cyanide, Total	0.0004	<DL	0.0020	mg/L		23-OCT-20	R5267816
Cyanide, Free	0.0004	<DL	0.0020	mg/L		23-OCT-20	R5267816
Organic / Inorganic Carbon							
Dissolved Organic Carbon	17.8		0.50	mg/L		27-OCT-20	R5270323
Total Organic Carbon	17.5		0.50	mg/L		02-NOV-20	R5279682
Total Metals							
Aluminum (Al)-Total	0.102		0.0050	mg/L		28-OCT-20	R5271084
Antimony (Sb)-Total	0.000145	<DL	0.00060	mg/L		28-OCT-20	R5271084
Arsenic (As)-Total	0.00105	<T	0.0010	mg/L		28-OCT-20	R5271084
Barium (Ba)-Total	0.0234		0.010	mg/L		28-OCT-20	R5271084
Beryllium (Be)-Total	0.0000032	<DL	0.0010	mg/L		28-OCT-20	R5271084
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		28-OCT-20	R5271084
Boron (B)-Total	0.0155	<DL	0.050	mg/L		28-OCT-20	R5271084
Cadmium (Cd)-Total	0.000004	<DL	0.000017	mg/L		28-OCT-20	R5271084
Calcium (Ca)-Total	50.3		0.20	mg/L		28-OCT-20	R5271084
Cesium (Cs)-Total	0.0000145		0.000010	mg/L		28-OCT-20	R5271084
Chromium (Cr)-Total	0.00036	<DL	0.0010	mg/L		28-OCT-20	R5271084
Cobalt (Co)-Total	0.000175	<DL	0.00050	mg/L		28-OCT-20	R5271084

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2519654-1 SW21A_SW_20201006							
Sampled By: Client on 19-OCT-20 @ 11:05							
Matrix: Water							
Total Metals							
Copper (Cu)-Total	0.00078	<DL	0.0010	mg/L		28-OCT-20	R5271084
Iron (Fe)-Total	0.267		0.020	mg/L		28-OCT-20	R5271084
Lead (Pb)-Total	0.00005	<T	0.000050	mg/L		28-OCT-20	R5271084
Lithium (Li)-Total	0.0102	<DL	0.050	mg/L		28-OCT-20	R5271084
Magnesium (Mg)-Total	24.2		0.020	mg/L		28-OCT-20	R5271084
Manganese (Mn)-Total	0.0362		0.0010	mg/L		28-OCT-20	R5271084
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		28-OCT-20	R5269974
Molybdenum (Mo)-Total	0.00117	<T	0.0010	mg/L		28-OCT-20	R5271084
Nickel (Ni)-Total	0.00118	<DL	0.0020	mg/L		28-OCT-20	R5271084
Phosphorus (P)-Total	0.025	<DL	0.050	mg/L		28-OCT-20	R5271084
Potassium (K)-Total	3.42		0.50	mg/L		28-OCT-20	R5271084
Rubidium (Rb)-Total	0.00331		0.00020	mg/L		28-OCT-20	R5271084
Selenium (Se)-Total	0.000240	<T	0.000050	mg/L		28-OCT-20	R5271084
Silicon (Si)-Total	3.24		0.10	mg/L		28-OCT-20	R5271084
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		28-OCT-20	R5271084
Sodium (Na)-Total	10.7		0.10	mg/L		28-OCT-20	R5271084
Strontium (Sr)-Total	0.153		0.0010	mg/L		28-OCT-20	R5271084
Sulfur (S)-Total	19.6		0.50	mg/L		28-OCT-20	R5271084
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		28-OCT-20	R5271084
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		28-OCT-20	R5271084
Thorium (Th)-Total	0.00002	<DL	0.00010	mg/L		28-OCT-20	R5271084
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		28-OCT-20	R5271084
Titanium (Ti)-Total	0.00359		0.0020	mg/L		28-OCT-20	R5271084
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		28-OCT-20	R5271084
Uranium (U)-Total	0.00114	<DL	0.0050	mg/L		28-OCT-20	R5271084
Vanadium (V)-Total	0.00065	<DL	0.0010	mg/L		28-OCT-20	R5271084
Zinc (Zn)-Total	<0.0005	<W	0.0030	mg/L		28-OCT-20	R5271084
Zirconium (Zr)-Total	0.000182	<DL	0.0010	mg/L		28-OCT-20	R5271084
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					27-OCT-20	R5269941
Aluminum (Al)-Dissolved	0.0048	<DL	0.0050	mg/L		27-OCT-20	R5270077
Antimony (Sb)-Dissolved	0.000155	<DL	0.00060	mg/L		27-OCT-20	R5270077
Arsenic (As)-Dissolved	0.00107	<T	0.0010	mg/L		27-OCT-20	R5270077
Barium (Ba)-Dissolved	0.0250		0.010	mg/L		27-OCT-20	R5270077
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		27-OCT-20	R5270077
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		27-OCT-20	R5270077
Boron (B)-Dissolved	0.0140	<DL	0.050	mg/L		27-OCT-20	R5270077
Cadmium (Cd)-Dissolved	0.0000030	<DL	0.000017	mg/L		27-OCT-20	R5270077
Calcium (Ca)-Dissolved	51.0		0.20	mg/L		27-OCT-20	R5270077
Cesium (Cs)-Dissolved	0.0000030	<DL	0.000010	mg/L		27-OCT-20	R5270077
Chromium (Cr)-Dissolved	0.00004	<DL	0.0010	mg/L		27-OCT-20	R5270077

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2519654-1 SW21A_SW_20201006 Sampled By: Client on 19-OCT-20 @ 11:05 Matrix: Water							
Dissolved Metals							
Cobalt (Co)-Dissolved	0.000134	<DL	0.00050	mg/L		27-OCT-20	R5270077
Copper (Cu)-Dissolved	0.00066	<DL	0.0010	mg/L		27-OCT-20	R5270077
Iron (Fe)-Dissolved	0.0885		0.020	mg/L		27-OCT-20	R5270077
Lead (Pb)-Dissolved	0.00001	<DL	0.000050	mg/L		27-OCT-20	R5270077
Lithium (Li)-Dissolved	0.0104	<DL	0.050	mg/L		27-OCT-20	R5270077
Magnesium (Mg)-Dissolved	25.4		0.020	mg/L		27-OCT-20	R5270077
Manganese (Mn)-Dissolved	0.0312		0.0010	mg/L		27-OCT-20	R5270077
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		28-OCT-20	R5269971
Molybdenum (Mo)-Dissolved	0.00110	<T	0.0010	mg/L		27-OCT-20	R5270077
Nickel (Ni)-Dissolved	0.00110	<DL	0.0020	mg/L		27-OCT-20	R5270077
Phosphorus (P)-Dissolved	0.015	<DL	0.050	mg/L		27-OCT-20	R5270077
Potassium (K)-Dissolved	3.44		0.50	mg/L		27-OCT-20	R5270077
Rubidium (Rb)-Dissolved	0.00315		0.00020	mg/L		27-OCT-20	R5270077
Selenium (Se)-Dissolved	0.000170	<T	0.000050	mg/L		27-OCT-20	R5270077
Silicon (Si)-Dissolved	3.07		0.050	mg/L		27-OCT-20	R5270077
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		27-OCT-20	R5270077
Sodium (Na)-Dissolved	11.2		0.10	mg/L		27-OCT-20	R5270077
Strontium (Sr)-Dissolved	0.152		0.0010	mg/L		27-OCT-20	R5270077
Sulfur (S)-Dissolved	19.2		0.50	mg/L		27-OCT-20	R5270077
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		27-OCT-20	R5270077
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		27-OCT-20	R5270077
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		27-OCT-20	R5270077
Tin (Sn)-Dissolved	0.000005	<DL	0.0010	mg/L		27-OCT-20	R5270077
Titanium (Ti)-Dissolved	0.00024	<DL	0.0020	mg/L		27-OCT-20	R5270077
Tungsten (W)-Dissolved	0.000006	<DL	0.010	mg/L		27-OCT-20	R5270077
Uranium (U)-Dissolved	0.00102	<DL	0.0050	mg/L		27-OCT-20	R5270077
Vanadium (V)-Dissolved	0.00040	<DL	0.0010	mg/L		27-OCT-20	R5270077
Zinc (Zn)-Dissolved	0.0008	<DL	0.0030	mg/L		27-OCT-20	R5270077
Zirconium (Zr)-Dissolved	0.000150	<DL	0.0010	mg/L		27-OCT-20	R5270077
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		22-OCT-20	R5269624
Chemical Oxygen Demand	61		20	mg/L	26-OCT-20	29-OCT-20	R5271073
Oil and Grease, Total	<0.2	<W	1.0	mg/L	24-OCT-20	24-OCT-20	R5268069
L2519654-2 SW26_SW_20201006 Sampled By: Client on 19-OCT-20 @ 11:35 Matrix: Water							
Field Tests							
pH, Client Supplied	7.77		0.10	pH		25-OCT-20	R5268326
Temperature, Client Supplied	1.3		0	Degree C		25-OCT-20	R5268326
Physical Tests							
Color, True	29.4		2.0	CU		22-OCT-20	R5264420
Conductivity (EC)	559		1.0	uS/cm		22-OCT-20	R5265717

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2519654-2 SW26_SW_20201006							
Sampled By: Client on 19-OCT-20 @ 11:35							
Matrix: Water							
Physical Tests							
Hardness (as CaCO3)	269		0.51	mg/L		29-OCT-20	
pH	8.08		0.10	pH		22-OCT-20	R5265717
Total Suspended Solids	2.0	<DL	3.0	mg/L		24-OCT-20	R5268324
Total Dissolved Solids	384		20	mg/L		24-OCT-20	R5268345
Turbidity	4.76		0.10	NTU		21-OCT-20	R5262376
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		25-OCT-20	R5268422
Alkalinity, Total (as CaCO3)	207		2.0	mg/L		22-OCT-20	R5265717
Ammonia, Total (as N)	0.006	<T	0.0050	mg/L		27-OCT-20	R5269587
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		28-OCT-20	
Chloride (Cl)	34.8		0.10	mg/L	22-OCT-20	24-OCT-20	R5268235
Fluoride (F)	0.088		0.020	mg/L	22-OCT-20	24-OCT-20	R5268235
Nitrate (as N)	0.008	<DL	0.020	mg/L		24-OCT-20	R5268235
Nitrite (as N)	0.002	<DL	0.010	mg/L		24-OCT-20	R5268235
Total Kjeldahl Nitrogen	0.662		0.050	mg/L	27-OCT-20	29-OCT-20	R5271163
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	25-OCT-20	25-OCT-20	R5268449
Sulfate (SO4)	40.0		0.30	mg/L		24-OCT-20	R5268235
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		23-OCT-20	R5267816
Cyanide, Total	0.0006	<DL	0.0020	mg/L		23-OCT-20	R5267816
Cyanide, Free	0.0005	<DL	0.0020	mg/L		23-OCT-20	R5267816
Organic / Inorganic Carbon							
Dissolved Organic Carbon	12.4		0.50	mg/L		02-NOV-20	R5279681
Total Organic Carbon	13.0		0.50	mg/L		02-NOV-20	R5279682
Total Metals							
Aluminum (Al)-Total	0.103		0.0050	mg/L		28-OCT-20	R5271084
Antimony (Sb)-Total	0.000100	<DL	0.00060	mg/L		28-OCT-20	R5271084
Arsenic (As)-Total	0.00099	<DL	0.0010	mg/L		28-OCT-20	R5271084
Barium (Ba)-Total	0.0324		0.010	mg/L		28-OCT-20	R5271084
Beryllium (Be)-Total	0.0000032	<DL	0.0010	mg/L		28-OCT-20	R5271084
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		28-OCT-20	R5271084
Boron (B)-Total	0.0210	<DL	0.050	mg/L		28-OCT-20	R5271084
Cadmium (Cd)-Total	0.000002	<DL	0.000017	mg/L		28-OCT-20	R5271084
Calcium (Ca)-Total	64.2		0.20	mg/L		28-OCT-20	R5271084
Cesium (Cs)-Total	0.0000115		0.000010	mg/L		28-OCT-20	R5271084
Chromium (Cr)-Total	0.00032	<DL	0.0010	mg/L		28-OCT-20	R5271084
Cobalt (Co)-Total	0.000160	<DL	0.00050	mg/L		28-OCT-20	R5271084
Copper (Cu)-Total	0.00214	<T	0.0010	mg/L		28-OCT-20	R5271084
Iron (Fe)-Total	0.254		0.020	mg/L		28-OCT-20	R5271084
Lead (Pb)-Total	0.00006	<T	0.000050	mg/L		28-OCT-20	R5271084
Lithium (Li)-Total	0.0102	<DL	0.050	mg/L		28-OCT-20	R5271084
Magnesium (Mg)-Total	25.0		0.020	mg/L		28-OCT-20	R5271084

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2519654-2 SW26_SW_20201006							
Sampled By: Client on 19-OCT-20 @ 11:35							
Matrix: Water							
Total Metals							
Manganese (Mn)-Total	0.0266		0.0010	mg/L		28-OCT-20	R5271084
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		28-OCT-20	R5269974
Molybdenum (Mo)-Total	0.00160	<T	0.0010	mg/L		28-OCT-20	R5271084
Nickel (Ni)-Total	0.00132	<DL	0.0020	mg/L		28-OCT-20	R5271084
Phosphorus (P)-Total	0.010	<DL	0.050	mg/L		28-OCT-20	R5271084
Potassium (K)-Total	3.74		0.50	mg/L		28-OCT-20	R5271084
Rubidium (Rb)-Total	0.00149		0.00020	mg/L		28-OCT-20	R5271084
Selenium (Se)-Total	0.000190	<T	0.000050	mg/L		28-OCT-20	R5271084
Silicon (Si)-Total	3.67		0.10	mg/L		28-OCT-20	R5271084
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		28-OCT-20	R5271084
Sodium (Na)-Total	11.0		0.10	mg/L		28-OCT-20	R5271084
Strontium (Sr)-Total	0.208		0.0010	mg/L		28-OCT-20	R5271084
Sulfur (S)-Total	17.0		0.50	mg/L		28-OCT-20	R5271084
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		28-OCT-20	R5271084
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		28-OCT-20	R5271084
Thorium (Th)-Total	0.00003	<DL	0.00010	mg/L		28-OCT-20	R5271084
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		28-OCT-20	R5271084
Titanium (Ti)-Total	0.00360		0.0020	mg/L		28-OCT-20	R5271084
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		28-OCT-20	R5271084
Uranium (U)-Total	0.00400	<DL	0.0050	mg/L		28-OCT-20	R5271084
Vanadium (V)-Total	0.00065	<DL	0.0010	mg/L		28-OCT-20	R5271084
Zinc (Zn)-Total	0.0045	<T	0.0030	mg/L		28-OCT-20	R5271084
Zirconium (Zr)-Total	0.000334	<DL	0.0010	mg/L		28-OCT-20	R5271084
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					27-OCT-20	R5269941
Aluminum (Al)-Dissolved	0.0058	<T	0.0050	mg/L		27-OCT-20	R5270077
Antimony (Sb)-Dissolved	0.000120	<DL	0.00060	mg/L		27-OCT-20	R5270077
Arsenic (As)-Dissolved	0.000895	<DL	0.0010	mg/L		27-OCT-20	R5270077
Barium (Ba)-Dissolved	0.0325		0.010	mg/L		27-OCT-20	R5270077
Beryllium (Be)-Dissolved	0.000002	<DL	0.0010	mg/L		27-OCT-20	R5270077
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		27-OCT-20	R5270077
Boron (B)-Dissolved	0.0180	<DL	0.050	mg/L		27-OCT-20	R5270077
Cadmium (Cd)-Dissolved	0.0000030	<DL	0.000017	mg/L		27-OCT-20	R5270077
Calcium (Ca)-Dissolved	65.7		0.20	mg/L		27-OCT-20	R5270077
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		27-OCT-20	R5270077
Chromium (Cr)-Dissolved	0.00008	<DL	0.0010	mg/L		27-OCT-20	R5270077
Cobalt (Co)-Dissolved	0.000106	<DL	0.00050	mg/L		27-OCT-20	R5270077
Copper (Cu)-Dissolved	0.00166	<T	0.0010	mg/L		27-OCT-20	R5270077
Iron (Fe)-Dissolved	0.0670		0.020	mg/L		27-OCT-20	R5270077
Lead (Pb)-Dissolved	<0.00001	<W	0.000050	mg/L		27-OCT-20	R5270077
Lithium (Li)-Dissolved	0.0106	<DL	0.050	mg/L		27-OCT-20	R5270077

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2519654-2 SW26_SW_20201006 Sampled By: Client on 19-OCT-20 @ 11:35 Matrix: Water							
Dissolved Metals							
Magnesium (Mg)-Dissolved	25.5		0.020	mg/L		27-OCT-20	R5270077
Manganese (Mn)-Dissolved	0.0224		0.0010	mg/L		27-OCT-20	R5270077
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		28-OCT-20	R5269971
Molybdenum (Mo)-Dissolved	0.00148	<T	0.0010	mg/L		27-OCT-20	R5270077
Nickel (Ni)-Dissolved	0.00122	<DL	0.0020	mg/L		27-OCT-20	R5270077
Phosphorus (P)-Dissolved	0.005	<DL	0.050	mg/L		27-OCT-20	R5270077
Potassium (K)-Dissolved	3.96		0.50	mg/L		27-OCT-20	R5270077
Rubidium (Rb)-Dissolved	0.00128		0.00020	mg/L		27-OCT-20	R5270077
Selenium (Se)-Dissolved	0.000190	<T	0.000050	mg/L		27-OCT-20	R5270077
Silicon (Si)-Dissolved	3.45		0.050	mg/L		27-OCT-20	R5270077
Silver (Ag)-Dissolved	0.0000020	<DL	0.00010	mg/L		27-OCT-20	R5270077
Sodium (Na)-Dissolved	10.8		0.10	mg/L		27-OCT-20	R5270077
Strontium (Sr)-Dissolved	0.207		0.0010	mg/L		27-OCT-20	R5270077
Sulfur (S)-Dissolved	16.6		0.50	mg/L		27-OCT-20	R5270077
Tellurium (Te)-Dissolved	0.00001	<DL	0.0010	mg/L		27-OCT-20	R5270077
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		27-OCT-20	R5270077
Thorium (Th)-Dissolved	0.00001	<DL	0.00010	mg/L		27-OCT-20	R5270077
Tin (Sn)-Dissolved	0.000010	<DL	0.0010	mg/L		27-OCT-20	R5270077
Titanium (Ti)-Dissolved	0.00090	<DL	0.0020	mg/L		27-OCT-20	R5270077
Tungsten (W)-Dissolved	0.000008	<DL	0.010	mg/L		27-OCT-20	R5270077
Uranium (U)-Dissolved	0.00363	<DL	0.0050	mg/L		27-OCT-20	R5270077
Vanadium (V)-Dissolved	0.00032	<DL	0.0010	mg/L		27-OCT-20	R5270077
Zinc (Zn)-Dissolved	0.0070	<T	0.0030	mg/L		27-OCT-20	R5270077
Zirconium (Zr)-Dissolved	0.000242	<DL	0.0010	mg/L		27-OCT-20	R5270077
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		22-OCT-20	R5269624
Chemical Oxygen Demand	43		20	mg/L	26-OCT-20	29-OCT-20	R5271073
Oil and Grease, Total	<0.2	<W	1.0	mg/L	24-OCT-20	24-OCT-20	R5268069
L2519654-3 SW27_SW_20201006 Sampled By: Client on 19-OCT-20 @ 12:31 Matrix: Water							
Field Tests							
pH, Client Supplied	7.69		0.10	pH		25-OCT-20	R5268326
Temperature, Client Supplied	.8		0	Degree C		25-OCT-20	R5268326
Physical Tests							
Color, True	37.8		2.0	CU		22-OCT-20	R5264420
Conductivity (EC)	670		1.0	uS/cm		22-OCT-20	R5265717
Hardness (as CaCO3)	293		0.51	mg/L		29-OCT-20	
pH	7.98		0.10	pH		22-OCT-20	R5265717
Total Suspended Solids	<0.5	<W	3.0	mg/L		24-OCT-20	R5268324
Total Dissolved Solids	484		20	mg/L		24-OCT-20	R5268345
Turbidity	2.19		0.10	NTU		21-OCT-20	R5262376

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2519654-3 SW27_SW_20201006 Sampled By: Client on 19-OCT-20 @ 12:31 Matrix: Water							
Physical Tests							
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		25-OCT-20	R5268422
Alkalinity, Total (as CaCO3)	195		2.0	mg/L		22-OCT-20	R5265717
Ammonia, Total (as N)	0.008	<T	0.0050	mg/L		27-OCT-20	R5269587
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		28-OCT-20	
Chloride (Cl)	21.5		0.10	mg/L	22-OCT-20	24-OCT-20	R5268235
Fluoride (F)	0.072		0.020	mg/L	22-OCT-20	24-OCT-20	R5268235
Nitrate (as N)	<0.002	<W	0.020	mg/L		24-OCT-20	R5268235
Nitrite (as N)	0.003	<DL	0.010	mg/L		24-OCT-20	R5268235
Total Kjeldahl Nitrogen	0.872		0.050	mg/L	27-OCT-20	29-OCT-20	R5271163
Orthophosphate-Dissolved (as P)	0.0044		0.0030	mg/L	25-OCT-20	25-OCT-20	R5268449
Sulfate (SO4)	128		0.30	mg/L		24-OCT-20	R5268235
Cyanides							
Cyanide, Weak Acid Diss	0.0008	<DL	0.0020	mg/L		23-OCT-20	R5267816
Cyanide, Total	0.0006	<DL	0.0020	mg/L		23-OCT-20	R5267816
Cyanide, Free	0.0003	<DL	0.0020	mg/L		23-OCT-20	R5267816
Organic / Inorganic Carbon							
Dissolved Organic Carbon	14.8		0.50	mg/L		02-NOV-20	R5279681
Total Organic Carbon	15.1		0.50	mg/L		02-NOV-20	R5279682
Total Metals							
Aluminum (Al)-Total	0.0664		0.0050	mg/L		28-OCT-20	R5271084
Antimony (Sb)-Total	0.000115	<DL	0.00060	mg/L		28-OCT-20	R5271084
Arsenic (As)-Total	0.00081	<DL	0.0010	mg/L		28-OCT-20	R5271084
Barium (Ba)-Total	0.0359		0.010	mg/L		28-OCT-20	R5271084
Beryllium (Be)-Total	0.0000032	<DL	0.0010	mg/L		28-OCT-20	R5271084
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		28-OCT-20	R5271084
Boron (B)-Total	0.0185	<DL	0.050	mg/L		28-OCT-20	R5271084
Cadmium (Cd)-Total	<0.000001	<W	0.000017	mg/L		28-OCT-20	R5271084
Calcium (Ca)-Total	67.2		0.20	mg/L		28-OCT-20	R5271084
Cesium (Cs)-Total	0.0000040	<DL	0.000010	mg/L		28-OCT-20	R5271084
Chromium (Cr)-Total	0.00030	<DL	0.0010	mg/L		28-OCT-20	R5271084
Cobalt (Co)-Total	0.000150	<DL	0.00050	mg/L		28-OCT-20	R5271084
Copper (Cu)-Total	0.00122	<T	0.0010	mg/L		28-OCT-20	R5271084
Iron (Fe)-Total	0.159		0.020	mg/L		28-OCT-20	R5271084
Lead (Pb)-Total	0.00002	<DL	0.000050	mg/L		28-OCT-20	R5271084
Lithium (Li)-Total	0.0112	<DL	0.050	mg/L		28-OCT-20	R5271084
Magnesium (Mg)-Total	30.1		0.020	mg/L		28-OCT-20	R5271084
Manganese (Mn)-Total	0.0098		0.0010	mg/L		28-OCT-20	R5271084
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		28-OCT-20	R5269974
Molybdenum (Mo)-Total	0.000975	<DL	0.0010	mg/L		28-OCT-20	R5271084
Nickel (Ni)-Total	0.00126	<DL	0.0020	mg/L		28-OCT-20	R5271084
Phosphorus (P)-Total	0.010	<DL	0.050	mg/L		28-OCT-20	R5271084

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2519654-3 SW27_SW_20201006							
Sampled By: Client on 19-OCT-20 @ 12:31							
Matrix: Water							
Total Metals							
Potassium (K)-Total	6.36		0.50	mg/L		28-OCT-20	R5271084
Rubidium (Rb)-Total	0.00223		0.00020	mg/L		28-OCT-20	R5271084
Selenium (Se)-Total	0.000160	<T	0.000050	mg/L		28-OCT-20	R5271084
Silicon (Si)-Total	4.06		0.10	mg/L		28-OCT-20	R5271084
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		28-OCT-20	R5271084
Sodium (Na)-Total	23.8		0.10	mg/L		28-OCT-20	R5271084
Strontium (Sr)-Total	0.182		0.0010	mg/L		28-OCT-20	R5271084
Sulfur (S)-Total	50.0		0.50	mg/L		28-OCT-20	R5271084
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		28-OCT-20	R5271084
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		28-OCT-20	R5271084
Thorium (Th)-Total	0.00002	<DL	0.00010	mg/L		28-OCT-20	R5271084
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		28-OCT-20	R5271084
Titanium (Ti)-Total	0.00248		0.0020	mg/L		28-OCT-20	R5271084
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		28-OCT-20	R5271084
Uranium (U)-Total	0.00220	<DL	0.0050	mg/L		28-OCT-20	R5271084
Vanadium (V)-Total	0.00060	<DL	0.0010	mg/L		28-OCT-20	R5271084
Zinc (Zn)-Total	0.0010	<DL	0.0030	mg/L		28-OCT-20	R5271084
Zirconium (Zr)-Total	0.000196	<DL	0.0010	mg/L		28-OCT-20	R5271084
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					27-OCT-20	R5269941
Aluminum (Al)-Dissolved	0.0044	<DL	0.0050	mg/L		27-OCT-20	R5270077
Antimony (Sb)-Dissolved	0.000125	<DL	0.00060	mg/L		27-OCT-20	R5270077
Arsenic (As)-Dissolved	0.000745	<DL	0.0010	mg/L		27-OCT-20	R5270077
Barium (Ba)-Dissolved	0.0365		0.010	mg/L		27-OCT-20	R5270077
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		27-OCT-20	R5270077
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		27-OCT-20	R5270077
Boron (B)-Dissolved	0.0160	<DL	0.050	mg/L		27-OCT-20	R5270077
Cadmium (Cd)-Dissolved	0.0000020	<DL	0.000017	mg/L		27-OCT-20	R5270077
Calcium (Ca)-Dissolved	67.2		0.20	mg/L		27-OCT-20	R5270077
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		27-OCT-20	R5270077
Chromium (Cr)-Dissolved	0.00008	<DL	0.0010	mg/L		27-OCT-20	R5270077
Cobalt (Co)-Dissolved	0.000110	<DL	0.00050	mg/L		27-OCT-20	R5270077
Copper (Cu)-Dissolved	0.00100	<T	0.0010	mg/L		27-OCT-20	R5270077
Iron (Fe)-Dissolved	0.0570		0.020	mg/L		27-OCT-20	R5270077
Lead (Pb)-Dissolved	<0.00001	<W	0.000050	mg/L		27-OCT-20	R5270077
Lithium (Li)-Dissolved	0.0108	<DL	0.050	mg/L		27-OCT-20	R5270077
Magnesium (Mg)-Dissolved	30.5		0.020	mg/L		27-OCT-20	R5270077
Manganese (Mn)-Dissolved	0.00782		0.0010	mg/L		27-OCT-20	R5270077
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		28-OCT-20	R5269971
Molybdenum (Mo)-Dissolved	0.000996	<DL	0.0010	mg/L		27-OCT-20	R5270077
Nickel (Ni)-Dissolved	0.00110	<DL	0.0020	mg/L		27-OCT-20	R5270077

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2519654-3 SW27_SW_20201006 Sampled By: Client on 19-OCT-20 @ 12:31 Matrix: Water							
Dissolved Metals							
Phosphorus (P)-Dissolved	0.010	<DL	0.050	mg/L		27-OCT-20	R5270077
Potassium (K)-Dissolved	6.30		0.50	mg/L		27-OCT-20	R5270077
Rubidium (Rb)-Dissolved	0.00220		0.00020	mg/L		27-OCT-20	R5270077
Selenium (Se)-Dissolved	0.000180	<T	0.000050	mg/L		27-OCT-20	R5270077
Silicon (Si)-Dissolved	3.93		0.050	mg/L		27-OCT-20	R5270077
Silver (Ag)-Dissolved	0.0000020	<DL	0.00010	mg/L		27-OCT-20	R5270077
Sodium (Na)-Dissolved	23.2		0.10	mg/L		27-OCT-20	R5270077
Strontium (Sr)-Dissolved	0.177		0.0010	mg/L		27-OCT-20	R5270077
Sulfur (S)-Dissolved	50.6		0.50	mg/L		27-OCT-20	R5270077
Tellurium (Te)-Dissolved	0.00001	<DL	0.0010	mg/L		27-OCT-20	R5270077
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		27-OCT-20	R5270077
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		27-OCT-20	R5270077
Tin (Sn)-Dissolved	0.000010	<DL	0.0010	mg/L		27-OCT-20	R5270077
Titanium (Ti)-Dissolved	0.00060	<DL	0.0020	mg/L		27-OCT-20	R5270077
Tungsten (W)-Dissolved	0.000004	<DL	0.010	mg/L		27-OCT-20	R5270077
Uranium (U)-Dissolved	0.00204	<DL	0.0050	mg/L		27-OCT-20	R5270077
Vanadium (V)-Dissolved	0.00040	<DL	0.0010	mg/L		27-OCT-20	R5270077
Zinc (Zn)-Dissolved	0.0042	<T	0.0030	mg/L		27-OCT-20	R5270077
Zirconium (Zr)-Dissolved	0.000186	<DL	0.0010	mg/L		27-OCT-20	R5270077
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		22-OCT-20	R5269624
Chemical Oxygen Demand	50		20	mg/L	26-OCT-20	29-OCT-20	R5271073
Oil and Grease, Total	0.4	<DL	1.0	mg/L	24-OCT-20	24-OCT-20	R5268069
L2519654-4 SW22A_SW_20201006 Sampled By: Client on 19-OCT-20 @ 13:10 Matrix: Water							
Field Tests							
pH, Client Supplied	7.73		0.10	pH		25-OCT-20	R5268326
Temperature, Client Supplied	2.5		0	Degree C		25-OCT-20	R5268326
Physical Tests							
Color, True	25.5		2.0	CU		22-OCT-20	R5264420
Conductivity (EC)	908		1.0	uS/cm		22-OCT-20	R5265717
Hardness (as CaCO3)	330		0.51	mg/L		29-OCT-20	
pH	7.94		0.10	pH		22-OCT-20	R5265717
Total Suspended Solids	2.5	<DL	3.0	mg/L		24-OCT-20	R5268324
Total Dissolved Solids	638		20	mg/L		24-OCT-20	R5268345
Turbidity	3.22		0.10	NTU		21-OCT-20	R5262376
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		25-OCT-20	R5268422
Alkalinity, Total (as CaCO3)	184		2.0	mg/L		22-OCT-20	R5265717
Ammonia, Total (as N)	0.068	<T	0.0050	mg/L		27-OCT-20	R5269587
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		28-OCT-20	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2519654-4 SW22A_SW_20201006							
Sampled By: Client on 19-OCT-20 @ 13:10							
Matrix: Water							
Anions and Nutrients							
Chloride (Cl)	23.3		0.10	mg/L	22-OCT-20	24-OCT-20	R5268235
Fluoride (F)	0.064		0.020	mg/L	22-OCT-20	24-OCT-20	R5268235
Nitrate (as N)	0.160	<T	0.020	mg/L		24-OCT-20	R5268235
Nitrite (as N)	0.038	<T	0.010	mg/L		24-OCT-20	R5268235
Total Kjeldahl Nitrogen	0.952		0.050	mg/L	27-OCT-20	29-OCT-20	R5271163
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	25-OCT-20	25-OCT-20	R5268449
Sulfate (SO4)	286		0.30	mg/L		24-OCT-20	R5268235
Cyanides							
Cyanide, Weak Acid Diss	0.0006	<DL	0.0020	mg/L		23-OCT-20	R5267816
Cyanide, Total	0.0004	<DL	0.0020	mg/L		23-OCT-20	R5267816
Cyanide, Free	0.0003	<DL	0.0020	mg/L		23-OCT-20	R5267816
Organic / Inorganic Carbon							
Dissolved Organic Carbon	15.3		0.50	mg/L		02-NOV-20	R5279681
Total Organic Carbon	15.7		0.50	mg/L		02-NOV-20	R5279682
Total Metals							
Aluminum (Al)-Total	0.0752		0.0050	mg/L		28-OCT-20	R5271084
Antimony (Sb)-Total	0.00481	<T	0.00060	mg/L		28-OCT-20	R5271084
Arsenic (As)-Total	0.00258	<T	0.0010	mg/L		28-OCT-20	R5271084
Barium (Ba)-Total	0.0404		0.010	mg/L		28-OCT-20	R5271084
Beryllium (Be)-Total	0.0000011	<DL	0.0010	mg/L		28-OCT-20	R5271084
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		28-OCT-20	R5271084
Boron (B)-Total	0.0575		0.050	mg/L		28-OCT-20	R5271084
Cadmium (Cd)-Total	0.000003	<DL	0.000017	mg/L		28-OCT-20	R5271084
Calcium (Ca)-Total	92.0		0.20	mg/L		28-OCT-20	R5271084
Cesium (Cs)-Total	0.000207		0.000010	mg/L		28-OCT-20	R5271084
Chromium (Cr)-Total	0.00024	<DL	0.0010	mg/L		28-OCT-20	R5271084
Cobalt (Co)-Total	0.000615	<T	0.00050	mg/L		28-OCT-20	R5271084
Copper (Cu)-Total	0.00096	<DL	0.0010	mg/L		28-OCT-20	R5271084
Iron (Fe)-Total	0.222		0.020	mg/L		28-OCT-20	R5271084
Lead (Pb)-Total	0.00008	<T	0.000050	mg/L		28-OCT-20	R5271084
Lithium (Li)-Total	0.0108	<DL	0.050	mg/L		28-OCT-20	R5271084
Magnesium (Mg)-Total	24.3		0.020	mg/L		28-OCT-20	R5271084
Manganese (Mn)-Total	0.0338		0.0010	mg/L		28-OCT-20	R5271084
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		28-OCT-20	R5269974
Molybdenum (Mo)-Total	0.00353	<T	0.0010	mg/L		28-OCT-20	R5271084
Nickel (Ni)-Total	0.00114	<DL	0.0020	mg/L		28-OCT-20	R5271084
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		28-OCT-20	R5271084
Potassium (K)-Total	23.6		0.50	mg/L		28-OCT-20	R5271084
Rubidium (Rb)-Total	0.0123		0.00020	mg/L		28-OCT-20	R5271084
Selenium (Se)-Total	0.000205	<T	0.000050	mg/L		28-OCT-20	R5271084
Silicon (Si)-Total	2.70		0.10	mg/L		28-OCT-20	R5271084
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		28-OCT-20	R5271084

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2519654-4 SW22A_SW_20201006							
Sampled By: Client on 19-OCT-20 @ 13:10							
Matrix: Water							
Total Metals							
Sodium (Na)-Total	53.2		0.10	mg/L		28-OCT-20	R5271084
Strontium (Sr)-Total	0.324		0.0010	mg/L		28-OCT-20	R5271084
Sulfur (S)-Total	98.0		0.50	mg/L		28-OCT-20	R5271084
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		28-OCT-20	R5271084
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		28-OCT-20	R5271084
Thorium (Th)-Total	0.00002	<DL	0.00010	mg/L		28-OCT-20	R5271084
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		28-OCT-20	R5271084
Titanium (Ti)-Total	0.00270		0.0020	mg/L		28-OCT-20	R5271084
Tungsten (W)-Total	0.00005	<DL	0.010	mg/L		28-OCT-20	R5271084
Uranium (U)-Total	0.00168	<DL	0.0050	mg/L		28-OCT-20	R5271084
Vanadium (V)-Total	0.00055	<DL	0.0010	mg/L		28-OCT-20	R5271084
Zinc (Zn)-Total	0.0020	<DL	0.0030	mg/L		28-OCT-20	R5271084
Zirconium (Zr)-Total	0.000174	<DL	0.0010	mg/L		28-OCT-20	R5271084
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					27-OCT-20	R5269941
Aluminum (Al)-Dissolved	0.0042	<DL	0.0050	mg/L		27-OCT-20	R5270077
Antimony (Sb)-Dissolved	0.00505		0.00060	mg/L		27-OCT-20	R5270077
Arsenic (As)-Dissolved	0.00227	<T	0.0010	mg/L		27-OCT-20	R5270077
Barium (Ba)-Dissolved	0.0409		0.010	mg/L		27-OCT-20	R5270077
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		27-OCT-20	R5270077
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		27-OCT-20	R5270077
Boron (B)-Dissolved	0.0480	<DL	0.050	mg/L		27-OCT-20	R5270077
Cadmium (Cd)-Dissolved	0.0000020	<DL	0.000017	mg/L		27-OCT-20	R5270077
Calcium (Ca)-Dissolved	91.8		0.20	mg/L		27-OCT-20	R5270077
Cesium (Cs)-Dissolved	0.000187		0.000010	mg/L		27-OCT-20	R5270077
Chromium (Cr)-Dissolved	0.00005	<DL	0.0010	mg/L		27-OCT-20	R5270077
Cobalt (Co)-Dissolved	0.000534	<T	0.00050	mg/L		27-OCT-20	R5270077
Copper (Cu)-Dissolved	0.00080	<DL	0.0010	mg/L		27-OCT-20	R5270077
Iron (Fe)-Dissolved	0.0730		0.020	mg/L		27-OCT-20	R5270077
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		27-OCT-20	R5270077
Lithium (Li)-Dissolved	0.0106	<DL	0.050	mg/L		27-OCT-20	R5270077
Magnesium (Mg)-Dissolved	24.5		0.020	mg/L		27-OCT-20	R5270077
Manganese (Mn)-Dissolved	0.0294		0.0010	mg/L		27-OCT-20	R5270077
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		28-OCT-20	R5269971
Molybdenum (Mo)-Dissolved	0.00342	<T	0.0010	mg/L		27-OCT-20	R5270077
Nickel (Ni)-Dissolved	0.00098	<DL	0.0020	mg/L		27-OCT-20	R5270077
Phosphorus (P)-Dissolved	0.005	<DL	0.050	mg/L		27-OCT-20	R5270077
Potassium (K)-Dissolved	23.3		0.50	mg/L		27-OCT-20	R5270077
Rubidium (Rb)-Dissolved	0.0122		0.00020	mg/L		27-OCT-20	R5270077
Selenium (Se)-Dissolved	0.000185	<T	0.000050	mg/L		27-OCT-20	R5270077
Silicon (Si)-Dissolved	2.48		0.050	mg/L		27-OCT-20	R5270077

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2519654-4 SW22A_SW_20201006							
Sampled By: Client on 19-OCT-20 @ 13:10							
Matrix: Water							
Dissolved Metals							
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		27-OCT-20	R5270077
Sodium (Na)-Dissolved	51.7		0.10	mg/L		27-OCT-20	R5270077
Strontium (Sr)-Dissolved	0.324		0.0010	mg/L		27-OCT-20	R5270077
Sulfur (S)-Dissolved	99.2		0.50	mg/L		27-OCT-20	R5270077
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		27-OCT-20	R5270077
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		27-OCT-20	R5270077
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		27-OCT-20	R5270077
Tin (Sn)-Dissolved	0.000005	<DL	0.0010	mg/L		27-OCT-20	R5270077
Titanium (Ti)-Dissolved	0.00024	<DL	0.0020	mg/L		27-OCT-20	R5270077
Tungsten (W)-Dissolved	0.000046	<DL	0.010	mg/L		27-OCT-20	R5270077
Uranium (U)-Dissolved	0.00151	<DL	0.0050	mg/L		27-OCT-20	R5270077
Vanadium (V)-Dissolved	0.00030	<DL	0.0010	mg/L		27-OCT-20	R5270077
Zinc (Zn)-Dissolved	0.0016	<DL	0.0030	mg/L		27-OCT-20	R5270077
Zirconium (Zr)-Dissolved	0.000138	<DL	0.0010	mg/L		27-OCT-20	R5270077
Aggregate Organics							
Biochemical Oxygen Demand	3.0		2.0	mg/L		22-OCT-20	R5269624
Chemical Oxygen Demand	54		20	mg/L	26-OCT-20	29-OCT-20	R5271073
Oil and Grease, Total	0.2	<DL	1.0	mg/L	24-OCT-20	24-OCT-20	R5268069
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		14-NOV-20	R5286984

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L2519654-1, -2, -3, -4
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2519654-1, -2, -3, -4
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2519654-1, -2, -3, -4
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L2519654-1, -2, -3, -4
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2519654-1, -2, -3, -4
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2519654-1, -2, -3, -4
Matrix Spike	Uranium (U)-Dissolved	MS-B	L2519654-1, -2, -3, -4

Sample Parameter Qualifier key listed:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-MISA-TB	Effluent	Acidity (as CaCO ₃)	APHA 2310 B-POTENTIOMETRIC TITRATION
Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample.			
ALK-MISA-TB	Effluent	Alkalinity, Total (as CaCO ₃)	APHA 2320 B-Auto-Pot. Titration
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
BOD-TB	Water	Biochemical Oxygen Demand (BOD)	APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND
All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation.			
CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
CN-FREE-MISA-CFA-WT	Effluent	Free Cyanide by Continuous Flow Analyzer	ASTM D7237-10 (modified)
This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis.			
CN-T-MISA-CFA-WT	Effluent	Total Cyanide by CFA	ISO 14403-2:2012 (modified)
This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis.			
Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.			
CN-WAD-MISA-CFA-WT	Effluent	Weak Acid Dissociable Cyanide by CFA	APHA 4500-CN CYANIDE (modified)
This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.			
COD-TB	Water	Chemical Oxygen Demand	APHA 5220D
This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.			
COLOUR-TB	Water	Colour, True	APHA 2120 C
True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard.			
DOC-MISA-WP	Effluent	Diss Organic Carbon by Combustion (MISA)	APHA 5310 B-WP
Filtered (0.45 um) sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon is oxidized to CO ₂ which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.			
EC-MISA-TB	Effluent	Conductivity (EC)	APHA 2510 B-ELECTRODE
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity			

Reference Information

electrode.

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)
-----------	-------	-------------------------	-----------------

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Effluent	Hardness (as CaCO ₃)	CALCULATION
------------------	----------	----------------------------------	-------------

HG-DIS-WT	Effluent	Mercury (Hg)-Dissolved for MISA	SW846 7470A
-----------	----------	---------------------------------	-------------

HG-TOT-WT	Effluent	Mercury (Hg)-Total for MISA	SW846 7470A
-----------	----------	-----------------------------	-------------

MET-D-MISA-TB	Effluent	Dissolved Metals in Water (MISA)	APHA 3030B/6020B (mod)
---------------	----------	----------------------------------	------------------------

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-MISA-TB	Effluent	Total Metals in Water (MISA)	EPA 200.2/6020B (mod)
---------------	----------	------------------------------	-----------------------

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-MISA-F-TB	Effluent	Ammonia by Discrete Analyzer	catnr 157/158 062217/99321057 (modified)
---------------	----------	------------------------------	--

Ammonia is determined by Flow-injection analysis with fluorescence detection

NH3-UNION-CALC-TB	Effluent	Un-ionized ammonia	Calculation
-------------------	----------	--------------------	-------------

NO2-MISA-IC-TB	Effluent	Nitrite in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

NO3-MISA-IC-TB	Effluent	Nitrate in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

OGG-TOT-WT	Effluent	Oil and Grease, Total for MISA	APHA 5520 B-Hexane Gravimetric
------------	----------	--------------------------------	--------------------------------

PH-CLIENT-TB	Water	pH	Result supplied by Client
--------------	-------	----	---------------------------

PH-MISA-TB	Effluent	pH	APHA 4500-H-ELECTRODE
------------	----------	----	-----------------------

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

PO4-DO-COL-TB	Water	Dissolved Orthophosphate	APHA 4500-P B, F, G (modified)
---------------	-------	--------------------------	--------------------------------

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

RA226-MMER-BE	Water	Radium 226	Radium Isotopes by Alpha Spectrometry
---------------	-------	------------	---------------------------------------

Determination of Gamma Emitting Radionuclides In Water and Solids by Gamma Spectrometry.

SO4-MISA-IC-TB	Effluent	Sulfate in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

TDS-MISA-TB	Effluent	Total Dissolved Solids	APHA 2540 C (modified)
-------------	----------	------------------------	------------------------

Aqueous matrices are analyzed using gravimetry and evaporation

TEMP-CLIENT-TB	Water	Temperature	Result supplied by Client
----------------	-------	-------------	---------------------------

TKN-F-TB	Water	TKN in Water by Fluorescence	catnr 157/158, 062818/99334821
----------	-------	------------------------------	--------------------------------

Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection

TOC-MISA-WP	Effluent	Total Organic Carbon by Combustion (MISA)	APHA 5310 B-WP
-------------	----------	---	----------------

Reference Information

Sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon is oxidized to CO₂ which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.

TSS-MISA-TB Effluent Total Suspended Solids APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

TURBIDITY-TB Water Turbidity APHA 2130 B-Nephelometer

Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA
BE	BECQUEREL LABORATORIES INC. - MISSISSAUGA, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2519654

Report Date: 18-NOV-20

Page 1 of 16

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BOD-TB		Water						
Batch	R5269624							
WG3429873-2	LCS							
Biochemical Oxygen Demand			91.2		%		85-115	22-OCT-20
WG3429873-1	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	22-OCT-20
CL-L-IC-N-TB		Water						
Batch	R5268235							
WG3429963-3	DUP	L2519662-7						
Chloride (Cl)		35.9	37.1		mg/L	3.4	20	24-OCT-20
WG3429963-2	LCS							
Chloride (Cl)			100.1		%		90-110	24-OCT-20
WG3429963-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	24-OCT-20
WG3429963-4	MS	L2519662-9						
Chloride (Cl)			111.6		%		75-125	24-OCT-20
COD-TB		Water						
Batch	R5271073							
WG3432332-3	DUP	L2519411-1						
Chemical Oxygen Demand		122	124		mg/L	1.0	20	29-OCT-20
WG3432332-2	LCS							
Chemical Oxygen Demand			108.6		%		85-115	29-OCT-20
WG3432332-1	MB							
Chemical Oxygen Demand			<20		mg/L		20	29-OCT-20
WG3432332-4	MS	L2519411-2						
Chemical Oxygen Demand			103.6		%		75-125	29-OCT-20
COLOUR-TB		Water						
Batch	R5264420							
WG3429957-3	DUP	L2519654-4						
Color, True		25.5	25.1		CU	1.6	20	22-OCT-20
WG3429957-2	LCS							
Color, True			98.5		%		85-115	22-OCT-20
WG3429957-1	MB							
Color, True			<2.0		CU		2	22-OCT-20
F-IC-N-TB		Water						
Batch	R5268235							
WG3429963-2	LCS							
Fluoride (F)			100.6		%		90-110	24-OCT-20
WG3429963-1	MB							

Quality Control Report

Workorder: L2519654

Report Date: 18-NOV-20

Page 2 of 16

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F-IC-N-TB								
	Water							
Batch	R5268235							
WG3429963-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	24-OCT-20
PO4-DO-COL-TB								
	Water							
Batch	R5268449							
WG3429942-3	DUP	L2519654-2						
Orthophosphate-Dissolved (as P)		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	25-OCT-20
WG3429942-2	LCS							
Orthophosphate-Dissolved (as P)			112.3		%		80-120	25-OCT-20
WG3429942-1	MB							
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	25-OCT-20
WG3429942-4	MS	L2519654-3						
Orthophosphate-Dissolved (as P)			100.4		%		70-130	25-OCT-20
TKN-F-TB								
	Water							
Batch	R5271163							
WG3432318-3	DUP	L2519654-1						
Total Kjeldahl Nitrogen		1.02	1.01		mg/L	1.6	20	29-OCT-20
WG3432318-2	LCS							
Total Kjeldahl Nitrogen			98.3		%		75-125	29-OCT-20
WG3432318-1	MB							
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	29-OCT-20
WG3432318-4	MS	L2519654-2						
Total Kjeldahl Nitrogen			98.9		%		70-130	29-OCT-20
TURBIDITY-TB								
	Water							
Batch	R5262376							
WG3429495-3	DUP	L2519586-2						
Turbidity		0.44	0.44		NTU	1.1	15	21-OCT-20
WG3429495-2	LCS							
Turbidity			99.5		%		85-115	21-OCT-20
WG3429495-1	MB							
Turbidity			<0.10		NTU		0.1	21-OCT-20
ACY-MISA-TB								
	Effluent							
Batch	R5268422							
WG3429931-3	DUP	L2519654-1						
Acidity (as CaCO3)		<0.2	<0.2	RPD-NA	mg/L	N/A	20	25-OCT-20
WG3429931-2	LCS							
Acidity (as CaCO3)			97.5		%		85-115	25-OCT-20

Quality Control Report

Workorder: L2519654

Report Date: 18-NOV-20

Page 3 of 16

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-MISA-TB Effluent								
Batch	R5268422							
WG3429931-1	MB							
Acidity (as CaCO3)			1.6		mg/L		4	25-OCT-20
ALK-MISA-TB Effluent								
Batch	R5265717							
WG3429916-2	LCS							
Alkalinity, Total (as CaCO3)			107.5		%		85-115	22-OCT-20
WG3429916-1	MB							
Alkalinity, Total (as CaCO3)			0.4		mg/L		2	22-OCT-20
Alkalinity, Phenolphthalein			<0.2		mg/L		2	22-OCT-20
CN-FREE-MISA-CFA-WT Effluent								
Batch	R5267816							
WG3430792-2	LCS							
Cyanide, Free			90.1		%		80-120	23-OCT-20
WG3430792-1	MB							
Cyanide, Free			0.0004		mg/L		0.002	23-OCT-20
CN-T-MISA-CFA-WT Effluent								
Batch	R5267816							
WG3430792-3	DUP	L2518492-2						
Cyanide, Total		0.0134	0.0136		mg/L	1.1	20	23-OCT-20
WG3430792-2	LCS							
Cyanide, Total			92.6		%		80-120	23-OCT-20
WG3430792-1	MB							
Cyanide, Total			<0.0002		mg/L		0.002	23-OCT-20
WG3430792-4	MS	L2518492-2						
Cyanide, Total			89.6		%		75-125	23-OCT-20
CN-WAD-MISA-CFA-WT Effluent								
Batch	R5267816							
WG3430792-3	DUP	L2518492-2						
Cyanide, Weak Acid Diss		0.0118	0.0116		mg/L	1.7	20	23-OCT-20
WG3430792-2	LCS							
Cyanide, Weak Acid Diss			99.5		%		80-120	23-OCT-20
WG3430792-1	MB							
Cyanide, Weak Acid Diss			<0.0001		mg/L		0.002	23-OCT-20
WG3430792-4	MS	L2518492-2						
Cyanide, Weak Acid Diss			111.1		%		75-125	23-OCT-20
DOC-MISA-WP Effluent								

Quality Control Report

Workorder: L2519654

Report Date: 18-NOV-20

Page 4 of 16

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DOC-MISA-WP								
	Effluent							
Batch	R5270323							
WG3434071-2	LCS							
Dissolved Organic Carbon			97.7		%		80-120	27-OCT-20
WG3434071-1	MB							
Dissolved Organic Carbon			0.05		mg/L		0.5	27-OCT-20
Batch	R5279681							
WG3439359-2	LCS							
Dissolved Organic Carbon			98.0		%		80-120	02-NOV-20
WG3439359-1	MB							
Dissolved Organic Carbon			<0.05		mg/L		0.5	02-NOV-20
EC-MISA-TB								
	Effluent							
Batch	R5265717							
WG3429916-2	LCS							
Conductivity (EC)			103.6		%		90-110	22-OCT-20
WG3429916-1	MB							
Conductivity (EC)			1.4		uS/cm		2	22-OCT-20
HG-DIS-WT								
	Effluent							
Batch	R5269971							
WG3433015-3	DUP	L2519654-1						
Mercury (Hg)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	28-OCT-20
WG3433015-2	LCS							
Mercury (Hg)-Dissolved			99.9		%		80-120	28-OCT-20
WG3433015-1	MB							
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.00003	28-OCT-20
WG3433015-4	MS	L2519654-2						
Mercury (Hg)-Dissolved			107.7		%		70-130	28-OCT-20
HG-TOT-WT								
	Effluent							
Batch	R5269974							
WG3433017-3	DUP	L2519654-3						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	28-OCT-20
WG3433017-2	LCS							
Mercury (Hg)-Total			103.0		%		80-120	28-OCT-20
WG3433017-1	MB							
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	28-OCT-20
WG3433017-4	MS	L2519654-4						
Mercury (Hg)-Total			106.2		%		70-130	28-OCT-20
MET-D-MISA-TB								
	Effluent							

Quality Control Report

Workorder: L2519654

Report Date: 18-NOV-20

Page 5 of 16

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB								
	Effluent							
Batch	R5270077							
WG3432945-23 DUP		L2519662-3						
Aluminum (Al)-Dissolved		0.0006	0.0008	RPD-NA	mg/L	N/A	20	27-OCT-20
Antimony (Sb)-Dissolved		0.000015	0.000010	RPD-NA	mg/L	N/A	20	27-OCT-20
Arsenic (As)-Dissolved		0.0105	0.0104		mg/L	1.1	20	27-OCT-20
Barium (Ba)-Dissolved		0.104	0.106		mg/L	1.8	20	27-OCT-20
Beryllium (Be)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	27-OCT-20
Bismuth (Bi)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	27-OCT-20
Boron (B)-Dissolved		0.0680	0.0645		mg/L	5.8	20	27-OCT-20
Cadmium (Cd)-Dissolved		0.0000050	0.0000060	RPD-NA	mg/L	N/A	20	27-OCT-20
Calcium (Ca)-Dissolved		84.3	84.4		mg/L	0.2	20	27-OCT-20
Cesium (Cs)-Dissolved		0.0000125	0.0000125		mg/L	0.1	20	27-OCT-20
Chromium (Cr)-Dissolved		<0.00001	0.00002	RPD-NA	mg/L	N/A	20	27-OCT-20
Cobalt (Co)-Dissolved		0.000590	0.000596		mg/L	1.2	20	27-OCT-20
Copper (Cu)-Dissolved		0.00004	0.00006	RPD-NA	mg/L	N/A	20	27-OCT-20
Iron (Fe)-Dissolved		0.942	0.942		mg/L	0.0	20	27-OCT-20
Lead (Pb)-Dissolved		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	27-OCT-20
Lithium (Li)-Dissolved		0.0368	0.0372	RPD-NA	mg/L	N/A	20	27-OCT-20
Magnesium (Mg)-Dissolved		45.4	46.0		mg/L	1.4	20	27-OCT-20
Manganese (Mn)-Dissolved		0.453	0.453		mg/L	0.1	20	27-OCT-20
Molybdenum (Mo)-Dissolved		0.00391	0.00387		mg/L	0.8	20	27-OCT-20
Nickel (Ni)-Dissolved		0.00026	0.00028	RPD-NA	mg/L	N/A	20	27-OCT-20
Phosphorus (P)-Dissolved		0.020	0.015	RPD-NA	mg/L	N/A	20	27-OCT-20
Potassium (K)-Dissolved		3.45	3.39		mg/L	1.9	20	27-OCT-20
Rubidium (Rb)-Dissolved		0.00219	0.00227		mg/L	3.8	20	27-OCT-20
Selenium (Se)-Dissolved		<0.000005	0.000015	RPD-NA	mg/L	N/A	20	27-OCT-20
Silicon (Si)-Dissolved		11.2	11.2		mg/L	0.6	20	27-OCT-20
Silver (Ag)-Dissolved		0.0000010	0.0000010	RPD-NA	mg/L	N/A	20	27-OCT-20
Sodium (Na)-Dissolved		12.3	12.3		mg/L	0.1	20	27-OCT-20
Strontium (Sr)-Dissolved		0.501	0.495		mg/L	1.3	20	27-OCT-20
Sulfur (S)-Dissolved		6.4	6.0		mg/L	6.9	20	27-OCT-20
Tellurium (Te)-Dissolved		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	27-OCT-20
Thallium (Tl)-Dissolved		0.000004	0.000006	RPD-NA	mg/L	N/A	20	27-OCT-20
Thorium (Th)-Dissolved		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	27-OCT-20
Tin (Sn)-Dissolved		0.000010	<0.000005		mg/L			27-OCT-20

Quality Control Report

Workorder: L2519654

Report Date: 18-NOV-20

Page 6 of 16

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB								
	Effluent							
Batch	R5270077							
WG3432945-23 DUP		L2519662-3						
Tin (Sn)-Dissolved		0.000010	<0.000005	RPD-NA	mg/L	N/A	20	27-OCT-20
Titanium (Ti)-Dissolved		<0.00002	<0.00002	RPD-NA	mg/L	N/A	20	27-OCT-20
Tungsten (W)-Dissolved		0.000034	0.000036	RPD-NA	mg/L	N/A	20	27-OCT-20
Uranium (U)-Dissolved		0.00804	0.00811		mg/L	0.8	20	27-OCT-20
Vanadium (V)-Dissolved		0.00010	0.00006	RPD-NA	mg/L	N/A	20	27-OCT-20
Zinc (Zn)-Dissolved		0.0012	0.0010	RPD-NA	mg/L	N/A	20	27-OCT-20
Zirconium (Zr)-Dissolved		0.000040	0.000046	RPD-NA	mg/L	N/A	20	27-OCT-20
WG3432945-22 LCS								
Aluminum (Al)-Dissolved			100.3		%		80-120	27-OCT-20
Antimony (Sb)-Dissolved			105.6		%		80-120	27-OCT-20
Arsenic (As)-Dissolved			104.5		%		80-120	27-OCT-20
Barium (Ba)-Dissolved			99.5		%		80-120	27-OCT-20
Beryllium (Be)-Dissolved			99.5		%		80-120	27-OCT-20
Bismuth (Bi)-Dissolved			96.9		%		80-120	27-OCT-20
Boron (B)-Dissolved			87.9		%		80-120	27-OCT-20
Cadmium (Cd)-Dissolved			99.1		%		80-120	27-OCT-20
Calcium (Ca)-Dissolved			99.1		%		80-120	27-OCT-20
Cesium (Cs)-Dissolved			100.3		%		80-120	27-OCT-20
Chromium (Cr)-Dissolved			98.3		%		80-120	27-OCT-20
Cobalt (Co)-Dissolved			98.6		%		80-120	27-OCT-20
Copper (Cu)-Dissolved			99.3		%		80-120	27-OCT-20
Iron (Fe)-Dissolved			113.9		%		80-120	27-OCT-20
Lead (Pb)-Dissolved			100.8		%		80-120	27-OCT-20
Lithium (Li)-Dissolved			101.4		%		80-120	27-OCT-20
Magnesium (Mg)-Dissolved			105.5		%		80-120	27-OCT-20
Manganese (Mn)-Dissolved			101.9		%		80-120	27-OCT-20
Molybdenum (Mo)-Dissolved			100.2		%		80-120	27-OCT-20
Nickel (Ni)-Dissolved			100.5		%		80-120	27-OCT-20
Phosphorus (P)-Dissolved			109.0		%		70-130	27-OCT-20
Potassium (K)-Dissolved			101.9		%		80-120	27-OCT-20
Rubidium (Rb)-Dissolved			100.4		%		80-120	27-OCT-20
Selenium (Se)-Dissolved			99.2		%		80-120	27-OCT-20
Silicon (Si)-Dissolved			105.1		%		60-140	27-OCT-20

Quality Control Report

Workorder: L2519654

Report Date: 18-NOV-20

Page 7 of 16

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB	Effluent							
Batch	R5270077							
WG3432945-22 LCS								
Silver (Ag)-Dissolved			102.0		%		80-120	27-OCT-20
Sodium (Na)-Dissolved			103.6		%		80-120	27-OCT-20
Strontium (Sr)-Dissolved			99.8		%		80-120	27-OCT-20
Sulfur (S)-Dissolved			100.0		%		80-120	27-OCT-20
Tellurium (Te)-Dissolved			106.2		%		80-120	27-OCT-20
Thallium (Tl)-Dissolved			100.5		%		80-120	27-OCT-20
Thorium (Th)-Dissolved			98.7		%		80-120	27-OCT-20
Tin (Sn)-Dissolved			100.2		%		80-120	27-OCT-20
Titanium (Ti)-Dissolved			97.6		%		80-120	27-OCT-20
Tungsten (W)-Dissolved			106.1		%		80-120	27-OCT-20
Uranium (U)-Dissolved			96.6		%		80-120	27-OCT-20
Vanadium (V)-Dissolved			101.0		%		80-120	27-OCT-20
Zinc (Zn)-Dissolved			97.5		%		80-120	27-OCT-20
Zirconium (Zr)-Dissolved			100.2		%		80-120	27-OCT-20
WG3432945-21 MB								
Aluminum (Al)-Dissolved			<0.0002		mg/L		0.005	27-OCT-20
Antimony (Sb)-Dissolved			<0.000005		mg/L		0.0006	27-OCT-20
Arsenic (As)-Dissolved			0.0000060		mg/L		0.001	27-OCT-20
Barium (Ba)-Dissolved			<0.000005		mg/L		0.01	27-OCT-20
Beryllium (Be)-Dissolved			<0.000002		mg/L		0.001	27-OCT-20
Bismuth (Bi)-Dissolved			<0.000002		mg/L		0.001	27-OCT-20
Boron (B)-Dissolved			0.0010		mg/L		0.05	27-OCT-20
Cadmium (Cd)-Dissolved			<0.000000E		mg/L		0.000017	27-OCT-20
Calcium (Ca)-Dissolved			0.002		mg/L		0.2	27-OCT-20
Cesium (Cs)-Dissolved			<0.000000E		mg/L		0.00001	27-OCT-20
Chromium (Cr)-Dissolved			<0.00001		mg/L		0.001	27-OCT-20
Cobalt (Co)-Dissolved			<0.000002		mg/L		0.0005	27-OCT-20
Copper (Cu)-Dissolved			<0.00002		mg/L		0.001	27-OCT-20
Iron (Fe)-Dissolved			<0.0005		mg/L		0.02	27-OCT-20
Lead (Pb)-Dissolved			<0.00001		mg/L		0.00005	27-OCT-20
Lithium (Li)-Dissolved			<0.0002		mg/L		0.05	27-OCT-20
Magnesium (Mg)-Dissolved			<0.0005		mg/L		0.02	27-OCT-20
Manganese (Mn)-Dissolved			<0.00002		mg/L		0.001	27-OCT-20
Molybdenum (Mo)-Dissolved			<0.000002		mg/L		0.001	27-OCT-20

Quality Control Report

Workorder: L2519654

Report Date: 18-NOV-20

Page 8 of 16

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB								
	Effluent							
Batch	R5270077							
WG3432945-21 MB								
Nickel (Ni)-Dissolved			<0.00002		mg/L		0.002	27-OCT-20
Phosphorus (P)-Dissolved			<0.005		mg/L		0.05	27-OCT-20
Potassium (K)-Dissolved			<0.01		mg/L		0.5	27-OCT-20
Rubidium (Rb)-Dissolved			<0.000002		mg/L		0.0002	27-OCT-20
Selenium (Se)-Dissolved			<0.000005		mg/L		0.00005	27-OCT-20
Silicon (Si)-Dissolved			<0.005		mg/L		0.05	27-OCT-20
Silver (Ag)-Dissolved			0.0000010		mg/L		0.0001	27-OCT-20
Sodium (Na)-Dissolved			0.010		mg/L		0.1	27-OCT-20
Strontium (Sr)-Dissolved			<0.00002		mg/L		0.001	27-OCT-20
Sulfur (S)-Dissolved			<0.2		mg/L		0.5	27-OCT-20
Tellurium (Te)-Dissolved			<0.00001		mg/L		0.001	27-OCT-20
Thallium (Tl)-Dissolved			<0.000002		mg/L		0.0003	27-OCT-20
Thorium (Th)-Dissolved			<0.00001		mg/L		0.0001	27-OCT-20
Tin (Sn)-Dissolved			<0.000005		mg/L		0.001	27-OCT-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.002	27-OCT-20
Tungsten (W)-Dissolved			<0.000002		mg/L		0.01	27-OCT-20
Uranium (U)-Dissolved			<0.0000005		mg/L		0.005	27-OCT-20
Vanadium (V)-Dissolved			<0.00002		mg/L		0.001	27-OCT-20
Zinc (Zn)-Dissolved			0.0002		mg/L		0.003	27-OCT-20
Zirconium (Zr)-Dissolved			<0.000002		mg/L		0.001	27-OCT-20
WG3432945-24 MS		L2519662-4						
Aluminum (Al)-Dissolved			103.8		%		70-130	27-OCT-20
Antimony (Sb)-Dissolved			103.7		%		70-130	27-OCT-20
Arsenic (As)-Dissolved			109.1		%		70-130	27-OCT-20
Barium (Ba)-Dissolved			N/A	MS-B	%		-	27-OCT-20
Beryllium (Be)-Dissolved			102.3		%		70-130	27-OCT-20
Bismuth (Bi)-Dissolved			86.5		%		70-130	27-OCT-20
Boron (B)-Dissolved			101.6		%		70-130	27-OCT-20
Cadmium (Cd)-Dissolved			104.7		%		70-130	27-OCT-20
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	27-OCT-20
Cesium (Cs)-Dissolved			105.2		%		70-130	27-OCT-20
Chromium (Cr)-Dissolved			99.4		%		70-130	27-OCT-20
Cobalt (Co)-Dissolved			99.4		%		70-130	27-OCT-20
Copper (Cu)-Dissolved			95.6		%		70-130	27-OCT-20

Quality Control Report

Workorder: L2519654

Report Date: 18-NOV-20

Page 9 of 16

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB								
	Effluent							
Batch	R5270077							
WG3432945-24 MS		L2519662-4						
Iron (Fe)-Dissolved			100.5		%		70-130	27-OCT-20
Lead (Pb)-Dissolved			101.9		%		70-130	27-OCT-20
Lithium (Li)-Dissolved			102.3		%		70-130	27-OCT-20
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	27-OCT-20
Manganese (Mn)-Dissolved			102.8		%		70-130	27-OCT-20
Molybdenum (Mo)-Dissolved			102.1		%		70-130	27-OCT-20
Nickel (Ni)-Dissolved			97.0		%		70-130	27-OCT-20
Phosphorus (P)-Dissolved			109.5		%		70-130	27-OCT-20
Potassium (K)-Dissolved			105.5		%		70-130	27-OCT-20
Rubidium (Rb)-Dissolved			102.4		%		70-130	27-OCT-20
Selenium (Se)-Dissolved			114.5		%		70-130	27-OCT-20
Silicon (Si)-Dissolved			N/A	MS-B	%		-	27-OCT-20
Silver (Ag)-Dissolved			83.1		%		70-130	27-OCT-20
Sodium (Na)-Dissolved			N/A	MS-B	%		-	27-OCT-20
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	27-OCT-20
Sulfur (S)-Dissolved			106.5		%		70-130	27-OCT-20
Tellurium (Te)-Dissolved			107.4		%		70-130	27-OCT-20
Thallium (Tl)-Dissolved			102.1		%		70-130	27-OCT-20
Thorium (Th)-Dissolved			105.1		%		70-130	27-OCT-20
Tin (Sn)-Dissolved			101.9		%		70-130	27-OCT-20
Titanium (Ti)-Dissolved			100.6		%		70-130	27-OCT-20
Tungsten (W)-Dissolved			104.9		%		70-130	27-OCT-20
Uranium (U)-Dissolved			N/A	MS-B	%		-	27-OCT-20
Vanadium (V)-Dissolved			102.8		%		70-130	27-OCT-20
Zinc (Zn)-Dissolved			97.2		%		70-130	27-OCT-20
Zirconium (Zr)-Dissolved			101.0		%		70-130	27-OCT-20
MET-T-MISA-TB								
	Effluent							
Batch	R5271084							
WG3432980-6 LCS								
Aluminum (Al)-Total			97.9		%		80-120	28-OCT-20
Antimony (Sb)-Total			101.1		%		80-120	28-OCT-20
Arsenic (As)-Total			103.6		%		80-120	28-OCT-20
Barium (Ba)-Total			98.5		%		80-120	28-OCT-20
Beryllium (Be)-Total			101.5		%		80-120	

Quality Control Report

Workorder: L2519654

Report Date: 18-NOV-20

Page 10 of 16

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB	Effluent							
Batch	R5271084							
WG3432980-6	LCS							
Beryllium (Be)-Total			101.5		%		80-120	28-OCT-20
Bismuth (Bi)-Total			101.8		%		80-120	28-OCT-20
Boron (B)-Total			100.1		%		80-120	28-OCT-20
Cadmium (Cd)-Total			101.5		%		80-120	28-OCT-20
Calcium (Ca)-Total			100.6		%		80-120	28-OCT-20
Cesium (Cs)-Total			103.6		%		80-120	28-OCT-20
Chromium (Cr)-Total			100.5		%		80-120	28-OCT-20
Cobalt (Co)-Total			98.2		%		80-120	28-OCT-20
Copper (Cu)-Total			98.2		%		80-120	28-OCT-20
Iron (Fe)-Total			116.2		%		80-120	28-OCT-20
Lead (Pb)-Total			100.3		%		80-120	28-OCT-20
Lithium (Li)-Total			102.8		%		80-120	28-OCT-20
Magnesium (Mg)-Total			102.3		%		80-120	28-OCT-20
Manganese (Mn)-Total			101.2		%		80-120	28-OCT-20
Molybdenum (Mo)-Total			102.0		%		80-120	28-OCT-20
Nickel (Ni)-Total			97.6		%		80-120	28-OCT-20
Phosphorus (P)-Total			102.3		%		80-120	28-OCT-20
Potassium (K)-Total			102.2		%		80-120	28-OCT-20
Rubidium (Rb)-Total			98.1		%		80-120	28-OCT-20
Selenium (Se)-Total			99.7		%		80-120	28-OCT-20
Silicon (Si)-Total			111.8		%		80-120	28-OCT-20
Silver (Ag)-Total			99.8		%		80-120	28-OCT-20
Sodium (Na)-Total			103.8		%		80-120	28-OCT-20
Strontium (Sr)-Total			102.7		%		80-120	28-OCT-20
Sulfur (S)-Total			118.0		%		80-120	28-OCT-20
Tellurium (Te)-Total			104.8		%		80-120	28-OCT-20
Thallium (Tl)-Total			99.6		%		80-120	28-OCT-20
Thorium (Th)-Total			105.1		%		80-120	28-OCT-20
Tin (Sn)-Total			100.9		%		80-120	28-OCT-20
Titanium (Ti)-Total			98.8		%		80-120	28-OCT-20
Tungsten (W)-Total			101.9		%		80-120	28-OCT-20
Uranium (U)-Total			104.3		%		80-120	28-OCT-20
Vanadium (V)-Total			101.7		%		80-120	28-OCT-20

Quality Control Report

Workorder: L2519654

Report Date: 18-NOV-20

Page 11 of 16

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5271084							
WG3432980-6	LCS							
Zinc (Zn)-Total			93.8		%		80-120	28-OCT-20
Zirconium (Zr)-Total			106.2		%		80-120	28-OCT-20
WG3432980-5	MB							
Aluminum (Al)-Total			0.0010		mg/L		0.005	28-OCT-20
Antimony (Sb)-Total			<0.000005		mg/L		0.0006	28-OCT-20
Arsenic (As)-Total			0.00005		mg/L		0.001	28-OCT-20
Barium (Ba)-Total			<0.00001		mg/L		0.01	28-OCT-20
Beryllium (Be)-Total			<0.0000001		mg/L		0.001	28-OCT-20
Bismuth (Bi)-Total			<0.00001		mg/L		0.001	28-OCT-20
Boron (B)-Total			0.0010		mg/L		0.05	28-OCT-20
Cadmium (Cd)-Total			<0.000001		mg/L		0.000017	28-OCT-20
Calcium (Ca)-Total			<0.002		mg/L		0.2	28-OCT-20
Cesium (Cs)-Total			<0.0000005		mg/L		0.00001	28-OCT-20
Chromium (Cr)-Total			<0.00002		mg/L		0.001	28-OCT-20
Cobalt (Co)-Total			<0.000005		mg/L		0.0005	28-OCT-20
Copper (Cu)-Total			<0.00002		mg/L		0.001	28-OCT-20
Iron (Fe)-Total			0.0005		mg/L		0.02	28-OCT-20
Lead (Pb)-Total			<0.00001		mg/L		0.00005	28-OCT-20
Lithium (Li)-Total			<0.0002		mg/L		0.05	28-OCT-20
Magnesium (Mg)-Total			<0.0002		mg/L		0.02	28-OCT-20
Manganese (Mn)-Total			<0.0002		mg/L		0.001	28-OCT-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.001	28-OCT-20
Nickel (Ni)-Total			<0.00002		mg/L		0.002	28-OCT-20
Phosphorus (P)-Total			0.010		mg/L		0.05	28-OCT-20
Potassium (K)-Total			<0.01		mg/L		0.5	28-OCT-20
Rubidium (Rb)-Total			<0.000002		mg/L		0.0002	28-OCT-20
Selenium (Se)-Total			<0.000005		mg/L		0.00005	28-OCT-20
Silicon (Si)-Total			0.030		mg/L		0.1	28-OCT-20
Silver (Ag)-Total			<0.000001		mg/L		0.0001	28-OCT-20
Sodium (Na)-Total			<0.005		mg/L		0.1	28-OCT-20
Strontium (Sr)-Total			<0.000005		mg/L		0.001	28-OCT-20
Sulfur (S)-Total			0.4		mg/L		0.5	28-OCT-20
Tellurium (Te)-Total			<0.00002		mg/L		0.001	28-OCT-20
Thallium (Tl)-Total			<0.000005		mg/L		0.0003	28-OCT-20

Quality Control Report

Workorder: L2519654

Report Date: 18-NOV-20

Page 12 of 16

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5271084							
WG3432980-5	MB							
Thorium (Th)-Total			<0.00001		mg/L		0.0001	28-OCT-20
Tin (Sn)-Total			<0.00001		mg/L		0.001	28-OCT-20
Titanium (Ti)-Total			0.00002		mg/L		0.002	28-OCT-20
Tungsten (W)-Total			<0.00001		mg/L		0.01	28-OCT-20
Uranium (U)-Total			<0.0000005		mg/L		0.005	28-OCT-20
Vanadium (V)-Total			0.00015		mg/L		0.001	28-OCT-20
Zinc (Zn)-Total			0.0020		mg/L		0.003	28-OCT-20
Zirconium (Zr)-Total			<0.000002		mg/L		0.001	28-OCT-20
NH3-MISA-F-TB		Effluent						
Batch	R5269587							
WG3432954-3	DUP	L2519654-3						
Ammonia, Total (as N)		0.008	0.006	J	mg/L	0.0020	0.01	27-OCT-20
WG3432295-2	LCS							
Ammonia, Total (as N)			94.7		%		85-115	27-OCT-20
WG3432954-2	LCS							
Ammonia, Total (as N)			99.5		%		85-115	27-OCT-20
WG3432295-1	MB							
Ammonia, Total (as N)			<0.002		mg/L		0.005	27-OCT-20
WG3432954-1	MB							
Ammonia, Total (as N)			<0.002		mg/L		0.005	27-OCT-20
WG3432954-4	MS	L2519654-4						
Ammonia, Total (as N)			97.2		%		75-125	27-OCT-20
NO2-MISA-IC-TB		Effluent						
Batch	R5268235							
WG3429963-3	DUP	L2519662-7						
Nitrite (as N)		<0.001	<0.001	RPD-NA	mg/L	N/A	20	24-OCT-20
WG3429963-2	LCS							
Nitrite (as N)			98.3		%		90-110	24-OCT-20
WG3429963-1	MB							
Nitrite (as N)			<0.001		mg/L		0.01	24-OCT-20
WG3429963-4	MS	L2519662-9						
Nitrite (as N)			109.0		%		75-125	24-OCT-20
NO3-MISA-IC-TB		Effluent						

Quality Control Report

Workorder: L2519654

Report Date: 18-NOV-20

Page 13 of 16

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO3-MISA-IC-TB		Effluent						
Batch	R5268235							
WG3429963-3	DUP	L2519662-7						
Nitrate (as N)		0.002	0.002	RPD-NA	mg/L	N/A	20	24-OCT-20
WG3429963-2	LCS							
Nitrate (as N)			99.0		%		90-110	24-OCT-20
WG3429963-1	MB							
Nitrate (as N)			<0.002		mg/L		0.02	24-OCT-20
WG3429963-4	MS	L2519662-9						
Nitrate (as N)			110.0		%		75-125	24-OCT-20
OGG-TOT-WT		Effluent						
Batch	R5268069							
WG3431422-2	LCS							
Oil and Grease, Total			93.6		%		50-150	24-OCT-20
WG3431422-1	MB							
Oil and Grease, Total			<0.2		mg/L		1	24-OCT-20
PH-MISA-TB		Effluent						
Batch	R5265717							
WG3429916-3	DUP	L2519739-1						
pH		8.02	8.08	J	pH	0.06	0.2	22-OCT-20
WG3429916-2	LCS							
pH			7.00		pH		6.9-7.1	22-OCT-20
SO4-MISA-IC-TB		Effluent						
Batch	R5268235							
WG3429963-3	DUP	L2519662-7						
Sulfate (SO4)		22.8	23.8		mg/L	4.4	20	24-OCT-20
WG3429963-2	LCS							
Sulfate (SO4)			99.4		%		90-110	24-OCT-20
WG3429963-1	MB							
Sulfate (SO4)			<0.05		mg/L		0.3	24-OCT-20
WG3429963-4	MS	L2519662-9						
Sulfate (SO4)			112.1		%		75-125	24-OCT-20
TDS-MISA-TB		Effluent						
Batch	R5268345							
WG3431400-3	DUP	L2519654-1						
Total Dissolved Solids		322	330		mg/L	2.6	20	24-OCT-20
WG3431400-2	LCS							
Total Dissolved Solids			101.7		%		85-115	24-OCT-20
WG3431400-1	MB							

Quality Control Report

Workorder: L2519654

Report Date: 18-NOV-20

Page 14 of 16

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TDS-MISA-TB	Effluent							
Batch	R5268345							
WG3431400-1 MB								
Total Dissolved Solids			6		mg/L		10	24-OCT-20
TOC-MISA-WP	Effluent							
Batch	R5279682							
WG3439364-2 LCS								
Total Organic Carbon			98.0		%		80-120	02-NOV-20
WG3439364-1 MB								
Total Organic Carbon			<0.1		mg/L		0.5	02-NOV-20
TSS-MISA-TB	Effluent							
Batch	R5268324							
WG3431399-3 DUP		L2519654-1						
Total Suspended Solids		4.0	3.5		mg/L	11	20	24-OCT-20
WG3431399-2 LCS								
Total Suspended Solids			95.3		%		85-115	24-OCT-20
WG3431399-1 MB								
Total Suspended Solids			<0.5		mg/L		3	24-OCT-20

Quality Control Report

Workorder: L2519654

Report Date: 18-NOV-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Page 15 of 16

Contact: Amanda Jacobs

Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L2519654

Report Date: 18-NOV-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Page 16 of 16

Contact: Amanda Jacobs

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Organic / Inorganic Carbon							
Diss Organic Carbon by Combustion (MISA)							
	2	19-OCT-20 11:35	02-NOV-20 15:00	10	14	days	EHT
	3	19-OCT-20 12:31	02-NOV-20 15:00	10	14	days	EHT
	4	19-OCT-20 13:10	02-NOV-20 15:00	10	14	days	EHT

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2519654 were received on 21-OCT-20 10:30.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



L2519654



L2519654-COFC

y

CHAIN OF CUSTODY / SAMPLE ANALYSIS REQUEST

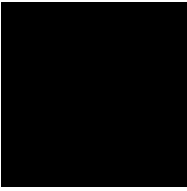
COC No: ALS-44124369

Cooler No. of

Site ID Rainy River				Turnaround Time 10 Business Days				Filtered																																														
Site Address 1361 Roen Rd, Chapple, ON				Lab Name ALS Thunder Bay					Preserve																																													
Project Number				Lab PM Christine Paradis				Analysis		NG-SW-P-TB	RA226-MMER-BE																																											
Project Name Rainy River Mine				Lab Phone/Fax 807-623-6463																																																		
Project Manager				Shipping Company																																																		
Project Manager Email Address				Airbill No.																																																		
Sampler				Shipping Date 10/20/2020																																																		
Items No.	Sample ID	Sample Location	Matrix	G=Grab C=Comp	Depth	Sample Date Time	# of Containers	Comments Lab I.D.																																														
1	SW21A_SW_20201006	Surface Water 21A	SW	G		10/19/2020 11:05	11	pH 7.16, temp 6.8	X																																													
2	SW26_SW_20201006	Surface Water 26	SW	G		10/19/2020 11:35	11	pH 7.77, temp 1.3	X																																													
3	SW27_SW_20201006	Surface Water 27	SW	G		10/19/2020 12:31	11	pH 7.69, temp 0.8	X																																													
4	SW22A_SW_20201006	Surface Water 22A	SW	G		10/19/2020 13:10	12	pH 7.73, temp 2.5	X	X																																												

Additional Comments/Special Instructions:	RELINQUISHED BY / AFFILIATION	Date Time	ACCEPTED BY / AFFILIATION	Date Time
3.0	<original signed by>	2020-10-20 9:00		Oct 21 10:30
SHIPPING METHOD: (mark as appropriate)			SAMPLER NAME AND SIGNATURE	Date Time
Email Report To : rainyriver.labresults@newgold.com>				
Email Invoice To : <rainsriver.accounts1@newgold.com>				

y



New Gold Inc. Rainy River Project
ATTN: Amanda Jacobs
24 Marr Rd
Barwick ON POW 1A0

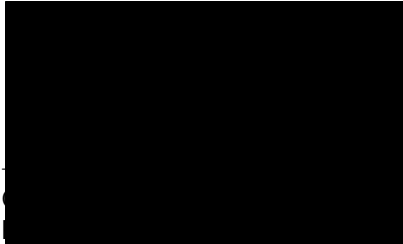
Date Received: 05-NOV-20
Report Date: 23-DEC-20 20:17 (MT)
Version: FINAL

Client Phone: 807-482-0931

Certificate of Analysis

Lab Work Order #: L2526654
Project P.O. #: 4500038941
Job Reference: SURFACE WATER
C of C Numbers:
Legal Site Desc:

Comments:



[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3, Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598



ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526654-1 SW20_SW_20201104							
Sampled By: Client on 04-NOV-20 @ 08:20							
Matrix: Water							
Field Tests							
pH, Client Supplied	7.39		0.10	pH		06-NOV-20	R5281700
Temperature, Client Supplied	1.39		0	Degree C		06-NOV-20	R5281700
Physical Tests							
Color, True	77.6		2.0	CU		07-NOV-20	R5282151
Conductivity (EC)	391		1.0	uS/cm		07-NOV-20	R5282372
Hardness (as CaCO3)	162		0.51	mg/L		13-NOV-20	
pH	7.61		0.10	pH		07-NOV-20	R5282372
Total Suspended Solids	2.5	<DL	3.0	mg/L		09-NOV-20	R5283221
Total Dissolved Solids	266		20	mg/L		09-NOV-20	R5283291
Turbidity	3.39		0.10	NTU		06-NOV-20	R5281551
Anions and Nutrients							
Acidity (as CaCO3)	1.6	<DL	2.0	mg/L		08-NOV-20	R5282559
Alkalinity, Total (as CaCO3)	137		2.0	mg/L		07-NOV-20	R5282372
Ammonia, Total (as N)	0.020	<T	0.0050	mg/L		12-NOV-20	R5284822
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		13-NOV-20	
Chloride (Cl)	42.1		0.10	mg/L	09-NOV-20	09-NOV-20	R5283258
Fluoride (F)	0.060		0.020	mg/L	09-NOV-20	09-NOV-20	R5283258
Nitrate (as N)	0.010	<DL	0.020	mg/L		09-NOV-20	R5283258
Nitrite (as N)	<0.001	<W	0.010	mg/L		09-NOV-20	R5283258
Total Kjeldahl Nitrogen	1.01		0.050	mg/L	12-NOV-20	13-NOV-20	R5285197
Orthophosphate-Dissolved (as P)	0.0060		0.0030	mg/L	06-NOV-20	09-NOV-20	R5283229
Sulfate (SO4)	10.1		0.30	mg/L		09-NOV-20	R5283258
Cyanides							
Cyanide, Weak Acid Diss	0.0006	<DL	0.0020	mg/L		10-NOV-20	R5284116
Cyanide, Total	0.0004	<DL	0.0020	mg/L		10-NOV-20	R5284116
Cyanide, Free	0.0009	<DL	0.0020	mg/L		10-NOV-20	R5284116
Organic / Inorganic Carbon							
Dissolved Organic Carbon	23.0	DLM	2.5	mg/L	06-NOV-20	13-NOV-20	R5285893
Total Organic Carbon	35.9	DLM	5.0	mg/L		16-NOV-20	R5286204
Total Metals							
Aluminum (Al)-Total	0.0986		0.0050	mg/L		11-NOV-20	R5284126
Antimony (Sb)-Total	0.000050	<DL	0.00060	mg/L		11-NOV-20	R5284126
Arsenic (As)-Total	0.00069	<DL	0.0010	mg/L		11-NOV-20	R5284126
Barium (Ba)-Total	0.0179		0.010	mg/L		11-NOV-20	R5284126
Beryllium (Be)-Total	0.0000057	<DL	0.0010	mg/L		11-NOV-20	R5284126
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		11-NOV-20	R5284126
Boron (B)-Total	0.0125	<DL	0.050	mg/L		11-NOV-20	R5284126
Cadmium (Cd)-Total	0.000005	<DL	0.000017	mg/L		11-NOV-20	R5284126
Calcium (Ca)-Total	38.0		0.20	mg/L		11-NOV-20	R5284126
Cesium (Cs)-Total	0.0000140		0.000010	mg/L		11-NOV-20	R5284126
Chromium (Cr)-Total	0.00042	<DL	0.0010	mg/L		11-NOV-20	R5284126
Cobalt (Co)-Total	0.000200	<DL	0.00050	mg/L		11-NOV-20	R5284126

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526654-1 SW20_SW_20201104							
Sampled By: Client on 04-NOV-20 @ 08:20							
Matrix: Water							
Total Metals							
Copper (Cu)-Total	0.00058	<DL	0.0010	mg/L		11-NOV-20	R5284126
Iron (Fe)-Total	0.379		0.020	mg/L		11-NOV-20	R5284126
Lead (Pb)-Total	0.00007	<T	0.000050	mg/L		11-NOV-20	R5284126
Lithium (Li)-Total	0.0066	<DL	0.050	mg/L		11-NOV-20	R5284126
Magnesium (Mg)-Total	17.1		0.020	mg/L		11-NOV-20	R5284126
Manganese (Mn)-Total	0.0526		0.0010	mg/L		11-NOV-20	R5284126
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-NOV-20	R5285046
Molybdenum (Mo)-Total	0.000320	<DL	0.0010	mg/L		11-NOV-20	R5284126
Nickel (Ni)-Total	0.00132	<DL	0.0020	mg/L		11-NOV-20	R5284126
Phosphorus (P)-Total	0.010	<DL	0.050	mg/L		11-NOV-20	R5284126
Potassium (K)-Total	1.70		0.50	mg/L		11-NOV-20	R5284126
Rubidium (Rb)-Total	0.00167		0.00020	mg/L		11-NOV-20	R5284126
Selenium (Se)-Total	0.000125	<T	0.000050	mg/L		11-NOV-20	R5284126
Silicon (Si)-Total	5.95		0.10	mg/L		11-NOV-20	R5284126
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		11-NOV-20	R5284126
Sodium (Na)-Total	15.9		0.10	mg/L		11-NOV-20	R5284126
Strontium (Sr)-Total	0.113		0.0010	mg/L		11-NOV-20	R5284126
Sulfur (S)-Total	3.2		0.50	mg/L		11-NOV-20	R5284126
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		11-NOV-20	R5284126
Thallium (Tl)-Total	<0.000005	<W	0.000030	mg/L		11-NOV-20	R5284126
Thorium (Th)-Total	0.00003	<DL	0.00010	mg/L		11-NOV-20	R5284126
Tin (Sn)-Total	0.00009	<DL	0.0010	mg/L		11-NOV-20	R5284126
Titanium (Ti)-Total	0.00315		0.0020	mg/L		11-NOV-20	R5284126
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		11-NOV-20	R5284126
Uranium (U)-Total	0.00123	<DL	0.0050	mg/L		11-NOV-20	R5284126
Vanadium (V)-Total	0.00050	<DL	0.0010	mg/L		11-NOV-20	R5284126
Zinc (Zn)-Total	0.0005	<DL	0.0030	mg/L		11-NOV-20	R5284126
Zirconium (Zr)-Total	0.000280	<DL	0.0010	mg/L		11-NOV-20	R5284126
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					12-NOV-20	R5284796
Aluminum (Al)-Dissolved	0.0122	<T	0.0050	mg/L		12-NOV-20	R5284941
Antimony (Sb)-Dissolved	0.000045	<DL	0.00060	mg/L		12-NOV-20	R5284941
Arsenic (As)-Dissolved	0.000680	<DL	0.0010	mg/L		12-NOV-20	R5284941
Barium (Ba)-Dissolved	0.0176		0.010	mg/L		12-NOV-20	R5284941
Beryllium (Be)-Dissolved	0.000004	<DL	0.0010	mg/L		12-NOV-20	R5284941
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		12-NOV-20	R5284941
Boron (B)-Dissolved	0.0125	<DL	0.050	mg/L		12-NOV-20	R5284941
Cadmium (Cd)-Dissolved	0.0000010	<DL	0.000017	mg/L		12-NOV-20	R5284941
Calcium (Ca)-Dissolved	37.3		0.20	mg/L		12-NOV-20	R5284941
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		12-NOV-20	R5284941
Chromium (Cr)-Dissolved	0.00017	<DL	0.0010	mg/L		12-NOV-20	R5284941

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526654-1 SW20_SW_20201104 Sampled By: Client on 04-NOV-20 @ 08:20 Matrix: Water							
Dissolved Metals							
Cobalt (Co)-Dissolved	0.000150	<DL	0.00050	mg/L		12-NOV-20	R5284941
Copper (Cu)-Dissolved	0.00046	<DL	0.0010	mg/L		12-NOV-20	R5284941
Iron (Fe)-Dissolved	0.274		0.020	mg/L		12-NOV-20	R5284941
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		12-NOV-20	R5284941
Lithium (Li)-Dissolved	0.0064	<DL	0.050	mg/L		12-NOV-20	R5284941
Magnesium (Mg)-Dissolved	16.6		0.020	mg/L		12-NOV-20	R5284941
Manganese (Mn)-Dissolved	0.0512		0.0010	mg/L		12-NOV-20	R5284941
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		13-NOV-20	R5285027
Molybdenum (Mo)-Dissolved	0.000302	<DL	0.0010	mg/L		12-NOV-20	R5284941
Nickel (Ni)-Dissolved	0.00112	<DL	0.0020	mg/L		12-NOV-20	R5284941
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		12-NOV-20	R5284941
Potassium (K)-Dissolved	1.66		0.50	mg/L		12-NOV-20	R5284941
Rubidium (Rb)-Dissolved	0.00141		0.00020	mg/L		12-NOV-20	R5284941
Selenium (Se)-Dissolved	0.000145	<T	0.000050	mg/L		12-NOV-20	R5284941
Silicon (Si)-Dissolved	5.39		0.050	mg/L		12-NOV-20	R5284941
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		12-NOV-20	R5284941
Sodium (Na)-Dissolved	15.4		0.10	mg/L		12-NOV-20	R5284941
Strontium (Sr)-Dissolved	0.104		0.0010	mg/L		12-NOV-20	R5284941
Sulfur (S)-Dissolved	3.0		0.50	mg/L		12-NOV-20	R5284941
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		12-NOV-20	R5284941
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		12-NOV-20	R5284941
Thorium (Th)-Dissolved	0.00003	<DL	0.00010	mg/L		12-NOV-20	R5284941
Tin (Sn)-Dissolved	0.000025	<DL	0.0010	mg/L		12-NOV-20	R5284941
Titanium (Ti)-Dissolved	0.00050	<DL	0.0020	mg/L		12-NOV-20	R5284941
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		12-NOV-20	R5284941
Uranium (U)-Dissolved	0.00113	<DL	0.0050	mg/L		12-NOV-20	R5284941
Vanadium (V)-Dissolved	0.00018	<DL	0.0010	mg/L		12-NOV-20	R5284941
Zinc (Zn)-Dissolved	0.0008	<DL	0.0030	mg/L		12-NOV-20	R5284941
Zirconium (Zr)-Dissolved	0.000254	<DL	0.0010	mg/L		12-NOV-20	R5284941
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		06-NOV-20	R5283826
Chemical Oxygen Demand	68		20	mg/L	13-NOV-20	13-NOV-20	R5285262
Oil and Grease, Total	2.4		1.0	mg/L	10-NOV-20	10-NOV-20	R5283757
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		30-NOV-20	R5308870
L2526654-2 SW22A_SW_20201104 Sampled By: Client on 04-NOV-20 @ 09:20 Matrix: Water							
Field Tests							
pH, Client Supplied	6.23		0.10	pH		06-NOV-20	R5281700
Temperature, Client Supplied	7.26		0	Degree C		06-NOV-20	R5281700
Physical Tests							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526654-2 SW22A_SW_20201104							
Sampled By: Client on 04-NOV-20 @ 09:20							
Matrix: Water							
Physical Tests							
Color, True	25.3		2.0	CU		07-NOV-20	R5282151
Conductivity (EC)	993		1.0	uS/cm		07-NOV-20	R5282372
Hardness (as CaCO3)	342		0.51	mg/L		13-NOV-20	
pH	7.82		0.10	pH		07-NOV-20	R5282372
Total Suspended Solids	1.5	<DL	3.0	mg/L		09-NOV-20	R5283221
Total Dissolved Solids	684		20	mg/L		09-NOV-20	R5283291
Turbidity	1.55		0.10	NTU		06-NOV-20	R5281551
Anions and Nutrients							
Acidity (as CaCO3)	0.4	<DL	2.0	mg/L		08-NOV-20	R5282559
Alkalinity, Total (as CaCO3)	165		2.0	mg/L		07-NOV-20	R5282372
Ammonia, Total (as N)	0.034	<T	0.0050	mg/L		10-NOV-20	R5283798
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		11-NOV-20	
Chloride (Cl)	24.0		0.20	mg/L	09-NOV-20	09-NOV-20	R5283258
Fluoride (F)	0.110		0.040	mg/L	09-NOV-20	09-NOV-20	R5283258
Nitrate (as N)	1.88		0.040	mg/L		09-NOV-20	R5283258
Nitrite (as N)	0.042	<T	0.020	mg/L		09-NOV-20	R5283258
Total Kjeldahl Nitrogen	1.22		0.050	mg/L	12-NOV-20	13-NOV-20	R5285197
Orthophosphate-Dissolved (as P)	0.0059		0.0030	mg/L	06-NOV-20	09-NOV-20	R5283229
Sulfate (SO4)	332		0.60	mg/L		09-NOV-20	R5283258
Cyanides							
Cyanide, Weak Acid Diss	0.0006	<DL	0.0020	mg/L		10-NOV-20	R5284116
Cyanide, Total	0.0004	<DL	0.0020	mg/L		10-NOV-20	R5284116
Cyanide, Free	0.0007	<DL	0.0020	mg/L		10-NOV-20	R5284116
Organic / Inorganic Carbon							
Dissolved Organic Carbon	16.5	DLM	2.5	mg/L	06-NOV-20	13-NOV-20	R5285893
Total Organic Carbon	17.8	DLM	2.5	mg/L		16-NOV-20	R5286204
Total Metals							
Aluminum (Al)-Total	0.0530		0.0050	mg/L		11-NOV-20	R5284126
Antimony (Sb)-Total	0.0116		0.00060	mg/L		11-NOV-20	R5284126
Arsenic (As)-Total	0.00129	<T	0.0010	mg/L		11-NOV-20	R5284126
Barium (Ba)-Total	0.0430		0.010	mg/L		11-NOV-20	R5284126
Beryllium (Be)-Total	0.0000010	<DL	0.0010	mg/L		11-NOV-20	R5284126
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		11-NOV-20	R5284126
Boron (B)-Total	0.0590		0.050	mg/L		11-NOV-20	R5284126
Cadmium (Cd)-Total	0.000006	<DL	0.000017	mg/L		11-NOV-20	R5284126
Calcium (Ca)-Total	98.8		0.20	mg/L		11-NOV-20	R5284126
Cesium (Cs)-Total	0.000285		0.000010	mg/L		11-NOV-20	R5284126
Chromium (Cr)-Total	0.00022	<DL	0.0010	mg/L		11-NOV-20	R5284126
Cobalt (Co)-Total	0.000895	<T	0.00050	mg/L		11-NOV-20	R5284126
Copper (Cu)-Total	0.00264	<T	0.0010	mg/L		11-NOV-20	R5284126
Iron (Fe)-Total	0.151		0.020	mg/L		11-NOV-20	R5284126
Lead (Pb)-Total	0.00015	<T	0.000050	mg/L		11-NOV-20	R5284126

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526654-2 SW22A_SW_20201104							
Sampled By: Client on 04-NOV-20 @ 09:20							
Matrix: Water							
Total Metals							
Lithium (Li)-Total	0.0114	<DL	0.050	mg/L		11-NOV-20	R5284126
Magnesium (Mg)-Total	24.1		0.020	mg/L		11-NOV-20	R5284126
Manganese (Mn)-Total	0.0246		0.0010	mg/L		11-NOV-20	R5284126
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-NOV-20	R5285046
Molybdenum (Mo)-Total	0.00700	<T	0.0010	mg/L		11-NOV-20	R5284126
Nickel (Ni)-Total	0.00170	<DL	0.0020	mg/L		11-NOV-20	R5284126
Phosphorus (P)-Total	0.015	<DL	0.050	mg/L		11-NOV-20	R5284126
Potassium (K)-Total	27.9		0.50	mg/L		11-NOV-20	R5284126
Rubidium (Rb)-Total	0.0149		0.00020	mg/L		11-NOV-20	R5284126
Selenium (Se)-Total	0.000285	<T	0.000050	mg/L		11-NOV-20	R5284126
Silicon (Si)-Total	2.63		0.10	mg/L		11-NOV-20	R5284126
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		11-NOV-20	R5284126
Sodium (Na)-Total	60.9		0.10	mg/L		11-NOV-20	R5284126
Strontium (Sr)-Total	0.361		0.0010	mg/L		11-NOV-20	R5284126
Sulfur (S)-Total	108		0.50	mg/L		11-NOV-20	R5284126
Tellurium (Te)-Total	0.00004	<DL	0.0010	mg/L		11-NOV-20	R5284126
Thallium (Tl)-Total	0.000010	<DL	0.00030	mg/L		11-NOV-20	R5284126
Thorium (Th)-Total	0.00001	<DL	0.00010	mg/L		11-NOV-20	R5284126
Tin (Sn)-Total	0.00005	<DL	0.0010	mg/L		11-NOV-20	R5284126
Titanium (Ti)-Total	0.00188	<DL	0.0020	mg/L		11-NOV-20	R5284126
Tungsten (W)-Total	0.00006	<DL	0.010	mg/L		11-NOV-20	R5284126
Uranium (U)-Total	0.00224	<DL	0.0050	mg/L		11-NOV-20	R5284126
Vanadium (V)-Total	0.00035	<DL	0.0010	mg/L		11-NOV-20	R5284126
Zinc (Zn)-Total	0.0005	<DL	0.0030	mg/L		11-NOV-20	R5284126
Zirconium (Zr)-Total	0.000150	<DL	0.0010	mg/L		11-NOV-20	R5284126
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					12-NOV-20	R5284796
Aluminum (Al)-Dissolved	0.0060	<T	0.0050	mg/L		12-NOV-20	R5284941
Antimony (Sb)-Dissolved	0.0112		0.00060	mg/L		12-NOV-20	R5284941
Arsenic (As)-Dissolved	0.00123	<T	0.0010	mg/L		12-NOV-20	R5284941
Barium (Ba)-Dissolved	0.0425		0.010	mg/L		12-NOV-20	R5284941
Beryllium (Be)-Dissolved	0.000002	<DL	0.0010	mg/L		12-NOV-20	R5284941
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		12-NOV-20	R5284941
Boron (B)-Dissolved	0.0600		0.050	mg/L		12-NOV-20	R5284941
Cadmium (Cd)-Dissolved	0.0000040	<DL	0.000017	mg/L		12-NOV-20	R5284941
Calcium (Ca)-Dissolved	97.5		0.20	mg/L		12-NOV-20	R5284941
Cesium (Cs)-Dissolved	0.000259		0.000010	mg/L		12-NOV-20	R5284941
Chromium (Cr)-Dissolved	0.00011	<DL	0.0010	mg/L		12-NOV-20	R5284941
Cobalt (Co)-Dissolved	0.000844	<T	0.00050	mg/L		12-NOV-20	R5284941
Copper (Cu)-Dissolved	0.00248	<T	0.0010	mg/L		12-NOV-20	R5284941
Iron (Fe)-Dissolved	0.0660		0.020	mg/L		12-NOV-20	R5284941

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526654-2 SW22A_SW_20201104 Sampled By: Client on 04-NOV-20 @ 09:20 Matrix: Water							
Dissolved Metals							
Lead (Pb)-Dissolved	0.00004	<DL	0.000050	mg/L		12-NOV-20	R5284941
Lithium (Li)-Dissolved	0.0112	<DL	0.050	mg/L		12-NOV-20	R5284941
Magnesium (Mg)-Dissolved	23.8		0.020	mg/L		12-NOV-20	R5284941
Manganese (Mn)-Dissolved	0.0236		0.0010	mg/L		12-NOV-20	R5284941
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		13-NOV-20	R5285027
Molybdenum (Mo)-Dissolved	0.00667	<T	0.0010	mg/L		12-NOV-20	R5284941
Nickel (Ni)-Dissolved	0.00160	<DL	0.0020	mg/L		12-NOV-20	R5284941
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		12-NOV-20	R5284941
Potassium (K)-Dissolved	27.4		0.50	mg/L		12-NOV-20	R5284941
Rubidium (Rb)-Dissolved	0.0146		0.00020	mg/L		12-NOV-20	R5284941
Selenium (Se)-Dissolved	0.000320	<T	0.000050	mg/L		12-NOV-20	R5284941
Silicon (Si)-Dissolved	2.52		0.050	mg/L		12-NOV-20	R5284941
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		12-NOV-20	R5284941
Sodium (Na)-Dissolved	59.6		0.10	mg/L		12-NOV-20	R5284941
Strontium (Sr)-Dissolved	0.346		0.0010	mg/L		12-NOV-20	R5284941
Sulfur (S)-Dissolved	112		0.50	mg/L		12-NOV-20	R5284941
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		12-NOV-20	R5284941
Thallium (Tl)-Dissolved	0.000010	<DL	0.00030	mg/L		12-NOV-20	R5284941
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		12-NOV-20	R5284941
Tin (Sn)-Dissolved	0.000005	<DL	0.0010	mg/L		12-NOV-20	R5284941
Titanium (Ti)-Dissolved	0.00024	<DL	0.0020	mg/L		12-NOV-20	R5284941
Tungsten (W)-Dissolved	0.000050	<DL	0.010	mg/L		12-NOV-20	R5284941
Uranium (U)-Dissolved	0.00203	<DL	0.0050	mg/L		12-NOV-20	R5284941
Vanadium (V)-Dissolved	0.00018	<DL	0.0010	mg/L		12-NOV-20	R5284941
Zinc (Zn)-Dissolved	0.0012	<DL	0.0030	mg/L		12-NOV-20	R5284941
Zirconium (Zr)-Dissolved	0.000132	<DL	0.0010	mg/L		12-NOV-20	R5284941
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		06-NOV-20	R5283826
Chemical Oxygen Demand	39		20	mg/L	13-NOV-20	13-NOV-20	R5285262
Oil and Grease, Total	1.8		1.0	mg/L	10-NOV-20	10-NOV-20	R5283757
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		30-NOV-20	R5308870
L2526654-3 SW23_SW_20201104 Sampled By: Client on 04-NOV-20 @ 09:20 Matrix: Water							
Field Tests							
pH, Client Supplied	7.73		0.10	pH		06-NOV-20	R5281700
Temperature, Client Supplied	.67		0	Degree C		06-NOV-20	R5281700
Physical Tests							
Color, True	89.9		2.0	CU		07-NOV-20	R5282151
Conductivity (EC)	658		1.0	uS/cm		07-NOV-20	R5282372
Hardness (as CaCO3)	245		0.51	mg/L		16-NOV-20	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526654-3 SW23_SW_20201104 Sampled By: Client on 04-NOV-20 @ 09:20 Matrix: Water							
Physical Tests							
pH	7.83		0.10	pH		07-NOV-20	R5282372
Total Suspended Solids	3.0		3.0	mg/L		09-NOV-20	R5283221
Total Dissolved Solids	454		20	mg/L		09-NOV-20	R5283291
Turbidity	3.80		0.10	NTU		06-NOV-20	R5281551
Anions and Nutrients							
Acidity (as CaCO3)	0.4	<DL	2.0	mg/L		08-NOV-20	R5282559
Alkalinity, Total (as CaCO3)	145		2.0	mg/L		07-NOV-20	R5282372
Ammonia, Total (as N)	0.016	<T	0.0050	mg/L		10-NOV-20	R5283798
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		11-NOV-20	
Chloride (Cl)	16.5		0.10	mg/L	09-NOV-20	09-NOV-20	R5283258
Fluoride (F)	0.094		0.020	mg/L	09-NOV-20	09-NOV-20	R5283258
Nitrate (as N)	0.824		0.020	mg/L		09-NOV-20	R5283258
Nitrite (as N)	0.025	<T	0.010	mg/L		09-NOV-20	R5283258
Total Kjeldahl Nitrogen	1.17		0.050	mg/L	12-NOV-20	13-NOV-20	R5285197
Orthophosphate-Dissolved (as P)	0.0058		0.0030	mg/L	06-NOV-20	09-NOV-20	R5283229
Sulfate (SO4)	190		0.30	mg/L		09-NOV-20	R5283258
Cyanides							
Cyanide, Weak Acid Diss	0.0007	<DL	0.0020	mg/L		10-NOV-20	R5284116
Cyanide, Total	0.0004	<DL	0.0020	mg/L		10-NOV-20	R5284116
Cyanide, Free	0.0006	<DL	0.0020	mg/L		10-NOV-20	R5284116
Organic / Inorganic Carbon							
Dissolved Organic Carbon	24.5	DLM	2.5	mg/L	06-NOV-20	13-NOV-20	R5285893
Total Organic Carbon	26.5	DLM	2.5	mg/L		16-NOV-20	R5286204
Total Metals							
Aluminum (Al)-Total	0.130		0.0050	mg/L		11-NOV-20	R5284126
Antimony (Sb)-Total	0.00536		0.00060	mg/L		11-NOV-20	R5284126
Arsenic (As)-Total	0.00112	<T	0.0010	mg/L		11-NOV-20	R5284126
Barium (Ba)-Total	0.0337		0.010	mg/L		11-NOV-20	R5284126
Beryllium (Be)-Total	0.0000028	<DL	0.0010	mg/L		11-NOV-20	R5284126
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		11-NOV-20	R5284126
Boron (B)-Total	0.0330	<DL	0.050	mg/L		11-NOV-20	R5284126
Cadmium (Cd)-Total	0.000008	<DL	0.000017	mg/L		11-NOV-20	R5284126
Calcium (Ca)-Total	68.1		0.20	mg/L		11-NOV-20	R5284126
Cesium (Cs)-Total	0.0000355		0.000010	mg/L		11-NOV-20	R5284126
Chromium (Cr)-Total	0.00040	<DL	0.0010	mg/L		11-NOV-20	R5284126
Cobalt (Co)-Total	0.000495	<DL	0.00050	mg/L		11-NOV-20	R5284126
Copper (Cu)-Total	0.00138	<T	0.0010	mg/L		11-NOV-20	R5284126
Iron (Fe)-Total	0.343		0.020	mg/L		11-NOV-20	R5284126
Lead (Pb)-Total	0.00013	<T	0.000050	mg/L		11-NOV-20	R5284126
Lithium (Li)-Total	0.0086	<DL	0.050	mg/L		11-NOV-20	R5284126
Magnesium (Mg)-Total	19.9		0.020	mg/L		11-NOV-20	R5284126
Manganese (Mn)-Total	0.0364		0.0010	mg/L		11-NOV-20	R5284126

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526654-3 SW23_SW_20201104							
Sampled By: Client on 04-NOV-20 @ 09:20							
Matrix: Water							
Total Metals							
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-NOV-20	R5285046
Molybdenum (Mo)-Total	0.00342	<T	0.0010	mg/L		11-NOV-20	R5284126
Nickel (Ni)-Total	0.00152	<DL	0.0020	mg/L		11-NOV-20	R5284126
Phosphorus (P)-Total	0.015	<DL	0.050	mg/L		11-NOV-20	R5284126
Potassium (K)-Total	14.4		0.50	mg/L		11-NOV-20	R5284126
Rubidium (Rb)-Total	0.00704		0.00020	mg/L		11-NOV-20	R5284126
Selenium (Se)-Total	0.000170	<T	0.000050	mg/L		11-NOV-20	R5284126
Silicon (Si)-Total	3.80		0.10	mg/L		11-NOV-20	R5284126
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		11-NOV-20	R5284126
Sodium (Na)-Total	33.0		0.10	mg/L		11-NOV-20	R5284126
Strontium (Sr)-Total	0.217		0.0010	mg/L		11-NOV-20	R5284126
Sulfur (S)-Total	58.8		0.50	mg/L		11-NOV-20	R5284126
Tellurium (Te)-Total	0.00004	<DL	0.0010	mg/L		11-NOV-20	R5284126
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		11-NOV-20	R5284126
Thorium (Th)-Total	0.00004	<DL	0.00010	mg/L		11-NOV-20	R5284126
Tin (Sn)-Total	0.00006	<DL	0.0010	mg/L		11-NOV-20	R5284126
Titanium (Ti)-Total	0.00490		0.0020	mg/L		11-NOV-20	R5284126
Tungsten (W)-Total	0.00002	<DL	0.010	mg/L		11-NOV-20	R5284126
Uranium (U)-Total	0.00142	<DL	0.0050	mg/L		11-NOV-20	R5284126
Vanadium (V)-Total	0.00065	<DL	0.0010	mg/L		11-NOV-20	R5284126
Zinc (Zn)-Total	0.0010	<DL	0.0030	mg/L		11-NOV-20	R5284126
Zirconium (Zr)-Total	0.000334	<DL	0.0010	mg/L		11-NOV-20	R5284126
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					12-NOV-20	R5284796
Aluminum (Al)-Dissolved	0.0320		0.0050	mg/L		12-NOV-20	R5284941
Antimony (Sb)-Dissolved	0.00505		0.00060	mg/L		12-NOV-20	R5284941
Arsenic (As)-Dissolved	0.000987	<DL	0.0010	mg/L		12-NOV-20	R5284941
Barium (Ba)-Dissolved	0.0332		0.010	mg/L		12-NOV-20	R5284941
Beryllium (Be)-Dissolved	0.000012	<DL	0.0010	mg/L		12-NOV-20	R5284941
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		12-NOV-20	R5284941
Boron (B)-Dissolved	0.0350	<DL	0.050	mg/L		12-NOV-20	R5284941
Cadmium (Cd)-Dissolved	0.0000030	<DL	0.000017	mg/L		12-NOV-20	R5284941
Calcium (Ca)-Dissolved	65.7		0.20	mg/L		12-NOV-20	R5284941
Cesium (Cs)-Dissolved	0.0000185		0.000010	mg/L		12-NOV-20	R5284941
Chromium (Cr)-Dissolved	0.00026	<DL	0.0010	mg/L		12-NOV-20	R5284941
Cobalt (Co)-Dissolved	0.000420	<DL	0.00050	mg/L		12-NOV-20	R5284941
Copper (Cu)-Dissolved	0.00120	<T	0.0010	mg/L		12-NOV-20	R5284941
Iron (Fe)-Dissolved	0.192		0.020	mg/L		12-NOV-20	R5284941
Lead (Pb)-Dissolved	0.00004	<DL	0.000050	mg/L		12-NOV-20	R5284941
Lithium (Li)-Dissolved	0.0082	<DL	0.050	mg/L		12-NOV-20	R5284941
Magnesium (Mg)-Dissolved	19.7		0.020	mg/L		12-NOV-20	R5284941

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526654-3 SW23_SW_20201104 Sampled By: Client on 04-NOV-20 @ 09:20 Matrix: Water							
Dissolved Metals							
Manganese (Mn)-Dissolved	0.0324		0.0010	mg/L		12-NOV-20	R5284941
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		13-NOV-20	R5285027
Molybdenum (Mo)-Dissolved	0.00314	<T	0.0010	mg/L		12-NOV-20	R5284941
Nickel (Ni)-Dissolved	0.00158	<DL	0.0020	mg/L		12-NOV-20	R5284941
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		12-NOV-20	R5284941
Potassium (K)-Dissolved	14.0		0.50	mg/L		12-NOV-20	R5284941
Rubidium (Rb)-Dissolved	0.00679		0.00020	mg/L		12-NOV-20	R5284941
Selenium (Se)-Dissolved	0.000165	<T	0.000050	mg/L		12-NOV-20	R5284941
Silicon (Si)-Dissolved	3.32		0.050	mg/L		12-NOV-20	R5284941
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		12-NOV-20	R5284941
Sodium (Na)-Dissolved	32.2		0.10	mg/L		12-NOV-20	R5284941
Strontium (Sr)-Dissolved	0.211		0.0010	mg/L		12-NOV-20	R5284941
Sulfur (S)-Dissolved	58.0		0.50	mg/L		12-NOV-20	R5284941
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		12-NOV-20	R5284941
Thallium (Tl)-Dissolved	0.000002	<DL	0.00030	mg/L		12-NOV-20	R5284941
Thorium (Th)-Dissolved	0.00002	<DL	0.00010	mg/L		12-NOV-20	R5284941
Tin (Sn)-Dissolved	0.000015	<DL	0.0010	mg/L		12-NOV-20	R5284941
Titanium (Ti)-Dissolved	0.00076	<DL	0.0020	mg/L		12-NOV-20	R5284941
Tungsten (W)-Dissolved	0.000022	<DL	0.010	mg/L		12-NOV-20	R5284941
Uranium (U)-Dissolved	0.00127	<DL	0.0050	mg/L		12-NOV-20	R5284941
Vanadium (V)-Dissolved	0.00032	<DL	0.0010	mg/L		12-NOV-20	R5284941
Zinc (Zn)-Dissolved	0.0256	DTC	0.0030	mg/L		12-NOV-20	R5284941
Zirconium (Zr)-Dissolved	0.000272	<DL	0.0010	mg/L		12-NOV-20	R5284941
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		06-NOV-20	R5283826
Chemical Oxygen Demand	62		20	mg/L	13-NOV-20	13-NOV-20	R5285262
Oil and Grease, Total	1.0		1.0	mg/L	10-NOV-20	10-NOV-20	R5283757
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		30-NOV-20	R5308870
L2526654-4 SW24_SW_20201104 Sampled By: Client on 04-NOV-20 @ 08:45 Matrix: Water							
Field Tests							
pH, Client Supplied	7.8		0.10	pH		06-NOV-20	R5281700
Temperature, Client Supplied	1.99		0	Degree C		06-NOV-20	R5281700
Physical Tests							
Color, True	71.7		2.0	CU		07-NOV-20	R5282151
Conductivity (EC)	949		1.0	uS/cm		07-NOV-20	R5282372
Hardness (as CaCO3)	313		0.51	mg/L		13-NOV-20	
pH	7.86		0.10	pH		07-NOV-20	R5282372
Total Suspended Solids	3.5		3.0	mg/L		09-NOV-20	R5283221
Total Dissolved Solids	660		20	mg/L		09-NOV-20	R5283291

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526654-4 SW24_SW_20201104 Sampled By: Client on 04-NOV-20 @ 08:45 Matrix: Water							
Physical Tests							
Turbidity	3.21		0.10	NTU		06-NOV-20	R5281551
Anions and Nutrients							
Acidity (as CaCO3)	0.4	<DL	2.0	mg/L		08-NOV-20	R5282559
Alkalinity, Total (as CaCO3)	138		2.0	mg/L		07-NOV-20	R5282372
Ammonia, Total (as N)	0.024	<T	0.0050	mg/L		10-NOV-20	R5283798
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		11-NOV-20	
Chloride (Cl)	19.3		0.10	mg/L	09-NOV-20	09-NOV-20	R5283258
Fluoride (F)	0.122		0.020	mg/L	09-NOV-20	09-NOV-20	R5283258
Nitrate (as N)	2.22		0.020	mg/L		09-NOV-20	R5283258
Nitrite (as N)	0.021	<T	0.010	mg/L		09-NOV-20	R5283258
Total Kjeldahl Nitrogen	1.32		0.050	mg/L	12-NOV-20	13-NOV-20	R5285197
Orthophosphate-Dissolved (as P)	0.0043		0.0030	mg/L	06-NOV-20	09-NOV-20	R5283229
Sulfate (SO4)	343		0.30	mg/L		09-NOV-20	R5283258
Cyanides							
Cyanide, Weak Acid Diss	0.0007	<DL	0.0020	mg/L		10-NOV-20	R5284116
Cyanide, Total	0.0006	<DL	0.0020	mg/L		10-NOV-20	R5284116
Cyanide, Free	0.0007	<DL	0.0020	mg/L		10-NOV-20	R5284116
Organic / Inorganic Carbon							
Dissolved Organic Carbon	21.1	DLM	2.5	mg/L	06-NOV-20	13-NOV-20	R5285893
Total Organic Carbon	22.2	DLM	2.5	mg/L		16-NOV-20	R5286204
Total Metals							
Aluminum (Al)-Total	0.112		0.0050	mg/L		11-NOV-20	R5284126
Antimony (Sb)-Total	0.00918		0.00060	mg/L		11-NOV-20	R5284126
Arsenic (As)-Total	0.00144	<T	0.0010	mg/L		11-NOV-20	R5284126
Barium (Ba)-Total	0.0413		0.010	mg/L		11-NOV-20	R5284126
Beryllium (Be)-Total	0.0000047	<DL	0.0010	mg/L		11-NOV-20	R5284126
Bismuth (Bi)-Total	0.00001	<DL	0.0010	mg/L		11-NOV-20	R5284126
Boron (B)-Total	0.0605		0.050	mg/L		11-NOV-20	R5284126
Cadmium (Cd)-Total	0.000011	<DL	0.000017	mg/L		11-NOV-20	R5284126
Calcium (Ca)-Total	93.3		0.20	mg/L		11-NOV-20	R5284126
Cesium (Cs)-Total	0.0000885		0.000010	mg/L		11-NOV-20	R5284126
Chromium (Cr)-Total	0.00032	<DL	0.0010	mg/L		11-NOV-20	R5284126
Cobalt (Co)-Total	0.000825	<T	0.00050	mg/L		11-NOV-20	R5284126
Copper (Cu)-Total	0.00508	<T	0.0010	mg/L		11-NOV-20	R5284126
Iron (Fe)-Total	0.261		0.020	mg/L		11-NOV-20	R5284126
Lead (Pb)-Total	0.00011	<T	0.000050	mg/L		11-NOV-20	R5284126
Lithium (Li)-Total	0.0108	<DL	0.050	mg/L		11-NOV-20	R5284126
Magnesium (Mg)-Total	20.9		0.020	mg/L		11-NOV-20	R5284126
Manganese (Mn)-Total	0.0278		0.0010	mg/L		11-NOV-20	R5284126
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		13-NOV-20	R5285046
Molybdenum (Mo)-Total	0.00590	<T	0.0010	mg/L		11-NOV-20	R5284126
Nickel (Ni)-Total	0.00138	<DL	0.0020	mg/L		11-NOV-20	R5284126

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526654-4 SW24_SW_20201104							
Sampled By: Client on 04-NOV-20 @ 08:45							
Matrix: Water							
Total Metals							
Phosphorus (P)-Total	0.015	<DL	0.050	mg/L		11-NOV-20	R5284126
Potassium (K)-Total	27.9		0.50	mg/L		11-NOV-20	R5284126
Rubidium (Rb)-Total	0.0142		0.00020	mg/L		11-NOV-20	R5284126
Selenium (Se)-Total	0.000260	<T	0.000050	mg/L		11-NOV-20	R5284126
Silicon (Si)-Total	2.91		0.10	mg/L		11-NOV-20	R5284126
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		11-NOV-20	R5284126
Sodium (Na)-Total	59.0		0.10	mg/L		11-NOV-20	R5284126
Strontium (Sr)-Total	0.336		0.0010	mg/L		11-NOV-20	R5284126
Sulfur (S)-Total	105		0.50	mg/L		11-NOV-20	R5284126
Tellurium (Te)-Total	0.00004	<DL	0.0010	mg/L		11-NOV-20	R5284126
Thallium (Tl)-Total	0.000015	<DL	0.00030	mg/L		11-NOV-20	R5284126
Thorium (Th)-Total	0.00005	<DL	0.00010	mg/L		11-NOV-20	R5284126
Tin (Sn)-Total	0.00003	<DL	0.0010	mg/L		11-NOV-20	R5284126
Titanium (Ti)-Total	0.00416		0.0020	mg/L		11-NOV-20	R5284126
Tungsten (W)-Total	0.00005	<DL	0.010	mg/L		11-NOV-20	R5284126
Uranium (U)-Total	0.00169	<DL	0.0050	mg/L		11-NOV-20	R5284126
Vanadium (V)-Total	0.00055	<DL	0.0010	mg/L		11-NOV-20	R5284126
Zinc (Zn)-Total	0.0005	<DL	0.0030	mg/L		11-NOV-20	R5284126
Zirconium (Zr)-Total	0.000374	<DL	0.0010	mg/L		11-NOV-20	R5284126
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					12-NOV-20	R5284796
Aluminum (Al)-Dissolved	0.0264	<T	0.0050	mg/L		12-NOV-20	R5284941
Antimony (Sb)-Dissolved	0.00880		0.00060	mg/L		12-NOV-20	R5284941
Arsenic (As)-Dissolved	0.00141	<T	0.0010	mg/L		12-NOV-20	R5284941
Barium (Ba)-Dissolved	0.0394		0.010	mg/L		12-NOV-20	R5284941
Beryllium (Be)-Dissolved	0.000004	<DL	0.0010	mg/L		12-NOV-20	R5284941
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		12-NOV-20	R5284941
Boron (B)-Dissolved	0.0565		0.050	mg/L		12-NOV-20	R5284941
Cadmium (Cd)-Dissolved	0.0000080	<DL	0.000017	mg/L		12-NOV-20	R5284941
Calcium (Ca)-Dissolved	90.7		0.20	mg/L		12-NOV-20	R5284941
Cesium (Cs)-Dissolved	0.0000705		0.000010	mg/L		12-NOV-20	R5284941
Chromium (Cr)-Dissolved	0.00011	<DL	0.0010	mg/L		12-NOV-20	R5284941
Cobalt (Co)-Dissolved	0.000792	<T	0.00050	mg/L		12-NOV-20	R5284941
Copper (Cu)-Dissolved	0.00460	<T	0.0010	mg/L		12-NOV-20	R5284941
Iron (Fe)-Dissolved	0.160		0.020	mg/L		12-NOV-20	R5284941
Lead (Pb)-Dissolved	0.00004	<DL	0.000050	mg/L		12-NOV-20	R5284941
Lithium (Li)-Dissolved	0.0102	<DL	0.050	mg/L		12-NOV-20	R5284941
Magnesium (Mg)-Dissolved	20.9		0.020	mg/L		12-NOV-20	R5284941
Manganese (Mn)-Dissolved	0.0237		0.0010	mg/L		12-NOV-20	R5284941
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		13-NOV-20	R5285027
Molybdenum (Mo)-Dissolved	0.00579	<T	0.0010	mg/L		12-NOV-20	R5284941

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526654-4 SW24_SW_20201104							
Sampled By: Client on 04-NOV-20 @ 08:45							
Matrix: Water							
Dissolved Metals							
Nickel (Ni)-Dissolved	0.00122	<DL	0.0020	mg/L		12-NOV-20	R5284941
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		12-NOV-20	R5284941
Potassium (K)-Dissolved	26.6		0.50	mg/L		12-NOV-20	R5284941
Rubidium (Rb)-Dissolved	0.0140		0.00020	mg/L		12-NOV-20	R5284941
Selenium (Se)-Dissolved	0.000300	<T	0.000050	mg/L		12-NOV-20	R5284941
Silicon (Si)-Dissolved	2.70		0.050	mg/L		12-NOV-20	R5284941
Silver (Ag)-Dissolved	0.0000020	<DL	0.00010	mg/L		12-NOV-20	R5284941
Sodium (Na)-Dissolved	57.3		0.10	mg/L		12-NOV-20	R5284941
Strontium (Sr)-Dissolved	0.322		0.0010	mg/L		12-NOV-20	R5284941
Sulfur (S)-Dissolved	110		0.50	mg/L		12-NOV-20	R5284941
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		12-NOV-20	R5284941
Thallium (Tl)-Dissolved	0.000006	<DL	0.00030	mg/L		12-NOV-20	R5284941
Thorium (Th)-Dissolved	0.00002	<DL	0.00010	mg/L		12-NOV-20	R5284941
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		12-NOV-20	R5284941
Titanium (Ti)-Dissolved	0.00084	<DL	0.0020	mg/L		12-NOV-20	R5284941
Tungsten (W)-Dissolved	0.000058	<DL	0.010	mg/L		12-NOV-20	R5284941
Uranium (U)-Dissolved	0.00164	<DL	0.0050	mg/L		12-NOV-20	R5284941
Vanadium (V)-Dissolved	0.00032	<DL	0.0010	mg/L		12-NOV-20	R5284941
Zinc (Zn)-Dissolved	0.0020	<DL	0.0030	mg/L		12-NOV-20	R5284941
Zirconium (Zr)-Dissolved	0.000192	<DL	0.0010	mg/L		12-NOV-20	R5284941
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		06-NOV-20	R5283826
Chemical Oxygen Demand	53		20	mg/L	13-NOV-20	13-NOV-20	R5285262
Oil and Grease, Total	1.4		1.0	mg/L	10-NOV-20	10-NOV-20	R5283757
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		30-NOV-20	R5308870

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Duplicate	Chloride (Cl)	DUP-H	L2526654-1, -2, -3, -4
Laboratory Control Sample	Iron (Fe)-Dissolved	MES	L2526654-1, -2, -3, -4
Matrix Spike	Barium (Ba)-Total	MS-B	L2526654-1, -2, -3, -4
Matrix Spike	Barium (Ba)-Total	MS-B	L2526654-1, -2, -3, -4
Matrix Spike	Calcium (Ca)-Total	MS-B	L2526654-1, -2, -3, -4
Matrix Spike	Calcium (Ca)-Total	MS-B	L2526654-1, -2, -3, -4
Matrix Spike	Iron (Fe)-Total	MS-B	L2526654-1, -2, -3, -4
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2526654-1, -2, -3, -4
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2526654-1, -2, -3, -4
Matrix Spike	Manganese (Mn)-Total	MS-B	L2526654-1, -2, -3, -4
Matrix Spike	Manganese (Mn)-Total	MS-B	L2526654-1, -2, -3, -4
Matrix Spike	Potassium (K)-Total	MS-B	L2526654-1, -2, -3, -4
Matrix Spike	Potassium (K)-Total	MS-B	L2526654-1, -2, -3, -4
Matrix Spike	Silicon (Si)-Total	MS-B	L2526654-1, -2, -3, -4
Matrix Spike	Sodium (Na)-Total	MS-B	L2526654-1, -2, -3, -4
Matrix Spike	Sodium (Na)-Total	MS-B	L2526654-1, -2, -3, -4
Matrix Spike	Strontium (Sr)-Total	MS-B	L2526654-1, -2, -3, -4
Matrix Spike	Strontium (Sr)-Total	MS-B	L2526654-1, -2, -3, -4
Matrix Spike	Sulfur (S)-Total	MS-B	L2526654-1, -2, -3, -4
Matrix Spike	Total Organic Carbon	MS-B	L2526654-1, -2, -3, -4

Sample Parameter Qualifier key listed:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-MISA-TB	Effluent	Acidity (as CaCO ₃)	APHA 2310 B-POTENTIOMETRIC TITRATION
Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample.			
ALK-MISA-TB	Effluent	Alkalinity, Total (as CaCO ₃)	APHA 2320 B-Auto-Pot. Titration
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
BOD-TB	Water	Biochemical Oxygen Demand (BOD)	APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND
All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation.			
CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
CN-FREE-MISA-CFA-WT	Effluent	Free Cyanide by Continuous Flow Analyzer	ASTM D7237-10 (modified)
This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis.			
CN-T-MISA-CFA-WT	Effluent	Total Cyanide by CFA	ISO 14403-2:2012 (modified)
This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis.			

Reference Information

Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.

CN-WAD-MISA-CFA-WT	Effluent	Weak Acid Dissociable Cyanide by CFA	APHA 4500-CN CYANIDE (modified)
--------------------	----------	--------------------------------------	---------------------------------

This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.

COD-TB	Water	Chemical Oxygen Demand	APHA 5220D
--------	-------	------------------------	------------

This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.

COLOUR-TB	Water	Colour, True	APHA 2120 C
-----------	-------	--------------	-------------

True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard.

DOC-WT	Effluent	Dissolved Organic Carbon for MISA	APHA 5310 B-Instrumental
--------	----------	-----------------------------------	--------------------------

EC-MISA-TB	Effluent	Conductivity (EC)	APHA 2510 B-ELECTRODE
------------	----------	-------------------	-----------------------

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)
-----------	-------	-------------------------	-----------------

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Effluent	Hardness (as CaCO ₃)	CALCULATION
------------------	----------	----------------------------------	-------------

HG-DIS-WT	Effluent	Mercury (Hg)-Dissolved for MISA	SW846 7470A
-----------	----------	---------------------------------	-------------

HG-TOT-WT	Effluent	Mercury (Hg)-Total for MISA	SW846 7470A
-----------	----------	-----------------------------	-------------

MET-D-MISA-TB	Effluent	Dissolved Metals in Water (MISA)	APHA 3030B/6020B (mod)
---------------	----------	----------------------------------	------------------------

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-MISA-TB	Effluent	Total Metals in Water (MISA)	EPA 200.2/6020B (mod)
---------------	----------	------------------------------	-----------------------

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-MISA-F-TB	Effluent	Ammonia by Discrete Analyzer	catnr 157/158 062217/99321057 (modified)
---------------	----------	------------------------------	--

Ammonia is determined by Flow-injection analysis with fluorescence detection

NH3-UNION-CALC-TB	Effluent	Un-ionized ammonia	Calculation
-------------------	----------	--------------------	-------------

NO2-MISA-IC-TB	Effluent	Nitrite in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

NO3-MISA-IC-TB	Effluent	Nitrate in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

OGG-TOT-WT	Effluent	Oil and Grease, Total for MISA	APHA 5520 B-Hexane Gravimetric
------------	----------	--------------------------------	--------------------------------

PH-CLIENT-TB	Water	pH	Result supplied by Client
--------------	-------	----	---------------------------

PH-MISA-TB	Effluent	pH	APHA 4500-H-ELECTRODE
------------	----------	----	-----------------------

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

Reference Information

PO4-DO-COL-TB	Water	Dissolved Orthophosphate	APHA 4500-P B, F, G (modified)
Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.			
RA226-MMER-BE	Water	Radium 226	Radium Isotopes by Alpha Spectrometry
Determination of Gamma Emitting Radionuclides In Water and Solids by Gamma Spectrometry.			
SO4-MISA-IC-TB	Effluent	Sulfate in Water by IC	EPA 300.1 (mod)
Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.			
TDS-MISA-TB	Effluent	Total Dissolved Solids	APHA 2540 C (modified)
Aqueous matrices are analyzed using gravimetry and evaporation			
TEMP-CLIENT-TB	Water	Temperature	Result supplied by Client
TKN-F-TB	Water	TKN in Water by Fluorescence	catnr 157/158, 062818/99334821
Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection			
TOC-WT	Water	Total Organic Carbon	APHA 5310B
Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.			
TSS-MISA-TB	Effluent	Total Suspended Solids	APHA 2540 D (modified)
Aqueous matrices are analyzed using gravimetry			
TURBIDITY-TB	Water	Turbidity	APHA 2130 B-Nephelometer
Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
BE	BECQUEREL LABORATORIES INC. - MISSISSAUGA, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2526654

Report Date: 23-DEC-20

Page 1 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BOD-TB		Water						
Batch	R5283826							
WG3440523-6	LCS							
Biochemical Oxygen Demand			91.5		%		85-115	06-NOV-20
WG3440523-5	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	06-NOV-20
CL-L-IC-N-TB		Water						
Batch	R5283258							
WG3441820-3	DUP	L2526755-14						
Chloride (Cl)		7.14	5.56	DUP-H	mg/L	25	20	09-NOV-20
WG3441820-2	LCS							
Chloride (Cl)			108.4		%		90-110	09-NOV-20
WG3441820-1	MB							
Chloride (Cl)			<0.20		mg/L		0.2	09-NOV-20
WG3441820-4	MS	L2524970-1						
Chloride (Cl)			114.7		%		75-125	09-NOV-20
COD-TB		Water						
Batch	R5285262							
WG3444430-3	DUP	L2526654-1						
Chemical Oxygen Demand		68	68		mg/L	0.2	20	13-NOV-20
WG3444430-2	LCS							
Chemical Oxygen Demand			107.0		%		85-115	13-NOV-20
WG3444430-1	MB							
Chemical Oxygen Demand			<20		mg/L		20	13-NOV-20
WG3444430-4	MS	L2526654-2						
Chemical Oxygen Demand			101.7		%		75-125	13-NOV-20
COLOUR-TB		Water						
Batch	R5282151							
WG3440922-3	DUP	L2526722-1						
Color, True		<2.0	<2.0	RPD-NA	CU	N/A	20	07-NOV-20
WG3440922-2	LCS							
Color, True			99.0		%		85-115	07-NOV-20
WG3440922-1	MB							
Color, True			<2.0		CU		2	07-NOV-20
F-IC-N-TB		Water						
Batch	R5283258							
WG3441820-2	LCS							
Fluoride (F)			105.5		%		90-110	09-NOV-20
WG3441820-1	MB							

Quality Control Report

Workorder: L2526654

Report Date: 23-DEC-20

Page 2 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F-IC-N-TB								
	Water							
Batch	R5283258							
WG3441820-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	09-NOV-20
PO4-DO-COL-TB								
	Water							
Batch	R5283229							
WG3440941-3	DUP	L2526654-1						
Orthophosphate-Dissolved (as P)		0.0060	0.0061		mg/L	0.7	20	09-NOV-20
WG3440941-2	LCS							
Orthophosphate-Dissolved (as P)			99.96		%		80-120	09-NOV-20
WG3440941-1	MB							
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	09-NOV-20
WG3440941-4	MS	L2526654-2						
Orthophosphate-Dissolved (as P)			99.7		%		70-130	09-NOV-20
TKN-F-TB								
	Water							
Batch	R5285197							
WG3443710-3	DUP	L2526654-1						
Total Kjeldahl Nitrogen		1.01	0.938		mg/L	7.8	20	13-NOV-20
WG3443710-2	LCS							
Total Kjeldahl Nitrogen			97.1		%		75-125	13-NOV-20
WG3443710-1	MB							
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	13-NOV-20
WG3443710-4	MS	L2526654-2						
Total Kjeldahl Nitrogen			108.1		%		70-130	13-NOV-20
TOC-WT								
	Water							
Batch	R5286204							
WG3443626-3	DUP	L2526654-4						
Total Organic Carbon		22.2	23.1		mg/L	3.8	20	16-NOV-20
WG3443626-2	LCS							
Total Organic Carbon			102.6		%		80-120	16-NOV-20
WG3443626-1	MB							
Total Organic Carbon			<0.50		mg/L		0.5	16-NOV-20
WG3443626-4	MS	L2526654-4						
Total Organic Carbon			N/A	MS-B	%		-	16-NOV-20
TURBIDITY-TB								
	Water							

Quality Control Report

Workorder: L2526654

Report Date: 23-DEC-20

Page 3 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TURBIDITY-TB		Water						
Batch	R5281551							
WG3440452-3	DUP	L2526654-4						
Turbidity		3.21	3.25		NTU	1.2	15	06-NOV-20
WG3440452-2	LCS							
Turbidity			101.0		%		85-115	06-NOV-20
WG3440452-1	MB							
Turbidity			<0.10		NTU		0.1	06-NOV-20
ACY-MISA-TB		Effluent						
Batch	R5282559							
WG3440914-2	LCS							
Acidity (as CaCO3)			101.2		%		85-115	08-NOV-20
WG3440914-1	MB							
Acidity (as CaCO3)			1.8		mg/L		4	08-NOV-20
ALK-MISA-TB		Effluent						
Batch	R5282372							
WG3440895-3	DUP	L2526755-14						
Alkalinity, Total (as CaCO3)		575	577		mg/L	0.3	20	07-NOV-20
Alkalinity, Phenolphthalein		<0.2	<0.2	RPD-NA	mg/L	N/A	25	07-NOV-20
WG3440895-2	LCS							
Alkalinity, Total (as CaCO3)			103.5		%		85-115	07-NOV-20
WG3440895-1	MB							
Alkalinity, Total (as CaCO3)			<0.2		mg/L		2	07-NOV-20
Alkalinity, Phenolphthalein			<0.2		mg/L		2	07-NOV-20
CN-FREE-MISA-CFA-WT		Effluent						
Batch	R5284116							
WG3442914-3	DUP	L2526746-1						
Cyanide, Free		0.0002	0.0003	RPD-NA	mg/L	N/A	20	10-NOV-20
WG3442914-2	LCS							
Cyanide, Free			99.0		%		80-120	10-NOV-20
WG3442914-1	MB							
Cyanide, Free			0.0003		mg/L		0.002	10-NOV-20
WG3442914-4	MS	L2526746-1						
Cyanide, Free			109.1		%		75-125	10-NOV-20
CN-T-MISA-CFA-WT		Effluent						
Batch	R5284116							
WG3442914-3	DUP	L2526746-1						
Cyanide, Total		0.0008	0.0004	RPD-NA	mg/L	N/A	20	10-NOV-20
WG3442914-2	LCS							

Quality Control Report

Workorder: L2526654

Report Date: 23-DEC-20

Page 4 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CN-T-MISA-CFA-WT								
	Effluent							
Batch	R5284116							
WG3442914-2	LCS							
Cyanide, Total			97.8		%		80-120	10-NOV-20
WG3442914-1	MB							
Cyanide, Total			<0.0002		mg/L		0.002	10-NOV-20
WG3442914-4	MS	L2526746-1						
Cyanide, Total			102.1		%		75-125	10-NOV-20
CN-WAD-MISA-CFA-WT								
	Effluent							
Batch	R5284116							
WG3442914-3	DUP	L2526746-1						
Cyanide, Weak Acid Diss		0.0006	0.0005	RPD-NA	mg/L	N/A	20	10-NOV-20
WG3442914-2	LCS							
Cyanide, Weak Acid Diss			97.7		%		80-120	10-NOV-20
WG3442914-1	MB							
Cyanide, Weak Acid Diss			<0.0001		mg/L		0.002	10-NOV-20
WG3442914-4	MS	L2526746-1						
Cyanide, Weak Acid Diss			107.0		%		75-125	10-NOV-20
DOC-WT								
	Effluent							
Batch	R5285893							
WG3443015-3	DUP	WG3443015-5						
Dissolved Organic Carbon		4.33	4.17		mg/L	3.8	25	13-NOV-20
WG3443015-2	LCS							
Dissolved Organic Carbon			94.0		%		70-130	13-NOV-20
WG3443015-1	MB							
Dissolved Organic Carbon			<0.50		mg/L		0.5	13-NOV-20
EC-MISA-TB								
	Effluent							
Batch	R5282372							
WG3440895-3	DUP	L2526755-14						
Conductivity (EC)		977	982		uS/cm	0.5	10	07-NOV-20
WG3440895-2	LCS							
Conductivity (EC)			98.7		%		90-110	07-NOV-20
WG3440895-1	MB							
Conductivity (EC)			0.8		uS/cm		2	07-NOV-20
HG-DIS-WT								
	Effluent							
Batch	R5285027							
WG3443509-3	DUP	L2526654-1						
Mercury (Hg)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	13-NOV-20
WG3443509-2	LCS							

Quality Control Report

Workorder: L2526654

Report Date: 23-DEC-20

Page 5 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-DIS-WT		Effluent						
Batch	R5285027							
WG3443509-2	LCS							
Mercury (Hg)-Dissolved			112.0		%		80-120	13-NOV-20
WG3443509-1	MB							
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.00003	13-NOV-20
WG3443509-4	MS	L2526654-2						
Mercury (Hg)-Dissolved			121.1		%		70-130	13-NOV-20
HG-TOT-WT		Effluent						
Batch	R5285046							
WG3443517-3	DUP	L2526654-1						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	13-NOV-20
WG3443517-2	LCS							
Mercury (Hg)-Total			114.0		%		80-120	13-NOV-20
WG3443517-1	MB							
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	13-NOV-20
WG3443517-4	MS	L2526654-2						
Mercury (Hg)-Total			117.0		%		70-130	13-NOV-20
MET-D-MISA-TB		Effluent						
Batch	R5284941							
WG3443590-2	LCS							
Aluminum (Al)-Dissolved			103.5		%		80-120	12-NOV-20
Antimony (Sb)-Dissolved			99.3		%		80-120	12-NOV-20
Arsenic (As)-Dissolved			105.3		%		80-120	12-NOV-20
Barium (Ba)-Dissolved			99.3		%		80-120	12-NOV-20
Beryllium (Be)-Dissolved			95.8		%		80-120	12-NOV-20
Bismuth (Bi)-Dissolved			96.8		%		80-120	12-NOV-20
Boron (B)-Dissolved			94.2		%		80-120	12-NOV-20
Cadmium (Cd)-Dissolved			101.3		%		80-120	12-NOV-20
Calcium (Ca)-Dissolved			100.4		%		80-120	12-NOV-20
Cesium (Cs)-Dissolved			104.0		%		80-120	12-NOV-20
Chromium (Cr)-Dissolved			102.3		%		80-120	12-NOV-20
Cobalt (Co)-Dissolved			102.4		%		80-120	12-NOV-20
Copper (Cu)-Dissolved			101.3		%		80-120	12-NOV-20
Iron (Fe)-Dissolved			124.9	MES	%		80-120	12-NOV-20
Lead (Pb)-Dissolved			97.5		%		80-120	12-NOV-20
Lithium (Li)-Dissolved			98.1		%		80-120	12-NOV-20
Magnesium (Mg)-Dissolved			100.2		%		80-120	12-NOV-20

Quality Control Report

Workorder: L2526654

Report Date: 23-DEC-20

Page 6 of 20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R5284941							
WG3443590-2 LCS								
Manganese (Mn)-Dissolved			103.2		%		80-120	12-NOV-20
Molybdenum (Mo)-Dissolved			101.6		%		80-120	12-NOV-20
Nickel (Ni)-Dissolved			100.0		%		80-120	12-NOV-20
Phosphorus (P)-Dissolved			105.5		%		70-130	12-NOV-20
Potassium (K)-Dissolved			103.8		%		80-120	12-NOV-20
Rubidium (Rb)-Dissolved			102.9		%		80-120	12-NOV-20
Selenium (Se)-Dissolved			106.8		%		80-120	12-NOV-20
Silicon (Si)-Dissolved			103.4		%		60-140	12-NOV-20
Silver (Ag)-Dissolved			100.2		%		80-120	12-NOV-20
Sodium (Na)-Dissolved			105.2		%		80-120	12-NOV-20
Strontium (Sr)-Dissolved			105.1		%		80-120	12-NOV-20
Sulfur (S)-Dissolved			94.2		%		80-120	12-NOV-20
Tellurium (Te)-Dissolved			102.0		%		80-120	12-NOV-20
Thallium (Tl)-Dissolved			98.6		%		80-120	12-NOV-20
Thorium (Th)-Dissolved			101.9		%		80-120	12-NOV-20
Tin (Sn)-Dissolved			99.1		%		80-120	12-NOV-20
Titanium (Ti)-Dissolved			97.8		%		80-120	12-NOV-20
Tungsten (W)-Dissolved			98.4		%		80-120	12-NOV-20
Uranium (U)-Dissolved			104.7		%		80-120	12-NOV-20
Vanadium (V)-Dissolved			103.6		%		80-120	12-NOV-20
Zinc (Zn)-Dissolved			100.2		%		80-120	12-NOV-20
Zirconium (Zr)-Dissolved			105.0		%		80-120	12-NOV-20
WG3443590-1 MB								
Aluminum (Al)-Dissolved			<0.0002		mg/L		0.005	12-NOV-20
Antimony (Sb)-Dissolved			<0.000005		mg/L		0.0006	12-NOV-20
Arsenic (As)-Dissolved			<0.0000002		mg/L		0.001	12-NOV-20
Barium (Ba)-Dissolved			<0.000005		mg/L		0.01	12-NOV-20
Beryllium (Be)-Dissolved			<0.000002		mg/L		0.001	12-NOV-20
Bismuth (Bi)-Dissolved			<0.000002		mg/L		0.001	12-NOV-20
Boron (B)-Dissolved			<0.0005		mg/L		0.05	12-NOV-20
Cadmium (Cd)-Dissolved			<0.0000005		mg/L		0.000017	12-NOV-20
Calcium (Ca)-Dissolved			0.004		mg/L		0.2	12-NOV-20
Cesium (Cs)-Dissolved			<0.0000005		mg/L		0.00001	12-NOV-20
Chromium (Cr)-Dissolved			<0.00001		mg/L		0.001	12-NOV-20

Quality Control Report

Workorder: L2526654

Report Date: 23-DEC-20

Page 7 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB								
	Effluent							
Batch	R5284941							
WG3443590-1	MB							
Cobalt (Co)-Dissolved			<0.000002		mg/L		0.0005	12-NOV-20
Copper (Cu)-Dissolved			<0.00002		mg/L		0.001	12-NOV-20
Iron (Fe)-Dissolved			<0.0005		mg/L		0.02	12-NOV-20
Lead (Pb)-Dissolved			<0.00001		mg/L		0.00005	12-NOV-20
Lithium (Li)-Dissolved			<0.0002		mg/L		0.05	12-NOV-20
Magnesium (Mg)-Dissolved			<0.0005		mg/L		0.02	12-NOV-20
Manganese (Mn)-Dissolved			<0.00002		mg/L		0.001	12-NOV-20
Molybdenum (Mo)-Dissolved			<0.000002		mg/L		0.001	12-NOV-20
Nickel (Ni)-Dissolved			<0.00002		mg/L		0.002	12-NOV-20
Phosphorus (P)-Dissolved			<0.005		mg/L		0.05	12-NOV-20
Potassium (K)-Dissolved			<0.01		mg/L		0.5	12-NOV-20
Rubidium (Rb)-Dissolved			0.000002		mg/L		0.0002	12-NOV-20
Selenium (Se)-Dissolved			0.000010		mg/L		0.00005	12-NOV-20
Silicon (Si)-Dissolved			<0.005		mg/L		0.05	12-NOV-20
Silver (Ag)-Dissolved			<0.0000005		mg/L		0.0001	12-NOV-20
Sodium (Na)-Dissolved			0.010		mg/L		0.1	12-NOV-20
Strontium (Sr)-Dissolved			0.00002		mg/L		0.001	12-NOV-20
Sulfur (S)-Dissolved			<0.2		mg/L		0.5	12-NOV-20
Tellurium (Te)-Dissolved			<0.00001		mg/L		0.001	12-NOV-20
Thallium (Tl)-Dissolved			<0.000002		mg/L		0.0003	12-NOV-20
Thorium (Th)-Dissolved			<0.00001		mg/L		0.0001	12-NOV-20
Tin (Sn)-Dissolved			<0.000005		mg/L		0.001	12-NOV-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.002	12-NOV-20
Tungsten (W)-Dissolved			<0.000002		mg/L		0.01	12-NOV-20
Uranium (U)-Dissolved			<0.0000005		mg/L		0.005	12-NOV-20
Vanadium (V)-Dissolved			<0.00002		mg/L		0.001	12-NOV-20
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.003	12-NOV-20
Zirconium (Zr)-Dissolved			<0.000002		mg/L		0.001	12-NOV-20
MET-T-MISA-TB								
	Effluent							
Batch	R5284126							
WG3442472-3	DUP	L2526654-2						
Aluminum (Al)-Total		0.0530	0.0546		mg/L	2.9	20	11-NOV-20
Antimony (Sb)-Total		0.0116	0.0117		mg/L	0.5	20	11-NOV-20

Quality Control Report

Workorder: L2526654

Report Date: 23-DEC-20

Page 8 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5284126							
WG3442472-3	DUP	L2526654-2						
Arsenic (As)-Total		0.00129	0.00137		mg/L	6.1	20	11-NOV-20
Barium (Ba)-Total		0.0430	0.0442		mg/L	2.7	20	11-NOV-20
Beryllium (Be)-Total		0.0000010	<0.0000001	RPD-NA	mg/L	N/A	20	11-NOV-20
Bismuth (Bi)-Total		<0.000001	<0.000001	RPD-NA	mg/L	N/A	20	11-NOV-20
Boron (B)-Total		0.0590	0.0595		mg/L	1.2	20	11-NOV-20
Cadmium (Cd)-Total		0.000006	0.000008	RPD-NA	mg/L	N/A	20	11-NOV-20
Calcium (Ca)-Total		98.8	99.3		mg/L	0.5	20	11-NOV-20
Cesium (Cs)-Total		0.000285	0.000288		mg/L	0.9	20	11-NOV-20
Chromium (Cr)-Total		0.00022	0.00020	RPD-NA	mg/L	N/A	20	11-NOV-20
Cobalt (Co)-Total		0.000895	0.000905		mg/L	1.3	20	11-NOV-20
Copper (Cu)-Total		0.00264	0.00264		mg/L	0.5	20	11-NOV-20
Iron (Fe)-Total		0.151	0.157		mg/L	3.5	20	11-NOV-20
Lead (Pb)-Total		0.00015	0.00015		mg/L	0.7	20	11-NOV-20
Lithium (Li)-Total		0.0114	0.0114	RPD-NA	mg/L	N/A	20	11-NOV-20
Magnesium (Mg)-Total		24.1	24.6		mg/L	1.9	20	11-NOV-20
Manganese (Mn)-Total		0.0246	0.0252		mg/L	2.2	20	11-NOV-20
Molybdenum (Mo)-Total		0.00700	0.00707		mg/L	0.9	20	11-NOV-20
Nickel (Ni)-Total		0.00170	0.00176	RPD-NA	mg/L	N/A	20	11-NOV-20
Phosphorus (P)-Total		0.015	0.015	RPD-NA	mg/L	N/A	20	11-NOV-20
Potassium (K)-Total		27.9	28.4		mg/L	1.7	20	11-NOV-20
Rubidium (Rb)-Total		0.0149	0.0149		mg/L	0.5	20	11-NOV-20
Selenium (Se)-Total		0.000285	0.000215	J	mg/L	0.000069	0.0001	11-NOV-20
Silicon (Si)-Total		2.63	2.70		mg/L	2.7	20	11-NOV-20
Silver (Ag)-Total		0.000001	0.000001	RPD-NA	mg/L	N/A	20	11-NOV-20
Sodium (Na)-Total		60.9	61.6		mg/L	1.1	20	11-NOV-20
Strontium (Sr)-Total		0.361	0.364		mg/L	0.8	20	11-NOV-20
Sulfur (S)-Total		108	111		mg/L	2.6	20	11-NOV-20
Tellurium (Te)-Total		0.00004	0.00004	RPD-NA	mg/L	N/A	20	11-NOV-20
Thallium (Tl)-Total		0.000010	0.000010	RPD-NA	mg/L	N/A	20	11-NOV-20
Thorium (Th)-Total		0.00001	0.00001	RPD-NA	mg/L	N/A	20	11-NOV-20
Tin (Sn)-Total		0.00005	0.00005	RPD-NA	mg/L	N/A	20	11-NOV-20
Titanium (Ti)-Total		0.00188	0.00187	RPD-NA	mg/L	N/A	20	11-NOV-20
Tungsten (W)-Total		0.00006	0.00006		mg/L			11-NOV-20

Quality Control Report

Workorder: L2526654

Report Date: 23-DEC-20

Page 9 of 20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R5284126							
WG3442472-3	DUP	L2526654-2						
Tungsten (W)-Total		0.00006	0.00006	RPD-NA	mg/L	N/A	20	11-NOV-20
Uranium (U)-Total		0.00224	0.00222	RPD-NA	mg/L	N/A	20	11-NOV-20
Vanadium (V)-Total		0.00035	0.00035	RPD-NA	mg/L	N/A	20	11-NOV-20
Zinc (Zn)-Total		0.0005	<0.0005	RPD-NA	mg/L	N/A	20	11-NOV-20
Zirconium (Zr)-Total		0.000150	0.000156	RPD-NA	mg/L	N/A	20	11-NOV-20
WG3442472-7	DUP	L2526755-1						
Aluminum (Al)-Total		0.0016	0.0014	RPD-NA	mg/L	N/A	20	11-NOV-20
Antimony (Sb)-Total		0.000025	0.000020	RPD-NA	mg/L	N/A	20	11-NOV-20
Arsenic (As)-Total		0.0110	0.0108		mg/L	2.3	20	11-NOV-20
Barium (Ba)-Total		0.0971	0.101		mg/L	3.5	20	11-NOV-20
Beryllium (Be)-Total		<0.0000001	<0.0000001	RPD-NA	mg/L	N/A	20	11-NOV-20
Bismuth (Bi)-Total		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	11-NOV-20
Boron (B)-Total		0.0895	0.0895		mg/L	0.1	20	11-NOV-20
Cadmium (Cd)-Total		0.000014	0.000012	RPD-NA	mg/L	N/A	20	11-NOV-20
Calcium (Ca)-Total		86.6	86.7		mg/L	0.1	20	11-NOV-20
Cesium (Cs)-Total		0.0000120	0.0000110		mg/L	8.7	20	11-NOV-20
Chromium (Cr)-Total		0.00014	0.00012	RPD-NA	mg/L	N/A	20	11-NOV-20
Cobalt (Co)-Total		0.000140	0.000145	RPD-NA	mg/L	N/A	20	11-NOV-20
Copper (Cu)-Total		0.00986	0.00980		mg/L	0.5	20	11-NOV-20
Iron (Fe)-Total		0.644	0.631		mg/L	2.1	20	11-NOV-20
Lead (Pb)-Total		0.00020	0.00020		mg/L	3.1	20	11-NOV-20
Lithium (Li)-Total		0.0358	0.0354	RPD-NA	mg/L	N/A	20	11-NOV-20
Magnesium (Mg)-Total		35.1	35.4		mg/L	0.9	20	11-NOV-20
Manganese (Mn)-Total		0.358	0.357		mg/L	0.3	20	11-NOV-20
Molybdenum (Mo)-Total		0.00446	0.00433		mg/L	3.0	20	11-NOV-20
Nickel (Ni)-Total		0.00222	0.00230		mg/L	3.5	20	11-NOV-20
Phosphorus (P)-Total		0.080	0.080		mg/L	0.4	20	11-NOV-20
Potassium (K)-Total		5.21	5.23		mg/L	0.3	20	11-NOV-20
Rubidium (Rb)-Total		0.00158	0.00152		mg/L	3.7	20	11-NOV-20
Selenium (Se)-Total		0.000025	0.000035	RPD-NA	mg/L	N/A	20	11-NOV-20
Silicon (Si)-Total		12.0	12.2		mg/L	1.7	20	11-NOV-20
Silver (Ag)-Total		0.000014	0.000013	RPD-NA	mg/L	N/A	20	11-NOV-20
Sodium (Na)-Total		19.8	19.7		mg/L	0.6	20	11-NOV-20

Quality Control Report

Workorder: L2526654

Report Date: 23-DEC-20

Page 10 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5284126							
WG3442472-7	DUP	L2526755-1						
Strontium (Sr)-Total		0.642	0.640		mg/L	0.4	20	11-NOV-20
Sulfur (S)-Total		7.4	7.8		mg/L	3.4	20	11-NOV-20
Tellurium (Te)-Total		0.00006	0.00006	RPD-NA	mg/L	N/A	20	11-NOV-20
Thallium (Tl)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	11-NOV-20
Thorium (Th)-Total		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	11-NOV-20
Tin (Sn)-Total		0.00006	0.00006	RPD-NA	mg/L	N/A	20	11-NOV-20
Titanium (Ti)-Total		0.00012	0.00011	RPD-NA	mg/L	N/A	20	11-NOV-20
Tungsten (W)-Total		0.00007	0.00008	RPD-NA	mg/L	N/A	20	11-NOV-20
Uranium (U)-Total		0.0131	0.0135		mg/L	3.2	20	11-NOV-20
Vanadium (V)-Total		0.00015	0.00015	RPD-NA	mg/L	N/A	20	11-NOV-20
Zinc (Zn)-Total		0.0270	0.0275		mg/L	1.8	20	11-NOV-20
Zirconium (Zr)-Total		0.000084	0.000080	RPD-NA	mg/L	N/A	20	11-NOV-20
WG3442472-2	LCS							
Aluminum (Al)-Total			101.0		%		80-120	11-NOV-20
Antimony (Sb)-Total			106.5		%		80-120	11-NOV-20
Arsenic (As)-Total			102.1		%		80-120	11-NOV-20
Barium (Ba)-Total			106.7		%		80-120	11-NOV-20
Beryllium (Be)-Total			98.7		%		80-120	11-NOV-20
Bismuth (Bi)-Total			102.8		%		80-120	11-NOV-20
Boron (B)-Total			93.3		%		80-120	11-NOV-20
Cadmium (Cd)-Total			101.5		%		80-120	11-NOV-20
Calcium (Ca)-Total			101.3		%		80-120	11-NOV-20
Cesium (Cs)-Total			107.4		%		80-120	11-NOV-20
Chromium (Cr)-Total			101.6		%		80-120	11-NOV-20
Cobalt (Co)-Total			101.9		%		80-120	11-NOV-20
Copper (Cu)-Total			100.0		%		80-120	11-NOV-20
Iron (Fe)-Total			118.0		%		80-120	11-NOV-20
Lead (Pb)-Total			102.7		%		80-120	11-NOV-20
Lithium (Li)-Total			103.0		%		80-120	11-NOV-20
Magnesium (Mg)-Total			100.6		%		80-120	11-NOV-20
Manganese (Mn)-Total			101.8		%		80-120	11-NOV-20
Molybdenum (Mo)-Total			103.0		%		80-120	11-NOV-20
Nickel (Ni)-Total			101.0		%		80-120	11-NOV-20

Quality Control Report

Workorder: L2526654

Report Date: 23-DEC-20

Page 11 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5284126							
WG3442472-2 LCS								
Phosphorus (P)-Total			108.8		%		80-120	11-NOV-20
Potassium (K)-Total			105.8		%		80-120	11-NOV-20
Rubidium (Rb)-Total			104.1		%		80-120	11-NOV-20
Selenium (Se)-Total			101.1		%		80-120	11-NOV-20
Silicon (Si)-Total			99.98		%		80-120	11-NOV-20
Silver (Ag)-Total			104.4		%		80-120	11-NOV-20
Sodium (Na)-Total			103.8		%		80-120	11-NOV-20
Strontium (Sr)-Total			106.4		%		80-120	11-NOV-20
Sulfur (S)-Total			95.1		%		80-120	11-NOV-20
Tellurium (Te)-Total			98.3		%		80-120	11-NOV-20
Thallium (Tl)-Total			106.0		%		80-120	11-NOV-20
Thorium (Th)-Total			108.0		%		80-120	11-NOV-20
Tin (Sn)-Total			101.7		%		80-120	11-NOV-20
Titanium (Ti)-Total			103.0		%		80-120	11-NOV-20
Tungsten (W)-Total			106.3		%		80-120	11-NOV-20
Uranium (U)-Total			107.9		%		80-120	11-NOV-20
Vanadium (V)-Total			102.6		%		80-120	11-NOV-20
Zinc (Zn)-Total			98.8		%		80-120	11-NOV-20
Zirconium (Zr)-Total			108.0		%		80-120	11-NOV-20
WG3442472-6 LCS								
Aluminum (Al)-Total			101.3		%		80-120	11-NOV-20
Antimony (Sb)-Total			105.4		%		80-120	11-NOV-20
Arsenic (As)-Total			102.8		%		80-120	11-NOV-20
Barium (Ba)-Total			104.9		%		80-120	11-NOV-20
Beryllium (Be)-Total			99.6		%		80-120	11-NOV-20
Bismuth (Bi)-Total			103.6		%		80-120	11-NOV-20
Boron (B)-Total			93.5		%		80-120	11-NOV-20
Cadmium (Cd)-Total			102.9		%		80-120	11-NOV-20
Calcium (Ca)-Total			102.2		%		80-120	11-NOV-20
Cesium (Cs)-Total			107.1		%		80-120	11-NOV-20
Chromium (Cr)-Total			101.7		%		80-120	11-NOV-20
Cobalt (Co)-Total			101.9		%		80-120	11-NOV-20
Copper (Cu)-Total			101.0		%		80-120	11-NOV-20
Iron (Fe)-Total			118.5		%		80-120	11-NOV-20

Quality Control Report

Workorder: L2526654

Report Date: 23-DEC-20

Page 12 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5284126							
WG3442472-6	LCS							
Lead (Pb)-Total			101.8		%		80-120	11-NOV-20
Lithium (Li)-Total			101.6		%		80-120	11-NOV-20
Magnesium (Mg)-Total			100.3		%		80-120	11-NOV-20
Manganese (Mn)-Total			100.6		%		80-120	11-NOV-20
Molybdenum (Mo)-Total			105.2		%		80-120	11-NOV-20
Nickel (Ni)-Total			100.9		%		80-120	11-NOV-20
Phosphorus (P)-Total			106.9		%		80-120	11-NOV-20
Potassium (K)-Total			105.9		%		80-120	11-NOV-20
Rubidium (Rb)-Total			103.9		%		80-120	11-NOV-20
Selenium (Se)-Total			103.3		%		80-120	11-NOV-20
Silicon (Si)-Total			99.5		%		80-120	11-NOV-20
Silver (Ag)-Total			103.7		%		80-120	11-NOV-20
Sodium (Na)-Total			101.7		%		80-120	11-NOV-20
Strontium (Sr)-Total			106.9		%		80-120	11-NOV-20
Sulfur (S)-Total			100.9		%		80-120	11-NOV-20
Tellurium (Te)-Total			105.6		%		80-120	11-NOV-20
Thallium (Tl)-Total			104.0		%		80-120	11-NOV-20
Thorium (Th)-Total			107.4		%		80-120	11-NOV-20
Tin (Sn)-Total			103.2		%		80-120	11-NOV-20
Titanium (Ti)-Total			98.2		%		80-120	11-NOV-20
Tungsten (W)-Total			104.1		%		80-120	11-NOV-20
Uranium (U)-Total			105.5		%		80-120	11-NOV-20
Vanadium (V)-Total			101.9		%		80-120	11-NOV-20
Zinc (Zn)-Total			98.8		%		80-120	11-NOV-20
Zirconium (Zr)-Total			108.2		%		80-120	11-NOV-20
WG3442472-1	MB							
Aluminum (Al)-Total			0.0010		mg/L		0.005	11-NOV-20
Antimony (Sb)-Total			0.000015		mg/L		0.0006	11-NOV-20
Arsenic (As)-Total			0.00007		mg/L		0.001	11-NOV-20
Barium (Ba)-Total			<0.00001		mg/L		0.01	11-NOV-20
Beryllium (Be)-Total			<0.0000001		mg/L		0.001	11-NOV-20
Bismuth (Bi)-Total			<0.00001		mg/L		0.001	11-NOV-20
Boron (B)-Total			0.0025		mg/L		0.05	11-NOV-20
Cadmium (Cd)-Total			<0.000001		mg/L		0.000017	11-NOV-20

Quality Control Report

Workorder: L2526654

Report Date: 23-DEC-20

Page 13 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5284126							
WG3442472-1 MB								
Calcium (Ca)-Total			<0.002		mg/L		0.2	11-NOV-20
Cesium (Cs)-Total			0.0000010		mg/L		0.00001	11-NOV-20
Chromium (Cr)-Total			<0.00002		mg/L		0.001	11-NOV-20
Cobalt (Co)-Total			<0.000005		mg/L		0.0005	11-NOV-20
Copper (Cu)-Total			<0.00002		mg/L		0.001	11-NOV-20
Iron (Fe)-Total			0.0015		mg/L		0.02	11-NOV-20
Lead (Pb)-Total			<0.00001		mg/L		0.00005	11-NOV-20
Lithium (Li)-Total			0.0004		mg/L		0.05	11-NOV-20
Magnesium (Mg)-Total			0.0014		mg/L		0.02	11-NOV-20
Manganese (Mn)-Total			<0.0002		mg/L		0.001	11-NOV-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.001	11-NOV-20
Nickel (Ni)-Total			0.00002		mg/L		0.002	11-NOV-20
Phosphorus (P)-Total			<0.005		mg/L		0.05	11-NOV-20
Potassium (K)-Total			<0.01		mg/L		0.5	11-NOV-20
Rubidium (Rb)-Total			0.000006		mg/L		0.0002	11-NOV-20
Selenium (Se)-Total			0.000020		mg/L		0.00005	11-NOV-20
Silicon (Si)-Total			0.038		mg/L		0.1	11-NOV-20
Silver (Ag)-Total			0.000002		mg/L		0.0001	11-NOV-20
Sodium (Na)-Total			0.010		mg/L		0.1	11-NOV-20
Strontium (Sr)-Total			0.000115		mg/L		0.001	11-NOV-20
Sulfur (S)-Total			<0.2		mg/L		0.5	11-NOV-20
Tellurium (Te)-Total			<0.00002		mg/L		0.001	11-NOV-20
Thallium (Tl)-Total			<0.000005		mg/L		0.0003	11-NOV-20
Thorium (Th)-Total			<0.00001		mg/L		0.0001	11-NOV-20
Tin (Sn)-Total			<0.00001		mg/L		0.001	11-NOV-20
Titanium (Ti)-Total			0.00002		mg/L		0.002	11-NOV-20
Tungsten (W)-Total			<0.00001		mg/L		0.01	11-NOV-20
Uranium (U)-Total			<0.0000005		mg/L		0.005	11-NOV-20
Vanadium (V)-Total			0.00025		mg/L		0.001	11-NOV-20
Zinc (Zn)-Total			0.0025		mg/L		0.003	11-NOV-20
Zirconium (Zr)-Total			0.000002		mg/L		0.001	11-NOV-20
WG3442472-5 MB								
Aluminum (Al)-Total			0.0010		mg/L		0.005	11-NOV-20
Antimony (Sb)-Total			0.000015		mg/L		0.0006	11-NOV-20

Quality Control Report

Workorder: L2526654

Report Date: 23-DEC-20

Page 14 of 20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB	Effluent							
Batch	R5284126							
WG3442472-5 MB								
Arsenic (As)-Total			0.00010		mg/L		0.001	11-NOV-20
Barium (Ba)-Total			<0.00001		mg/L		0.01	11-NOV-20
Beryllium (Be)-Total			<0.0000001		mg/L		0.001	11-NOV-20
Bismuth (Bi)-Total			<0.00001		mg/L		0.001	11-NOV-20
Boron (B)-Total			0.0035		mg/L		0.05	11-NOV-20
Cadmium (Cd)-Total			<0.000001		mg/L		0.000017	11-NOV-20
Calcium (Ca)-Total			0.006		mg/L		0.2	11-NOV-20
Cesium (Cs)-Total			0.0000010		mg/L		0.00001	11-NOV-20
Chromium (Cr)-Total			<0.00002		mg/L		0.001	11-NOV-20
Cobalt (Co)-Total			<0.000005		mg/L		0.0005	11-NOV-20
Copper (Cu)-Total			<0.00002		mg/L		0.001	11-NOV-20
Iron (Fe)-Total			0.0015		mg/L		0.02	11-NOV-20
Lead (Pb)-Total			<0.00001		mg/L		0.00005	11-NOV-20
Lithium (Li)-Total			0.0006		mg/L		0.05	11-NOV-20
Magnesium (Mg)-Total			0.0020		mg/L		0.02	11-NOV-20
Manganese (Mn)-Total			<0.0002		mg/L		0.001	11-NOV-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.001	11-NOV-20
Nickel (Ni)-Total			0.00004		mg/L		0.002	11-NOV-20
Phosphorus (P)-Total			<0.005		mg/L		0.05	11-NOV-20
Potassium (K)-Total			<0.01		mg/L		0.5	11-NOV-20
Rubidium (Rb)-Total			0.000004		mg/L		0.0002	11-NOV-20
Selenium (Se)-Total			<0.000005		mg/L		0.00005	11-NOV-20
Silicon (Si)-Total			0.036		mg/L		0.1	11-NOV-20
Silver (Ag)-Total			0.000001		mg/L		0.0001	11-NOV-20
Sodium (Na)-Total			0.010		mg/L		0.1	11-NOV-20
Strontium (Sr)-Total			0.000015		mg/L		0.001	11-NOV-20
Sulfur (S)-Total			<0.2		mg/L		0.5	11-NOV-20
Tellurium (Te)-Total			0.00004		mg/L		0.001	11-NOV-20
Thallium (Tl)-Total			<0.000005		mg/L		0.0003	11-NOV-20
Thorium (Th)-Total			<0.00001		mg/L		0.0001	11-NOV-20
Tin (Sn)-Total			<0.00001		mg/L		0.001	11-NOV-20
Titanium (Ti)-Total			<0.00001		mg/L		0.002	11-NOV-20
Tungsten (W)-Total			<0.00001		mg/L		0.01	11-NOV-20

Quality Control Report

Workorder: L2526654

Report Date: 23-DEC-20

Page 15 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R5284126							
WG3442472-5 MB								
Uranium (U)-Total			<0.000000E		mg/L		0.005	11-NOV-20
Vanadium (V)-Total			0.00035		mg/L		0.001	11-NOV-20
Zinc (Zn)-Total			0.0030		mg/L		0.003	11-NOV-20
Zirconium (Zr)-Total			<0.000002		mg/L		0.001	11-NOV-20
WG3442472-4 MS		L2526654-3						
Antimony (Sb)-Total			108.8		%		70-130	11-NOV-20
Arsenic (As)-Total			105.7		%		70-130	11-NOV-20
Barium (Ba)-Total			N/A	MS-B	%		-	11-NOV-20
Beryllium (Be)-Total			102.6		%		70-130	11-NOV-20
Bismuth (Bi)-Total			106.5		%		70-130	11-NOV-20
Boron (B)-Total			97.5		%		70-130	11-NOV-20
Cadmium (Cd)-Total			107.3		%		70-130	11-NOV-20
Calcium (Ca)-Total			N/A	MS-B	%		-	11-NOV-20
Cesium (Cs)-Total			114.2		%		70-130	11-NOV-20
Chromium (Cr)-Total			105.9		%		70-130	11-NOV-20
Cobalt (Co)-Total			105.4		%		70-130	11-NOV-20
Copper (Cu)-Total			103.5		%		70-130	11-NOV-20
Iron (Fe)-Total			104.5		%		70-130	11-NOV-20
Lead (Pb)-Total			103.3		%		70-130	11-NOV-20
Lithium (Li)-Total			104.5		%		70-130	11-NOV-20
Magnesium (Mg)-Total			N/A	MS-B	%		-	11-NOV-20
Manganese (Mn)-Total			N/A	MS-B	%		-	11-NOV-20
Molybdenum (Mo)-Total			109.5		%		70-130	11-NOV-20
Nickel (Ni)-Total			104.4		%		70-130	11-NOV-20
Phosphorus (P)-Total			107.3		%		70-130	11-NOV-20
Potassium (K)-Total			N/A	MS-B	%		-	11-NOV-20
Rubidium (Rb)-Total			102.9		%		70-130	11-NOV-20
Selenium (Se)-Total			108.9		%		70-130	11-NOV-20
Silicon (Si)-Total			100.1		%		70-130	11-NOV-20
Silver (Ag)-Total			107.0		%		70-130	11-NOV-20
Sodium (Na)-Total			N/A	MS-B	%		-	11-NOV-20
Strontium (Sr)-Total			N/A	MS-B	%		-	11-NOV-20
Sulfur (S)-Total			N/A	MS-B	%		-	11-NOV-20
Tellurium (Te)-Total			105.5		%		70-130	11-NOV-20

Quality Control Report

Workorder: L2526654

Report Date: 23-DEC-20

Page 16 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R5284126							
WG3442472-4 MS		L2526654-3						
Thallium (Tl)-Total			106.3		%		70-130	11-NOV-20
Thorium (Th)-Total			112.7		%		70-130	11-NOV-20
Tin (Sn)-Total			105.0		%		70-130	11-NOV-20
Titanium (Ti)-Total			110.0		%		70-130	11-NOV-20
Tungsten (W)-Total			106.6		%		70-130	11-NOV-20
Uranium (U)-Total			111.0		%		70-130	11-NOV-20
Vanadium (V)-Total			107.6		%		70-130	11-NOV-20
Zinc (Zn)-Total			103.3		%		70-130	11-NOV-20
Zirconium (Zr)-Total			110.7		%		70-130	11-NOV-20
WG3442472-8 MS		L2526755-2						
Aluminum (Al)-Total			108.3		%		70-130	11-NOV-20
Antimony (Sb)-Total			112.1		%		70-130	11-NOV-20
Arsenic (As)-Total			111.3		%		70-130	11-NOV-20
Barium (Ba)-Total			N/A	MS-B	%		-	11-NOV-20
Beryllium (Be)-Total			103.3		%		70-130	11-NOV-20
Bismuth (Bi)-Total			107.5		%		70-130	11-NOV-20
Boron (B)-Total			102.6		%		70-130	11-NOV-20
Cadmium (Cd)-Total			107.6		%		70-130	11-NOV-20
Calcium (Ca)-Total			N/A	MS-B	%		-	11-NOV-20
Cesium (Cs)-Total			115.9		%		70-130	11-NOV-20
Chromium (Cr)-Total			107.3		%		70-130	11-NOV-20
Cobalt (Co)-Total			104.8		%		70-130	11-NOV-20
Copper (Cu)-Total			102.2		%		70-130	11-NOV-20
Iron (Fe)-Total			N/A	MS-B	%		-	11-NOV-20
Lead (Pb)-Total			105.5		%		70-130	11-NOV-20
Lithium (Li)-Total			97.5		%		70-130	11-NOV-20
Magnesium (Mg)-Total			N/A	MS-B	%		-	11-NOV-20
Manganese (Mn)-Total			N/A	MS-B	%		-	11-NOV-20
Molybdenum (Mo)-Total			110.4		%		70-130	11-NOV-20
Nickel (Ni)-Total			103.2		%		70-130	11-NOV-20
Phosphorus (P)-Total			113.6		%		70-130	11-NOV-20
Potassium (K)-Total			N/A	MS-B	%		-	11-NOV-20
Rubidium (Rb)-Total			110.6		%		70-130	11-NOV-20
Selenium (Se)-Total			113.0		%		70-130	11-NOV-20

Quality Control Report

Workorder: L2526654

Report Date: 23-DEC-20

Page 17 of 20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R5284126							
WG3442472-8	MS	L2526755-2						
Silicon (Si)-Total			N/A	MS-B	%		-	11-NOV-20
Silver (Ag)-Total			103.1		%		70-130	11-NOV-20
Sodium (Na)-Total			N/A	MS-B	%		-	11-NOV-20
Strontium (Sr)-Total			N/A	MS-B	%		-	11-NOV-20
Sulfur (S)-Total			109.7		%		70-130	11-NOV-20
Tellurium (Te)-Total			102.3		%		70-130	11-NOV-20
Thallium (Tl)-Total			107.2		%		70-130	11-NOV-20
Thorium (Th)-Total			115.4		%		70-130	11-NOV-20
Tin (Sn)-Total			109.2		%		70-130	11-NOV-20
Titanium (Ti)-Total			107.2		%		70-130	11-NOV-20
Tungsten (W)-Total			110.3		%		70-130	11-NOV-20
Uranium (U)-Total			113.1		%		70-130	11-NOV-20
Vanadium (V)-Total			109.0		%		70-130	11-NOV-20
Zinc (Zn)-Total			102.8		%		70-130	11-NOV-20
Zirconium (Zr)-Total			109.1		%		70-130	11-NOV-20
NH3-MISA-F-TB								
	Effluent							
Batch	R5283798							
WG3442370-2	LCS							
Ammonia, Total (as N)			87.5		%		85-115	10-NOV-20
WG3442370-1	MB							
Ammonia, Total (as N)			<0.002		mg/L		0.005	10-NOV-20
WG3442370-4	MS	L2526654-2						
Ammonia, Total (as N)			89.7		%		75-125	10-NOV-20
Batch	R5284822							
WG3442370-3	DUP	L2526654-1						
Ammonia, Total (as N)		0.020	0.014	J	mg/L	0.0050	0.01	12-NOV-20
WG3443555-2	LCS							
Ammonia, Total (as N)			93.6		%		85-115	12-NOV-20
WG3443555-1	MB							
Ammonia, Total (as N)			<0.002		mg/L		0.005	12-NOV-20
NO2-MISA-IC-TB								
	Effluent							
Batch	R5283258							
WG3441820-3	DUP	L2526755-14						
Nitrite (as N)		0.014	0.008	RPD-NA	mg/L	N/A	20	09-NOV-20
WG3441820-2	LCS							

Quality Control Report

Workorder: L2526654

Report Date: 23-DEC-20

Page 18 of 20

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO2-MISA-IC-TB Effluent								
Batch	R5283258							
WG3441820-2	LCS							
Nitrite (as N)			105.1		%		90-110	09-NOV-20
WG3441820-1	MB							
Nitrite (as N)			<0.001		mg/L		0.01	09-NOV-20
NO3-MISA-IC-TB Effluent								
Batch	R5283258							
WG3441820-3	DUP	L2526755-14						
Nitrate (as N)		0.096	0.052	J	mg/L	0.044	0.08	09-NOV-20
WG3441820-2	LCS							
Nitrate (as N)			104.4		%		90-110	09-NOV-20
WG3441820-1	MB							
Nitrate (as N)			<0.002		mg/L		0.02	09-NOV-20
OGG-TOT-WT Effluent								
Batch	R5283757							
WG3442787-2	LCS							
Oil and Grease, Total			99.2		%		50-150	10-NOV-20
WG3442787-1	MB							
Oil and Grease, Total			<0.2		mg/L		1	10-NOV-20
PH-MISA-TB Effluent								
Batch	R5282372							
WG3440895-3	DUP	L2526755-14						
pH		7.63	7.63	J	pH	0.00	0.2	07-NOV-20
WG3440895-2	LCS							
pH			6.99		pH		6.9-7.1	07-NOV-20
SO4-MISA-IC-TB Effluent								
Batch	R5283258							
WG3441820-3	DUP	L2526755-14						
Sulfate (SO4)		19.8	18.8		mg/L	5.1	20	09-NOV-20
WG3441820-2	LCS							
Sulfate (SO4)			109.7		%		90-110	09-NOV-20
WG3441820-1	MB							
Sulfate (SO4)			0.05		mg/L		0.3	09-NOV-20
TDS-MISA-TB Effluent								
Batch	R5283291							
WG3441653-2	LCS							
Total Dissolved Solids			97.5		%		85-115	09-NOV-20
WG3441653-1	MB							

Quality Control Report

Workorder: L2526654

Report Date: 23-DEC-20

Page 19 of 20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TDS-MISA-TB	Effluent							
Batch	R5283291							
WG3441653-1 MB								
Total Dissolved Solids			2		mg/L		10	09-NOV-20
TSS-MISA-TB	Effluent							
Batch	R5283221							
WG3441655-2 LCS								
Total Suspended Solids			91.0		%		85-115	09-NOV-20
WG3441655-1 MB								
Total Suspended Solids			<0.5		mg/L		3	09-NOV-20

Quality Control Report

Workorder: L2526654

Report Date: 23-DEC-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Amanda Jacobs

Page 20 of 20

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
J	Duplicate results and limits are expressed in terms of absolute difference.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



L2526654



L2526654-COFC

CHAIN OF CUSTODY RECORD - A

SD

Project Name: Rainy River
Location: Chapple
Project Number:
Project Manager:
PO Number:
Project: Adhoc SW
Turn Around Time (days): 10 Business Days
Shipping Company:
Shipping Date: 11/4/2020 12:08:00 PM
COC Number: ALS-44139505

Containers
 Filtered
 Preservatives

SW Kit
 N

Sample Code	Field pH (pH Units)	Field Temp (°C)	Date and Time	Matrix	Number of Containers	Comments
SW20_SW_20 01104	7.39	1.39	11/04/2020 08:20	SW	11	
SW22A_SW_20 201104	6.23	7.26	11/04/2020 09:20	SW	11	
SW23_SW_20 01104	7.73	0.67	11/04/2020 09:20	SW	11	
SW24_SW_20 01104	7.8	1.99	11/04/2020 08:45	SW	11	

Shipped by Received by	Signature <original signed by>	Data/Time 11/4/2020 9:08:00 AM	Shipping Details	ATTN	Special Instructions:
			Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone:		DO probe failure at SW20, SW23 and SW24 Email Invoice to: <rainyriver.accounts1@newgold.com> Email Report to: rainyriver.labresults@newgold.com

R



CHAIN OF CUSTODY RECORD - ALS-44139505




L-2526654-COFC

SD

Drinking Water (DW) Samples (client use)
Are samples taken from a Regulated DW System? Yes <input checked="" type="checkbox"/> No
Are samples for human consumption / use? Yes <input checked="" type="checkbox"/> No
Samples from a Regulated DW System require an Authorized DW COC form

Cooling Method: <input type="checkbox"/> None <input checked="" type="checkbox"/> Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Frozen <input type="checkbox"/> Cooling Initiated Submission Comments identified on Sample Receipt Notification: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> NA Sample Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> NA Initial Cooler Temperatures °C: <u>2pm 2020 11.00 10.0</u> Final Cooler Temperatures °C:	Sample Receipt Details (ALS use only)
---	--

Shipped by Received by	Signature 11/4/2020 12:08:00 PM	Shipping Details Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone:	ATTN	Special Instructions: DO probe failure at SW20, SW23 and SW24 Email Invoice to: <rainyriver.accounts1@newgold.com> Email Report to: rainyriver.labresults@newgold.com>



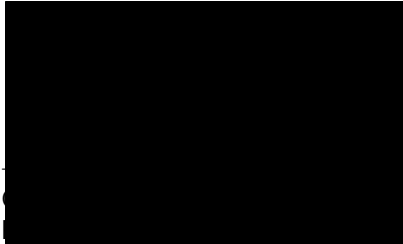
New Gold Inc. Rainy River Project
ATTN: Amanda Jacobs
24 Marr Rd
Barwick ON POW 1A0

Date Received: 13-NOV-20
Report Date: 11-DEC-20 14:51 (MT)
Version: FINAL

Client Phone: 807-482-0931

Certificate of Analysis

Lab Work Order #: L2529177
Project P.O. #: 4500038941
Job Reference: SURFACE WATER & INTERNAL MONITORING
C of C Numbers:
Legal Site Desc:



[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3, Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598



ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-1 FB_SW_20201110 Sampled By: Client on 10-NOV-20 @ 12:00 Matrix: SW							
Physical Tests							
Color, True	<2.0		2.0	CU		13-NOV-20	R5285334
Conductivity (EC)	<0.2	<W	1.0	uS/cm		14-NOV-20	R5285713
Hardness (as CaCO3)	<0.51		0.51	mg/L		19-NOV-20	
pH	5.63		0.10	pH		14-NOV-20	R5285713
Total Suspended Solids	<0.5	<W	3.0	mg/L		16-NOV-20	R5286593
Total Dissolved Solids	<2	<W	10	mg/L		16-NOV-20	R5286672
Turbidity	<0.10		0.10	NTU		13-NOV-20	R5285202
Anions and Nutrients							
Acidity (as CaCO3)	0.6	<DL	2.0	mg/L		17-NOV-20	R5287252
Alkalinity, Total (as CaCO3)	<0.2	<W	2.0	mg/L		14-NOV-20	R5285713
Ammonia, Total (as N)	<0.002	<W	0.0050	mg/L		19-NOV-20	R5289379
Chloride (Cl)	0.10		0.10	mg/L	13-NOV-20	14-NOV-20	R5285959
Fluoride (F)	<0.020		0.020	mg/L	13-NOV-20	14-NOV-20	R5285959
Nitrate (as N)	<0.002	<W	0.020	mg/L		14-NOV-20	R5285959
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-NOV-20	R5285959
Total Kjeldahl Nitrogen	<0.050		0.050	mg/L	15-NOV-20	18-NOV-20	R5287683
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	13-NOV-20	17-NOV-20	R5286892
Sulfate (SO4)	0.30	<T	0.30	mg/L		14-NOV-20	R5285959
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Total	<0.0002	<W	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Free	0.0015	<DL	0.0020	mg/L		17-NOV-20	R5287236
Organic / Inorganic Carbon							
Dissolved Organic Carbon	<0.50		0.50	mg/L	10-NOV-20	20-NOV-20	R5295038
Total Organic Carbon	0.72		0.50	mg/L		20-NOV-20	R5294879
Total Metals							
Aluminum (Al)-Total	0.0002	<DL	0.0050	mg/L		17-NOV-20	R5287329
Antimony (Sb)-Total	<0.000005	<W	0.00060	mg/L		17-NOV-20	R5287329
Arsenic (As)-Total	<0.00001	<W	0.0010	mg/L		17-NOV-20	R5287329
Barium (Ba)-Total	<0.00001	<W	0.010	mg/L		17-NOV-20	R5287329
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		17-NOV-20	R5287329
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		17-NOV-20	R5287329
Boron (B)-Total	0.0055	<DL	0.050	mg/L		17-NOV-20	R5287329
Cadmium (Cd)-Total	<0.000001	<W	0.000017	mg/L		17-NOV-20	R5287329
Calcium (Ca)-Total	0.016	<DL	0.20	mg/L		17-NOV-20	R5287329
Cesium (Cs)-Total	<0.0000005	<W	0.000010	mg/L		17-NOV-20	R5287329
Chromium (Cr)-Total	0.00008	<DL	0.0010	mg/L		17-NOV-20	R5287329
Cobalt (Co)-Total	<0.000005	<W	0.00050	mg/L		17-NOV-20	R5287329
Copper (Cu)-Total	0.00004	<DL	0.0010	mg/L		17-NOV-20	R5287329
Iron (Fe)-Total	<0.0005	<W	0.020	mg/L		17-NOV-20	R5287329
Lead (Pb)-Total	<0.00001	<W	0.000050	mg/L		17-NOV-20	R5287329
Lithium (Li)-Total	<0.0002	<W	0.050	mg/L		17-NOV-20	R5287329

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-1 FB_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 12:00							
Matrix: SW							
Total Metals							
Magnesium (Mg)-Total	0.0004	<DL	0.020	mg/L		17-NOV-20	R5287329
Manganese (Mn)-Total	<0.0002	<W	0.0010	mg/L		17-NOV-20	R5287329
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287565
Molybdenum (Mo)-Total	<0.000005	<W	0.0010	mg/L		17-NOV-20	R5287329
Nickel (Ni)-Total	0.00004	<DL	0.0020	mg/L		17-NOV-20	R5287329
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		17-NOV-20	R5287329
Potassium (K)-Total	<0.01	<W	0.50	mg/L		17-NOV-20	R5287329
Rubidium (Rb)-Total	0.000004	<DL	0.00020	mg/L		17-NOV-20	R5287329
Selenium (Se)-Total	<0.000005	<W	0.000050	mg/L		17-NOV-20	R5287329
Silicon (Si)-Total	0.018	<DL	0.10	mg/L		17-NOV-20	R5287329
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		17-NOV-20	R5287329
Sodium (Na)-Total	0.025	<DL	0.10	mg/L		17-NOV-20	R5287329
Strontium (Sr)-Total	0.000020	<DL	0.0010	mg/L		17-NOV-20	R5287329
Sulfur (S)-Total	<0.2	<W	0.50	mg/L		17-NOV-20	R5287329
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		17-NOV-20	R5287329
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		17-NOV-20	R5287329
Thorium (Th)-Total	<0.00001	<W	0.00010	mg/L		17-NOV-20	R5287329
Tin (Sn)-Total	0.00009	<DL	0.0010	mg/L		17-NOV-20	R5287329
Titanium (Ti)-Total	<0.00001	<W	0.0020	mg/L		17-NOV-20	R5287329
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		17-NOV-20	R5287329
Uranium (U)-Total	<0.0000005	<W	0.0050	mg/L		17-NOV-20	R5287329
Vanadium (V)-Total	0.00015	<DL	0.0010	mg/L		17-NOV-20	R5287329
Zinc (Zn)-Total	<0.0005	<W	0.0030	mg/L		17-NOV-20	R5287329
Zirconium (Zr)-Total	0.000002	<DL	0.0010	mg/L		17-NOV-20	R5287329
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					18-NOV-20	R5287769
Aluminum (Al)-Dissolved	<0.0002	<W	0.0050	mg/L		18-NOV-20	R5288640
Antimony (Sb)-Dissolved	<0.000005	<W	0.00060	mg/L		18-NOV-20	R5288640
Arsenic (As)-Dissolved	0.0000040	<DL	0.0010	mg/L		18-NOV-20	R5288640
Barium (Ba)-Dissolved	0.000020	<DL	0.010	mg/L		18-NOV-20	R5288640
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Boron (B)-Dissolved	0.0050	<DL	0.050	mg/L		18-NOV-20	R5288640
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		18-NOV-20	R5288640
Calcium (Ca)-Dissolved	0.014	<DL	0.20	mg/L		18-NOV-20	R5288640
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		18-NOV-20	R5288640
Chromium (Cr)-Dissolved	0.00013	<DL	0.0010	mg/L		18-NOV-20	R5288640
Cobalt (Co)-Dissolved	<0.000002	<W	0.00050	mg/L		18-NOV-20	R5288640
Copper (Cu)-Dissolved	<0.00002	<W	0.0010	mg/L		18-NOV-20	R5288640
Iron (Fe)-Dissolved	<0.0005	<W	0.020	mg/L		18-NOV-20	R5288640
Lead (Pb)-Dissolved	<0.00001	<W	0.000050	mg/L		18-NOV-20	R5288640

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-1 FB_SW_20201110 Sampled By: Client on 10-NOV-20 @ 12:00 Matrix: SW							
Dissolved Metals							
Lithium (Li)-Dissolved	<0.0002	<W	0.050	mg/L		18-NOV-20	R5288640
Magnesium (Mg)-Dissolved	0.0010	<DL	0.020	mg/L		18-NOV-20	R5288640
Manganese (Mn)-Dissolved	0.00002	<DL	0.0010	mg/L		18-NOV-20	R5288640
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287568
Molybdenum (Mo)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Nickel (Ni)-Dissolved	<0.00002	<W	0.0020	mg/L		18-NOV-20	R5288640
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		18-NOV-20	R5288640
Potassium (K)-Dissolved	<0.01	<W	0.50	mg/L		18-NOV-20	R5288640
Rubidium (Rb)-Dissolved	0.000004	<DL	0.00020	mg/L		18-NOV-20	R5288640
Selenium (Se)-Dissolved	<0.000005	<W	0.000050	mg/L		18-NOV-20	R5288640
Silicon (Si)-Dissolved	0.015	<DL	0.050	mg/L		18-NOV-20	R5288640
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		18-NOV-20	R5288640
Sodium (Na)-Dissolved	0.025	<DL	0.10	mg/L		18-NOV-20	R5288640
Strontium (Sr)-Dissolved	0.00004	<DL	0.0010	mg/L		18-NOV-20	R5288640
Sulfur (S)-Dissolved	<0.2	<W	0.50	mg/L		18-NOV-20	R5288640
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288640
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		18-NOV-20	R5288640
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		18-NOV-20	R5288640
Tin (Sn)-Dissolved	0.000125	<DL	0.0010	mg/L		18-NOV-20	R5288640
Titanium (Ti)-Dissolved	<0.00002	<W	0.0020	mg/L		18-NOV-20	R5288640
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		18-NOV-20	R5288640
Uranium (U)-Dissolved	<0.0000005	<W	0.0050	mg/L		18-NOV-20	R5288640
Vanadium (V)-Dissolved	0.00006	<DL	0.0010	mg/L		18-NOV-20	R5288640
Zinc (Zn)-Dissolved	0.0004	<DL	0.0030	mg/L		18-NOV-20	R5288640
Zirconium (Zr)-Dissolved	0.000002	<DL	0.0010	mg/L		18-NOV-20	R5288640
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-NOV-20	R5289397
Chemical Oxygen Demand	<20		20	mg/L	15-NOV-20	19-NOV-20	R5289044
Oil and Grease, Total	<0.2	<W	1.0	mg/L	18-NOV-20	18-NOV-20	R5287176
L2529177-2 SW02_SW_20201110 Sampled By: Client on 10-NOV-20 @ 14:30 Matrix: SW							
Field Tests							
Dissolved Oxygen, Client Supplied	0		0	mg/L		17-NOV-20	R5286809
pH, Client Supplied	6.46		0.10	pH		17-NOV-20	R5286809
Temperature, Client Supplied	.85		0	Degree C		17-NOV-20	R5286809
Physical Tests							
Color, True	109		2.0	CU		13-NOV-20	R5285334
Conductivity (EC)	104		1.0	uS/cm		14-NOV-20	R5285713
Hardness (as CaCO3)	62.7		0.51	mg/L		19-NOV-20	
pH	7.52		0.10	pH		14-NOV-20	R5285713
Total Suspended Solids	<0.5	<W	3.0	mg/L		16-NOV-20	R5286593

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-2 SW02_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 14:30							
Matrix: SW							
Physical Tests							
Total Dissolved Solids	94		13	mg/L		16-NOV-20	R5286672
Turbidity	0.55		0.10	NTU		13-NOV-20	R5285202
Anions and Nutrients							
Acidity (as CaCO3)	1.6	<DL	2.0	mg/L		17-NOV-20	R5287252
Alkalinity, Total (as CaCO3)	53.8		2.0	mg/L		14-NOV-20	R5285713
Ammonia, Total (as N)	0.004	<DL	0.0050	mg/L		19-NOV-20	R5289379
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		20-NOV-20	
Chloride (Cl)	0.49		0.10	mg/L	13-NOV-20	14-NOV-20	R5285959
Fluoride (F)	0.047		0.020	mg/L	13-NOV-20	14-NOV-20	R5285959
Nitrate (as N)	0.030	<T	0.020	mg/L		14-NOV-20	R5285959
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-NOV-20	R5285959
Total Kjeldahl Nitrogen	0.928		0.050	mg/L	15-NOV-20	18-NOV-20	R5287683
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	13-NOV-20	17-NOV-20	R5286892
Sulfate (SO4)	0.85	<T	0.30	mg/L		14-NOV-20	R5285959
Cyanides							
Cyanide, Weak Acid Diss	0.0002	<DL	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Total	<0.0002	<W	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Free	0.0020		0.0020	mg/L		17-NOV-20	R5287236
Organic / Inorganic Carbon							
Dissolved Organic Carbon	27.4	DLM	2.5	mg/L	13-NOV-20	20-NOV-20	R5295038
Total Organic Carbon	26.4	DLM	2.5	mg/L		20-NOV-20	R5294879
Total Metals							
Aluminum (Al)-Total	0.0264	<T	0.0050	mg/L		17-NOV-20	R5287329
Antimony (Sb)-Total	0.000030	<DL	0.00060	mg/L		17-NOV-20	R5287329
Arsenic (As)-Total	0.00047	<DL	0.0010	mg/L		17-NOV-20	R5287329
Barium (Ba)-Total	0.00647	<DL	0.010	mg/L		17-NOV-20	R5287329
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		17-NOV-20	R5287329
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		17-NOV-20	R5287329
Boron (B)-Total	0.0045	<DL	0.050	mg/L		17-NOV-20	R5287329
Cadmium (Cd)-Total	0.000001	<DL	0.000017	mg/L		17-NOV-20	R5287329
Calcium (Ca)-Total	14.8		0.20	mg/L		17-NOV-20	R5287329
Cesium (Cs)-Total	0.0000010	<DL	0.000010	mg/L		17-NOV-20	R5287329
Chromium (Cr)-Total	0.00042	<DL	0.0010	mg/L		17-NOV-20	R5287329
Cobalt (Co)-Total	0.000075	<DL	0.00050	mg/L		17-NOV-20	R5287329
Copper (Cu)-Total	0.00020	<DL	0.0010	mg/L		17-NOV-20	R5287329
Iron (Fe)-Total	0.175		0.020	mg/L		17-NOV-20	R5287329
Lead (Pb)-Total	0.00002	<DL	0.000050	mg/L		17-NOV-20	R5287329
Lithium (Li)-Total	0.0022	<DL	0.050	mg/L		17-NOV-20	R5287329
Magnesium (Mg)-Total	6.12		0.020	mg/L		17-NOV-20	R5287329
Manganese (Mn)-Total	0.0064		0.0010	mg/L		17-NOV-20	R5287329
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287565
Molybdenum (Mo)-Total	0.000120	<DL	0.0010	mg/L		17-NOV-20	R5287329

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-2 SW02_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 14:30							
Matrix: SW							
Total Metals							
Nickel (Ni)-Total	0.00042	<DL	0.0020	mg/L		17-NOV-20	R5287329
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		17-NOV-20	R5287329
Potassium (K)-Total	0.27	<DL	0.50	mg/L		17-NOV-20	R5287329
Rubidium (Rb)-Total	0.000632		0.00020	mg/L		17-NOV-20	R5287329
Selenium (Se)-Total	0.000045	<DL	0.000050	mg/L		17-NOV-20	R5287329
Silicon (Si)-Total	4.60		0.10	mg/L		17-NOV-20	R5287329
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		17-NOV-20	R5287329
Sodium (Na)-Total	1.11		0.10	mg/L		17-NOV-20	R5287329
Strontium (Sr)-Total	0.0229		0.0010	mg/L		17-NOV-20	R5287329
Sulfur (S)-Total	0.2	<DL	0.50	mg/L		17-NOV-20	R5287329
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		17-NOV-20	R5287329
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		17-NOV-20	R5287329
Thorium (Th)-Total	<0.00001	<W	0.00010	mg/L		17-NOV-20	R5287329
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		17-NOV-20	R5287329
Titanium (Ti)-Total	0.00051	<DL	0.0020	mg/L		17-NOV-20	R5287329
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		17-NOV-20	R5287329
Uranium (U)-Total	0.0000200	<DL	0.0050	mg/L		17-NOV-20	R5287329
Vanadium (V)-Total	0.00030	<DL	0.0010	mg/L		17-NOV-20	R5287329
Zinc (Zn)-Total	0.0005	<DL	0.0030	mg/L		17-NOV-20	R5287329
Zirconium (Zr)-Total	0.000076	<DL	0.0010	mg/L		17-NOV-20	R5287329
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					18-NOV-20	R5287769
Aluminum (Al)-Dissolved	0.0222	<T	0.0050	mg/L		18-NOV-20	R5288640
Antimony (Sb)-Dissolved	0.000030	<DL	0.00060	mg/L		18-NOV-20	R5288640
Arsenic (As)-Dissolved	0.000442	<DL	0.0010	mg/L		18-NOV-20	R5288640
Barium (Ba)-Dissolved	0.00660	<DL	0.010	mg/L		18-NOV-20	R5288640
Beryllium (Be)-Dissolved	0.000002	<DL	0.0010	mg/L		18-NOV-20	R5288640
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Boron (B)-Dissolved	0.0045	<DL	0.050	mg/L		18-NOV-20	R5288640
Cadmium (Cd)-Dissolved	0.0000020	<DL	0.000017	mg/L		18-NOV-20	R5288640
Calcium (Ca)-Dissolved	14.6		0.20	mg/L		18-NOV-20	R5288640
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		18-NOV-20	R5288640
Chromium (Cr)-Dissolved	0.00011	<DL	0.0010	mg/L		18-NOV-20	R5288640
Cobalt (Co)-Dissolved	0.000066	<DL	0.00050	mg/L		18-NOV-20	R5288640
Copper (Cu)-Dissolved	0.00022	<DL	0.0010	mg/L		18-NOV-20	R5288640
Iron (Fe)-Dissolved	0.158		0.020	mg/L		18-NOV-20	R5288640
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		18-NOV-20	R5288640
Lithium (Li)-Dissolved	0.0020	<DL	0.050	mg/L		18-NOV-20	R5288640
Magnesium (Mg)-Dissolved	6.39		0.020	mg/L		18-NOV-20	R5288640
Manganese (Mn)-Dissolved	0.00592		0.0010	mg/L		18-NOV-20	R5288640
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287568

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-2 SW02_SW_20201110 Sampled By: Client on 10-NOV-20 @ 14:30 Matrix: SW							
Dissolved Metals							
Molybdenum (Mo)-Dissolved	0.000112	<DL	0.0010	mg/L		18-NOV-20	R5288640
Nickel (Ni)-Dissolved	0.00040	<DL	0.0020	mg/L		18-NOV-20	R5288640
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		18-NOV-20	R5288640
Potassium (K)-Dissolved	0.27	<DL	0.50	mg/L		18-NOV-20	R5288640
Rubidium (Rb)-Dissolved	0.000608		0.00020	mg/L		18-NOV-20	R5288640
Selenium (Se)-Dissolved	0.000100	<T	0.000050	mg/L		18-NOV-20	R5288640
Silicon (Si)-Dissolved	4.28		0.050	mg/L		18-NOV-20	R5288640
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		18-NOV-20	R5288640
Sodium (Na)-Dissolved	1.11		0.10	mg/L		18-NOV-20	R5288640
Strontium (Sr)-Dissolved	0.0224		0.0010	mg/L		18-NOV-20	R5288640
Sulfur (S)-Dissolved	<0.2	<W	0.50	mg/L		18-NOV-20	R5288640
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288640
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		18-NOV-20	R5288640
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		18-NOV-20	R5288640
Tin (Sn)-Dissolved	0.000030	<DL	0.0010	mg/L		18-NOV-20	R5288640
Titanium (Ti)-Dissolved	0.00036	<DL	0.0020	mg/L		18-NOV-20	R5288640
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		18-NOV-20	R5288640
Uranium (U)-Dissolved	0.0000210	<DL	0.0050	mg/L		18-NOV-20	R5288640
Vanadium (V)-Dissolved	0.00022	<DL	0.0010	mg/L		18-NOV-20	R5288640
Zinc (Zn)-Dissolved	0.0012	<DL	0.0030	mg/L		18-NOV-20	R5288640
Zirconium (Zr)-Dissolved	0.000076	<DL	0.0010	mg/L		18-NOV-20	R5288640
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-NOV-20	R5289397
Chemical Oxygen Demand	80		20	mg/L	15-NOV-20	19-NOV-20	R5289044
Oil and Grease, Total	<0.2	<W	1.0	mg/L	18-NOV-20	18-NOV-20	R5287176
L2529177-3 SW03_SW_20201110 Sampled By: Client on 10-NOV-20 @ 10:00 Matrix: SW							
Field Tests							
Dissolved Oxygen, Client Supplied	6.49		0	mg/L		17-NOV-20	R5286809
pH, Client Supplied	7.43		0.10	pH		17-NOV-20	R5286809
Temperature, Client Supplied	2.97		0	Degree C		17-NOV-20	R5286809
Physical Tests							
Color, True	34.6		2.0	CU		13-NOV-20	R5285334
Conductivity (EC)	818		1.0	uS/cm		14-NOV-20	R5285713
Hardness (as CaCO3)	303		0.51	mg/L		19-NOV-20	
pH	7.99		0.10	pH		14-NOV-20	R5285713
Total Suspended Solids	3.0		3.0	mg/L		16-NOV-20	R5286593
Total Dissolved Solids	538		20	mg/L		16-NOV-20	R5286672
Turbidity	3.00		0.10	NTU		13-NOV-20	R5285202
Anions and Nutrients							
Acidity (as CaCO3)	1.8	<DL	2.0	mg/L		17-NOV-20	R5287252

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-3 SW03_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 10:00							
Matrix: SW							
Anions and Nutrients							
Alkalinity, Total (as CaCO3)	159		2.0	mg/L		14-NOV-20	R5285713
Ammonia, Total (as N)	0.006	<T	0.0050	mg/L		19-NOV-20	R5289379
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		20-NOV-20	
Chloride (Cl)	24.4		0.10	mg/L	13-NOV-20	14-NOV-20	R5285959
Fluoride (F)	0.108		0.020	mg/L	13-NOV-20	14-NOV-20	R5285959
Nitrate (as N)	1.33		0.020	mg/L		14-NOV-20	R5285959
Nitrite (as N)	0.051	<T	0.010	mg/L		14-NOV-20	R5285959
Total Kjeldahl Nitrogen	1.14		0.050	mg/L	15-NOV-20	18-NOV-20	R5287683
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	13-NOV-20	17-NOV-20	R5286892
Sulfate (SO4)	251		0.30	mg/L		14-NOV-20	R5285959
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Total	<0.0002	<W	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Free	0.0010	<DL	0.0020	mg/L		17-NOV-20	R5287236
Organic / Inorganic Carbon							
Dissolved Organic Carbon	15.2		0.50	mg/L	13-NOV-20	20-NOV-20	R5295038
Total Organic Carbon	15.1	DLM	2.5	mg/L		20-NOV-20	R5294879
Total Metals							
Aluminum (Al)-Total	0.106		0.0050	mg/L		17-NOV-20	R5287329
Antimony (Sb)-Total	0.00637		0.00060	mg/L		17-NOV-20	R5287329
Arsenic (As)-Total	0.00109	<T	0.0010	mg/L		17-NOV-20	R5287329
Barium (Ba)-Total	0.0400		0.010	mg/L		17-NOV-20	R5287329
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		17-NOV-20	R5287329
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		17-NOV-20	R5287329
Boron (B)-Total	0.0465	<DL	0.050	mg/L		17-NOV-20	R5287329
Cadmium (Cd)-Total	0.000007	<DL	0.000017	mg/L		17-NOV-20	R5287329
Calcium (Ca)-Total	81.1		0.20	mg/L		17-NOV-20	R5287329
Cesium (Cs)-Total	0.000105		0.000010	mg/L		17-NOV-20	R5287329
Chromium (Cr)-Total	0.00034	<DL	0.0010	mg/L		17-NOV-20	R5287329
Cobalt (Co)-Total	0.000580	<T	0.00050	mg/L		17-NOV-20	R5287329
Copper (Cu)-Total	0.00238	<T	0.0010	mg/L		17-NOV-20	R5287329
Iron (Fe)-Total	0.210		0.020	mg/L		17-NOV-20	R5287329
Lead (Pb)-Total	0.00009	<T	0.000050	mg/L		17-NOV-20	R5287329
Lithium (Li)-Total	0.0096	<DL	0.050	mg/L		17-NOV-20	R5287329
Magnesium (Mg)-Total	22.6		0.020	mg/L		17-NOV-20	R5287329
Manganese (Mn)-Total	0.0218		0.0010	mg/L		17-NOV-20	R5287329
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287565
Molybdenum (Mo)-Total	0.00450	<T	0.0010	mg/L		17-NOV-20	R5287329
Nickel (Ni)-Total	0.00150	<DL	0.0020	mg/L		17-NOV-20	R5287329
Phosphorus (P)-Total	0.015	<DL	0.050	mg/L		17-NOV-20	R5287329
Potassium (K)-Total	19.4		0.50	mg/L		17-NOV-20	R5287329
Rubidium (Rb)-Total	0.0103		0.00020	mg/L		17-NOV-20	R5287329

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-3 SW03_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 10:00							
Matrix: SW							
Total Metals							
Selenium (Se)-Total	0.000185	<T	0.000050	mg/L		17-NOV-20	R5287329
Silicon (Si)-Total	2.59		0.10	mg/L		17-NOV-20	R5287329
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		17-NOV-20	R5287329
Sodium (Na)-Total	42.5		0.10	mg/L		17-NOV-20	R5287329
Strontium (Sr)-Total	0.280		0.0010	mg/L		17-NOV-20	R5287329
Sulfur (S)-Total	81.6		0.50	mg/L		17-NOV-20	R5287329
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		17-NOV-20	R5287329
Thallium (Tl)-Total	0.000010	<DL	0.00030	mg/L		17-NOV-20	R5287329
Thorium (Th)-Total	0.00003	<DL	0.00010	mg/L		17-NOV-20	R5287329
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		17-NOV-20	R5287329
Titanium (Ti)-Total	0.00409		0.0020	mg/L		17-NOV-20	R5287329
Tungsten (W)-Total	0.00004	<DL	0.010	mg/L		17-NOV-20	R5287329
Uranium (U)-Total	0.00171	<DL	0.0050	mg/L		17-NOV-20	R5287329
Vanadium (V)-Total	0.00050	<DL	0.0010	mg/L		17-NOV-20	R5287329
Zinc (Zn)-Total	0.0010	<DL	0.0030	mg/L		17-NOV-20	R5287329
Zirconium (Zr)-Total	0.000212	<DL	0.0010	mg/L		17-NOV-20	R5287329
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					18-NOV-20	R5287769
Aluminum (Al)-Dissolved	0.0068	<T	0.0050	mg/L		18-NOV-20	R5288640
Antimony (Sb)-Dissolved	0.00674		0.00060	mg/L		18-NOV-20	R5288640
Arsenic (As)-Dissolved	0.00109	<T	0.0010	mg/L		18-NOV-20	R5288640
Barium (Ba)-Dissolved	0.0399		0.010	mg/L		18-NOV-20	R5288640
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Bismuth (Bi)-Dissolved	0.000004	<DL	0.0010	mg/L		18-NOV-20	R5288640
Boron (B)-Dissolved	0.0470	<DL	0.050	mg/L		18-NOV-20	R5288640
Cadmium (Cd)-Dissolved	0.0000050	<DL	0.000017	mg/L		18-NOV-20	R5288640
Calcium (Ca)-Dissolved	83.0		0.20	mg/L		18-NOV-20	R5288640
Cesium (Cs)-Dissolved	0.0000865		0.000010	mg/L		18-NOV-20	R5288640
Chromium (Cr)-Dissolved	0.00011	<DL	0.0010	mg/L		18-NOV-20	R5288640
Cobalt (Co)-Dissolved	0.000556	<T	0.00050	mg/L		18-NOV-20	R5288640
Copper (Cu)-Dissolved	0.00242	<T	0.0010	mg/L		18-NOV-20	R5288640
Iron (Fe)-Dissolved	0.0970		0.020	mg/L		18-NOV-20	R5288640
Lead (Pb)-Dissolved	0.00003	<DL	0.000050	mg/L		18-NOV-20	R5288640
Lithium (Li)-Dissolved	0.0106	<DL	0.050	mg/L		18-NOV-20	R5288640
Magnesium (Mg)-Dissolved	23.3		0.020	mg/L		18-NOV-20	R5288640
Manganese (Mn)-Dissolved	0.0182		0.0010	mg/L		18-NOV-20	R5288640
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287568
Molybdenum (Mo)-Dissolved	0.00451	<T	0.0010	mg/L		18-NOV-20	R5288640
Nickel (Ni)-Dissolved	0.00144	<DL	0.0020	mg/L		18-NOV-20	R5288640
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		18-NOV-20	R5288640
Potassium (K)-Dissolved	19.9		0.50	mg/L		18-NOV-20	R5288640

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-3 SW03_SW_20201110 Sampled By: Client on 10-NOV-20 @ 10:00 Matrix: SW							
Dissolved Metals							
Rubidium (Rb)-Dissolved	0.0104		0.00020	mg/L		18-NOV-20	R5288640
Selenium (Se)-Dissolved	0.000235	<T	0.000050	mg/L		18-NOV-20	R5288640
Silicon (Si)-Dissolved	2.24		0.050	mg/L		18-NOV-20	R5288640
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		18-NOV-20	R5288640
Sodium (Na)-Dissolved	44.4		0.10	mg/L		18-NOV-20	R5288640
Strontium (Sr)-Dissolved	0.275		0.0010	mg/L		18-NOV-20	R5288640
Sulfur (S)-Dissolved	78.2		0.50	mg/L		18-NOV-20	R5288640
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288640
Thallium (Tl)-Dissolved	0.000014	<DL	0.00030	mg/L		18-NOV-20	R5288640
Thorium (Th)-Dissolved	0.00001	<DL	0.00010	mg/L		18-NOV-20	R5288640
Tin (Sn)-Dissolved	0.000260	<DL	0.0010	mg/L		18-NOV-20	R5288640
Titanium (Ti)-Dissolved	0.00046	<DL	0.0020	mg/L		18-NOV-20	R5288640
Tungsten (W)-Dissolved	0.000034	<DL	0.010	mg/L		18-NOV-20	R5288640
Uranium (U)-Dissolved	0.00165	<DL	0.0050	mg/L		18-NOV-20	R5288640
Vanadium (V)-Dissolved	0.00034	<DL	0.0010	mg/L		18-NOV-20	R5288640
Zinc (Zn)-Dissolved	0.0016	<DL	0.0030	mg/L		18-NOV-20	R5288640
Zirconium (Zr)-Dissolved	0.000166	<DL	0.0010	mg/L		18-NOV-20	R5288640
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		13-NOV-20	R5287764
Chemical Oxygen Demand	55		20	mg/L	15-NOV-20	19-NOV-20	R5289044
Oil and Grease, Total	0.8	<DL	1.0	mg/L	18-NOV-20	18-NOV-20	R5287176
L2529177-4 SW06_SW_20201110 Sampled By: Client on 10-NOV-20 @ 12:00 Matrix: SW							
Field Tests							
Dissolved Oxygen, Client Supplied	6.49		0	mg/L		17-NOV-20	R5286809
pH, Client Supplied	7.43		0.10	pH		17-NOV-20	R5286809
Temperature, Client Supplied	2.97		0	Degree C		17-NOV-20	R5286809
Physical Tests							
Color, True	34.3		2.0	CU		13-NOV-20	R5285334
Conductivity (EC)	815		1.0	uS/cm		14-NOV-20	R5285713
Hardness (as CaCO3)	298		0.51	mg/L		19-NOV-20	
pH	7.99		0.10	pH		14-NOV-20	R5285713
Total Suspended Solids	2.5	<DL	3.0	mg/L		16-NOV-20	R5286593
Total Dissolved Solids	542		20	mg/L		16-NOV-20	R5286672
Turbidity	2.74		0.10	NTU		13-NOV-20	R5285202
Anions and Nutrients							
Acidity (as CaCO3)	1.0	<DL	2.0	mg/L		17-NOV-20	R5287252
Alkalinity, Total (as CaCO3)	158		2.0	mg/L		14-NOV-20	R5285713
Ammonia, Total (as N)	0.004	<DL	0.0050	mg/L		19-NOV-20	R5289379
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		20-NOV-20	
Chloride (Cl)	21.9		0.10	mg/L	13-NOV-20	14-NOV-20	R5285959

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-4 SW06_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 12:00							
Matrix: SW							
Anions and Nutrients							
Fluoride (F)	0.089		0.020	mg/L	13-NOV-20	14-NOV-20	R5285959
Nitrate (as N)	1.13		0.020	mg/L		14-NOV-20	R5285959
Nitrite (as N)	0.040	<T	0.010	mg/L		14-NOV-20	R5285959
Total Kjeldahl Nitrogen	1.36		0.050	mg/L	15-NOV-20	18-NOV-20	R5287683
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	13-NOV-20	17-NOV-20	R5286892
Sulfate (SO4)	218		0.30	mg/L		14-NOV-20	R5285959
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Total	<0.0002	<W	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Free	0.0023		0.0020	mg/L		17-NOV-20	R5287236
Organic / Inorganic Carbon							
Dissolved Organic Carbon	16.1		0.50	mg/L	13-NOV-20	20-NOV-20	R5295038
Total Organic Carbon	15.5	DLM	2.5	mg/L		20-NOV-20	R5294879
Total Metals							
Aluminum (Al)-Total	0.0990		0.0050	mg/L		17-NOV-20	R5287329
Antimony (Sb)-Total	0.00631		0.00060	mg/L		17-NOV-20	R5287329
Arsenic (As)-Total	0.00114	<T	0.0010	mg/L		17-NOV-20	R5287329
Barium (Ba)-Total	0.0415		0.010	mg/L		17-NOV-20	R5287329
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		17-NOV-20	R5287329
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		17-NOV-20	R5287329
Boron (B)-Total	0.0480	<DL	0.050	mg/L		17-NOV-20	R5287329
Cadmium (Cd)-Total	0.000007	<DL	0.000017	mg/L		17-NOV-20	R5287329
Calcium (Ca)-Total	83.3		0.20	mg/L		17-NOV-20	R5287329
Cesium (Cs)-Total	0.000103		0.000010	mg/L		17-NOV-20	R5287329
Chromium (Cr)-Total	0.00030	<DL	0.0010	mg/L		17-NOV-20	R5287329
Cobalt (Co)-Total	0.000600	<T	0.00050	mg/L		17-NOV-20	R5287329
Copper (Cu)-Total	0.00244	<T	0.0010	mg/L		17-NOV-20	R5287329
Iron (Fe)-Total	0.207		0.020	mg/L		17-NOV-20	R5287329
Lead (Pb)-Total	0.00009	<T	0.000050	mg/L		17-NOV-20	R5287329
Lithium (Li)-Total	0.0096	<DL	0.050	mg/L		17-NOV-20	R5287329
Magnesium (Mg)-Total	23.1		0.020	mg/L		17-NOV-20	R5287329
Manganese (Mn)-Total	0.0220		0.0010	mg/L		17-NOV-20	R5287329
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287565
Molybdenum (Mo)-Total	0.00469	<T	0.0010	mg/L		17-NOV-20	R5287329
Nickel (Ni)-Total	0.00154	<DL	0.0020	mg/L		17-NOV-20	R5287329
Phosphorus (P)-Total	0.010	<DL	0.050	mg/L		17-NOV-20	R5287329
Potassium (K)-Total	19.5		0.50	mg/L		17-NOV-20	R5287329
Rubidium (Rb)-Total	0.0106		0.00020	mg/L		17-NOV-20	R5287329
Selenium (Se)-Total	0.000200	<T	0.000050	mg/L		17-NOV-20	R5287329
Silicon (Si)-Total	2.60		0.10	mg/L		17-NOV-20	R5287329
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		17-NOV-20	R5287329
Sodium (Na)-Total	43.0		0.10	mg/L		17-NOV-20	R5287329

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-4 SW06_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 12:00							
Matrix: SW							
Total Metals							
Strontium (Sr)-Total	0.278		0.0010	mg/L		17-NOV-20	R5287329
Sulfur (S)-Total	84.0		0.50	mg/L		17-NOV-20	R5287329
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		17-NOV-20	R5287329
Thallium (Tl)-Total	0.000005	<DL	0.00030	mg/L		17-NOV-20	R5287329
Thorium (Th)-Total	0.00003	<DL	0.00010	mg/L		17-NOV-20	R5287329
Tin (Sn)-Total	<0.00001	<W	0.0010	mg/L		17-NOV-20	R5287329
Titanium (Ti)-Total	0.00414		0.0020	mg/L		17-NOV-20	R5287329
Tungsten (W)-Total	0.00003	<DL	0.010	mg/L		17-NOV-20	R5287329
Uranium (U)-Total	0.00172	<DL	0.0050	mg/L		17-NOV-20	R5287329
Vanadium (V)-Total	0.00055	<DL	0.0010	mg/L		17-NOV-20	R5287329
Zinc (Zn)-Total	0.0010	<DL	0.0030	mg/L		17-NOV-20	R5287329
Zirconium (Zr)-Total	0.000218	<DL	0.0010	mg/L		17-NOV-20	R5287329
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					18-NOV-20	R5287769
Aluminum (Al)-Dissolved	0.0080	<T	0.0050	mg/L		18-NOV-20	R5288640
Antimony (Sb)-Dissolved	0.00666		0.00060	mg/L		18-NOV-20	R5288640
Arsenic (As)-Dissolved	0.00104	<T	0.0010	mg/L		18-NOV-20	R5288640
Barium (Ba)-Dissolved	0.0404		0.010	mg/L		18-NOV-20	R5288640
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Boron (B)-Dissolved	0.0485	<DL	0.050	mg/L		18-NOV-20	R5288640
Cadmium (Cd)-Dissolved	0.0000080	<DL	0.000017	mg/L		18-NOV-20	R5288640
Calcium (Ca)-Dissolved	80.8		0.20	mg/L		18-NOV-20	R5288640
Cesium (Cs)-Dissolved	0.0000855		0.000010	mg/L		18-NOV-20	R5288640
Chromium (Cr)-Dissolved	0.00010	<DL	0.0010	mg/L		18-NOV-20	R5288640
Cobalt (Co)-Dissolved	0.000540	<T	0.00050	mg/L		18-NOV-20	R5288640
Copper (Cu)-Dissolved	0.00246	<T	0.0010	mg/L		18-NOV-20	R5288640
Iron (Fe)-Dissolved	0.0680		0.020	mg/L		18-NOV-20	R5288640
Lead (Pb)-Dissolved	0.00003	<DL	0.000050	mg/L		18-NOV-20	R5288640
Lithium (Li)-Dissolved	0.0106	<DL	0.050	mg/L		18-NOV-20	R5288640
Magnesium (Mg)-Dissolved	23.3		0.020	mg/L		18-NOV-20	R5288640
Manganese (Mn)-Dissolved	0.0183		0.0010	mg/L		18-NOV-20	R5288640
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287568
Molybdenum (Mo)-Dissolved	0.00447	<T	0.0010	mg/L		18-NOV-20	R5288640
Nickel (Ni)-Dissolved	0.00146	<DL	0.0020	mg/L		18-NOV-20	R5288640
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		18-NOV-20	R5288640
Potassium (K)-Dissolved	20.2		0.50	mg/L		18-NOV-20	R5288640
Rubidium (Rb)-Dissolved	0.0104		0.00020	mg/L		18-NOV-20	R5288640
Selenium (Se)-Dissolved	0.000275	<T	0.000050	mg/L		18-NOV-20	R5288640
Silicon (Si)-Dissolved	2.27		0.050	mg/L		18-NOV-20	R5288640
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		18-NOV-20	R5288640

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-4 SW06_SW_20201110 Sampled By: Client on 10-NOV-20 @ 12:00 Matrix: SW							
Dissolved Metals							
Sodium (Na)-Dissolved	43.1		0.10	mg/L		18-NOV-20	R5288640
Strontium (Sr)-Dissolved	0.277		0.0010	mg/L		18-NOV-20	R5288640
Sulfur (S)-Dissolved	78.6		0.50	mg/L		18-NOV-20	R5288640
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288640
Thallium (Tl)-Dissolved	0.000008	<DL	0.00030	mg/L		18-NOV-20	R5288640
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		18-NOV-20	R5288640
Tin (Sn)-Dissolved	0.000100	<DL	0.0010	mg/L		18-NOV-20	R5288640
Titanium (Ti)-Dissolved	0.00042	<DL	0.0020	mg/L		18-NOV-20	R5288640
Tungsten (W)-Dissolved	0.000036	<DL	0.010	mg/L		18-NOV-20	R5288640
Uranium (U)-Dissolved	0.00162	<DL	0.0050	mg/L		18-NOV-20	R5288640
Vanadium (V)-Dissolved	0.00032	<DL	0.0010	mg/L		18-NOV-20	R5288640
Zinc (Zn)-Dissolved	0.0016	<DL	0.0030	mg/L		18-NOV-20	R5288640
Zirconium (Zr)-Dissolved	0.000164	<DL	0.0010	mg/L		18-NOV-20	R5288640
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-NOV-20	R5289397
Chemical Oxygen Demand	52		20	mg/L	15-NOV-20	19-NOV-20	R5289044
Oil and Grease, Total	0.2	<DL	1.0	mg/L	18-NOV-20	18-NOV-20	R5287176
L2529177-5 SW10_SW_20201110 Sampled By: Client on 10-NOV-20 @ 15:00 Matrix: SW							
Field Tests							
Dissolved Oxygen, Client Supplied	5.34		0	mg/L		17-NOV-20	R5286809
pH, Client Supplied	7.4		0.10	pH		17-NOV-20	R5286809
Temperature, Client Supplied	1.81		0	Degree C		17-NOV-20	R5286809
Physical Tests							
Color, True	85.7		2.0	CU		13-NOV-20	R5285334
Conductivity (EC)	346		1.0	uS/cm		14-NOV-20	R5285713
Hardness (as CaCO3)	162		0.51	mg/L		19-NOV-20	
pH	7.95		0.10	pH		14-NOV-20	R5285713
Total Suspended Solids	0.5	<DL	3.0	mg/L		16-NOV-20	R5286593
Total Dissolved Solids	226		20	mg/L		16-NOV-20	R5286672
Turbidity	2.47		0.10	NTU		13-NOV-20	R5285202
Anions and Nutrients							
Acidity (as CaCO3)	1.0	<DL	2.0	mg/L		17-NOV-20	R5287252
Alkalinity, Total (as CaCO3)	139		2.0	mg/L		14-NOV-20	R5285713
Ammonia, Total (as N)	0.008	<T	0.0050	mg/L		19-NOV-20	R5289379
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		20-NOV-20	
Chloride (Cl)	25.1		0.10	mg/L	13-NOV-20	14-NOV-20	R5285959
Fluoride (F)	0.054		0.020	mg/L	13-NOV-20	14-NOV-20	R5285959
Nitrate (as N)	0.012	<DL	0.020	mg/L		14-NOV-20	R5285959
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-NOV-20	R5285959
Total Kjeldahl Nitrogen	1.09		0.050	mg/L	15-NOV-20	18-NOV-20	R5287683

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-5 SW10_SW_20201110 Sampled By: Client on 10-NOV-20 @ 15:00 Matrix: SW							
Anions and Nutrients							
Orthophosphate-Dissolved (as P)	0.0049		0.0030	mg/L	13-NOV-20	17-NOV-20	R5286892
Sulfate (SO4)	9.95		0.30	mg/L		14-NOV-20	R5285959
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Total	<0.0002	<W	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Free	0.0016	<DL	0.0020	mg/L		17-NOV-20	R5287236
Organic / Inorganic Carbon							
Dissolved Organic Carbon	28.4	DLM	2.5	mg/L	13-NOV-20	20-NOV-20	R5295038
Total Organic Carbon	25.3	DLM	2.5	mg/L		20-NOV-20	R5294879
Total Metals							
Aluminum (Al)-Total	0.0790		0.0050	mg/L		17-NOV-20	R5287329
Antimony (Sb)-Total	0.000050	<DL	0.00060	mg/L		17-NOV-20	R5287329
Arsenic (As)-Total	0.00076	<DL	0.0010	mg/L		17-NOV-20	R5287329
Barium (Ba)-Total	0.0188		0.010	mg/L		17-NOV-20	R5287329
Beryllium (Be)-Total	0.0000029	<DL	0.0010	mg/L		17-NOV-20	R5287329
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		17-NOV-20	R5287329
Boron (B)-Total	0.0145	<DL	0.050	mg/L		17-NOV-20	R5287329
Cadmium (Cd)-Total	0.000003	<DL	0.000017	mg/L		17-NOV-20	R5287329
Calcium (Ca)-Total	36.9		0.20	mg/L		17-NOV-20	R5287329
Cesium (Cs)-Total	0.0000070	<DL	0.000010	mg/L		17-NOV-20	R5287329
Chromium (Cr)-Total	0.00036	<DL	0.0010	mg/L		17-NOV-20	R5287329
Cobalt (Co)-Total	0.000175	<DL	0.00050	mg/L		17-NOV-20	R5287329
Copper (Cu)-Total	0.00072	<DL	0.0010	mg/L		17-NOV-20	R5287329
Iron (Fe)-Total	0.325		0.020	mg/L		17-NOV-20	R5287329
Lead (Pb)-Total	0.00007	<T	0.000050	mg/L		17-NOV-20	R5287329
Lithium (Li)-Total	0.0064	<DL	0.050	mg/L		17-NOV-20	R5287329
Magnesium (Mg)-Total	16.6		0.020	mg/L		17-NOV-20	R5287329
Manganese (Mn)-Total	0.0256		0.0010	mg/L		17-NOV-20	R5287329
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287565
Molybdenum (Mo)-Total	0.000515	<DL	0.0010	mg/L		17-NOV-20	R5287329
Nickel (Ni)-Total	0.00150	<DL	0.0020	mg/L		17-NOV-20	R5287329
Phosphorus (P)-Total	0.015	<DL	0.050	mg/L		17-NOV-20	R5287329
Potassium (K)-Total	2.23		0.50	mg/L		17-NOV-20	R5287329
Rubidium (Rb)-Total	0.00194		0.00020	mg/L		17-NOV-20	R5287329
Selenium (Se)-Total	0.000080	<T	0.000050	mg/L		17-NOV-20	R5287329
Silicon (Si)-Total	4.68		0.10	mg/L		17-NOV-20	R5287329
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		17-NOV-20	R5287329
Sodium (Na)-Total	10.6		0.10	mg/L		17-NOV-20	R5287329
Strontium (Sr)-Total	0.103		0.0010	mg/L		17-NOV-20	R5287329
Sulfur (S)-Total	3.4		0.50	mg/L		17-NOV-20	R5287329
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		17-NOV-20	R5287329
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		17-NOV-20	R5287329

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-5 SW10_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 15:00							
Matrix: SW							
Total Metals							
Thorium (Th)-Total	0.00002	<DL	0.00010	mg/L		17-NOV-20	R5287329
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		17-NOV-20	R5287329
Titanium (Ti)-Total	0.00272		0.0020	mg/L		17-NOV-20	R5287329
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		17-NOV-20	R5287329
Uranium (U)-Total	0.000958	<DL	0.0050	mg/L		17-NOV-20	R5287329
Vanadium (V)-Total	0.00055	<DL	0.0010	mg/L		17-NOV-20	R5287329
Zinc (Zn)-Total	0.0015	<DL	0.0030	mg/L		17-NOV-20	R5287329
Zirconium (Zr)-Total	0.000244	<DL	0.0010	mg/L		17-NOV-20	R5287329
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					18-NOV-20	R5287769
Aluminum (Al)-Dissolved	0.0152	<T	0.0050	mg/L		18-NOV-20	R5288640
Antimony (Sb)-Dissolved	0.000065	<DL	0.00060	mg/L		18-NOV-20	R5288640
Arsenic (As)-Dissolved	0.000745	<DL	0.0010	mg/L		18-NOV-20	R5288640
Barium (Ba)-Dissolved	0.0186		0.010	mg/L		18-NOV-20	R5288640
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Boron (B)-Dissolved	0.0155	<DL	0.050	mg/L		18-NOV-20	R5288640
Cadmium (Cd)-Dissolved	0.0000050	<DL	0.000017	mg/L		18-NOV-20	R5288640
Calcium (Ca)-Dissolved	37.3		0.20	mg/L		18-NOV-20	R5288640
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		18-NOV-20	R5288640
Chromium (Cr)-Dissolved	0.00017	<DL	0.0010	mg/L		18-NOV-20	R5288640
Cobalt (Co)-Dissolved	0.000136	<DL	0.00050	mg/L		18-NOV-20	R5288640
Copper (Cu)-Dissolved	0.00080	<DL	0.0010	mg/L		18-NOV-20	R5288640
Iron (Fe)-Dissolved	0.212		0.020	mg/L		18-NOV-20	R5288640
Lead (Pb)-Dissolved	0.00004	<DL	0.000050	mg/L		18-NOV-20	R5288640
Lithium (Li)-Dissolved	0.0070	<DL	0.050	mg/L		18-NOV-20	R5288640
Magnesium (Mg)-Dissolved	16.7		0.020	mg/L		18-NOV-20	R5288640
Manganese (Mn)-Dissolved	0.0235		0.0010	mg/L		18-NOV-20	R5288640
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287568
Molybdenum (Mo)-Dissolved	0.000502	<DL	0.0010	mg/L		18-NOV-20	R5288640
Nickel (Ni)-Dissolved	0.00140	<DL	0.0020	mg/L		18-NOV-20	R5288640
Phosphorus (P)-Dissolved	0.010	<DL	0.050	mg/L		18-NOV-20	R5288640
Potassium (K)-Dissolved	2.33		0.50	mg/L		18-NOV-20	R5288640
Rubidium (Rb)-Dissolved	0.00188		0.00020	mg/L		18-NOV-20	R5288640
Selenium (Se)-Dissolved	0.000155	<T	0.000050	mg/L		18-NOV-20	R5288640
Silicon (Si)-Dissolved	4.32		0.050	mg/L		18-NOV-20	R5288640
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		18-NOV-20	R5288640
Sodium (Na)-Dissolved	11.0		0.10	mg/L		18-NOV-20	R5288640
Strontium (Sr)-Dissolved	0.103		0.0010	mg/L		18-NOV-20	R5288640
Sulfur (S)-Dissolved	2.8		0.50	mg/L		18-NOV-20	R5288640
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288640

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-5 SW10_SW_20201110 Sampled By: Client on 10-NOV-20 @ 15:00 Matrix: SW							
Dissolved Metals							
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		18-NOV-20	R5288640
Thorium (Th)-Dissolved	0.00002	<DL	0.00010	mg/L		18-NOV-20	R5288640
Tin (Sn)-Dissolved	0.000060	<DL	0.0010	mg/L		18-NOV-20	R5288640
Titanium (Ti)-Dissolved	0.00094	<DL	0.0020	mg/L		18-NOV-20	R5288640
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		18-NOV-20	R5288640
Uranium (U)-Dissolved	0.000905	<DL	0.0050	mg/L		18-NOV-20	R5288640
Vanadium (V)-Dissolved	0.00038	<DL	0.0010	mg/L		18-NOV-20	R5288640
Zinc (Zn)-Dissolved	0.0018	<DL	0.0030	mg/L		18-NOV-20	R5288640
Zirconium (Zr)-Dissolved	0.000252	<DL	0.0010	mg/L		18-NOV-20	R5288640
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-NOV-20	R5289397
Chemical Oxygen Demand	74		20	mg/L	15-NOV-20	19-NOV-20	R5289044
Oil and Grease, Total	<0.2	<W	1.0	mg/L	18-NOV-20	18-NOV-20	R5287176
L2529177-6 SW15_SW_20201110 Sampled By: Client on 10-NOV-20 @ 10:45 Matrix: SW							
Field Tests							
Dissolved Oxygen, Client Supplied	0		0	mg/L		17-NOV-20	R5286809
pH, Client Supplied	7.24		0.10	pH		17-NOV-20	R5286809
Temperature, Client Supplied	.67		0	Degree C		17-NOV-20	R5286809
Physical Tests							
Color, True	191		2.0	CU		13-NOV-20	R5285334
Conductivity (EC)	518		1.0	uS/cm		14-NOV-20	R5285713
Hardness (as CaCO3)	195		0.51	mg/L		19-NOV-20	
pH	7.92		0.10	pH		14-NOV-20	R5285713
Total Suspended Solids	5.5		3.0	mg/L		16-NOV-20	R5286593
Total Dissolved Solids	368		20	mg/L		16-NOV-20	R5286672
Turbidity	13.4		0.10	NTU		13-NOV-20	R5285202
Anions and Nutrients							
Acidity (as CaCO3)	2.0		2.0	mg/L		17-NOV-20	R5287252
Alkalinity, Total (as CaCO3)	108		2.0	mg/L		14-NOV-20	R5285713
Ammonia, Total (as N)	0.014	<T	0.0050	mg/L		19-NOV-20	R5289379
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		20-NOV-20	
Chloride (Cl)	10.6		0.10	mg/L	13-NOV-20	14-NOV-20	R5285959
Fluoride (F)	0.070		0.020	mg/L	13-NOV-20	14-NOV-20	R5285959
Nitrate (as N)	0.810		0.020	mg/L		14-NOV-20	R5285959
Nitrite (as N)	0.013	<T	0.010	mg/L		14-NOV-20	R5285959
Total Kjeldahl Nitrogen	1.17		0.050	mg/L	15-NOV-20	18-NOV-20	R5287683
Orthophosphate-Dissolved (as P)	0.0033		0.0030	mg/L	13-NOV-20	17-NOV-20	R5286892
Sulfate (SO4)	144		0.30	mg/L		14-NOV-20	R5285959
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		17-NOV-20	R5287236

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-6 SW15_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 10:45							
Matrix: SW							
Cyanides							
Cyanide, Total	0.0004	<DL	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Free	0.0011	<DL	0.0020	mg/L		17-NOV-20	R5287236
Organic / Inorganic Carbon							
Dissolved Organic Carbon	32.7	DLM	2.5	mg/L	13-NOV-20	20-NOV-20	R5295038
Total Organic Carbon	33.0	DLM	2.5	mg/L		20-NOV-20	R5294879
Total Metals							
Aluminum (Al)-Total	0.319		0.0050	mg/L		17-NOV-20	R5287329
Antimony (Sb)-Total	0.00446	<T	0.00060	mg/L		17-NOV-20	R5287329
Arsenic (As)-Total	0.00124	<T	0.0010	mg/L		17-NOV-20	R5287329
Barium (Ba)-Total	0.0319		0.010	mg/L		17-NOV-20	R5287329
Beryllium (Be)-Total	0.0000105	<DL	0.0010	mg/L		17-NOV-20	R5287329
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		17-NOV-20	R5287329
Boron (B)-Total	0.0315	<DL	0.050	mg/L		17-NOV-20	R5287329
Cadmium (Cd)-Total	0.000010	<DL	0.000017	mg/L		17-NOV-20	R5287329
Calcium (Ca)-Total	53.6		0.20	mg/L		17-NOV-20	R5287329
Cesium (Cs)-Total	0.0000455		0.000010	mg/L		17-NOV-20	R5287329
Chromium (Cr)-Total	0.00074	<DL	0.0010	mg/L		17-NOV-20	R5287329
Cobalt (Co)-Total	0.000585	<T	0.00050	mg/L		17-NOV-20	R5287329
Copper (Cu)-Total	0.00218	<T	0.0010	mg/L		17-NOV-20	R5287329
Iron (Fe)-Total	0.670		0.020	mg/L		17-NOV-20	R5287329
Lead (Pb)-Total	0.00036	<T	0.000050	mg/L		17-NOV-20	R5287329
Lithium (Li)-Total	0.0068	<DL	0.050	mg/L		17-NOV-20	R5287329
Magnesium (Mg)-Total	15.3		0.020	mg/L		17-NOV-20	R5287329
Manganese (Mn)-Total	0.0428		0.0010	mg/L		17-NOV-20	R5287329
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287565
Molybdenum (Mo)-Total	0.00285	<T	0.0010	mg/L		17-NOV-20	R5287329
Nickel (Ni)-Total	0.00172	<DL	0.0020	mg/L		17-NOV-20	R5287329
Phosphorus (P)-Total	0.015	<DL	0.050	mg/L		17-NOV-20	R5287329
Potassium (K)-Total	12.1		0.50	mg/L		17-NOV-20	R5287329
Rubidium (Rb)-Total	0.00631		0.00020	mg/L		17-NOV-20	R5287329
Selenium (Se)-Total	0.000105	<T	0.000050	mg/L		17-NOV-20	R5287329
Silicon (Si)-Total	4.10		0.10	mg/L		17-NOV-20	R5287329
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		17-NOV-20	R5287329
Sodium (Na)-Total	25.5		0.10	mg/L		17-NOV-20	R5287329
Strontium (Sr)-Total	0.168		0.0010	mg/L		17-NOV-20	R5287329
Sulfur (S)-Total	47.8		0.50	mg/L		17-NOV-20	R5287329
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		17-NOV-20	R5287329
Thallium (Tl)-Total	0.000005	<DL	0.00030	mg/L		17-NOV-20	R5287329
Thorium (Th)-Total	0.00010		0.00010	mg/L		17-NOV-20	R5287329
Tin (Sn)-Total	0.00003	<DL	0.0010	mg/L		17-NOV-20	R5287329
Titanium (Ti)-Total	0.0113		0.0020	mg/L		17-NOV-20	R5287329

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-6 SW15_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 10:45							
Matrix: SW							
Total Metals							
Tungsten (W)-Total	0.00002	<DL	0.010	mg/L		17-NOV-20	R5287329
Uranium (U)-Total	0.00115	<DL	0.0050	mg/L		17-NOV-20	R5287329
Vanadium (V)-Total	0.00135	<T	0.0010	mg/L		17-NOV-20	R5287329
Zinc (Zn)-Total	0.0030	<T	0.0030	mg/L		17-NOV-20	R5287329
Zirconium (Zr)-Total	0.000570	<DL	0.0010	mg/L		17-NOV-20	R5287329
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					18-NOV-20	R5287769
Aluminum (Al)-Dissolved	0.0818		0.0050	mg/L		18-NOV-20	R5288640
Antimony (Sb)-Dissolved	0.00467	<T	0.00060	mg/L		18-NOV-20	R5288640
Arsenic (As)-Dissolved	0.00113	<T	0.0010	mg/L		18-NOV-20	R5288640
Barium (Ba)-Dissolved	0.0299		0.010	mg/L		18-NOV-20	R5288640
Beryllium (Be)-Dissolved	0.000002	<DL	0.0010	mg/L		18-NOV-20	R5288640
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Boron (B)-Dissolved	0.0310	<DL	0.050	mg/L		18-NOV-20	R5288640
Cadmium (Cd)-Dissolved	0.0000165	<DL	0.000017	mg/L		18-NOV-20	R5288640
Calcium (Ca)-Dissolved	52.4		0.20	mg/L		18-NOV-20	R5288640
Cesium (Cs)-Dissolved	0.0000065	<DL	0.000010	mg/L		18-NOV-20	R5288640
Chromium (Cr)-Dissolved	0.00022	<DL	0.0010	mg/L		18-NOV-20	R5288640
Cobalt (Co)-Dissolved	0.000424	<DL	0.00050	mg/L		18-NOV-20	R5288640
Copper (Cu)-Dissolved	0.00190	<T	0.0010	mg/L		18-NOV-20	R5288640
Iron (Fe)-Dissolved	0.337		0.020	mg/L		18-NOV-20	R5288640
Lead (Pb)-Dissolved	0.00014	<T	0.000050	mg/L		18-NOV-20	R5288640
Lithium (Li)-Dissolved	0.0072	<DL	0.050	mg/L		18-NOV-20	R5288640
Magnesium (Mg)-Dissolved	15.6		0.020	mg/L		18-NOV-20	R5288640
Manganese (Mn)-Dissolved	0.0346		0.0010	mg/L		18-NOV-20	R5288640
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287568
Molybdenum (Mo)-Dissolved	0.00278	<T	0.0010	mg/L		18-NOV-20	R5288640
Nickel (Ni)-Dissolved	0.00126	<DL	0.0020	mg/L		18-NOV-20	R5288640
Phosphorus (P)-Dissolved	0.005	<DL	0.050	mg/L		18-NOV-20	R5288640
Potassium (K)-Dissolved	12.4		0.50	mg/L		18-NOV-20	R5288640
Rubidium (Rb)-Dissolved	0.00601		0.00020	mg/L		18-NOV-20	R5288640
Selenium (Se)-Dissolved	0.000190	<T	0.000050	mg/L		18-NOV-20	R5288640
Silicon (Si)-Dissolved	3.55		0.050	mg/L		18-NOV-20	R5288640
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		18-NOV-20	R5288640
Sodium (Na)-Dissolved	26.4		0.10	mg/L		18-NOV-20	R5288640
Strontium (Sr)-Dissolved	0.166		0.0010	mg/L		18-NOV-20	R5288640
Sulfur (S)-Dissolved	46.4		0.50	mg/L		18-NOV-20	R5288640
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288640
Thallium (Tl)-Dissolved	0.000004	<DL	0.00030	mg/L		18-NOV-20	R5288640
Thorium (Th)-Dissolved	0.00006	<DL	0.00010	mg/L		18-NOV-20	R5288640
Tin (Sn)-Dissolved	0.000065	<DL	0.0010	mg/L		18-NOV-20	R5288640

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-6 SW15_SW_20201110 Sampled By: Client on 10-NOV-20 @ 10:45 Matrix: SW							
Dissolved Metals							
Titanium (Ti)-Dissolved	0.00330		0.0020	mg/L		18-NOV-20	R5288640
Tungsten (W)-Dissolved	0.000020	<DL	0.010	mg/L		18-NOV-20	R5288640
Uranium (U)-Dissolved	0.00105	<DL	0.0050	mg/L		18-NOV-20	R5288640
Vanadium (V)-Dissolved	0.00062	<DL	0.0010	mg/L		18-NOV-20	R5288640
Zinc (Zn)-Dissolved	0.0018	<DL	0.0030	mg/L		18-NOV-20	R5288640
Zirconium (Zr)-Dissolved	0.000408	<DL	0.0010	mg/L		18-NOV-20	R5288640
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-NOV-20	R5289397
Chemical Oxygen Demand	93		20	mg/L	15-NOV-20	19-NOV-20	R5289044
Oil and Grease, Total	0.2	<DL	1.0	mg/L	18-NOV-20	18-NOV-20	R5287176
L2529177-7 SW16_SW_20201110 Sampled By: Client on 10-NOV-20 @ 13:30 Matrix: SW							
Field Tests							
Dissolved Oxygen, Client Supplied	3.64		0	mg/L		17-NOV-20	R5286809
pH, Client Supplied	6.93		0.10	pH		17-NOV-20	R5286809
Temperature, Client Supplied	2.98		0	Degree C		17-NOV-20	R5286809
Physical Tests							
Color, True	36.0		2.0	CU		13-NOV-20	R5285334
Conductivity (EC)	72.6		1.0	uS/cm		14-NOV-20	R5285713
Hardness (as CaCO3)	29.7		0.51	mg/L		19-NOV-20	
pH	7.50		0.10	pH		14-NOV-20	R5285713
Total Suspended Solids	4.5		3.0	mg/L		16-NOV-20	R5286593
Total Dissolved Solids	44		13	mg/L		16-NOV-20	R5286672
Turbidity	3.12		0.10	NTU		13-NOV-20	R5285202
Anions and Nutrients							
Acidity (as CaCO3)	0.8	<DL	2.0	mg/L		17-NOV-20	R5287252
Alkalinity, Total (as CaCO3)	28.4		2.0	mg/L		14-NOV-20	R5285713
Ammonia, Total (as N)	<0.002	<W	0.0050	mg/L		19-NOV-20	R5289379
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		20-NOV-20	
Chloride (Cl)	2.61		0.10	mg/L	13-NOV-20	14-NOV-20	R5285959
Fluoride (F)	0.039		0.020	mg/L	13-NOV-20	14-NOV-20	R5285959
Nitrate (as N)	0.010	<DL	0.020	mg/L		14-NOV-20	R5285959
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-NOV-20	R5285959
Total Kjeldahl Nitrogen	0.567		0.050	mg/L	15-NOV-20	18-NOV-20	R5287683
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	13-NOV-20	17-NOV-20	R5286892
Sulfate (SO4)	4.30	<T	0.30	mg/L		14-NOV-20	R5285959
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Total	<0.0002	<W	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Free	0.0019	<DL	0.0020	mg/L		17-NOV-20	R5287236
Organic / Inorganic Carbon							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-7 SW16_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 13:30							
Matrix: SW							
Organic / Inorganic Carbon							
Dissolved Organic Carbon	11.0		0.50	mg/L	13-NOV-20	20-NOV-20	R5295038
Total Organic Carbon	11.3		0.50	mg/L		20-NOV-20	R5294879
Total Metals							
Aluminum (Al)-Total	0.166		0.050	mg/L		17-NOV-20	R5287329
Antimony (Sb)-Total	0.000035	<DL	0.00060	mg/L		17-NOV-20	R5287329
Arsenic (As)-Total	0.00043	<DL	0.0010	mg/L		17-NOV-20	R5287329
Barium (Ba)-Total	0.00936	<DL	0.010	mg/L		17-NOV-20	R5287329
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		17-NOV-20	R5287329
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		17-NOV-20	R5287329
Boron (B)-Total	0.0050	<DL	0.050	mg/L		17-NOV-20	R5287329
Cadmium (Cd)-Total	0.000001	<DL	0.000017	mg/L		17-NOV-20	R5287329
Calcium (Ca)-Total	8.00		0.20	mg/L		17-NOV-20	R5287329
Cesium (Cs)-Total	0.0000160		0.000010	mg/L		17-NOV-20	R5287329
Chromium (Cr)-Total	0.00048	<DL	0.0010	mg/L		17-NOV-20	R5287329
Cobalt (Co)-Total	0.000080	<DL	0.00050	mg/L		17-NOV-20	R5287329
Copper (Cu)-Total	0.00096	<DL	0.0010	mg/L		17-NOV-20	R5287329
Iron (Fe)-Total	0.222		0.020	mg/L		17-NOV-20	R5287329
Lead (Pb)-Total	0.00011	<T	0.000050	mg/L		17-NOV-20	R5287329
Lithium (Li)-Total	0.0010	<DL	0.050	mg/L		17-NOV-20	R5287329
Magnesium (Mg)-Total	2.64		0.020	mg/L		17-NOV-20	R5287329
Manganese (Mn)-Total	0.0106		0.0010	mg/L		17-NOV-20	R5287329
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287565
Molybdenum (Mo)-Total	0.000175	<DL	0.0010	mg/L		17-NOV-20	R5287329
Nickel (Ni)-Total	0.00080	<DL	0.0020	mg/L		17-NOV-20	R5287329
Phosphorus (P)-Total	0.005	<DL	0.050	mg/L		17-NOV-20	R5287329
Potassium (K)-Total	0.80		0.50	mg/L		17-NOV-20	R5287329
Rubidium (Rb)-Total	0.00174		0.00020	mg/L		17-NOV-20	R5287329
Selenium (Se)-Total	0.000085	<T	0.000050	mg/L		17-NOV-20	R5287329
Silicon (Si)-Total	2.00		0.10	mg/L		17-NOV-20	R5287329
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		17-NOV-20	R5287329
Sodium (Na)-Total	3.52		0.10	mg/L		17-NOV-20	R5287329
Strontium (Sr)-Total	0.0233		0.0010	mg/L		17-NOV-20	R5287329
Sulfur (S)-Total	1.4		0.50	mg/L		17-NOV-20	R5287329
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		17-NOV-20	R5287329
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		17-NOV-20	R5287329
Thorium (Th)-Total	0.00003	<DL	0.00010	mg/L		17-NOV-20	R5287329
Tin (Sn)-Total	0.00014	<DL	0.0010	mg/L		17-NOV-20	R5287329
Titanium (Ti)-Total	0.00317		0.0020	mg/L		17-NOV-20	R5287329
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		17-NOV-20	R5287329
Uranium (U)-Total	0.000109	<DL	0.0050	mg/L		17-NOV-20	R5287329
Vanadium (V)-Total	0.00055	<DL	0.0010	mg/L		17-NOV-20	R5287329

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-7 SW16_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 13:30							
Matrix: SW							
Total Metals							
Zinc (Zn)-Total	0.0015	<DL	0.0030	mg/L		17-NOV-20	R5287329
Zirconium (Zr)-Total	0.000180	<DL	0.0010	mg/L		17-NOV-20	R5287329
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					18-NOV-20	R5287769
Aluminum (Al)-Dissolved	0.0228	<T	0.0050	mg/L		18-NOV-20	R5288640
Antimony (Sb)-Dissolved	0.000045	<DL	0.00060	mg/L		18-NOV-20	R5288640
Arsenic (As)-Dissolved	0.000377	<DL	0.0010	mg/L		18-NOV-20	R5288640
Barium (Ba)-Dissolved	0.00824	<DL	0.010	mg/L		18-NOV-20	R5288640
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Boron (B)-Dissolved	0.0065	<DL	0.050	mg/L		18-NOV-20	R5288640
Cadmium (Cd)-Dissolved	0.0000030	<DL	0.000017	mg/L		18-NOV-20	R5288640
Calcium (Ca)-Dissolved	7.70		0.20	mg/L		18-NOV-20	R5288640
Cesium (Cs)-Dissolved	0.0000020	<DL	0.000010	mg/L		18-NOV-20	R5288640
Chromium (Cr)-Dissolved	0.00019	<DL	0.0010	mg/L		18-NOV-20	R5288640
Cobalt (Co)-Dissolved	0.000020	<DL	0.00050	mg/L		18-NOV-20	R5288640
Copper (Cu)-Dissolved	0.00094	<DL	0.0010	mg/L		18-NOV-20	R5288640
Iron (Fe)-Dissolved	0.0815		0.020	mg/L		18-NOV-20	R5288640
Lead (Pb)-Dissolved	0.00003	<DL	0.000050	mg/L		18-NOV-20	R5288640
Lithium (Li)-Dissolved	0.0008	<DL	0.050	mg/L		18-NOV-20	R5288640
Magnesium (Mg)-Dissolved	2.54		0.020	mg/L		18-NOV-20	R5288640
Manganese (Mn)-Dissolved	0.00370		0.0010	mg/L		18-NOV-20	R5288640
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287568
Molybdenum (Mo)-Dissolved	0.000172	<DL	0.0010	mg/L		18-NOV-20	R5288640
Nickel (Ni)-Dissolved	0.00056	<DL	0.0020	mg/L		18-NOV-20	R5288640
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		18-NOV-20	R5288640
Potassium (K)-Dissolved	0.79		0.50	mg/L		18-NOV-20	R5288640
Rubidium (Rb)-Dissolved	0.00166		0.00020	mg/L		18-NOV-20	R5288640
Selenium (Se)-Dissolved	0.000115	<T	0.000050	mg/L		18-NOV-20	R5288640
Silicon (Si)-Dissolved	1.72		0.050	mg/L		18-NOV-20	R5288640
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		18-NOV-20	R5288640
Sodium (Na)-Dissolved	3.56		0.10	mg/L		18-NOV-20	R5288640
Strontium (Sr)-Dissolved	0.0223		0.0010	mg/L		18-NOV-20	R5288640
Sulfur (S)-Dissolved	1.2		0.50	mg/L		18-NOV-20	R5288640
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288640
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		18-NOV-20	R5288640
Thorium (Th)-Dissolved	0.00003	<DL	0.00010	mg/L		18-NOV-20	R5288640
Tin (Sn)-Dissolved	0.000025	<DL	0.0010	mg/L		18-NOV-20	R5288640
Titanium (Ti)-Dissolved	0.00072	<DL	0.0020	mg/L		18-NOV-20	R5288640
Tungsten (W)-Dissolved	0.000008	<DL	0.010	mg/L		18-NOV-20	R5288640
Uranium (U)-Dissolved	0.0000925	<DL	0.0050	mg/L		18-NOV-20	R5288640

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-7 SW16_SW_20201110 Sampled By: Client on 10-NOV-20 @ 13:30 Matrix: SW							
Dissolved Metals							
Vanadium (V)-Dissolved	0.00028	<DL	0.0010	mg/L		18-NOV-20	R5288640
Zinc (Zn)-Dissolved	0.0008	<DL	0.0030	mg/L		18-NOV-20	R5288640
Zirconium (Zr)-Dissolved	0.000128	<DL	0.0010	mg/L		18-NOV-20	R5288640
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-NOV-20	R5289397
Chemical Oxygen Demand	54		20	mg/L	15-NOV-20	19-NOV-20	R5289044
Oil and Grease, Total	0.8	<DL	1.0	mg/L	18-NOV-20	18-NOV-20	R5287176
L2529177-8 SW17_SW_20201110 Sampled By: Client on 10-NOV-20 @ 11:30 Matrix: SW							
Field Tests							
Dissolved Oxygen, Client Supplied	4.72		0	mg/L		17-NOV-20	R5286809
pH, Client Supplied	7.41		0.10	pH		17-NOV-20	R5286809
Temperature, Client Supplied	3.67		0	Degree C		17-NOV-20	R5286809
Physical Tests							
Color, True	63.6		2.0	CU		13-NOV-20	R5285334
Conductivity (EC)	102		1.0	uS/cm		14-NOV-20	R5285713
Hardness (as CaCO3)	45.3		0.51	mg/L		19-NOV-20	
pH	7.64		0.10	pH		14-NOV-20	R5285713
Total Suspended Solids	3.0		3.0	mg/L		16-NOV-20	R5286593
Total Dissolved Solids	72		13	mg/L		16-NOV-20	R5286672
Turbidity	4.62		0.10	NTU		13-NOV-20	R5285202
Anions and Nutrients							
Acidity (as CaCO3)	0.8	<DL	2.0	mg/L		17-NOV-20	R5287252
Alkalinity, Total (as CaCO3)	40.8		2.0	mg/L		14-NOV-20	R5285713
Ammonia, Total (as N)	<0.002	<W	0.0050	mg/L		19-NOV-20	R5289379
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		20-NOV-20	
Chloride (Cl)	3.36		0.10	mg/L	13-NOV-20	14-NOV-20	R5285959
Fluoride (F)	0.051		0.020	mg/L	13-NOV-20	14-NOV-20	R5285959
Nitrate (as N)	0.036	<T	0.020	mg/L		14-NOV-20	R5285959
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-NOV-20	R5285959
Total Kjeldahl Nitrogen	0.630		0.050	mg/L	15-NOV-20	18-NOV-20	R5287683
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	13-NOV-20	17-NOV-20	R5286892
Sulfate (SO4)	8.95		0.30	mg/L		14-NOV-20	R5285959
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Total	<0.0002	<W	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Free	0.0008	<DL	0.0020	mg/L		17-NOV-20	R5287236
Organic / Inorganic Carbon							
Dissolved Organic Carbon	14.3		0.50	mg/L	13-NOV-20	20-NOV-20	R5295038
Total Organic Carbon	14.5		0.50	mg/L		20-NOV-20	R5294879
Total Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-8 SW17_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 11:30							
Matrix: SW							
Total Metals							
Aluminum (Al)-Total	0.0834		0.0050	mg/L		18-NOV-20	R5288597
Antimony (Sb)-Total	0.000095	<DL	0.00060	mg/L		18-NOV-20	R5288597
Arsenic (As)-Total	0.00055	<DL	0.0010	mg/L		18-NOV-20	R5288597
Barium (Ba)-Total	0.0120		0.010	mg/L		18-NOV-20	R5288597
Beryllium (Be)-Total	0.0000033	<DL	0.0010	mg/L		18-NOV-20	R5288597
Bismuth (Bi)-Total	0.00001	<DL	0.0010	mg/L		18-NOV-20	R5288597
Boron (B)-Total	0.0085	<DL	0.050	mg/L		18-NOV-20	R5288597
Cadmium (Cd)-Total	0.000007	<DL	0.000017	mg/L		18-NOV-20	R5288597
Calcium (Ca)-Total	11.7		0.20	mg/L		18-NOV-20	R5288597
Cesium (Cs)-Total	0.0000115		0.000010	mg/L		18-NOV-20	R5288597
Chromium (Cr)-Total	0.00038	<DL	0.0010	mg/L		18-NOV-20	R5288597
Cobalt (Co)-Total	0.000105	<DL	0.00050	mg/L		18-NOV-20	R5288597
Copper (Cu)-Total	0.00090	<DL	0.0010	mg/L		18-NOV-20	R5288597
Iron (Fe)-Total	0.298		0.020	mg/L		18-NOV-20	R5288597
Lead (Pb)-Total	0.00013	<T	0.000050	mg/L		18-NOV-20	R5288597
Lithium (Li)-Total	0.0012	<DL	0.050	mg/L		18-NOV-20	R5288597
Magnesium (Mg)-Total	4.11		0.020	mg/L		18-NOV-20	R5288597
Manganese (Mn)-Total	0.0178		0.0010	mg/L		18-NOV-20	R5288597
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287565
Molybdenum (Mo)-Total	0.000220	<DL	0.0010	mg/L		18-NOV-20	R5288597
Nickel (Ni)-Total	0.00078	<DL	0.0020	mg/L		18-NOV-20	R5288597
Phosphorus (P)-Total	0.010	<DL	0.050	mg/L		18-NOV-20	R5288597
Potassium (K)-Total	1.13		0.50	mg/L		18-NOV-20	R5288597
Rubidium (Rb)-Total	0.00198		0.00020	mg/L		18-NOV-20	R5288597
Selenium (Se)-Total	0.000100	<T	0.000050	mg/L		18-NOV-20	R5288597
Silicon (Si)-Total	2.48		0.10	mg/L		18-NOV-20	R5288597
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		18-NOV-20	R5288597
Sodium (Na)-Total	4.27		0.10	mg/L		18-NOV-20	R5288597
Strontium (Sr)-Total	0.0313		0.0010	mg/L		18-NOV-20	R5288597
Sulfur (S)-Total	2.0		0.50	mg/L		18-NOV-20	R5288597
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		18-NOV-20	R5288597
Thallium (Tl)-Total	0.000015	<DL	0.00030	mg/L		18-NOV-20	R5288597
Thorium (Th)-Total	0.00005	<DL	0.00010	mg/L		18-NOV-20	R5288597
Tin (Sn)-Total	0.00006	<DL	0.0010	mg/L		18-NOV-20	R5288597
Titanium (Ti)-Total	0.00256		0.0020	mg/L		18-NOV-20	R5288597
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		18-NOV-20	R5288597
Uranium (U)-Total	0.000130	<DL	0.0050	mg/L		18-NOV-20	R5288597
Vanadium (V)-Total	0.00050	<DL	0.0010	mg/L		18-NOV-20	R5288597
Zinc (Zn)-Total	0.0015	<DL	0.0030	mg/L		18-NOV-20	R5288597
Zirconium (Zr)-Total	0.000222	<DL	0.0010	mg/L		18-NOV-20	R5288597
Dissolved Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-8 SW17_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 11:30							
Matrix: SW							
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					18-NOV-20	R5287769
Aluminum (Al)-Dissolved	0.0318		0.0050	mg/L		18-NOV-20	R5288640
Antimony (Sb)-Dissolved	0.000110	<DL	0.00060	mg/L		18-NOV-20	R5288640
Arsenic (As)-Dissolved	0.000513	<DL	0.0010	mg/L		18-NOV-20	R5288640
Barium (Ba)-Dissolved	0.0111		0.010	mg/L		18-NOV-20	R5288640
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Boron (B)-Dissolved	0.0070	<DL	0.050	mg/L		18-NOV-20	R5288640
Cadmium (Cd)-Dissolved	0.0000060	<DL	0.000017	mg/L		18-NOV-20	R5288640
Calcium (Ca)-Dissolved	11.5		0.20	mg/L		18-NOV-20	R5288640
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		18-NOV-20	R5288640
Chromium (Cr)-Dissolved	0.00022	<DL	0.0010	mg/L		18-NOV-20	R5288640
Cobalt (Co)-Dissolved	0.000046	<DL	0.00050	mg/L		18-NOV-20	R5288640
Copper (Cu)-Dissolved	0.00100	<T	0.0010	mg/L		18-NOV-20	R5288640
Iron (Fe)-Dissolved	0.181		0.020	mg/L		18-NOV-20	R5288640
Lead (Pb)-Dissolved	0.00006	<T	0.000050	mg/L		18-NOV-20	R5288640
Lithium (Li)-Dissolved	0.0014	<DL	0.050	mg/L		18-NOV-20	R5288640
Magnesium (Mg)-Dissolved	4.05		0.020	mg/L		18-NOV-20	R5288640
Manganese (Mn)-Dissolved	0.0102		0.0010	mg/L		18-NOV-20	R5288640
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287568
Molybdenum (Mo)-Dissolved	0.000234	<DL	0.0010	mg/L		18-NOV-20	R5288640
Nickel (Ni)-Dissolved	0.00066	<DL	0.0020	mg/L		18-NOV-20	R5288640
Phosphorus (P)-Dissolved	0.005	<DL	0.050	mg/L		18-NOV-20	R5288640
Potassium (K)-Dissolved	1.08		0.50	mg/L		18-NOV-20	R5288640
Rubidium (Rb)-Dissolved	0.00168		0.00020	mg/L		18-NOV-20	R5288640
Selenium (Se)-Dissolved	0.000135	<T	0.000050	mg/L		18-NOV-20	R5288640
Silicon (Si)-Dissolved	2.37		0.050	mg/L		18-NOV-20	R5288640
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		18-NOV-20	R5288640
Sodium (Na)-Dissolved	4.26		0.10	mg/L		18-NOV-20	R5288640
Strontium (Sr)-Dissolved	0.0300		0.0010	mg/L		18-NOV-20	R5288640
Sulfur (S)-Dissolved	2.0		0.50	mg/L		18-NOV-20	R5288640
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288640
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		18-NOV-20	R5288640
Thorium (Th)-Dissolved	0.00003	<DL	0.00010	mg/L		18-NOV-20	R5288640
Tin (Sn)-Dissolved	0.000185	<DL	0.0010	mg/L		18-NOV-20	R5288640
Titanium (Ti)-Dissolved	0.00096	<DL	0.0020	mg/L		18-NOV-20	R5288640
Tungsten (W)-Dissolved	0.000004	<DL	0.010	mg/L		18-NOV-20	R5288640
Uranium (U)-Dissolved	0.000120	<DL	0.0050	mg/L		18-NOV-20	R5288640
Vanadium (V)-Dissolved	0.00034	<DL	0.0010	mg/L		18-NOV-20	R5288640
Zinc (Zn)-Dissolved	0.0014	<DL	0.0030	mg/L		18-NOV-20	R5288640
Zirconium (Zr)-Dissolved	0.000166	<DL	0.0010	mg/L		18-NOV-20	R5288640

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-8 SW17_SW_20201110 Sampled By: Client on 10-NOV-20 @ 11:30 Matrix: SW							
Dissolved Metals							
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-NOV-20	R5289397
Chemical Oxygen Demand	44		20	mg/L	15-NOV-20	19-NOV-20	R5289044
Oil and Grease, Total	0.2	<DL	1.0	mg/L	18-NOV-20	18-NOV-20	R5287176
L2529177-9 SW20_SW_20201110 Sampled By: Client on 10-NOV-20 @ 14:30 Matrix: SW							
Field Tests							
Dissolved Oxygen, Client Supplied	2.83		0	mg/L		17-NOV-20	R5286809
pH, Client Supplied	7.14		0.10	pH		17-NOV-20	R5286809
Temperature, Client Supplied	2.38		0	Degree C		17-NOV-20	R5286809
Physical Tests							
Color, True	72.6		2.0	CU		13-NOV-20	R5285334
Conductivity (EC)	397		1.0	uS/cm		14-NOV-20	R5285713
Hardness (as CaCO3)	162		0.51	mg/L		19-NOV-20	
pH	7.83		0.10	pH		14-NOV-20	R5285713
Total Suspended Solids	1.5	<DL	3.0	mg/L		16-NOV-20	R5286593
Total Dissolved Solids	256		20	mg/L		16-NOV-20	R5286672
Turbidity	2.72		0.10	NTU		13-NOV-20	R5285202
Anions and Nutrients							
Acidity (as CaCO3)	1.2	<DL	2.0	mg/L		17-NOV-20	R5287252
Alkalinity, Total (as CaCO3)	133		2.0	mg/L		14-NOV-20	R5285713
Ammonia, Total (as N)	0.008	<T	0.0050	mg/L		19-NOV-20	R5289379
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		20-NOV-20	
Chloride (Cl)	44.4		0.10	mg/L	13-NOV-20	14-NOV-20	R5285959
Fluoride (F)	0.054		0.020	mg/L	13-NOV-20	14-NOV-20	R5285959
Nitrate (as N)	0.010	<DL	0.020	mg/L		14-NOV-20	R5285959
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-NOV-20	R5285959
Total Kjeldahl Nitrogen	1.00		0.050	mg/L	15-NOV-20	18-NOV-20	R5287683
Orthophosphate-Dissolved (as P)	0.0039		0.0030	mg/L	13-NOV-20	17-NOV-20	R5286892
Sulfate (SO4)	8.45		0.30	mg/L		14-NOV-20	R5285959
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Total	<0.0002	<W	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Free	0.0020		0.0020	mg/L		17-NOV-20	R5287236
Organic / Inorganic Carbon							
Dissolved Organic Carbon	25.8	DLM	2.5	mg/L	13-NOV-20	20-NOV-20	R5295038
Total Organic Carbon	22.0	DLM	2.5	mg/L		20-NOV-20	R5294879
Total Metals							
Aluminum (Al)-Total	0.0988		0.0050	mg/L		18-NOV-20	R5288597
Antimony (Sb)-Total	0.000045	<DL	0.00060	mg/L		18-NOV-20	R5288597
Arsenic (As)-Total	0.00068	<DL	0.0010	mg/L		18-NOV-20	R5288597

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-9 SW20_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 14:30							
Matrix: SW							
Total Metals							
Barium (Ba)-Total	0.0182		0.010	mg/L		18-NOV-20	R5288597
Beryllium (Be)-Total	0.0000055	<DL	0.0010	mg/L		18-NOV-20	R5288597
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288597
Boron (B)-Total	0.0145	<DL	0.050	mg/L		18-NOV-20	R5288597
Cadmium (Cd)-Total	0.000004	<DL	0.000017	mg/L		18-NOV-20	R5288597
Calcium (Ca)-Total	38.4		0.20	mg/L		18-NOV-20	R5288597
Cesium (Cs)-Total	0.0000125		0.000010	mg/L		18-NOV-20	R5288597
Chromium (Cr)-Total	0.00034	<DL	0.0010	mg/L		18-NOV-20	R5288597
Cobalt (Co)-Total	0.000165	<DL	0.00050	mg/L		18-NOV-20	R5288597
Copper (Cu)-Total	0.00060	<DL	0.0010	mg/L		18-NOV-20	R5288597
Iron (Fe)-Total	0.344		0.020	mg/L		18-NOV-20	R5288597
Lead (Pb)-Total	0.00008	<T	0.000050	mg/L		18-NOV-20	R5288597
Lithium (Li)-Total	0.0064	<DL	0.050	mg/L		18-NOV-20	R5288597
Magnesium (Mg)-Total	17.0		0.020	mg/L		18-NOV-20	R5288597
Manganese (Mn)-Total	0.0512		0.0010	mg/L		18-NOV-20	R5288597
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287565
Molybdenum (Mo)-Total	0.000300	<DL	0.0010	mg/L		18-NOV-20	R5288597
Nickel (Ni)-Total	0.00124	<DL	0.0020	mg/L		18-NOV-20	R5288597
Phosphorus (P)-Total	0.020	<DL	0.050	mg/L		18-NOV-20	R5288597
Potassium (K)-Total	1.57		0.50	mg/L		18-NOV-20	R5288597
Rubidium (Rb)-Total	0.00159		0.00020	mg/L		18-NOV-20	R5288597
Selenium (Se)-Total	0.000090	<T	0.000050	mg/L		18-NOV-20	R5288597
Silicon (Si)-Total	5.26		0.10	mg/L		18-NOV-20	R5288597
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		18-NOV-20	R5288597
Sodium (Na)-Total	18.4		0.10	mg/L		18-NOV-20	R5288597
Strontium (Sr)-Total	0.104		0.0010	mg/L		18-NOV-20	R5288597
Sulfur (S)-Total	2.8		0.50	mg/L		18-NOV-20	R5288597
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		18-NOV-20	R5288597
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		18-NOV-20	R5288597
Thorium (Th)-Total	0.00003	<DL	0.00010	mg/L		18-NOV-20	R5288597
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		18-NOV-20	R5288597
Titanium (Ti)-Total	0.00325		0.0020	mg/L		18-NOV-20	R5288597
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		18-NOV-20	R5288597
Uranium (U)-Total	0.000787	<DL	0.0050	mg/L		18-NOV-20	R5288597
Vanadium (V)-Total	0.00055	<DL	0.0010	mg/L		18-NOV-20	R5288597
Zinc (Zn)-Total	0.0015	<DL	0.0030	mg/L		18-NOV-20	R5288597
Zirconium (Zr)-Total	0.000286	<DL	0.0010	mg/L		18-NOV-20	R5288597
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					18-NOV-20	R5287769
Aluminum (Al)-Dissolved	0.0132	<T	0.0050	mg/L		18-NOV-20	R5288640
Antimony (Sb)-Dissolved	0.000055	<DL	0.00060	mg/L		18-NOV-20	R5288640

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-9 SW20_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 14:30							
Matrix: SW							
Dissolved Metals							
Arsenic (As)-Dissolved	0.000648	<DL	0.0010	mg/L		18-NOV-20	R5288640
Barium (Ba)-Dissolved	0.0182		0.010	mg/L		18-NOV-20	R5288640
Beryllium (Be)-Dissolved	0.000002	<DL	0.0010	mg/L		18-NOV-20	R5288640
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Boron (B)-Dissolved	0.0125	<DL	0.050	mg/L		18-NOV-20	R5288640
Cadmium (Cd)-Dissolved	0.0000030	<DL	0.000017	mg/L		18-NOV-20	R5288640
Calcium (Ca)-Dissolved	38.1		0.20	mg/L		18-NOV-20	R5288640
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		18-NOV-20	R5288640
Chromium (Cr)-Dissolved	0.00025	<DL	0.0010	mg/L		18-NOV-20	R5288640
Cobalt (Co)-Dissolved	0.000144	<DL	0.00050	mg/L		18-NOV-20	R5288640
Copper (Cu)-Dissolved	0.00074	<DL	0.0010	mg/L		18-NOV-20	R5288640
Iron (Fe)-Dissolved	0.250		0.020	mg/L		18-NOV-20	R5288640
Lead (Pb)-Dissolved	0.00005	<T	0.000050	mg/L		18-NOV-20	R5288640
Lithium (Li)-Dissolved	0.0066	<DL	0.050	mg/L		18-NOV-20	R5288640
Magnesium (Mg)-Dissolved	16.2		0.020	mg/L		18-NOV-20	R5288640
Manganese (Mn)-Dissolved	0.0480		0.0010	mg/L		18-NOV-20	R5288640
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287568
Molybdenum (Mo)-Dissolved	0.000304	<DL	0.0010	mg/L		18-NOV-20	R5288640
Nickel (Ni)-Dissolved	0.00122	<DL	0.0020	mg/L		18-NOV-20	R5288640
Phosphorus (P)-Dissolved	0.015	<DL	0.050	mg/L		18-NOV-20	R5288640
Potassium (K)-Dissolved	1.62		0.50	mg/L		18-NOV-20	R5288640
Rubidium (Rb)-Dissolved	0.00145		0.00020	mg/L		18-NOV-20	R5288640
Selenium (Se)-Dissolved	0.000160	<T	0.000050	mg/L		18-NOV-20	R5288640
Silicon (Si)-Dissolved	4.97		0.050	mg/L		18-NOV-20	R5288640
Silver (Ag)-Dissolved	0.0000020	<DL	0.00010	mg/L		18-NOV-20	R5288640
Sodium (Na)-Dissolved	18.6		0.10	mg/L		18-NOV-20	R5288640
Strontium (Sr)-Dissolved	0.101		0.0010	mg/L		18-NOV-20	R5288640
Sulfur (S)-Dissolved	2.6		0.50	mg/L		18-NOV-20	R5288640
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288640
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		18-NOV-20	R5288640
Thorium (Th)-Dissolved	0.00002	<DL	0.00010	mg/L		18-NOV-20	R5288640
Tin (Sn)-Dissolved	0.000795	<DL	0.0010	mg/L		18-NOV-20	R5288640
Titanium (Ti)-Dissolved	0.00088	<DL	0.0020	mg/L		18-NOV-20	R5288640
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		18-NOV-20	R5288640
Uranium (U)-Dissolved	0.000736	<DL	0.0050	mg/L		18-NOV-20	R5288640
Vanadium (V)-Dissolved	0.00038	<DL	0.0010	mg/L		18-NOV-20	R5288640
Zinc (Zn)-Dissolved	0.0068	<T	0.0030	mg/L		18-NOV-20	R5288640
Zirconium (Zr)-Dissolved	0.000264	<DL	0.0010	mg/L		18-NOV-20	R5288640
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-NOV-20	R5289397
Chemical Oxygen Demand	65		20	mg/L	15-NOV-20	19-NOV-20	R5289044

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-9 SW20_SW_20201110 Sampled By: Client on 10-NOV-20 @ 14:30 Matrix: SW							
Aggregate Organics							
Oil and Grease, Total	0.6	<DL	1.0	mg/L	18-NOV-20	18-NOV-20	R5287891
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		04-DEC-20	R5308870
L2529177-10 SW21A_SW_2001110 Sampled By: Client on 10-NOV-20 @ 11:00 Matrix: SW							
Field Tests							
Dissolved Oxygen, Client Supplied	3.38		0	mg/L		17-NOV-20	R5286809
pH, Client Supplied	7.23		0.10	pH		17-NOV-20	R5286809
Temperature, Client Supplied	1.81		0	Degree C		17-NOV-20	R5286809
Physical Tests							
Color, True	39.8		2.0	CU		13-NOV-20	R5285334
Conductivity (EC)	442		1.0	uS/cm		14-NOV-20	R5285713
Hardness (as CaCO3)	204		0.51	mg/L		19-NOV-20	
pH	7.96		0.10	pH		14-NOV-20	R5285713
Total Suspended Solids	2.5	<DL	3.0	mg/L		16-NOV-20	R5286593
Total Dissolved Solids	268		20	mg/L		16-NOV-20	R5286672
Turbidity	2.65		0.10	NTU		13-NOV-20	R5285202
Anions and Nutrients							
Acidity (as CaCO3)	0.4	<DL	2.0	mg/L		17-NOV-20	R5287252
Alkalinity, Total (as CaCO3)	163		2.0	mg/L		14-NOV-20	R5285713
Ammonia, Total (as N)	0.006	<T	0.0050	mg/L		19-NOV-20	R5289379
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		20-NOV-20	
Chloride (Cl)	22.4		0.10	mg/L	13-NOV-20	14-NOV-20	R5285959
Fluoride (F)	0.075		0.020	mg/L	13-NOV-20	14-NOV-20	R5285959
Nitrate (as N)	0.012	<DL	0.020	mg/L		14-NOV-20	R5285959
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-NOV-20	R5285959
Total Kjeldahl Nitrogen	0.890		0.050	mg/L	15-NOV-20	18-NOV-20	R5287683
Orthophosphate-Dissolved (as P)	0.0086		0.0030	mg/L	13-NOV-20	17-NOV-20	R5286892
Sulfate (SO4)	41.9		0.30	mg/L		14-NOV-20	R5285959
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Total	0.0002	<DL	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Free	0.0003	<DL	0.0020	mg/L		17-NOV-20	R5287236
Organic / Inorganic Carbon							
Dissolved Organic Carbon	20.6	DLM	2.5	mg/L	13-NOV-20	20-NOV-20	R5295038
Total Organic Carbon	17.7	DLM	2.5	mg/L		20-NOV-20	R5294879
Total Metals							
Aluminum (Al)-Total	0.0914		0.0050	mg/L		18-NOV-20	R5288597
Antimony (Sb)-Total	0.000130	<DL	0.00060	mg/L		18-NOV-20	R5288597
Arsenic (As)-Total	0.00095	<DL	0.0010	mg/L		18-NOV-20	R5288597
Barium (Ba)-Total	0.0234		0.010	mg/L		18-NOV-20	R5288597

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-10 SW21A_SW_2001110							
Sampled By: Client on 10-NOV-20 @ 11:00							
Matrix: SW							
Total Metals							
Beryllium (Be)-Total	0.0000022	<DL	0.0010	mg/L		18-NOV-20	R5288597
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288597
Boron (B)-Total	0.0180	<DL	0.050	mg/L		18-NOV-20	R5288597
Cadmium (Cd)-Total	0.000005	<DL	0.000017	mg/L		18-NOV-20	R5288597
Calcium (Ca)-Total	46.2		0.20	mg/L		18-NOV-20	R5288597
Cesium (Cs)-Total	0.0000160		0.000010	mg/L		18-NOV-20	R5288597
Chromium (Cr)-Total	0.00034	<DL	0.0010	mg/L		18-NOV-20	R5288597
Cobalt (Co)-Total	0.000170	<DL	0.00050	mg/L		18-NOV-20	R5288597
Copper (Cu)-Total	0.00088	<DL	0.0010	mg/L		18-NOV-20	R5288597
Iron (Fe)-Total	0.292		0.020	mg/L		18-NOV-20	R5288597
Lead (Pb)-Total	0.00007	<T	0.000050	mg/L		18-NOV-20	R5288597
Lithium (Li)-Total	0.0092	<DL	0.050	mg/L		18-NOV-20	R5288597
Magnesium (Mg)-Total	22.5		0.020	mg/L		18-NOV-20	R5288597
Manganese (Mn)-Total	0.0430		0.0010	mg/L		18-NOV-20	R5288597
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287565
Molybdenum (Mo)-Total	0.00113	<T	0.0010	mg/L		18-NOV-20	R5288597
Nickel (Ni)-Total	0.00148	<DL	0.0020	mg/L		18-NOV-20	R5288597
Phosphorus (P)-Total	0.020	<DL	0.050	mg/L		18-NOV-20	R5288597
Potassium (K)-Total	3.05		0.50	mg/L		18-NOV-20	R5288597
Rubidium (Rb)-Total	0.00241		0.00020	mg/L		18-NOV-20	R5288597
Selenium (Se)-Total	0.000160	<T	0.000050	mg/L		18-NOV-20	R5288597
Silicon (Si)-Total	3.42		0.10	mg/L		18-NOV-20	R5288597
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		18-NOV-20	R5288597
Sodium (Na)-Total	11.6		0.10	mg/L		18-NOV-20	R5288597
Strontium (Sr)-Total	0.140		0.0010	mg/L		18-NOV-20	R5288597
Sulfur (S)-Total	14.0		0.50	mg/L		18-NOV-20	R5288597
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		18-NOV-20	R5288597
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		18-NOV-20	R5288597
Thorium (Th)-Total	0.00002	<DL	0.00010	mg/L		18-NOV-20	R5288597
Tin (Sn)-Total	0.00003	<DL	0.0010	mg/L		18-NOV-20	R5288597
Titanium (Ti)-Total	0.00317		0.0020	mg/L		18-NOV-20	R5288597
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		18-NOV-20	R5288597
Uranium (U)-Total	0.00101	<DL	0.0050	mg/L		18-NOV-20	R5288597
Vanadium (V)-Total	0.00065	<DL	0.0010	mg/L		18-NOV-20	R5288597
Zinc (Zn)-Total	0.0015	<DL	0.0030	mg/L		18-NOV-20	R5288597
Zirconium (Zr)-Total	0.000206	<DL	0.0010	mg/L		18-NOV-20	R5288597
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					18-NOV-20	R5287769
Aluminum (Al)-Dissolved	0.0068	<T	0.0050	mg/L		18-NOV-20	R5288640
Antimony (Sb)-Dissolved	0.000140	<DL	0.00060	mg/L		18-NOV-20	R5288640
Arsenic (As)-Dissolved	0.000854	<DL	0.0010	mg/L		18-NOV-20	R5288640

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-10 SW21A_SW_2001110							
Sampled By: Client on 10-NOV-20 @ 11:00							
Matrix: SW							
Dissolved Metals							
Barium (Ba)-Dissolved	0.0230		0.010	mg/L		18-NOV-20	R5288640
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Boron (B)-Dissolved	0.0165	<DL	0.050	mg/L		18-NOV-20	R5288640
Cadmium (Cd)-Dissolved	0.0000040	<DL	0.000017	mg/L		18-NOV-20	R5288640
Calcium (Ca)-Dissolved	46.1		0.20	mg/L		18-NOV-20	R5288640
Cesium (Cs)-Dissolved	0.0000020	<DL	0.000010	mg/L		18-NOV-20	R5288640
Chromium (Cr)-Dissolved	0.00011	<DL	0.0010	mg/L		18-NOV-20	R5288640
Cobalt (Co)-Dissolved	0.000114	<DL	0.00050	mg/L		18-NOV-20	R5288640
Copper (Cu)-Dissolved	0.00080	<DL	0.0010	mg/L		18-NOV-20	R5288640
Iron (Fe)-Dissolved	0.117		0.020	mg/L		18-NOV-20	R5288640
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		18-NOV-20	R5288640
Lithium (Li)-Dissolved	0.0094	<DL	0.050	mg/L		18-NOV-20	R5288640
Magnesium (Mg)-Dissolved	21.6		0.020	mg/L		18-NOV-20	R5288640
Manganese (Mn)-Dissolved	0.0368		0.0010	mg/L		18-NOV-20	R5288640
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287568
Molybdenum (Mo)-Dissolved	0.00110	<T	0.0010	mg/L		18-NOV-20	R5288640
Nickel (Ni)-Dissolved	0.00124	<DL	0.0020	mg/L		18-NOV-20	R5288640
Phosphorus (P)-Dissolved	0.015	<DL	0.050	mg/L		18-NOV-20	R5288640
Potassium (K)-Dissolved	2.91		0.50	mg/L		18-NOV-20	R5288640
Rubidium (Rb)-Dissolved	0.00226		0.00020	mg/L		18-NOV-20	R5288640
Selenium (Se)-Dissolved	0.000130	<T	0.000050	mg/L		18-NOV-20	R5288640
Silicon (Si)-Dissolved	3.22		0.050	mg/L		18-NOV-20	R5288640
Silver (Ag)-Dissolved	0.0000030	<DL	0.00010	mg/L		18-NOV-20	R5288640
Sodium (Na)-Dissolved	11.5		0.10	mg/L		18-NOV-20	R5288640
Strontium (Sr)-Dissolved	0.137		0.0010	mg/L		18-NOV-20	R5288640
Sulfur (S)-Dissolved	13.4		0.50	mg/L		18-NOV-20	R5288640
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288640
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		18-NOV-20	R5288640
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		18-NOV-20	R5288640
Tin (Sn)-Dissolved	0.000050	<DL	0.0010	mg/L		18-NOV-20	R5288640
Titanium (Ti)-Dissolved	0.00042	<DL	0.0020	mg/L		18-NOV-20	R5288640
Tungsten (W)-Dissolved	0.000004	<DL	0.010	mg/L		18-NOV-20	R5288640
Uranium (U)-Dissolved	0.000985	<DL	0.0050	mg/L		18-NOV-20	R5288640
Vanadium (V)-Dissolved	0.00044	<DL	0.0010	mg/L		18-NOV-20	R5288640
Zinc (Zn)-Dissolved	0.0012	<DL	0.0030	mg/L		18-NOV-20	R5288640
Zirconium (Zr)-Dissolved	0.000184	<DL	0.0010	mg/L		18-NOV-20	R5288640
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-NOV-20	R5289397
Chemical Oxygen Demand	56		20	mg/L	15-NOV-20	20-NOV-20	R5291639
Oil and Grease, Total	1.0		1.0	mg/L	18-NOV-20	18-NOV-20	R5287891

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-11 SW22A_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 11:40							
Matrix: SW							
Field Tests							
Dissolved Oxygen, Client Supplied	6.03		0	mg/L		17-NOV-20	R5286809
pH, Client Supplied	7.46		0.10	pH		17-NOV-20	R5286809
Temperature, Client Supplied	1.43		0	Degree C		17-NOV-20	R5286809
Physical Tests							
Color, True	25.7		2.0	CU		13-NOV-20	R5285334
Conductivity (EC)	936		1.0	uS/cm		14-NOV-20	R5285713
Hardness (as CaCO3)	330		0.51	mg/L		19-NOV-20	
pH	7.95		0.10	pH		14-NOV-20	R5285713
Total Suspended Solids	0.5	<DL	3.0	mg/L		16-NOV-20	R5286593
Total Dissolved Solids	624		20	mg/L		16-NOV-20	R5286672
Turbidity	1.38		0.10	NTU		13-NOV-20	R5285202
Anions and Nutrients							
Acidity (as CaCO3)	1.6	<DL	2.0	mg/L		17-NOV-20	R5287252
Alkalinity, Total (as CaCO3)	152		2.0	mg/L		14-NOV-20	R5285713
Ammonia, Total (as N)	0.010	<T	0.0050	mg/L		19-NOV-20	R5289379
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		20-NOV-20	
Chloride (Cl)	27.3		0.10	mg/L	13-NOV-20	14-NOV-20	R5285959
Fluoride (F)	0.128		0.020	mg/L	13-NOV-20	14-NOV-20	R5285959
Nitrate (as N)	2.17		0.020	mg/L		14-NOV-20	R5285959
Nitrite (as N)	0.130	<T	0.010	mg/L		14-NOV-20	R5285959
Total Kjeldahl Nitrogen	1.30		0.050	mg/L	15-NOV-20	18-NOV-20	R5287683
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	13-NOV-20	17-NOV-20	R5286892
Sulfate (SO4)	345		0.30	mg/L		14-NOV-20	R5285959
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Total	0.0002	<DL	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Free	0.0008	<DL	0.0020	mg/L		17-NOV-20	R5287236
Organic / Inorganic Carbon							
Dissolved Organic Carbon	14.0		0.50	mg/L	13-NOV-20	20-NOV-20	R5295038
Total Organic Carbon	15.2		0.50	mg/L		20-NOV-20	R5294879
Total Metals							
Aluminum (Al)-Total	0.0498		0.0050	mg/L		18-NOV-20	R5288597
Antimony (Sb)-Total	0.00858		0.00060	mg/L		18-NOV-20	R5288597
Arsenic (As)-Total	0.00132	<T	0.0010	mg/L		18-NOV-20	R5288597
Barium (Ba)-Total	0.0402		0.010	mg/L		18-NOV-20	R5288597
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		18-NOV-20	R5288597
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288597
Boron (B)-Total	0.0640		0.050	mg/L		18-NOV-20	R5288597
Cadmium (Cd)-Total	0.000011	<DL	0.000017	mg/L		18-NOV-20	R5288597
Calcium (Ca)-Total	94.9		0.20	mg/L		18-NOV-20	R5288597
Cesium (Cs)-Total	0.000221		0.000010	mg/L		18-NOV-20	R5288597
Chromium (Cr)-Total	0.00020	<DL	0.0010	mg/L		18-NOV-20	R5288597

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-11 SW22A_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 11:40							
Matrix: SW							
Total Metals							
Cobalt (Co)-Total	0.000840	<T	0.00050	mg/L		18-NOV-20	R5288597
Copper (Cu)-Total	0.00368	<T	0.0010	mg/L		18-NOV-20	R5288597
Iron (Fe)-Total	0.141		0.020	mg/L		18-NOV-20	R5288597
Lead (Pb)-Total	0.00010	<T	0.000050	mg/L		18-NOV-20	R5288597
Lithium (Li)-Total	0.0118	<DL	0.050	mg/L		18-NOV-20	R5288597
Magnesium (Mg)-Total	23.5		0.020	mg/L		18-NOV-20	R5288597
Manganese (Mn)-Total	0.0176		0.0010	mg/L		18-NOV-20	R5288597
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287565
Molybdenum (Mo)-Total	0.00593	<T	0.0010	mg/L		18-NOV-20	R5288597
Nickel (Ni)-Total	0.00156	<DL	0.0020	mg/L		18-NOV-20	R5288597
Phosphorus (P)-Total	0.020	<DL	0.050	mg/L		18-NOV-20	R5288597
Potassium (K)-Total	26.7		0.50	mg/L		18-NOV-20	R5288597
Rubidium (Rb)-Total	0.0143		0.00020	mg/L		18-NOV-20	R5288597
Selenium (Se)-Total	0.000195	<T	0.000050	mg/L		18-NOV-20	R5288597
Silicon (Si)-Total	2.50		0.10	mg/L		18-NOV-20	R5288597
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		18-NOV-20	R5288597
Sodium (Na)-Total	57.4		0.10	mg/L		18-NOV-20	R5288597
Strontium (Sr)-Total	0.337		0.0010	mg/L		18-NOV-20	R5288597
Sulfur (S)-Total	102		0.50	mg/L		18-NOV-20	R5288597
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		18-NOV-20	R5288597
Thallium (Tl)-Total	0.000010	<DL	0.00030	mg/L		18-NOV-20	R5288597
Thorium (Th)-Total	0.00002	<DL	0.00010	mg/L		18-NOV-20	R5288597
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		18-NOV-20	R5288597
Titanium (Ti)-Total	0.00211		0.0020	mg/L		18-NOV-20	R5288597
Tungsten (W)-Total	0.00007	<DL	0.010	mg/L		18-NOV-20	R5288597
Uranium (U)-Total	0.00182	<DL	0.0050	mg/L		18-NOV-20	R5288597
Vanadium (V)-Total	0.00050	<DL	0.0010	mg/L		18-NOV-20	R5288597
Zinc (Zn)-Total	0.0015	<DL	0.0030	mg/L		18-NOV-20	R5288597
Zirconium (Zr)-Total	0.000158	<DL	0.0010	mg/L		18-NOV-20	R5288597
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					18-NOV-20	R5287769
Aluminum (Al)-Dissolved	0.0064	<T	0.0050	mg/L		18-NOV-20	R5288640
Antimony (Sb)-Dissolved	0.00846		0.00060	mg/L		18-NOV-20	R5288640
Arsenic (As)-Dissolved	0.00125	<T	0.0010	mg/L		18-NOV-20	R5288640
Barium (Ba)-Dissolved	0.0409		0.010	mg/L		18-NOV-20	R5288640
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Boron (B)-Dissolved	0.0575		0.050	mg/L		18-NOV-20	R5288640
Cadmium (Cd)-Dissolved	0.0000080	<DL	0.000017	mg/L		18-NOV-20	R5288640
Calcium (Ca)-Dissolved	93.4		0.20	mg/L		18-NOV-20	R5288640
Cesium (Cs)-Dissolved	0.000214		0.000010	mg/L		18-NOV-20	R5288640

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-11 SW22A_SW_20201110 Sampled By: Client on 10-NOV-20 @ 11:40 Matrix: SW							
Dissolved Metals							
Chromium (Cr)-Dissolved	0.00011	<DL	0.0010	mg/L		18-NOV-20	R5288640
Cobalt (Co)-Dissolved	0.000766	<T	0.00050	mg/L		18-NOV-20	R5288640
Copper (Cu)-Dissolved	0.00354	<T	0.0010	mg/L		18-NOV-20	R5288640
Iron (Fe)-Dissolved	0.0610		0.020	mg/L		18-NOV-20	R5288640
Lead (Pb)-Dissolved	0.00004	<DL	0.000050	mg/L		18-NOV-20	R5288640
Lithium (Li)-Dissolved	0.0116	<DL	0.050	mg/L		18-NOV-20	R5288640
Magnesium (Mg)-Dissolved	23.5		0.020	mg/L		18-NOV-20	R5288640
Manganese (Mn)-Dissolved	0.0158		0.0010	mg/L		18-NOV-20	R5288640
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287568
Molybdenum (Mo)-Dissolved	0.00588	<T	0.0010	mg/L		18-NOV-20	R5288640
Nickel (Ni)-Dissolved	0.00154	<DL	0.0020	mg/L		18-NOV-20	R5288640
Phosphorus (P)-Dissolved	0.010	<DL	0.050	mg/L		18-NOV-20	R5288640
Potassium (K)-Dissolved	26.5		0.50	mg/L		18-NOV-20	R5288640
Rubidium (Rb)-Dissolved	0.0141		0.00020	mg/L		18-NOV-20	R5288640
Selenium (Se)-Dissolved	0.000225	<T	0.000050	mg/L		18-NOV-20	R5288640
Silicon (Si)-Dissolved	2.30		0.050	mg/L		18-NOV-20	R5288640
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		18-NOV-20	R5288640
Sodium (Na)-Dissolved	55.7		0.10	mg/L		18-NOV-20	R5288640
Strontium (Sr)-Dissolved	0.331		0.0010	mg/L		18-NOV-20	R5288640
Sulfur (S)-Dissolved	102		0.50	mg/L		18-NOV-20	R5288640
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288640
Thallium (Tl)-Dissolved	0.000010	<DL	0.00030	mg/L		18-NOV-20	R5288640
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		18-NOV-20	R5288640
Tin (Sn)-Dissolved	0.000075	<DL	0.0010	mg/L		18-NOV-20	R5288640
Titanium (Ti)-Dissolved	0.00038	<DL	0.0020	mg/L		18-NOV-20	R5288640
Tungsten (W)-Dissolved	0.000050	<DL	0.010	mg/L		18-NOV-20	R5288640
Uranium (U)-Dissolved	0.00170	<DL	0.0050	mg/L		18-NOV-20	R5288640
Vanadium (V)-Dissolved	0.00032	<DL	0.0010	mg/L		18-NOV-20	R5288640
Zinc (Zn)-Dissolved	0.0024	<DL	0.0030	mg/L		18-NOV-20	R5288640
Zirconium (Zr)-Dissolved	0.000142	<DL	0.0010	mg/L		18-NOV-20	R5288640
Aggregate Organics							
Biochemical Oxygen Demand	3.0		2.0	mg/L		14-NOV-20	R5289397
Chemical Oxygen Demand	52		20	mg/L	15-NOV-20	20-NOV-20	R5291639
Oil and Grease, Total	0.8	<DL	1.0	mg/L	18-NOV-20	18-NOV-20	R5287891
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		04-DEC-20	R5308870
L2529177-12 SW23_SW_20201110 Sampled By: Client on 10-NOV-20 @ 09:50 Matrix: SW							
Field Tests							
Dissolved Oxygen, Client Supplied	0		0	mg/L		17-NOV-20	R5286809
pH, Client Supplied	6.87		0.10	pH		17-NOV-20	R5286809

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-12 SW23_SW_20201110 Sampled By: Client on 10-NOV-20 @ 09:50 Matrix: SW							
Field Tests							
Temperature, Client Supplied	2.69		0	Degree C		17-NOV-20	R5286809
Physical Tests							
Color, True	118		2.0	CU		13-NOV-20	R5285334
Conductivity (EC)	590		1.0	uS/cm		14-NOV-20	R5285713
Hardness (as CaCO3)	225		0.51	mg/L		19-NOV-20	
pH	7.91		0.10	pH		14-NOV-20	R5285713
Total Suspended Solids	6.5		3.0	mg/L		16-NOV-20	R5286593
Total Dissolved Solids	408		20	mg/L		16-NOV-20	R5286672
Turbidity	6.53		0.10	NTU		13-NOV-20	R5285202
Anions and Nutrients							
Acidity (as CaCO3)	2.0		2.0	mg/L		17-NOV-20	R5287252
Alkalinity, Total (as CaCO3)	131		2.0	mg/L		14-NOV-20	R5285713
Ammonia, Total (as N)	0.008	<T	0.0050	mg/L		19-NOV-20	R5289379
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		20-NOV-20	
Chloride (Cl)	16.5		0.10	mg/L	13-NOV-20	14-NOV-20	R5285959
Fluoride (F)	0.086		0.020	mg/L	13-NOV-20	14-NOV-20	R5285959
Nitrate (as N)	0.884		0.020	mg/L		14-NOV-20	R5285959
Nitrite (as N)	0.017	<T	0.010	mg/L		14-NOV-20	R5285959
Total Kjeldahl Nitrogen	1.12		0.050	mg/L	15-NOV-20	18-NOV-20	R5287683
Orthophosphate-Dissolved (as P)	0.0045		0.0030	mg/L	13-NOV-20	17-NOV-20	R5286892
Sulfate (SO4)	169		0.30	mg/L		14-NOV-20	R5285959
Cyanides							
Cyanide, Weak Acid Diss	0.0003	<DL	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Total	<0.0002	<W	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Free	<0.0001	<W	0.0020	mg/L		17-NOV-20	R5287236
Organic / Inorganic Carbon							
Dissolved Organic Carbon	24.7		0.50	mg/L	13-NOV-20	20-NOV-20	R5295038
Total Organic Carbon	27.6	DLM	2.5	mg/L		20-NOV-20	R5294879
Total Metals							
Aluminum (Al)-Total	0.328		0.0050	mg/L		18-NOV-20	R5288597
Antimony (Sb)-Total	0.00469	<T	0.00060	mg/L		18-NOV-20	R5288597
Arsenic (As)-Total	0.00120	<T	0.0010	mg/L		18-NOV-20	R5288597
Barium (Ba)-Total	0.0350		0.010	mg/L		18-NOV-20	R5288597
Beryllium (Be)-Total	0.0000088	<DL	0.0010	mg/L		18-NOV-20	R5288597
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288597
Boron (B)-Total	0.0370	<DL	0.050	mg/L		18-NOV-20	R5288597
Cadmium (Cd)-Total	0.000012	<DL	0.000017	mg/L		18-NOV-20	R5288597
Calcium (Ca)-Total	61.4		0.20	mg/L		18-NOV-20	R5288597
Cesium (Cs)-Total	0.0000560		0.000010	mg/L		18-NOV-20	R5288597
Chromium (Cr)-Total	0.00074	<DL	0.0010	mg/L		18-NOV-20	R5288597
Cobalt (Co)-Total	0.000610	<T	0.00050	mg/L		18-NOV-20	R5288597
Copper (Cu)-Total	0.00192	<T	0.0010	mg/L		18-NOV-20	R5288597

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-12 SW23_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 09:50							
Matrix: SW							
Total Metals							
Iron (Fe)-Total	0.657		0.020	mg/L		18-NOV-20	R5288597
Lead (Pb)-Total	0.00025	<T	0.000050	mg/L		18-NOV-20	R5288597
Lithium (Li)-Total	0.0082	<DL	0.050	mg/L		18-NOV-20	R5288597
Magnesium (Mg)-Total	18.6		0.020	mg/L		18-NOV-20	R5288597
Manganese (Mn)-Total	0.0650		0.0010	mg/L		18-NOV-20	R5288597
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287565
Molybdenum (Mo)-Total	0.00300	<T	0.0010	mg/L		18-NOV-20	R5288597
Nickel (Ni)-Total	0.00184	<DL	0.0020	mg/L		18-NOV-20	R5288597
Phosphorus (P)-Total	0.030	<DL	0.050	mg/L		18-NOV-20	R5288597
Potassium (K)-Total	13.2		0.50	mg/L		18-NOV-20	R5288597
Rubidium (Rb)-Total	0.00709		0.00020	mg/L		18-NOV-20	R5288597
Selenium (Se)-Total	0.000185	<T	0.000050	mg/L		18-NOV-20	R5288597
Silicon (Si)-Total	3.87		0.10	mg/L		18-NOV-20	R5288597
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		18-NOV-20	R5288597
Sodium (Na)-Total	29.5		0.10	mg/L		18-NOV-20	R5288597
Strontium (Sr)-Total	0.190		0.0010	mg/L		18-NOV-20	R5288597
Sulfur (S)-Total	51.0		0.50	mg/L		18-NOV-20	R5288597
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		18-NOV-20	R5288597
Thallium (Tl)-Total	0.000005	<DL	0.00030	mg/L		18-NOV-20	R5288597
Thorium (Th)-Total	0.00008	<DL	0.00010	mg/L		18-NOV-20	R5288597
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		18-NOV-20	R5288597
Titanium (Ti)-Total	0.0114		0.0020	mg/L		18-NOV-20	R5288597
Tungsten (W)-Total	0.00002	<DL	0.010	mg/L		18-NOV-20	R5288597
Uranium (U)-Total	0.00129	<DL	0.0050	mg/L		18-NOV-20	R5288597
Vanadium (V)-Total	0.00135	<T	0.0010	mg/L		18-NOV-20	R5288597
Zinc (Zn)-Total	0.0025	<DL	0.0030	mg/L		18-NOV-20	R5288597
Zirconium (Zr)-Total	0.000480	<DL	0.0010	mg/L		18-NOV-20	R5288597
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					18-NOV-20	R5287769
Aluminum (Al)-Dissolved	0.0454		0.0050	mg/L		18-NOV-20	R5288640
Antimony (Sb)-Dissolved	0.00467	<T	0.00060	mg/L		18-NOV-20	R5288640
Arsenic (As)-Dissolved	0.00102	<T	0.0010	mg/L		18-NOV-20	R5288640
Barium (Ba)-Dissolved	0.0318		0.010	mg/L		18-NOV-20	R5288640
Beryllium (Be)-Dissolved	0.000008	<DL	0.0010	mg/L		18-NOV-20	R5288640
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Boron (B)-Dissolved	0.0330	<DL	0.050	mg/L		18-NOV-20	R5288640
Cadmium (Cd)-Dissolved	0.0000060	<DL	0.000017	mg/L		18-NOV-20	R5288640
Calcium (Ca)-Dissolved	60.0		0.20	mg/L		18-NOV-20	R5288640
Cesium (Cs)-Dissolved	0.0000185		0.000010	mg/L		18-NOV-20	R5288640
Chromium (Cr)-Dissolved	0.00026	<DL	0.0010	mg/L		18-NOV-20	R5288640
Cobalt (Co)-Dissolved	0.000452	<DL	0.00050	mg/L		18-NOV-20	R5288640

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-12 SW23_SW_20201110 Sampled By: Client on 10-NOV-20 @ 09:50 Matrix: SW							
Dissolved Metals							
Copper (Cu)-Dissolved	0.00162	<T	0.0010	mg/L		18-NOV-20	R5288640
Iron (Fe)-Dissolved	0.319		0.020	mg/L		18-NOV-20	R5288640
Lead (Pb)-Dissolved	0.00010	<T	0.000050	mg/L		18-NOV-20	R5288640
Lithium (Li)-Dissolved	0.0076	<DL	0.050	mg/L		18-NOV-20	R5288640
Magnesium (Mg)-Dissolved	18.3		0.020	mg/L		18-NOV-20	R5288640
Manganese (Mn)-Dissolved	0.0493		0.0010	mg/L		18-NOV-20	R5288640
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287568
Molybdenum (Mo)-Dissolved	0.00287	<T	0.0010	mg/L		18-NOV-20	R5288640
Nickel (Ni)-Dissolved	0.00140	<DL	0.0020	mg/L		18-NOV-20	R5288640
Phosphorus (P)-Dissolved	0.005	<DL	0.050	mg/L		18-NOV-20	R5288640
Potassium (K)-Dissolved	13.1		0.50	mg/L		18-NOV-20	R5288640
Rubidium (Rb)-Dissolved	0.00636		0.00020	mg/L		18-NOV-20	R5288640
Selenium (Se)-Dissolved	0.000120	<T	0.000050	mg/L		18-NOV-20	R5288640
Silicon (Si)-Dissolved	3.16		0.050	mg/L		18-NOV-20	R5288640
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		18-NOV-20	R5288640
Sodium (Na)-Dissolved	28.8		0.10	mg/L		18-NOV-20	R5288640
Strontium (Sr)-Dissolved	0.183		0.0010	mg/L		18-NOV-20	R5288640
Sulfur (S)-Dissolved	51.2		0.50	mg/L		18-NOV-20	R5288640
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288640
Thallium (Tl)-Dissolved	0.000004	<DL	0.00030	mg/L		18-NOV-20	R5288640
Thorium (Th)-Dissolved	0.00003	<DL	0.00010	mg/L		18-NOV-20	R5288640
Tin (Sn)-Dissolved	0.000060	<DL	0.0010	mg/L		18-NOV-20	R5288640
Titanium (Ti)-Dissolved	0.00158	<DL	0.0020	mg/L		18-NOV-20	R5288640
Tungsten (W)-Dissolved	0.000018	<DL	0.010	mg/L		18-NOV-20	R5288640
Uranium (U)-Dissolved	0.00117	<DL	0.0050	mg/L		18-NOV-20	R5288640
Vanadium (V)-Dissolved	0.00052	<DL	0.0010	mg/L		18-NOV-20	R5288640
Zinc (Zn)-Dissolved	0.0020	<DL	0.0030	mg/L		18-NOV-20	R5288640
Zirconium (Zr)-Dissolved	0.000304	<DL	0.0010	mg/L		18-NOV-20	R5288640
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-NOV-20	R5289397
Chemical Oxygen Demand	79		20	mg/L	15-NOV-20	20-NOV-20	R5291639
Oil and Grease, Total	1.2		1.0	mg/L	18-NOV-20	18-NOV-20	R5287891
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		04-DEC-20	R5308870
L2529177-13 SW24_SW_20201110 Sampled By: Client on 10-NOV-20 @ 09:35 Matrix: SW							
Field Tests							
Dissolved Oxygen, Client Supplied	1.97		0	mg/L		17-NOV-20	R5286809
pH, Client Supplied	6.32		0.10	pH		17-NOV-20	R5286809
Temperature, Client Supplied	4.15		0	Degree C		17-NOV-20	R5286809
Physical Tests							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-13 SW24_SW_20201110 Sampled By: Client on 10-NOV-20 @ 09:35 Matrix: SW							
Physical Tests							
Color, True	103		2.0	CU		13-NOV-20	R5285334
Conductivity (EC)	869		1.0	uS/cm		14-NOV-20	R5285713
Hardness (as CaCO3)	296		0.51	mg/L		19-NOV-20	
pH	7.89		0.10	pH		14-NOV-20	R5285713
Total Suspended Solids	6.5		3.0	mg/L		16-NOV-20	R5286593
Total Dissolved Solids	608		20	mg/L		16-NOV-20	R5286672
Turbidity	3.34		0.10	NTU		13-NOV-20	R5285202
Anions and Nutrients							
Acidity (as CaCO3)	2.2		2.0	mg/L		17-NOV-20	R5287252
Alkalinity, Total (as CaCO3)	127		2.0	mg/L		14-NOV-20	R5285713
Ammonia, Total (as N)	0.014	<T	0.0050	mg/L		19-NOV-20	R5289379
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		20-NOV-20	
Chloride (Cl)	19.4		0.10	mg/L	13-NOV-20	14-NOV-20	R5285959
Fluoride (F)	0.107		0.020	mg/L	13-NOV-20	14-NOV-20	R5285959
Nitrate (as N)	2.04		0.020	mg/L		14-NOV-20	R5285959
Nitrite (as N)	0.086	<T	0.010	mg/L		14-NOV-20	R5285959
Total Kjeldahl Nitrogen	1.18		0.050	mg/L	15-NOV-20	18-NOV-20	R5287683
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	13-NOV-20	17-NOV-20	R5286892
Sulfate (SO4)	312		0.30	mg/L		14-NOV-20	R5285959
Cyanides							
Cyanide, Weak Acid Diss	0.0008	<DL	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Total	0.0004	<DL	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Free	0.0006	<DL	0.0020	mg/L		17-NOV-20	R5287236
Organic / Inorganic Carbon							
Dissolved Organic Carbon	23.0		0.50	mg/L	13-NOV-20	20-NOV-20	R5295038
Total Organic Carbon	24.8	DLM	2.5	mg/L		20-NOV-20	R5294879
Total Metals							
Aluminum (Al)-Total	0.218		0.0050	mg/L		18-NOV-20	R5288597
Antimony (Sb)-Total	0.00900		0.00060	mg/L		18-NOV-20	R5288597
Arsenic (As)-Total	0.00142	<T	0.0010	mg/L		18-NOV-20	R5288597
Barium (Ba)-Total	0.0418		0.010	mg/L		18-NOV-20	R5288597
Beryllium (Be)-Total	0.0000055	<DL	0.0010	mg/L		18-NOV-20	R5288597
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288597
Boron (B)-Total	0.0625		0.050	mg/L		18-NOV-20	R5288597
Cadmium (Cd)-Total	0.000014	<DL	0.000017	mg/L		18-NOV-20	R5288597
Calcium (Ca)-Total	87.3		0.20	mg/L		18-NOV-20	R5288597
Cesium (Cs)-Total	0.000177		0.000010	mg/L		18-NOV-20	R5288597
Chromium (Cr)-Total	0.00140		0.0010	mg/L		18-NOV-20	R5288597
Cobalt (Co)-Total	0.000930	<T	0.00050	mg/L		18-NOV-20	R5288597
Copper (Cu)-Total	0.00372	<T	0.0010	mg/L		18-NOV-20	R5288597
Iron (Fe)-Total	0.453		0.020	mg/L		18-NOV-20	R5288597
Lead (Pb)-Total	0.00023	<T	0.000050	mg/L		18-NOV-20	R5288597

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-13 SW24_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 09:35							
Matrix: SW							
Total Metals							
Lithium (Li)-Total	0.0100	<DL	0.050	mg/L		18-NOV-20	R5288597
Magnesium (Mg)-Total	20.4		0.020	mg/L		18-NOV-20	R5288597
Manganese (Mn)-Total	0.0468		0.0010	mg/L		18-NOV-20	R5288597
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287565
Molybdenum (Mo)-Total	0.00559	<T	0.0010	mg/L		18-NOV-20	R5288597
Nickel (Ni)-Total	0.00186	<DL	0.0020	mg/L		18-NOV-20	R5288597
Phosphorus (P)-Total	0.020	<DL	0.050	mg/L		18-NOV-20	R5288597
Potassium (K)-Total	26.2		0.50	mg/L		18-NOV-20	R5288597
Rubidium (Rb)-Total	0.0134		0.00020	mg/L		18-NOV-20	R5288597
Selenium (Se)-Total	0.000260	<T	0.000050	mg/L		18-NOV-20	R5288597
Silicon (Si)-Total	3.05		0.10	mg/L		18-NOV-20	R5288597
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		18-NOV-20	R5288597
Sodium (Na)-Total	54.8		0.10	mg/L		18-NOV-20	R5288597
Strontium (Sr)-Total	0.307		0.0010	mg/L		18-NOV-20	R5288597
Sulfur (S)-Total	101		0.50	mg/L		18-NOV-20	R5288597
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		18-NOV-20	R5288597
Thallium (Tl)-Total	0.000010	<DL	0.00030	mg/L		18-NOV-20	R5288597
Thorium (Th)-Total	0.00006	<DL	0.00010	mg/L		18-NOV-20	R5288597
Tin (Sn)-Total	0.00008	<DL	0.0010	mg/L		18-NOV-20	R5288597
Titanium (Ti)-Total	0.00762		0.0020	mg/L		18-NOV-20	R5288597
Tungsten (W)-Total	0.00006	<DL	0.010	mg/L		18-NOV-20	R5288597
Uranium (U)-Total	0.00166	<DL	0.0050	mg/L		18-NOV-20	R5288597
Vanadium (V)-Total	0.00095	<DL	0.0010	mg/L		18-NOV-20	R5288597
Zinc (Zn)-Total	0.0025	<DL	0.0030	mg/L		18-NOV-20	R5288597
Zirconium (Zr)-Total	0.000344	<DL	0.0010	mg/L		18-NOV-20	R5288597
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					18-NOV-20	R5287769
Aluminum (Al)-Dissolved	0.0452		0.0050	mg/L		18-NOV-20	R5288640
Antimony (Sb)-Dissolved	0.00879		0.00060	mg/L		18-NOV-20	R5288640
Arsenic (As)-Dissolved	0.00121	<T	0.0010	mg/L		18-NOV-20	R5288640
Barium (Ba)-Dissolved	0.0418		0.010	mg/L		18-NOV-20	R5288640
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Boron (B)-Dissolved	0.0555		0.050	mg/L		18-NOV-20	R5288640
Cadmium (Cd)-Dissolved	0.0000100	<DL	0.000017	mg/L		18-NOV-20	R5288640
Calcium (Ca)-Dissolved	85.9		0.20	mg/L		18-NOV-20	R5288640
Cesium (Cs)-Dissolved	0.000144		0.000010	mg/L		18-NOV-20	R5288640
Chromium (Cr)-Dissolved	0.00014	<DL	0.0010	mg/L		18-NOV-20	R5288640
Cobalt (Co)-Dissolved	0.000748	<T	0.00050	mg/L		18-NOV-20	R5288640
Copper (Cu)-Dissolved	0.00308	<T	0.0010	mg/L		18-NOV-20	R5288640
Iron (Fe)-Dissolved	0.245		0.020	mg/L		18-NOV-20	R5288640

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-13 SW24_SW_20201110 Sampled By: Client on 10-NOV-20 @ 09:35 Matrix: SW							
Dissolved Metals							
Lead (Pb)-Dissolved	0.00010	<T	0.000050	mg/L		18-NOV-20	R5288640
Lithium (Li)-Dissolved	0.0096	<DL	0.050	mg/L		18-NOV-20	R5288640
Magnesium (Mg)-Dissolved	19.7		0.020	mg/L		18-NOV-20	R5288640
Manganese (Mn)-Dissolved	0.0354		0.0010	mg/L		18-NOV-20	R5288640
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287568
Molybdenum (Mo)-Dissolved	0.00544	<T	0.0010	mg/L		18-NOV-20	R5288640
Nickel (Ni)-Dissolved	0.00144	<DL	0.0020	mg/L		18-NOV-20	R5288640
Phosphorus (P)-Dissolved	0.010	<DL	0.050	mg/L		18-NOV-20	R5288640
Potassium (K)-Dissolved	26.0		0.50	mg/L		18-NOV-20	R5288640
Rubidium (Rb)-Dissolved	0.0130		0.00020	mg/L		18-NOV-20	R5288640
Selenium (Se)-Dissolved	0.000310	<T	0.000050	mg/L		18-NOV-20	R5288640
Silicon (Si)-Dissolved	2.58		0.050	mg/L		18-NOV-20	R5288640
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		18-NOV-20	R5288640
Sodium (Na)-Dissolved	52.0		0.10	mg/L		18-NOV-20	R5288640
Strontium (Sr)-Dissolved	0.300		0.0010	mg/L		18-NOV-20	R5288640
Sulfur (S)-Dissolved	96.6		0.50	mg/L		18-NOV-20	R5288640
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288640
Thallium (Tl)-Dissolved	0.000008	<DL	0.00030	mg/L		18-NOV-20	R5288640
Thorium (Th)-Dissolved	0.00003	<DL	0.00010	mg/L		18-NOV-20	R5288640
Tin (Sn)-Dissolved	0.000035	<DL	0.0010	mg/L		18-NOV-20	R5288640
Titanium (Ti)-Dissolved	0.00146	<DL	0.0020	mg/L		18-NOV-20	R5288640
Tungsten (W)-Dissolved	0.000046	<DL	0.010	mg/L		18-NOV-20	R5288640
Uranium (U)-Dissolved	0.00155	<DL	0.0050	mg/L		18-NOV-20	R5288640
Vanadium (V)-Dissolved	0.00044	<DL	0.0010	mg/L		18-NOV-20	R5288640
Zinc (Zn)-Dissolved	0.0014	<DL	0.0030	mg/L		18-NOV-20	R5288640
Zirconium (Zr)-Dissolved	0.000236	<DL	0.0010	mg/L		18-NOV-20	R5288640
Aggregate Organics							
Biochemical Oxygen Demand	2.3		2.0	mg/L		14-NOV-20	R5289397
Chemical Oxygen Demand	71		20	mg/L	15-NOV-20	20-NOV-20	R5291639
Oil and Grease, Total	0.8	<DL	1.0	mg/L	18-NOV-20	18-NOV-20	R5287891
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		04-DEC-20	R5308870
L2529177-14 SW25_SW_20201110 Sampled By: Client on 10-NOV-20 @ 15:30 Matrix: SW							
Field Tests							
Dissolved Oxygen, Client Supplied	266		0	mg/L		17-NOV-20	R5286809
pH, Client Supplied	7.39		0.10	pH		17-NOV-20	R5286809
Temperature, Client Supplied	.5		0	Degree C		17-NOV-20	R5286809
Physical Tests							
Color, True	37.7		2.0	CU		13-NOV-20	R5285334
Conductivity (EC)	420		1.0	uS/cm		14-NOV-20	R5285713

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-14 SW25_SW_20201110 Sampled By: Client on 10-NOV-20 @ 15:30 Matrix: SW							
Physical Tests							
Hardness (as CaCO3)	199		0.51	mg/L		19-NOV-20	
pH	8.13		0.10	pH		14-NOV-20	R5285713
Total Suspended Solids	2.0	<DL	3.0	mg/L		17-NOV-20	R5287338
Total Dissolved Solids	290		20	mg/L		17-NOV-20	R5287459
Turbidity	2.88		0.10	NTU		13-NOV-20	R5285202
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		17-NOV-20	R5287252
Alkalinity, Total (as CaCO3)	163		2.0	mg/L		14-NOV-20	R5285713
Ammonia, Total (as N)	<0.002	<W	0.0050	mg/L		19-NOV-20	R5289379
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		20-NOV-20	
Chloride (Cl)	30.7		0.10	mg/L	13-NOV-20	14-NOV-20	R5285959
Fluoride (F)	0.096		0.020	mg/L	13-NOV-20	14-NOV-20	R5285959
Nitrate (as N)	0.018	<DL	0.020	mg/L		14-NOV-20	R5285959
Nitrite (as N)	0.001	<DL	0.010	mg/L		14-NOV-20	R5285959
Total Kjeldahl Nitrogen	0.766		0.050	mg/L	15-NOV-20	18-NOV-20	R5287683
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	13-NOV-20	17-NOV-20	R5286892
Sulfate (SO4)	26.6		0.30	mg/L		14-NOV-20	R5285959
Cyanides							
Cyanide, Weak Acid Diss	0.0002	<DL	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Total	0.0002	<DL	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Free	0.0006	<DL	0.0020	mg/L		17-NOV-20	R5287236
Organic / Inorganic Carbon							
Dissolved Organic Carbon	16.6		0.50	mg/L	13-NOV-20	20-NOV-20	R5295038
Total Organic Carbon	17.6	DLM	2.5	mg/L		20-NOV-20	R5294879
Total Metals							
Aluminum (Al)-Total	0.110		0.0050	mg/L		18-NOV-20	R5288597
Antimony (Sb)-Total	0.000090	<DL	0.00060	mg/L		18-NOV-20	R5288597
Arsenic (As)-Total	0.00078	<DL	0.0010	mg/L		18-NOV-20	R5288597
Barium (Ba)-Total	0.0265		0.010	mg/L		18-NOV-20	R5288597
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		18-NOV-20	R5288597
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288597
Boron (B)-Total	0.0165	<DL	0.050	mg/L		18-NOV-20	R5288597
Cadmium (Cd)-Total	0.000005	<DL	0.000017	mg/L		18-NOV-20	R5288597
Calcium (Ca)-Total	49.3		0.20	mg/L		18-NOV-20	R5288597
Cesium (Cs)-Total	0.0000135		0.000010	mg/L		18-NOV-20	R5288597
Chromium (Cr)-Total	0.00030	<DL	0.0010	mg/L		18-NOV-20	R5288597
Cobalt (Co)-Total	0.000140	<DL	0.00050	mg/L		18-NOV-20	R5288597
Copper (Cu)-Total	0.00188	<T	0.0010	mg/L		18-NOV-20	R5288597
Iron (Fe)-Total	0.178		0.020	mg/L		18-NOV-20	R5288597
Lead (Pb)-Total	0.00007	<T	0.000050	mg/L		18-NOV-20	R5288597
Lithium (Li)-Total	0.0062	<DL	0.050	mg/L		18-NOV-20	R5288597
Magnesium (Mg)-Total	19.2		0.020	mg/L		18-NOV-20	R5288597

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-14 SW25_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 15:30							
Matrix: SW							
Total Metals							
Manganese (Mn)-Total	0.0190		0.0010	mg/L		18-NOV-20	R5288597
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287565
Molybdenum (Mo)-Total	0.00119	<T	0.0010	mg/L		18-NOV-20	R5288597
Nickel (Ni)-Total	0.00148	<DL	0.0020	mg/L		18-NOV-20	R5288597
Phosphorus (P)-Total	0.030	<DL	0.050	mg/L		18-NOV-20	R5288597
Potassium (K)-Total	2.44		0.50	mg/L		18-NOV-20	R5288597
Rubidium (Rb)-Total	0.00128		0.00020	mg/L		18-NOV-20	R5288597
Selenium (Se)-Total	0.000165	<T	0.000050	mg/L		18-NOV-20	R5288597
Silicon (Si)-Total	2.64		0.10	mg/L		18-NOV-20	R5288597
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		18-NOV-20	R5288597
Sodium (Na)-Total	8.51		0.10	mg/L		18-NOV-20	R5288597
Strontium (Sr)-Total	0.128		0.0010	mg/L		18-NOV-20	R5288597
Sulfur (S)-Total	7.8		0.50	mg/L		18-NOV-20	R5288597
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		18-NOV-20	R5288597
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		18-NOV-20	R5288597
Thorium (Th)-Total	0.00003	<DL	0.00010	mg/L		18-NOV-20	R5288597
Tin (Sn)-Total	0.00001	<DL	0.0010	mg/L		18-NOV-20	R5288597
Titanium (Ti)-Total	0.00344		0.0020	mg/L		18-NOV-20	R5288597
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		18-NOV-20	R5288597
Uranium (U)-Total	0.00290	<DL	0.0050	mg/L		18-NOV-20	R5288597
Vanadium (V)-Total	0.00080	<DL	0.0010	mg/L		18-NOV-20	R5288597
Zinc (Zn)-Total	0.0120		0.0030	mg/L		18-NOV-20	R5288597
Zirconium (Zr)-Total	0.000252	<DL	0.0010	mg/L		18-NOV-20	R5288597
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					18-NOV-20	R5287769
Aluminum (Al)-Dissolved	0.0088	<T	0.0050	mg/L		18-NOV-20	R5288640
Antimony (Sb)-Dissolved	0.000100	<DL	0.00060	mg/L		18-NOV-20	R5288640
Arsenic (As)-Dissolved	0.000679	<DL	0.0010	mg/L		18-NOV-20	R5288640
Barium (Ba)-Dissolved	0.0256		0.010	mg/L		18-NOV-20	R5288640
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Boron (B)-Dissolved	0.0145	<DL	0.050	mg/L		18-NOV-20	R5288640
Cadmium (Cd)-Dissolved	0.0000030	<DL	0.000017	mg/L		18-NOV-20	R5288640
Calcium (Ca)-Dissolved	49.0		0.20	mg/L		18-NOV-20	R5288640
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		18-NOV-20	R5288640
Chromium (Cr)-Dissolved	0.00012	<DL	0.0010	mg/L		18-NOV-20	R5288640
Cobalt (Co)-Dissolved	0.000104	<DL	0.00050	mg/L		18-NOV-20	R5288640
Copper (Cu)-Dissolved	0.00166	<T	0.0010	mg/L		18-NOV-20	R5288640
Iron (Fe)-Dissolved	0.0545		0.020	mg/L		18-NOV-20	R5288640
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		18-NOV-20	R5288640
Lithium (Li)-Dissolved	0.0062	<DL	0.050	mg/L		18-NOV-20	R5288640

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-14 SW25_SW_20201110 Sampled By: Client on 10-NOV-20 @ 15:30 Matrix: SW							
Dissolved Metals							
Magnesium (Mg)-Dissolved	18.5		0.020	mg/L		18-NOV-20	R5288640
Manganese (Mn)-Dissolved	0.0119		0.0010	mg/L		18-NOV-20	R5288640
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287568
Molybdenum (Mo)-Dissolved	0.00115	<T	0.0010	mg/L		18-NOV-20	R5288640
Nickel (Ni)-Dissolved	0.00126	<DL	0.0020	mg/L		18-NOV-20	R5288640
Phosphorus (P)-Dissolved	0.015	<DL	0.050	mg/L		18-NOV-20	R5288640
Potassium (K)-Dissolved	2.32		0.50	mg/L		18-NOV-20	R5288640
Rubidium (Rb)-Dissolved	0.00111		0.00020	mg/L		18-NOV-20	R5288640
Selenium (Se)-Dissolved	0.000210	<T	0.000050	mg/L		18-NOV-20	R5288640
Silicon (Si)-Dissolved	2.36		0.050	mg/L		18-NOV-20	R5288640
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		18-NOV-20	R5288640
Sodium (Na)-Dissolved	8.21		0.10	mg/L		18-NOV-20	R5288640
Strontium (Sr)-Dissolved	0.122		0.0010	mg/L		18-NOV-20	R5288640
Sulfur (S)-Dissolved	7.8		0.50	mg/L		18-NOV-20	R5288640
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288640
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		18-NOV-20	R5288640
Thorium (Th)-Dissolved	0.00002	<DL	0.00010	mg/L		18-NOV-20	R5288640
Tin (Sn)-Dissolved	0.000055	<DL	0.0010	mg/L		18-NOV-20	R5288640
Titanium (Ti)-Dissolved	0.00106	<DL	0.0020	mg/L		18-NOV-20	R5288640
Tungsten (W)-Dissolved	0.000002	<DL	0.010	mg/L		18-NOV-20	R5288640
Uranium (U)-Dissolved	0.00273	<DL	0.0050	mg/L		18-NOV-20	R5288640
Vanadium (V)-Dissolved	0.00050	<DL	0.0010	mg/L		18-NOV-20	R5288640
Zinc (Zn)-Dissolved	0.0102		0.0030	mg/L		18-NOV-20	R5288640
Zirconium (Zr)-Dissolved	0.000222	<DL	0.0010	mg/L		18-NOV-20	R5288640
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-NOV-20	R5289397
Chemical Oxygen Demand	53		20	mg/L	15-NOV-20	20-NOV-20	R5291639
Oil and Grease, Total	1.0		1.0	mg/L	18-NOV-20	18-NOV-20	R5287891
L2529177-15 SW26_SW_20201110 Sampled By: Client on 10-NOV-20 @ 15:55 Matrix: SW							
Field Tests							
Dissolved Oxygen, Client Supplied	6.48		0	mg/L		17-NOV-20	R5286809
pH, Client Supplied	7.49		0.10	pH		17-NOV-20	R5286809
Temperature, Client Supplied	.87		0	Degree C		17-NOV-20	R5286809
Physical Tests							
Color, True	35.9		2.0	CU		13-NOV-20	R5285334
Conductivity (EC)	489		1.0	uS/cm		14-NOV-20	R5285713
Hardness (as CaCO3)	239		0.51	mg/L		19-NOV-20	
pH	8.19		0.10	pH		14-NOV-20	R5285713
Total Suspended Solids	2.0	<DL	3.0	mg/L		17-NOV-20	R5287338
Total Dissolved Solids	332		20	mg/L		17-NOV-20	R5287459

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-15 SW26_SW_20201110 Sampled By: Client on 10-NOV-20 @ 15:55 Matrix: SW							
Physical Tests							
Turbidity	2.96		0.10	NTU		13-NOV-20	R5285202
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		17-NOV-20	R5287252
Alkalinity, Total (as CaCO3)	196		2.0	mg/L		14-NOV-20	R5285713
Ammonia, Total (as N)	0.002	<DL	0.0050	mg/L		19-NOV-20	R5289379
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		20-NOV-20	
Chloride (Cl)	22.4		0.10	mg/L	13-NOV-20	14-NOV-20	R5285959
Fluoride (F)	0.081		0.020	mg/L	13-NOV-20	14-NOV-20	R5285959
Nitrate (as N)	0.008	<DL	0.020	mg/L		14-NOV-20	R5285959
Nitrite (as N)	0.001	<DL	0.010	mg/L		14-NOV-20	R5285959
Total Kjeldahl Nitrogen	0.626		0.050	mg/L	15-NOV-20	18-NOV-20	R5287683
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	13-NOV-20	17-NOV-20	R5286892
Sulfate (SO4)	32.4		0.30	mg/L		14-NOV-20	R5285959
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Total	0.0002	<DL	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Free	0.0005	<DL	0.0020	mg/L		17-NOV-20	R5287236
Organic / Inorganic Carbon							
Dissolved Organic Carbon	14.8		0.50	mg/L	13-NOV-20	20-NOV-20	R5295038
Total Organic Carbon	14.5		0.50	mg/L		20-NOV-20	R5294858
Total Metals							
Aluminum (Al)-Total	0.103		0.0050	mg/L		18-NOV-20	R5288597
Antimony (Sb)-Total	0.000105	<DL	0.00060	mg/L		18-NOV-20	R5288597
Arsenic (As)-Total	0.00099	<DL	0.0010	mg/L		18-NOV-20	R5288597
Barium (Ba)-Total	0.0303		0.010	mg/L		18-NOV-20	R5288597
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		18-NOV-20	R5288597
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288597
Boron (B)-Total	0.0215	<DL	0.050	mg/L		18-NOV-20	R5288597
Cadmium (Cd)-Total	0.000003	<DL	0.000017	mg/L		18-NOV-20	R5288597
Calcium (Ca)-Total	57.1		0.20	mg/L		18-NOV-20	R5288597
Cesium (Cs)-Total	0.0000135		0.000010	mg/L		18-NOV-20	R5288597
Chromium (Cr)-Total	0.00030	<DL	0.0010	mg/L		18-NOV-20	R5288597
Cobalt (Co)-Total	0.000140	<DL	0.00050	mg/L		18-NOV-20	R5288597
Copper (Cu)-Total	0.00188	<T	0.0010	mg/L		18-NOV-20	R5288597
Iron (Fe)-Total	0.224		0.020	mg/L		18-NOV-20	R5288597
Lead (Pb)-Total	0.00006	<T	0.000050	mg/L		18-NOV-20	R5288597
Lithium (Li)-Total	0.0104	<DL	0.050	mg/L		18-NOV-20	R5288597
Magnesium (Mg)-Total	24.1		0.020	mg/L		18-NOV-20	R5288597
Manganese (Mn)-Total	0.0286		0.0010	mg/L		18-NOV-20	R5288597
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287565
Molybdenum (Mo)-Total	0.00142	<T	0.0010	mg/L		18-NOV-20	R5288597
Nickel (Ni)-Total	0.00132	<DL	0.0020	mg/L		18-NOV-20	R5288597

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-15 SW26_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 15:55							
Matrix: SW							
Total Metals							
Phosphorus (P)-Total	0.015	<DL	0.050	mg/L		18-NOV-20	R5288597
Potassium (K)-Total	2.58		0.50	mg/L		18-NOV-20	R5288597
Rubidium (Rb)-Total	0.00125		0.00020	mg/L		18-NOV-20	R5288597
Selenium (Se)-Total	0.000175	<T	0.000050	mg/L		18-NOV-20	R5288597
Silicon (Si)-Total	2.69		0.10	mg/L		18-NOV-20	R5288597
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		18-NOV-20	R5288597
Sodium (Na)-Total	8.50		0.10	mg/L		18-NOV-20	R5288597
Strontium (Sr)-Total	0.166		0.0010	mg/L		18-NOV-20	R5288597
Sulfur (S)-Total	11.6		0.50	mg/L		18-NOV-20	R5288597
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		18-NOV-20	R5288597
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		18-NOV-20	R5288597
Thorium (Th)-Total	0.00003	<DL	0.00010	mg/L		18-NOV-20	R5288597
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		18-NOV-20	R5288597
Titanium (Ti)-Total	0.00387		0.0020	mg/L		18-NOV-20	R5288597
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		18-NOV-20	R5288597
Uranium (U)-Total	0.00351	<DL	0.0050	mg/L		18-NOV-20	R5288597
Vanadium (V)-Total	0.00065	<DL	0.0010	mg/L		18-NOV-20	R5288597
Zinc (Zn)-Total	0.0075	<T	0.0030	mg/L		18-NOV-20	R5288597
Zirconium (Zr)-Total	0.000240	<DL	0.0010	mg/L		18-NOV-20	R5288597
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					18-NOV-20	R5287769
Aluminum (Al)-Dissolved	0.0094	<T	0.0050	mg/L		18-NOV-20	R5288640
Antimony (Sb)-Dissolved	0.000110	<DL	0.00060	mg/L		18-NOV-20	R5288640
Arsenic (As)-Dissolved	0.000882	<DL	0.0010	mg/L		18-NOV-20	R5288640
Barium (Ba)-Dissolved	0.0301		0.010	mg/L		18-NOV-20	R5288640
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Boron (B)-Dissolved	0.0190	<DL	0.050	mg/L		18-NOV-20	R5288640
Cadmium (Cd)-Dissolved	0.0000010	<DL	0.000017	mg/L		18-NOV-20	R5288640
Calcium (Ca)-Dissolved	57.0		0.20	mg/L		18-NOV-20	R5288640
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		18-NOV-20	R5288640
Chromium (Cr)-Dissolved	0.00010	<DL	0.0010	mg/L		18-NOV-20	R5288640
Cobalt (Co)-Dissolved	0.000100	<DL	0.00050	mg/L		18-NOV-20	R5288640
Copper (Cu)-Dissolved	0.00166	<T	0.0010	mg/L		18-NOV-20	R5288640
Iron (Fe)-Dissolved	0.0865		0.020	mg/L		18-NOV-20	R5288640
Lead (Pb)-Dissolved	0.00011	<T	0.000050	mg/L		18-NOV-20	R5288640
Lithium (Li)-Dissolved	0.0098	<DL	0.050	mg/L		18-NOV-20	R5288640
Magnesium (Mg)-Dissolved	23.6		0.020	mg/L		18-NOV-20	R5288640
Manganese (Mn)-Dissolved	0.0240		0.0010	mg/L		18-NOV-20	R5288640
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287568
Molybdenum (Mo)-Dissolved	0.00137	<T	0.0010	mg/L		18-NOV-20	R5288640

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-15 SW26_SW_20201110 Sampled By: Client on 10-NOV-20 @ 15:55 Matrix: SW							
Dissolved Metals							
Nickel (Ni)-Dissolved	0.00114	<DL	0.0020	mg/L		18-NOV-20	R5288640
Phosphorus (P)-Dissolved	0.015	<DL	0.050	mg/L		18-NOV-20	R5288640
Potassium (K)-Dissolved	2.55		0.50	mg/L		18-NOV-20	R5288640
Rubidium (Rb)-Dissolved	0.00108		0.00020	mg/L		18-NOV-20	R5288640
Selenium (Se)-Dissolved	0.000215	<T	0.000050	mg/L		18-NOV-20	R5288640
Silicon (Si)-Dissolved	2.48		0.050	mg/L		18-NOV-20	R5288640
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		18-NOV-20	R5288640
Sodium (Na)-Dissolved	8.42		0.10	mg/L		18-NOV-20	R5288640
Strontium (Sr)-Dissolved	0.163		0.0010	mg/L		18-NOV-20	R5288640
Sulfur (S)-Dissolved	12.2		0.50	mg/L		18-NOV-20	R5288640
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288640
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		18-NOV-20	R5288640
Thorium (Th)-Dissolved	0.00002	<DL	0.00010	mg/L		18-NOV-20	R5288640
Tin (Sn)-Dissolved	0.000030	<DL	0.0010	mg/L		18-NOV-20	R5288640
Titanium (Ti)-Dissolved	0.00122	<DL	0.0020	mg/L		18-NOV-20	R5288640
Tungsten (W)-Dissolved	0.000002	<DL	0.010	mg/L		18-NOV-20	R5288640
Uranium (U)-Dissolved	0.00343	<DL	0.0050	mg/L		18-NOV-20	R5288640
Vanadium (V)-Dissolved	0.00034	<DL	0.0010	mg/L		18-NOV-20	R5288640
Zinc (Zn)-Dissolved	0.0060	<T	0.0030	mg/L		18-NOV-20	R5288640
Zirconium (Zr)-Dissolved	0.000290	<DL	0.0010	mg/L		18-NOV-20	R5288640
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-NOV-20	R5289397
Chemical Oxygen Demand	50		20	mg/L	15-NOV-20	20-NOV-20	R5291639
Oil and Grease, Total	2.8		1.0	mg/L	18-NOV-20	18-NOV-20	R5287891
L2529177-16 SW27_SW_20201110 Sampled By: Client on 10-NOV-20 @ 11:20 Matrix: SW							
Field Tests							
Dissolved Oxygen, Client Supplied	4.5		0	mg/L		17-NOV-20	R5286809
pH, Client Supplied	7.49		0.10	pH		17-NOV-20	R5286809
Temperature, Client Supplied	.85		0	Degree C		17-NOV-20	R5286809
Physical Tests							
Color, True	35.0		2.0	CU		13-NOV-20	R5285334
Conductivity (EC)	606		1.0	uS/cm		14-NOV-20	R5285713
Hardness (as CaCO3)	285		0.51	mg/L		19-NOV-20	
pH	8.09		0.10	pH		14-NOV-20	R5285713
Total Suspended Solids	<0.5	<W	3.0	mg/L		16-NOV-20	R5286593
Total Dissolved Solids	378		20	mg/L		16-NOV-20	R5286672
Turbidity	1.43		0.10	NTU		13-NOV-20	R5285202
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		17-NOV-20	R5287252
Alkalinity, Total (as CaCO3)	195		2.0	mg/L		14-NOV-20	R5285713

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-16 SW27_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 11:20							
Matrix: SW							
Anions and Nutrients							
Ammonia, Total (as N)	0.002	<DL	0.0050	mg/L		19-NOV-20	R5289379
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		20-NOV-20	
Chloride (Cl)	17.2		0.10	mg/L	13-NOV-20	14-NOV-20	R5285959
Fluoride (F)	0.074		0.020	mg/L	13-NOV-20	14-NOV-20	R5285959
Nitrate (as N)	0.008	<DL	0.020	mg/L		14-NOV-20	R5285959
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-NOV-20	R5285959
Total Kjeldahl Nitrogen	0.688		0.050	mg/L	15-NOV-20	18-NOV-20	R5287683
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	13-NOV-20	17-NOV-20	R5286892
Sulfate (SO4)	107		0.30	mg/L		14-NOV-20	R5285959
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Total	0.0002	<DL	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Free	0.0015	<DL	0.0020	mg/L		17-NOV-20	R5287236
Organic / Inorganic Carbon							
Dissolved Organic Carbon	15.5		0.50	mg/L	13-NOV-20	20-NOV-20	R5295038
Total Organic Carbon	14.6		0.50	mg/L		20-NOV-20	R5294858
Total Metals							
Aluminum (Al)-Total	0.0436		0.0050	mg/L		18-NOV-20	R5288597
Antimony (Sb)-Total	0.000130	<DL	0.00060	mg/L		18-NOV-20	R5288597
Arsenic (As)-Total	0.00075	<DL	0.0010	mg/L		18-NOV-20	R5288597
Barium (Ba)-Total	0.0349		0.010	mg/L		18-NOV-20	R5288597
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		18-NOV-20	R5288597
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288597
Boron (B)-Total	0.0190	<DL	0.050	mg/L		18-NOV-20	R5288597
Cadmium (Cd)-Total	0.000002	<DL	0.000017	mg/L		18-NOV-20	R5288597
Calcium (Ca)-Total	64.3		0.20	mg/L		18-NOV-20	R5288597
Cesium (Cs)-Total	0.0000055	<DL	0.000010	mg/L		18-NOV-20	R5288597
Chromium (Cr)-Total	0.00020	<DL	0.0010	mg/L		18-NOV-20	R5288597
Cobalt (Co)-Total	0.000120	<DL	0.00050	mg/L		18-NOV-20	R5288597
Copper (Cu)-Total	0.00108	<T	0.0010	mg/L		18-NOV-20	R5288597
Iron (Fe)-Total	0.120		0.020	mg/L		18-NOV-20	R5288597
Lead (Pb)-Total	0.00002	<DL	0.000050	mg/L		18-NOV-20	R5288597
Lithium (Li)-Total	0.0106	<DL	0.050	mg/L		18-NOV-20	R5288597
Magnesium (Mg)-Total	29.4		0.020	mg/L		18-NOV-20	R5288597
Manganese (Mn)-Total	0.0116		0.0010	mg/L		18-NOV-20	R5288597
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287566
Molybdenum (Mo)-Total	0.000930	<DL	0.0010	mg/L		18-NOV-20	R5288597
Nickel (Ni)-Total	0.00118	<DL	0.0020	mg/L		18-NOV-20	R5288597
Phosphorus (P)-Total	0.020	<DL	0.050	mg/L		18-NOV-20	R5288597
Potassium (K)-Total	4.67		0.50	mg/L		18-NOV-20	R5288597
Rubidium (Rb)-Total	0.00144		0.00020	mg/L		18-NOV-20	R5288597
Selenium (Se)-Total	0.000130	<T	0.000050	mg/L		18-NOV-20	R5288597

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-16 SW27_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 11:20							
Matrix: SW							
Total Metals							
Silicon (Si)-Total	3.47		0.10	mg/L		18-NOV-20	R5288597
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		18-NOV-20	R5288597
Sodium (Na)-Total	18.9		0.10	mg/L		18-NOV-20	R5288597
Strontium (Sr)-Total	0.167		0.0010	mg/L		18-NOV-20	R5288597
Sulfur (S)-Total	36.8		0.50	mg/L		18-NOV-20	R5288597
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		18-NOV-20	R5288597
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		18-NOV-20	R5288597
Thorium (Th)-Total	0.00001	<DL	0.00010	mg/L		18-NOV-20	R5288597
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		18-NOV-20	R5288597
Titanium (Ti)-Total	0.00187	<DL	0.0020	mg/L		18-NOV-20	R5288597
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		18-NOV-20	R5288597
Uranium (U)-Total	0.00249	<DL	0.0050	mg/L		18-NOV-20	R5288597
Vanadium (V)-Total	0.00055	<DL	0.0010	mg/L		18-NOV-20	R5288597
Zinc (Zn)-Total	0.0025	<DL	0.0030	mg/L		18-NOV-20	R5288597
Zirconium (Zr)-Total	0.000198	<DL	0.0010	mg/L		18-NOV-20	R5288597
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					18-NOV-20	R5287769
Aluminum (Al)-Dissolved	0.0058	<T	0.0050	mg/L		18-NOV-20	R5288640
Antimony (Sb)-Dissolved	0.000145	<DL	0.00060	mg/L		18-NOV-20	R5288640
Arsenic (As)-Dissolved	0.000711	<DL	0.0010	mg/L		18-NOV-20	R5288640
Barium (Ba)-Dissolved	0.0346		0.010	mg/L		18-NOV-20	R5288640
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Boron (B)-Dissolved	0.0175	<DL	0.050	mg/L		18-NOV-20	R5288640
Cadmium (Cd)-Dissolved	0.0000030	<DL	0.000017	mg/L		18-NOV-20	R5288640
Calcium (Ca)-Dissolved	65.5		0.20	mg/L		18-NOV-20	R5288640
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		18-NOV-20	R5288640
Chromium (Cr)-Dissolved	0.00012	<DL	0.0010	mg/L		18-NOV-20	R5288640
Cobalt (Co)-Dissolved	0.000102	<DL	0.00050	mg/L		18-NOV-20	R5288640
Copper (Cu)-Dissolved	0.00106	<T	0.0010	mg/L		18-NOV-20	R5288640
Iron (Fe)-Dissolved	0.0630		0.020	mg/L		18-NOV-20	R5288640
Lead (Pb)-Dissolved	0.00001	<DL	0.000050	mg/L		18-NOV-20	R5288640
Lithium (Li)-Dissolved	0.0106	<DL	0.050	mg/L		18-NOV-20	R5288640
Magnesium (Mg)-Dissolved	29.6		0.020	mg/L		18-NOV-20	R5288640
Manganese (Mn)-Dissolved	0.0100		0.0010	mg/L		18-NOV-20	R5288640
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287570
Molybdenum (Mo)-Dissolved	0.000900	<DL	0.0010	mg/L		18-NOV-20	R5288640
Nickel (Ni)-Dissolved	0.00108	<DL	0.0020	mg/L		18-NOV-20	R5288640
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		18-NOV-20	R5288640
Potassium (K)-Dissolved	4.81		0.50	mg/L		18-NOV-20	R5288640
Rubidium (Rb)-Dissolved	0.00141		0.00020	mg/L		18-NOV-20	R5288640

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-16 SW27_SW_20201110 Sampled By: Client on 10-NOV-20 @ 11:20 Matrix: SW							
Dissolved Metals							
Selenium (Se)-Dissolved	0.000130	<T	0.000050	mg/L		18-NOV-20	R5288640
Silicon (Si)-Dissolved	3.38		0.050	mg/L		18-NOV-20	R5288640
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		18-NOV-20	R5288640
Sodium (Na)-Dissolved	19.0		0.10	mg/L		18-NOV-20	R5288640
Strontium (Sr)-Dissolved	0.164		0.0010	mg/L		18-NOV-20	R5288640
Sulfur (S)-Dissolved	36.8		0.50	mg/L		18-NOV-20	R5288640
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288640
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		18-NOV-20	R5288640
Thorium (Th)-Dissolved	0.00001	<DL	0.00010	mg/L		18-NOV-20	R5288640
Tin (Sn)-Dissolved	0.000055	<DL	0.0010	mg/L		18-NOV-20	R5288640
Titanium (Ti)-Dissolved	0.00062	<DL	0.0020	mg/L		18-NOV-20	R5288640
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		18-NOV-20	R5288640
Uranium (U)-Dissolved	0.00237	<DL	0.0050	mg/L		18-NOV-20	R5288640
Vanadium (V)-Dissolved	0.00036	<DL	0.0010	mg/L		18-NOV-20	R5288640
Zinc (Zn)-Dissolved	0.0024	<DL	0.0030	mg/L		18-NOV-20	R5288640
Zirconium (Zr)-Dissolved	0.000200	<DL	0.0010	mg/L		18-NOV-20	R5288640
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-NOV-20	R5289397
Chemical Oxygen Demand	48		20	mg/L	15-NOV-20	20-NOV-20	R5291639
Oil and Grease, Total	1.4		1.0	mg/L	18-NOV-20	18-NOV-20	R5287891
L2529177-17 SW28A_SW_2020111 Sampled By: Client on 10-NOV-20 @ 15:25 Matrix: SW							
Field Tests							
Dissolved Oxygen, Client Supplied	5.4		0	mg/L		17-NOV-20	R5286809
pH, Client Supplied	7.81		0.10	pH		17-NOV-20	R5286809
Temperature, Client Supplied	.89		0	Degree C		17-NOV-20	R5286809
Physical Tests							
Color, True	43.9		2.0	CU		13-NOV-20	R5285334
Conductivity (EC)	274		1.0	uS/cm		14-NOV-20	R5285713
Hardness (as CaCO3)	155		0.51	mg/L		19-NOV-20	
pH	8.12		0.10	pH		14-NOV-20	R5285713
Total Suspended Solids	2.5	<DL	3.0	mg/L		16-NOV-20	R5286593
Total Dissolved Solids	170		20	mg/L		16-NOV-20	R5286672
Turbidity	1.17		0.10	NTU		13-NOV-20	R5285202
Anions and Nutrients							
Acidity (as CaCO3)	<0.2	<W	2.0	mg/L		17-NOV-20	R5287252
Alkalinity, Total (as CaCO3)	149		2.0	mg/L		14-NOV-20	R5285713
Ammonia, Total (as N)	0.002	<DL	0.0050	mg/L		19-NOV-20	R5289379
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		20-NOV-20	
Chloride (Cl)	2.83		0.10	mg/L	13-NOV-20	14-NOV-20	R5285959
Fluoride (F)	0.081		0.020	mg/L	13-NOV-20	14-NOV-20	R5285959

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-17 SW28A_SW_2020111							
Sampled By: Client on 10-NOV-20 @ 15:25							
Matrix: SW							
Anions and Nutrients							
Nitrate (as N)	0.010	<DL	0.020	mg/L		14-NOV-20	R5285959
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-NOV-20	R5285959
Total Kjeldahl Nitrogen	0.956		0.050	mg/L	15-NOV-20	18-NOV-20	R5287683
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	13-NOV-20	17-NOV-20	R5286892
Sulfate (SO4)	1.65	<T	0.30	mg/L		14-NOV-20	R5285959
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Total	<0.0002	<W	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Free	0.0018	<DL	0.0020	mg/L		17-NOV-20	R5287236
Organic / Inorganic Carbon							
Dissolved Organic Carbon	24.3	DLM	2.5	mg/L	13-NOV-20	20-NOV-20	R5295038
Total Organic Carbon	19.9		0.50	mg/L		20-NOV-20	R5294858
Total Metals							
Aluminum (Al)-Total	0.0508		0.0050	mg/L		18-NOV-20	R5288597
Antimony (Sb)-Total	0.000025	<DL	0.00060	mg/L		18-NOV-20	R5288597
Arsenic (As)-Total	0.00075	<DL	0.0010	mg/L		18-NOV-20	R5288597
Barium (Ba)-Total	0.0190		0.010	mg/L		18-NOV-20	R5288597
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		18-NOV-20	R5288597
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288597
Boron (B)-Total	0.0130	<DL	0.050	mg/L		18-NOV-20	R5288597
Cadmium (Cd)-Total	0.000004	<DL	0.000017	mg/L		18-NOV-20	R5288597
Calcium (Ca)-Total	35.2		0.20	mg/L		18-NOV-20	R5288597
Cesium (Cs)-Total	0.0000075	<DL	0.000010	mg/L		18-NOV-20	R5288597
Chromium (Cr)-Total	0.00020	<DL	0.0010	mg/L		18-NOV-20	R5288597
Cobalt (Co)-Total	0.000105	<DL	0.00050	mg/L		18-NOV-20	R5288597
Copper (Cu)-Total	0.00076	<DL	0.0010	mg/L		18-NOV-20	R5288597
Iron (Fe)-Total	0.132		0.020	mg/L		18-NOV-20	R5288597
Lead (Pb)-Total	0.00005	<T	0.000050	mg/L		18-NOV-20	R5288597
Lithium (Li)-Total	0.0052	<DL	0.050	mg/L		18-NOV-20	R5288597
Magnesium (Mg)-Total	15.9		0.020	mg/L		18-NOV-20	R5288597
Manganese (Mn)-Total	0.0114		0.0010	mg/L		18-NOV-20	R5288597
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287566
Molybdenum (Mo)-Total	0.000645	<DL	0.0010	mg/L		18-NOV-20	R5288597
Nickel (Ni)-Total	0.00092	<DL	0.0020	mg/L		18-NOV-20	R5288597
Phosphorus (P)-Total	0.010	<DL	0.050	mg/L		18-NOV-20	R5288597
Potassium (K)-Total	1.37		0.50	mg/L		18-NOV-20	R5288597
Rubidium (Rb)-Total	0.00153		0.00020	mg/L		18-NOV-20	R5288597
Selenium (Se)-Total	0.000075	<T	0.000050	mg/L		18-NOV-20	R5288597
Silicon (Si)-Total	1.45		0.10	mg/L		18-NOV-20	R5288597
Silver (Ag)-Total	0.000001	<DL	0.00010	mg/L		18-NOV-20	R5288597
Sodium (Na)-Total	2.08		0.10	mg/L		18-NOV-20	R5288597
Strontium (Sr)-Total	0.0881		0.0010	mg/L		18-NOV-20	R5288597

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-17 SW28A_SW_2020111							
Sampled By: Client on 10-NOV-20 @ 15:25							
Matrix: SW							
Total Metals							
Sulfur (S)-Total	0.8		0.50	mg/L		18-NOV-20	R5288597
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		18-NOV-20	R5288597
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		18-NOV-20	R5288597
Thorium (Th)-Total	0.00001	<DL	0.00010	mg/L		18-NOV-20	R5288597
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		18-NOV-20	R5288597
Titanium (Ti)-Total	0.00145	<DL	0.0020	mg/L		18-NOV-20	R5288597
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		18-NOV-20	R5288597
Uranium (U)-Total	0.00124	<DL	0.0050	mg/L		18-NOV-20	R5288597
Vanadium (V)-Total	0.00050	<DL	0.0010	mg/L		18-NOV-20	R5288597
Zinc (Zn)-Total	0.0010	<DL	0.0030	mg/L		18-NOV-20	R5288597
Zirconium (Zr)-Total	0.000124	<DL	0.0010	mg/L		18-NOV-20	R5288597
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					18-NOV-20	R5287769
Aluminum (Al)-Dissolved	0.0050	<T	0.0050	mg/L		18-NOV-20	R5288640
Antimony (Sb)-Dissolved	0.000045	<DL	0.00060	mg/L		18-NOV-20	R5288640
Arsenic (As)-Dissolved	0.000684	<DL	0.0010	mg/L		18-NOV-20	R5288640
Barium (Ba)-Dissolved	0.0190		0.010	mg/L		18-NOV-20	R5288640
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Boron (B)-Dissolved	0.0115	<DL	0.050	mg/L		18-NOV-20	R5288640
Cadmium (Cd)-Dissolved	0.0000010	<DL	0.000017	mg/L		18-NOV-20	R5288640
Calcium (Ca)-Dissolved	35.8		0.20	mg/L		18-NOV-20	R5288640
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		18-NOV-20	R5288640
Chromium (Cr)-Dissolved	0.00006	<DL	0.0010	mg/L		18-NOV-20	R5288640
Cobalt (Co)-Dissolved	0.000074	<DL	0.00050	mg/L		18-NOV-20	R5288640
Copper (Cu)-Dissolved	0.00244	<T	0.0010	mg/L		18-NOV-20	R5288640
Iron (Fe)-Dissolved	0.0620		0.020	mg/L		18-NOV-20	R5288640
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		18-NOV-20	R5288640
Lithium (Li)-Dissolved	0.0052	<DL	0.050	mg/L		18-NOV-20	R5288640
Magnesium (Mg)-Dissolved	15.8		0.020	mg/L		18-NOV-20	R5288640
Manganese (Mn)-Dissolved	0.00800		0.0010	mg/L		18-NOV-20	R5288640
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287570
Molybdenum (Mo)-Dissolved	0.000662	<DL	0.0010	mg/L		18-NOV-20	R5288640
Nickel (Ni)-Dissolved	0.00084	<DL	0.0020	mg/L		18-NOV-20	R5288640
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		18-NOV-20	R5288640
Potassium (K)-Dissolved	1.36		0.50	mg/L		18-NOV-20	R5288640
Rubidium (Rb)-Dissolved	0.00131		0.00020	mg/L		18-NOV-20	R5288640
Selenium (Se)-Dissolved	0.000095	<T	0.000050	mg/L		18-NOV-20	R5288640
Silicon (Si)-Dissolved	1.32		0.050	mg/L		18-NOV-20	R5288640
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		18-NOV-20	R5288640
Sodium (Na)-Dissolved	2.04		0.10	mg/L		18-NOV-20	R5288640

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-17 SW28A_SW_2020111 Sampled By: Client on 10-NOV-20 @ 15:25 Matrix: SW							
Dissolved Metals							
Strontium (Sr)-Dissolved	0.0849		0.0010	mg/L		18-NOV-20	R5288640
Sulfur (S)-Dissolved	0.6		0.50	mg/L		18-NOV-20	R5288640
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288640
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		18-NOV-20	R5288640
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		18-NOV-20	R5288640
Tin (Sn)-Dissolved	0.000125	<DL	0.0010	mg/L		18-NOV-20	R5288640
Titanium (Ti)-Dissolved	0.00034	<DL	0.0020	mg/L		18-NOV-20	R5288640
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		18-NOV-20	R5288640
Uranium (U)-Dissolved	0.00120	<DL	0.0050	mg/L		18-NOV-20	R5288640
Vanadium (V)-Dissolved	0.00028	<DL	0.0010	mg/L		18-NOV-20	R5288640
Zinc (Zn)-Dissolved	0.0016	<DL	0.0030	mg/L		18-NOV-20	R5288640
Zirconium (Zr)-Dissolved	0.000134	<DL	0.0010	mg/L		18-NOV-20	R5288640
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-NOV-20	R5289397
Chemical Oxygen Demand	63		20	mg/L	15-NOV-20	20-NOV-20	R5291639
Oil and Grease, Total	3.0		1.0	mg/L	18-NOV-20	18-NOV-20	R5287891
L2529177-18 TB_SW_20201110 Sampled By: Client on 10-NOV-20 @ 11:59 Matrix: SW							
Physical Tests							
Color, True	<2.0		2.0	CU		13-NOV-20	R5285334
Conductivity (EC)	<0.2	<W	1.0	uS/cm		14-NOV-20	R5285713
Hardness (as CaCO3)	<0.51		0.51	mg/L		19-NOV-20	
pH	5.55		0.10	pH		14-NOV-20	R5285713
Total Suspended Solids	0.5	<DL	3.0	mg/L		16-NOV-20	R5286593
Total Dissolved Solids	<2	<W	10	mg/L		16-NOV-20	R5286672
Turbidity	0.10		0.10	NTU		13-NOV-20	R5285202
Anions and Nutrients							
Acidity (as CaCO3)	0.6	<DL	2.0	mg/L		17-NOV-20	R5287252
Alkalinity, Total (as CaCO3)	<0.2	<W	2.0	mg/L		14-NOV-20	R5285713
Ammonia, Total (as N)	<0.002	<W	0.0050	mg/L		19-NOV-20	R5289379
Chloride (Cl)	<0.10		0.10	mg/L	13-NOV-20	14-NOV-20	R5285959
Fluoride (F)	<0.020		0.020	mg/L	13-NOV-20	14-NOV-20	R5285959
Nitrate (as N)	<0.002	<W	0.020	mg/L		14-NOV-20	R5285959
Nitrite (as N)	<0.001	<W	0.010	mg/L		14-NOV-20	R5285959
Total Kjeldahl Nitrogen	<0.050		0.050	mg/L	15-NOV-20	18-NOV-20	R5287683
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	13-NOV-20	17-NOV-20	R5286892
Sulfate (SO4)	0.45	<T	0.30	mg/L		14-NOV-20	R5285959
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Total	<0.0002	<W	0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Free	0.0020		0.0020	mg/L		17-NOV-20	R5287236

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-18 TB_SW_20201110 Sampled By: Client on 10-NOV-20 @ 11:59 Matrix: SW							
Cyanides							
Organic / Inorganic Carbon							
Dissolved Organic Carbon	<0.50		0.50	mg/L	10-NOV-20	20-NOV-20	R5295038
Total Organic Carbon	<0.50		0.50	mg/L		20-NOV-20	R5294858
Total Metals							
Aluminum (Al)-Total	0.0002	<DL	0.0050	mg/L		18-NOV-20	R5288597
Antimony (Sb)-Total	<0.000005	<W	0.00060	mg/L		18-NOV-20	R5288597
Arsenic (As)-Total	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288597
Barium (Ba)-Total	<0.00001	<W	0.010	mg/L		18-NOV-20	R5288597
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		18-NOV-20	R5288597
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288597
Boron (B)-Total	<0.0005	<W	0.050	mg/L		18-NOV-20	R5288597
Cadmium (Cd)-Total	<0.000001	<W	0.000017	mg/L		18-NOV-20	R5288597
Calcium (Ca)-Total	<0.002	<W	0.20	mg/L		18-NOV-20	R5288597
Cesium (Cs)-Total	<0.0000005	<W	0.000010	mg/L		18-NOV-20	R5288597
Chromium (Cr)-Total	0.00026	<DL	0.0010	mg/L		18-NOV-20	R5288597
Cobalt (Co)-Total	<0.000005	<W	0.00050	mg/L		18-NOV-20	R5288597
Copper (Cu)-Total	<0.00002	<W	0.0010	mg/L		18-NOV-20	R5288597
Iron (Fe)-Total	0.0010	<DL	0.020	mg/L		18-NOV-20	R5288597
Lead (Pb)-Total	<0.00001	<W	0.000050	mg/L		18-NOV-20	R5288597
Lithium (Li)-Total	<0.0002	<W	0.050	mg/L		18-NOV-20	R5288597
Magnesium (Mg)-Total	0.0002	<DL	0.020	mg/L		18-NOV-20	R5288597
Manganese (Mn)-Total	<0.0002	<W	0.0010	mg/L		18-NOV-20	R5288597
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287566
Molybdenum (Mo)-Total	<0.000005	<W	0.0010	mg/L		18-NOV-20	R5288597
Nickel (Ni)-Total	0.00004	<DL	0.0020	mg/L		18-NOV-20	R5288597
Phosphorus (P)-Total	0.010	<DL	0.050	mg/L		18-NOV-20	R5288597
Potassium (K)-Total	<0.01	<W	0.50	mg/L		18-NOV-20	R5288597
Rubidium (Rb)-Total	<0.000002	<W	0.00020	mg/L		18-NOV-20	R5288597
Selenium (Se)-Total	<0.000005	<W	0.000050	mg/L		18-NOV-20	R5288597
Silicon (Si)-Total	<0.002	<W	0.10	mg/L		18-NOV-20	R5288597
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		18-NOV-20	R5288597
Sodium (Na)-Total	<0.005	<W	0.10	mg/L		18-NOV-20	R5288597
Strontium (Sr)-Total	<0.000005	<W	0.0010	mg/L		18-NOV-20	R5288597
Sulfur (S)-Total	<0.2	<W	0.50	mg/L		18-NOV-20	R5288597
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		18-NOV-20	R5288597
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		18-NOV-20	R5288597
Thorium (Th)-Total	<0.00001	<W	0.00010	mg/L		18-NOV-20	R5288597
Tin (Sn)-Total	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288597
Titanium (Ti)-Total	<0.00001	<W	0.0020	mg/L		18-NOV-20	R5288597
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		18-NOV-20	R5288597
Uranium (U)-Total	<0.0000005	<W	0.0050	mg/L		18-NOV-20	R5288597

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-18 TB_SW_20201110							
Sampled By: Client on 10-NOV-20 @ 11:59							
Matrix: SW							
Total Metals							
Vanadium (V)-Total	0.00010	<DL	0.0010	mg/L		18-NOV-20	R5288597
Zinc (Zn)-Total	<0.0005	<W	0.0030	mg/L		18-NOV-20	R5288597
Zirconium (Zr)-Total	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288597
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					18-NOV-20	R5287769
Aluminum (Al)-Dissolved	0.0002	<DL	0.0050	mg/L		18-NOV-20	R5288640
Antimony (Sb)-Dissolved	<0.000005	<W	0.00060	mg/L		18-NOV-20	R5288640
Arsenic (As)-Dissolved	0.0000082	<DL	0.0010	mg/L		18-NOV-20	R5288640
Barium (Ba)-Dissolved	0.000020	<DL	0.010	mg/L		18-NOV-20	R5288640
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Boron (B)-Dissolved	<0.0005	<W	0.050	mg/L		18-NOV-20	R5288640
Cadmium (Cd)-Dissolved	0.0000010	<DL	0.000017	mg/L		18-NOV-20	R5288640
Calcium (Ca)-Dissolved	0.008	<DL	0.20	mg/L		18-NOV-20	R5288640
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		18-NOV-20	R5288640
Chromium (Cr)-Dissolved	0.00012	<DL	0.0010	mg/L		18-NOV-20	R5288640
Cobalt (Co)-Dissolved	<0.000002	<W	0.00050	mg/L		18-NOV-20	R5288640
Copper (Cu)-Dissolved	<0.00002	<W	0.0010	mg/L		18-NOV-20	R5288640
Iron (Fe)-Dissolved	0.0010	<DL	0.020	mg/L		18-NOV-20	R5288640
Lead (Pb)-Dissolved	<0.00001	<W	0.000050	mg/L		18-NOV-20	R5288640
Lithium (Li)-Dissolved	<0.0002	<W	0.050	mg/L		18-NOV-20	R5288640
Magnesium (Mg)-Dissolved	0.0015	<DL	0.020	mg/L		18-NOV-20	R5288640
Manganese (Mn)-Dissolved	0.00002	<DL	0.0010	mg/L		18-NOV-20	R5288640
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287570
Molybdenum (Mo)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Nickel (Ni)-Dissolved	0.00002	<DL	0.0020	mg/L		18-NOV-20	R5288640
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		18-NOV-20	R5288640
Potassium (K)-Dissolved	<0.01	<W	0.50	mg/L		18-NOV-20	R5288640
Rubidium (Rb)-Dissolved	0.000004	<DL	0.00020	mg/L		18-NOV-20	R5288640
Selenium (Se)-Dissolved	<0.000005	<W	0.000050	mg/L		18-NOV-20	R5288640
Silicon (Si)-Dissolved	<0.005	<W	0.050	mg/L		18-NOV-20	R5288640
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		18-NOV-20	R5288640
Sodium (Na)-Dissolved	0.005	<DL	0.10	mg/L		18-NOV-20	R5288640
Strontium (Sr)-Dissolved	0.00002	<DL	0.0010	mg/L		18-NOV-20	R5288640
Sulfur (S)-Dissolved	<0.2	<W	0.50	mg/L		18-NOV-20	R5288640
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288640
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		18-NOV-20	R5288640
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		18-NOV-20	R5288640
Tin (Sn)-Dissolved	0.000010	<DL	0.0010	mg/L		18-NOV-20	R5288640
Titanium (Ti)-Dissolved	<0.00002	<W	0.0020	mg/L		18-NOV-20	R5288640
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		18-NOV-20	R5288640

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-18 TB_SW_20201110 Sampled By: Client on 10-NOV-20 @ 11:59 Matrix: SW							
Dissolved Metals							
Uranium (U)-Dissolved	0.0000010	<DL	0.0050	mg/L		18-NOV-20	R5288640
Vanadium (V)-Dissolved	0.00006	<DL	0.0010	mg/L		18-NOV-20	R5288640
Zinc (Zn)-Dissolved	0.0004	<DL	0.0030	mg/L		18-NOV-20	R5288640
Zirconium (Zr)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-NOV-20	R5289397
Chemical Oxygen Demand	<20		20	mg/L	15-NOV-20	20-NOV-20	R5291639
Oil and Grease, Total	1.0		1.0	mg/L	18-NOV-20	18-NOV-20	R5287891
L2529177-19 TMA CELL2_EFF_20201111 Sampled By: Client on 10-NOV-20 @ 15:00 Matrix: EFF							
Field Tests							
pH, Client Supplied	2.52		0.10	pH		17-NOV-20	R5286809
Temperature, Client Supplied	7.74		0	Degree C		17-NOV-20	R5286809
Physical Tests							
Color, True	10.3		2.0	CU		13-NOV-20	R5285334
Conductivity (EC)	2330		1.0	uS/cm		14-NOV-20	R5285713
Hardness (as CaCO3)	664		0.51	mg/L		20-NOV-20	
pH	7.88		0.10	pH		14-NOV-20	R5285713
Total Suspended Solids	31.5		3.0	mg/L		17-NOV-20	R5287338
Total Dissolved Solids	1730		20	mg/L		17-NOV-20	R5287459
Turbidity	19.9		0.10	NTU		13-NOV-20	R5285202
Anions and Nutrients							
Alkalinity, Total (as CaCO3)	108		2.0	mg/L		14-NOV-20	R5285713
Ammonia, Total (as N)	16.4		0.50	mg/L		19-NOV-20	R5289379
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		20-NOV-20	
Chloride (Cl)	65.5		0.50	mg/L	13-NOV-20	14-NOV-20	R5285959
Fluoride (F)	0.27		0.10	mg/L	13-NOV-20	14-NOV-20	R5285959
Nitrate (as N)	7.08		0.10	mg/L		14-NOV-20	R5285959
Nitrite (as N)	0.872		0.050	mg/L		14-NOV-20	R5285959
Total Kjeldahl Nitrogen	19.8		0.25	mg/L	15-NOV-20	18-NOV-20	R5287683
Orthophosphate-Dissolved (as P)	0.0052		0.0030	mg/L	13-NOV-20	17-NOV-20	R5286892
Phosphorus (P)-Total	0.0375	<T	0.0030	mg/L		17-NOV-20	R5287388
Sulfate (SO4)	901		1.5	mg/L		14-NOV-20	R5285959
Cyanides							
Cyanide, Weak Acid Diss	0.312		0.0020	mg/L		17-NOV-20	R5287236
Cyanide, Total	0.319		0.0020	mg/L		17-NOV-20	R5287236
Cyanate	20.4	DLM	1.0	mg/L	17-NOV-20	18-NOV-20	R5287759
Thiocyanate (SCN)	5.73		0.50	mg/L		19-NOV-20	R5289857
Cyanide, Free	0.161		0.0020	mg/L		17-NOV-20	R5287236
Organic / Inorganic Carbon							
Dissolved Organic Carbon	9.47		0.50	mg/L	13-NOV-20	20-NOV-20	R5295038

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-19 TMA CELL2_EFF_20201111 Sampled By: Client on 10-NOV-20 @ 15:00 Matrix: EFF							
Organic / Inorganic Carbon							
Total Organic Carbon	9.99		0.50	mg/L		20-NOV-20	R5294858
Total Metals							
Aluminum (Al)-Total	0.487		0.0050	mg/L		18-NOV-20	R5288597
Antimony (Sb)-Total	0.0492		0.00060	mg/L		18-NOV-20	R5288597
Arsenic (As)-Total	0.0112		0.0010	mg/L		18-NOV-20	R5288597
Barium (Ba)-Total	0.0586		0.010	mg/L		18-NOV-20	R5288597
Beryllium (Be)-Total	0.0000011	<DL	0.0010	mg/L		18-NOV-20	R5288597
Bismuth (Bi)-Total	0.00021	<DL	0.0010	mg/L		18-NOV-20	R5288597
Boron (B)-Total	0.229		0.050	mg/L		18-NOV-20	R5288597
Cadmium (Cd)-Total	0.000136	<T	0.000017	mg/L		18-NOV-20	R5288597
Calcium (Ca)-Total	235		0.20	mg/L		18-NOV-20	R5288597
Cesium (Cs)-Total	0.000565		0.000010	mg/L		18-NOV-20	R5288597
Chromium (Cr)-Total	0.00072	<DL	0.0010	mg/L		18-NOV-20	R5288597
Cobalt (Co)-Total	0.00622	<T	0.00050	mg/L		18-NOV-20	R5288597
Copper (Cu)-Total	0.898		0.0010	mg/L		18-NOV-20	R5288597
Iron (Fe)-Total	0.546		0.020	mg/L		18-NOV-20	R5288597
Lead (Pb)-Total	0.00219	<T	0.000050	mg/L		18-NOV-20	R5288597
Lithium (Li)-Total	0.0182	<DL	0.050	mg/L		18-NOV-20	R5288597
Magnesium (Mg)-Total	16.6		0.020	mg/L		18-NOV-20	R5288597
Manganese (Mn)-Total	0.189		0.0010	mg/L		18-NOV-20	R5288597
Mercury (Hg)-Total	0.000020	<DL	0.000030	mg/L		18-NOV-20	R5287566
Molybdenum (Mo)-Total	0.0330		0.0010	mg/L		18-NOV-20	R5288597
Nickel (Ni)-Total	0.0147	<T	0.0020	mg/L		18-NOV-20	R5288597
Phosphorus (P)-Total	0.040	<DL	0.050	mg/L		18-NOV-20	R5288597
Potassium (K)-Total	253		2.5	mg/L		19-NOV-20	R5291177
Rubidium (Rb)-Total	0.0616		0.00020	mg/L		18-NOV-20	R5288597
Selenium (Se)-Total	0.00395	<T	0.000050	mg/L		18-NOV-20	R5288597
Silicon (Si)-Total	2.91		0.10	mg/L		18-NOV-20	R5288597
Silver (Ag)-Total	0.000824	<T	0.00010	mg/L		18-NOV-20	R5288597
Sodium (Na)-Total	189		0.10	mg/L		18-NOV-20	R5288597
Strontium (Sr)-Total	1.33		0.0010	mg/L		18-NOV-20	R5288597
Sulfur (S)-Total	357		0.50	mg/L		18-NOV-20	R5288597
Tellurium (Te)-Total	0.00018	<DL	0.0010	mg/L		18-NOV-20	R5288597
Thallium (Tl)-Total	0.000045	<DL	0.00030	mg/L		18-NOV-20	R5288597
Thorium (Th)-Total	0.00007	<DL	0.00010	mg/L		18-NOV-20	R5288597
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		18-NOV-20	R5288597
Titanium (Ti)-Total	0.00675		0.0020	mg/L		18-NOV-20	R5288597
Tungsten (W)-Total	0.00251	<DL	0.010	mg/L		18-NOV-20	R5288597
Uranium (U)-Total	0.00116	<DL	0.0050	mg/L		18-NOV-20	R5288597
Vanadium (V)-Total	0.00090	<DL	0.0010	mg/L		18-NOV-20	R5288597
Zinc (Zn)-Total	0.0140		0.0030	mg/L		18-NOV-20	R5288597

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-19 TMA CELL2_EFF_20201111 Sampled By: Client on 10-NOV-20 @ 15:00 Matrix: EFF							
Total Metals							
Zirconium (Zr)-Total	0.000302	<DL	0.0010	mg/L		18-NOV-20	R5288597
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					18-NOV-20	R5287769
Aluminum (Al)-Dissolved	0.0436		0.0050	mg/L		18-NOV-20	R5288640
Antimony (Sb)-Dissolved	0.0507		0.00060	mg/L		18-NOV-20	R5288640
Arsenic (As)-Dissolved	0.00984		0.0010	mg/L		18-NOV-20	R5288640
Barium (Ba)-Dissolved	0.0577		0.010	mg/L		18-NOV-20	R5288640
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Boron (B)-Dissolved	0.206		0.050	mg/L		18-NOV-20	R5288640
Cadmium (Cd)-Dissolved	0.000113	<DL	0.00012	mg/L		18-NOV-20	R5288640
Calcium (Ca)-Dissolved	239		0.20	mg/L		18-NOV-20	R5288640
Cesium (Cs)-Dissolved	0.000263		0.000010	mg/L		18-NOV-20	R5288640
Chromium (Cr)-Dissolved	0.00004	<DL	0.0010	mg/L		18-NOV-20	R5288640
Cobalt (Co)-Dissolved	0.00598	<T	0.00050	mg/L		18-NOV-20	R5288640
Copper (Cu)-Dissolved	0.706		0.0010	mg/L		18-NOV-20	R5288640
Iron (Fe)-Dissolved	0.0120	<DL	0.020	mg/L		18-NOV-20	R5288640
Lead (Pb)-Dissolved	0.00013	<T	0.000050	mg/L		18-NOV-20	R5288640
Lithium (Li)-Dissolved	0.0178	<DL	0.050	mg/L		18-NOV-20	R5288640
Magnesium (Mg)-Dissolved	16.3		0.020	mg/L		18-NOV-20	R5288640
Manganese (Mn)-Dissolved	0.177		0.0010	mg/L		18-NOV-20	R5288640
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287570
Molybdenum (Mo)-Dissolved	0.0326		0.0010	mg/L		18-NOV-20	R5288640
Nickel (Ni)-Dissolved	0.0129	<T	0.0020	mg/L		18-NOV-20	R5288640
Phosphorus (P)-Dissolved	0.015	<DL	0.050	mg/L		18-NOV-20	R5288640
Potassium (K)-Dissolved	245		2.5	mg/L		19-NOV-20	R5291037
Rubidium (Rb)-Dissolved	0.0617		0.00020	mg/L		18-NOV-20	R5288640
Selenium (Se)-Dissolved	0.00405	<T	0.000050	mg/L		18-NOV-20	R5288640
Silicon (Si)-Dissolved	2.40		0.050	mg/L		18-NOV-20	R5288640
Silver (Ag)-Dissolved	0.000317	<T	0.00010	mg/L		18-NOV-20	R5288640
Sodium (Na)-Dissolved	195		0.10	mg/L		18-NOV-20	R5288640
Strontium (Sr)-Dissolved	1.30		0.0010	mg/L		18-NOV-20	R5288640
Sulfur (S)-Dissolved	358		0.50	mg/L		18-NOV-20	R5288640
Tellurium (Te)-Dissolved	0.00004	<DL	0.0010	mg/L		18-NOV-20	R5288640
Thallium (Tl)-Dissolved	0.000036	<DL	0.00030	mg/L		18-NOV-20	R5288640
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		18-NOV-20	R5288640
Tin (Sn)-Dissolved	0.000010	<DL	0.0010	mg/L		18-NOV-20	R5288640
Titanium (Ti)-Dissolved	0.00006	<DL	0.0020	mg/L		18-NOV-20	R5288640
Tungsten (W)-Dissolved	0.00256	<DL	0.010	mg/L		18-NOV-20	R5288640
Uranium (U)-Dissolved	0.00108	<DL	0.0050	mg/L		18-NOV-20	R5288640
Vanadium (V)-Dissolved	0.00040	<DL	0.0010	mg/L		18-NOV-20	R5288640

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-19 TMA CELL2_EFF_20201111 Sampled By: Client on 10-NOV-20 @ 15:00 Matrix: EFF							
Dissolved Metals							
Zinc (Zn)-Dissolved	0.0518	DTC	0.0030	mg/L		18-NOV-20	R5288640
Zirconium (Zr)-Dissolved	0.000022	<DL	0.0010	mg/L		18-NOV-20	R5288640
Aggregate Organics							
Biochemical Oxygen Demand	8.4		2.0	mg/L		14-NOV-20	R5289397
BOD Carbonaceous	12.0		2.0	mg/L		13-NOV-20	R5287667
Chemical Oxygen Demand	43		20	mg/L	15-NOV-20	20-NOV-20	R5291639
L2529177-20 WMP_EFF_20201111 Sampled By: Client on 10-NOV-20 @ 14:45 Matrix: EFF							
Field Tests							
pH, Client Supplied	2.06		0.10	pH		17-NOV-20	R5286809
Temperature, Client Supplied	7.97		0	Degree C		17-NOV-20	R5286809
Physical Tests							
Color, True	8.2		2.0	CU		13-NOV-20	R5285334
Conductivity (EC)	1560		1.0	uS/cm		14-NOV-20	R5285713
Hardness (as CaCO3)	497		0.51	mg/L		19-NOV-20	
pH	8.09		0.10	pH		14-NOV-20	R5285713
Total Suspended Solids	4.0		3.0	mg/L		17-NOV-20	R5287338
Total Dissolved Solids	1190		20	mg/L		17-NOV-20	R5287459
Turbidity	1.11		0.10	NTU		13-NOV-20	R5285202
Anions and Nutrients							
Alkalinity, Total (as CaCO3)	124		2.0	mg/L		14-NOV-20	R5285713
Ammonia, Total (as N)	0.050	<T	0.0050	mg/L		19-NOV-20	R5289379
Ammonia, Un-ionized (as N)	<0.001	<W	0.010	mg/L		20-NOV-20	
Chloride (Cl)	31.3		0.50	mg/L	13-NOV-20	14-NOV-20	R5285959
Fluoride (F)	0.16		0.10	mg/L	13-NOV-20	14-NOV-20	R5285959
Nitrate (as N)	5.80		0.10	mg/L		14-NOV-20	R5285959
Nitrite (as N)	0.023	<DL	0.050	mg/L		14-NOV-20	R5285959
Total Kjeldahl Nitrogen	1.17		0.050	mg/L	15-NOV-20	18-NOV-20	R5287683
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	13-NOV-20	17-NOV-20	R5286892
Phosphorus (P)-Total	0.0075	<T	0.0030	mg/L		17-NOV-20	R5287388
Sulfate (SO4)	757		1.5	mg/L		14-NOV-20	R5285959
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		18-NOV-20	R5287236
Cyanide, Total	0.0006	<DL	0.0020	mg/L		18-NOV-20	R5287236
Cyanate	0.23		0.20	mg/L	17-NOV-20	18-NOV-20	R5287759
Thiocyanate (SCN)	<0.50		0.50	mg/L		19-NOV-20	R5289857
Cyanide, Free	0.0019	<DL	0.0020	mg/L		17-NOV-20	R5287236
Organic / Inorganic Carbon							
Dissolved Organic Carbon	8.29		0.50	mg/L	13-NOV-20	20-NOV-20	R5295038
Total Organic Carbon	7.92		0.50	mg/L		20-NOV-20	R5294858
Total Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-20 WMP_EFF_20201111							
Sampled By: Client on 10-NOV-20 @ 14:45							
Matrix: EFF							
Total Metals							
Aluminum (Al)-Total	0.0484		0.0050	mg/L		18-NOV-20	R5288597
Antimony (Sb)-Total	0.0189		0.00060	mg/L		18-NOV-20	R5288597
Arsenic (As)-Total	0.00233	<T	0.0010	mg/L		18-NOV-20	R5288597
Barium (Ba)-Total	0.0585		0.010	mg/L		18-NOV-20	R5288597
Beryllium (Be)-Total	<0.0000001	<W	0.0010	mg/L		18-NOV-20	R5288597
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288597
Boron (B)-Total	0.129		0.050	mg/L		18-NOV-20	R5288597
Cadmium (Cd)-Total	0.000014	<DL	0.000017	mg/L		18-NOV-20	R5288597
Calcium (Ca)-Total	160		0.20	mg/L		18-NOV-20	R5288597
Cesium (Cs)-Total	0.000207		0.000010	mg/L		18-NOV-20	R5288597
Chromium (Cr)-Total	0.00018	<DL	0.0010	mg/L		18-NOV-20	R5288597
Cobalt (Co)-Total	0.00169	<T	0.00050	mg/L		18-NOV-20	R5288597
Copper (Cu)-Total	0.0137		0.0010	mg/L		18-NOV-20	R5288597
Iron (Fe)-Total	0.0620		0.020	mg/L		18-NOV-20	R5288597
Lead (Pb)-Total	0.00004	<DL	0.000050	mg/L		18-NOV-20	R5288597
Lithium (Li)-Total	0.0158	<DL	0.050	mg/L		18-NOV-20	R5288597
Magnesium (Mg)-Total	25.7		0.020	mg/L		18-NOV-20	R5288597
Manganese (Mn)-Total	0.0090		0.0010	mg/L		18-NOV-20	R5288597
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287566
Molybdenum (Mo)-Total	0.0124		0.0010	mg/L		18-NOV-20	R5288597
Nickel (Ni)-Total	0.00138	<DL	0.0020	mg/L		18-NOV-20	R5288597
Phosphorus (P)-Total	0.005	<DL	0.050	mg/L		18-NOV-20	R5288597
Potassium (K)-Total	60.0		0.50	mg/L		18-NOV-20	R5288597
Rubidium (Rb)-Total	0.0317		0.00020	mg/L		18-NOV-20	R5288597
Selenium (Se)-Total	0.000610	<T	0.000050	mg/L		18-NOV-20	R5288597
Silicon (Si)-Total	1.03		0.10	mg/L		18-NOV-20	R5288597
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		18-NOV-20	R5288597
Sodium (Na)-Total	116		0.10	mg/L		18-NOV-20	R5288597
Strontium (Sr)-Total	0.605		0.0010	mg/L		18-NOV-20	R5288597
Sulfur (S)-Total	229		0.50	mg/L		18-NOV-20	R5288597
Tellurium (Te)-Total	0.00004	<DL	0.0010	mg/L		18-NOV-20	R5288597
Thallium (Tl)-Total	0.000010	<DL	0.00030	mg/L		18-NOV-20	R5288597
Thorium (Th)-Total	0.00002	<DL	0.00010	mg/L		18-NOV-20	R5288597
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		18-NOV-20	R5288597
Titanium (Ti)-Total	0.00170	<DL	0.0020	mg/L		18-NOV-20	R5288597
Tungsten (W)-Total	0.00014	<DL	0.010	mg/L		18-NOV-20	R5288597
Uranium (U)-Total	0.00245	<DL	0.0050	mg/L		18-NOV-20	R5288597
Vanadium (V)-Total	0.00060	<DL	0.0010	mg/L		18-NOV-20	R5288597
Zinc (Zn)-Total	0.0025	<DL	0.0030	mg/L		18-NOV-20	R5288597
Zirconium (Zr)-Total	0.000102	<DL	0.0010	mg/L		18-NOV-20	R5288597
Dissolved Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-20 WMP_EFF_20201111							
Sampled By: Client on 10-NOV-20 @ 14:45							
Matrix: EFF							
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					18-NOV-20	R5287769
Aluminum (Al)-Dissolved	0.0012	<DL	0.0050	mg/L		18-NOV-20	R5288640
Antimony (Sb)-Dissolved	0.0180		0.00060	mg/L		18-NOV-20	R5288640
Arsenic (As)-Dissolved	0.00215	<T	0.0010	mg/L		18-NOV-20	R5288640
Barium (Ba)-Dissolved	0.0591		0.010	mg/L		18-NOV-20	R5288640
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		18-NOV-20	R5288640
Boron (B)-Dissolved	0.115		0.050	mg/L		18-NOV-20	R5288640
Cadmium (Cd)-Dissolved	0.0000145	<DL	0.000017	mg/L		18-NOV-20	R5288640
Calcium (Ca)-Dissolved	156		0.20	mg/L		18-NOV-20	R5288640
Cesium (Cs)-Dissolved	0.000194		0.000010	mg/L		18-NOV-20	R5288640
Chromium (Cr)-Dissolved	0.00004	<DL	0.0010	mg/L		18-NOV-20	R5288640
Cobalt (Co)-Dissolved	0.00156	<T	0.00050	mg/L		18-NOV-20	R5288640
Copper (Cu)-Dissolved	0.0121		0.0010	mg/L		18-NOV-20	R5288640
Iron (Fe)-Dissolved	0.0040	<DL	0.020	mg/L		18-NOV-20	R5288640
Lead (Pb)-Dissolved	<0.00001	<W	0.000050	mg/L		18-NOV-20	R5288640
Lithium (Li)-Dissolved	0.0154	<DL	0.050	mg/L		18-NOV-20	R5288640
Magnesium (Mg)-Dissolved	25.8		0.020	mg/L		18-NOV-20	R5288640
Manganese (Mn)-Dissolved	0.00656		0.0010	mg/L		18-NOV-20	R5288640
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		18-NOV-20	R5287570
Molybdenum (Mo)-Dissolved	0.0119		0.0010	mg/L		18-NOV-20	R5288640
Nickel (Ni)-Dissolved	0.00126	<DL	0.0020	mg/L		18-NOV-20	R5288640
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		18-NOV-20	R5288640
Potassium (K)-Dissolved	59.9		0.50	mg/L		18-NOV-20	R5288640
Rubidium (Rb)-Dissolved	0.0320		0.00020	mg/L		18-NOV-20	R5288640
Selenium (Se)-Dissolved	0.000620	<T	0.000050	mg/L		18-NOV-20	R5288640
Silicon (Si)-Dissolved	0.925		0.050	mg/L		18-NOV-20	R5288640
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		18-NOV-20	R5288640
Sodium (Na)-Dissolved	117		0.10	mg/L		18-NOV-20	R5288640
Strontium (Sr)-Dissolved	0.592		0.0010	mg/L		18-NOV-20	R5288640
Sulfur (S)-Dissolved	223		0.50	mg/L		18-NOV-20	R5288640
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		18-NOV-20	R5288640
Thallium (Tl)-Dissolved	0.000012	<DL	0.00030	mg/L		18-NOV-20	R5288640
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		18-NOV-20	R5288640
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		18-NOV-20	R5288640
Titanium (Ti)-Dissolved	0.00006	<DL	0.0020	mg/L		18-NOV-20	R5288640
Tungsten (W)-Dissolved	0.000160	<DL	0.010	mg/L		18-NOV-20	R5288640
Uranium (U)-Dissolved	0.00226	<DL	0.0050	mg/L		18-NOV-20	R5288640
Vanadium (V)-Dissolved	0.00036	<DL	0.0010	mg/L		18-NOV-20	R5288640
Zinc (Zn)-Dissolved	0.0026	<DL	0.0030	mg/L		18-NOV-20	R5288640
Zirconium (Zr)-Dissolved	0.000054	<DL	0.0010	mg/L		18-NOV-20	R5288640

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2529177-20 WMP_EFF_20201111 Sampled By: Client on 10-NOV-20 @ 14:45 Matrix: EFF							
Dissolved Metals							
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		14-NOV-20	R5289397
BOD Carbonaceous	<2.0		2.0	mg/L		13-NOV-20	R5287667
Chemical Oxygen Demand	32		20	mg/L	15-NOV-20	20-NOV-20	R5291639

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Laboratory Control Sample	Iron (Fe)-Dissolved	MES	L2529177-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -3, -4, -5, -6, -7, -8, -9
Laboratory Control Sample	Iron (Fe)-Dissolved	MES	L2529177-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -3, -4, -5, -6, -7, -8, -9
Laboratory Control Sample	Iron (Fe)-Total	MES	L2529177-1, -2, -3, -4, -5, -6, -7
Laboratory Control Sample	Iron (Fe)-Total	MES	L2529177-10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -20, -8, -9
Matrix Spike	Cyanate	MS-B	L2529177-19, -20
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2529177-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2529177-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2529177-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Total	MS-B	L2529177-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2529177-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Sodium (Na)-Total	MS-B	L2529177-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Strontium (Sr)-Total	MS-B	L2529177-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Nitrite (as N)	MS-B	L2529177-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Nitrate (as N)	MS-B	L2529177-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L2529177-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Total Kjeldahl Nitrogen	MS-B	L2529177-1, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Total Organic Carbon	MS-B	L2529177-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Total Organic Carbon	MS-B	L2529177-15, -16, -17, -18, -19, -20

Sample Parameter Qualifier key listed:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-MISA-TB	Effluent	Acidity (as CaCO3)	APHA 2310 B-POTENTIOMETRIC TITRATION
		Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample.	
ALK-MISA-TB	Effluent	Alkalinity, Total (as CaCO3)	APHA 2320 B-Auto-Pot. Titration
		This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.	
BOD-TB	Water	Biochemical Oxygen Demand (BOD)	APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND
		All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation.	
CBOD-TB	Water	Carbonaceous BOD	APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND
		All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation.	
CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)
		Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.	

Reference Information

CN-CNO-WT	Water	Cyanate	APHA 4500-CN-L
This analysis is carried out using procedures adapted from APHA method 4500-CN "Cyanide". Cyanate is determined by the Cyanate hydrolysis method using an ammonia selective electrode			
CN-FREE-MISA-CFA-WT	Effluent	Free Cyanide by Continuous Flow Analyzer	ASTM D7237-10 (modified)
This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis.			
CN-SCN-VA	Water	Thiocyanate by Colour	APHA 4500-CN CYANIDE
This analysis is carried out using procedures adapted from APHA Method 4500-CN- M "Thiocyanate" Thiocyanate is determined by the ferric nitrate colourimetric method. Water samples containing high levels of hexavalent chromium, cyanide (together with sulfide), reducing agents, or hydrocarbons may cause negative or positive interferences with this method. Contact ALS for additional information if required.			
CN-T-MISA-CFA-WT	Effluent	Total Cyanide by CFA	ISO 14403-2:2012 (modified)
This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis. Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.			
CN-WAD-MISA-CFA-WT	Effluent	Weak Acid Dissociable Cyanide by CFA	APHA 4500-CN CYANIDE (modified)
This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.			
COD-TB	Water	Chemical Oxygen Demand	APHA 5220D
This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.			
COLOUR-TB	Water	Colour, True	APHA 2120 C
True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard.			
DO-CLIENT-TB	Water	Dissolved Oxygen, Client Supplied	Result supplied by Client
DOC-WT	Effluent	Dissolved Organic Carbon for MISA	APHA 5310 B-Instrumental
EC-MISA-TB	Effluent	Conductivity (EC)	APHA 2510 B-ELECTRODE
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
HARDNESS-CALC-TB	Effluent	Hardness (as CaCO ₃)	CALCULATION
HG-DIS-WT	Effluent	Mercury (Hg)-Dissolved for MISA	SW846 7470A
HG-TOT-WT	Effluent	Mercury (Hg)-Total for MISA	SW846 7470A
MET-D-MISA-TB	Effluent	Dissolved Metals in Water (MISA)	APHA 3030B/6020B (mod)
Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.			
MET-T-MISA-TB	Effluent	Total Metals in Water (MISA)	EPA 200.2/6020B (mod)
Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.			
NH3-MISA-F-TB	Effluent	Ammonia by Discrete Analyzer	catnr 157/158 062217/99321057 (modified)

Reference Information

Ammonia is determined by Flow-injection analysis with fluorescence detection

NH3-UNION-CALC-TB	Effluent	Un-ionized ammonia	Calculation
-------------------	----------	--------------------	-------------

NO2-MISA-IC-TB	Effluent	Nitrite in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

NO3-MISA-IC-TB	Effluent	Nitrate in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

OGG-TOT-WT	Effluent	Oil and Grease, Total for MISA	APHA 5520 B-Hexane Gravimetric
------------	----------	--------------------------------	--------------------------------

P-T-MISA-COL-TB	Effluent	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)
-----------------	----------	---------------------------------------	--------------------------------

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

PH-CLIENT-TB	Water	pH	Result supplied by Client
--------------	-------	----	---------------------------

PH-MISA-TB	Effluent	pH	APHA 4500-H-ELECTRODE
------------	----------	----	-----------------------

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

PO4-DO-COL-TB	Water	Dissolved Orthophosphate	APHA 4500-P B, F, G (modified)
---------------	-------	--------------------------	--------------------------------

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

RA226-MMER-BE	Water	Radium 226	Radium Isotopes by Alpha Spectrometry
---------------	-------	------------	---------------------------------------

Determination of Gamma Emitting Radionuclides In Water and Solids by Gamma Spectrometry.

SO4-MISA-IC-TB	Effluent	Sulfate in Water by IC	EPA 300.1 (mod)
----------------	----------	------------------------	-----------------

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

TDS-MISA-TB	Effluent	Total Dissolved Solids	APHA 2540 C (modified)
-------------	----------	------------------------	------------------------

Aqueous matrices are analyzed using gravimetry and evaporation

TEMP-CLIENT-TB	Water	Temperature	Result supplied by Client
----------------	-------	-------------	---------------------------

TKN-F-TB	Water	TKN in Water by Fluorescence	catnr 157/158, 062818/99334821
----------	-------	------------------------------	--------------------------------

Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection

TOC-WT	Water	Total Organic Carbon	APHA 5310B
--------	-------	----------------------	------------

Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

TSS-MISA-TB	Effluent	Total Suspended Solids	APHA 2540 D (modified)
-------------	----------	------------------------	------------------------

Aqueous matrices are analyzed using gravimetry

TURBIDITY-TB	Water	Turbidity	APHA 2130 B-Nephelometer
--------------	-------	-----------	--------------------------

Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
----------------------------	---------------------

TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
----	--

WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
----	---

BE	BECQUEREL LABORATORIES INC. - MISSISSAUGA, ONTARIO, CANADA
----	--

VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA
----	---

Reference Information

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 1 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BOD-TB								
Water								
Batch	R5287764							
WG3444371-5	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	13-NOV-20
Batch	R5289397							
WG3445023-3	DUP	L2529171-3						
Biochemical Oxygen Demand		7.1	6.7		mg/L	5.7	30	14-NOV-20
WG3445023-2	LCS							
Biochemical Oxygen Demand			94.6		%		85-115	14-NOV-20
WG3445023-1	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	14-NOV-20
CBOD-TB								
Water								
Batch	R5287667							
WG3444359-8	DUP	L2529021-3						
BOD Carbonaceous		2.8	3.0		mg/L	6.2	30	13-NOV-20
WG3444359-6	LCS							
BOD Carbonaceous			88.2		%		85-115	13-NOV-20
WG3444359-5	MB							
BOD Carbonaceous			<2.0		mg/L		2	13-NOV-20
CL-L-IC-N-TB								
Water								
Batch	R5285959							
WG3444730-3	DUP	L2529177-20						
Chloride (Cl)		31.3	27.4		mg/L	13	20	14-NOV-20
WG3444730-2	LCS							
Chloride (Cl)			108.5		%		90-110	14-NOV-20
WG3444730-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	14-NOV-20
CN-CNO-WT								
Water								
Batch	R5287759							
WG3446805-3	DUP	L2529177-19						
Cyanate		20.4	19.8		mg/L	3.0	20	18-NOV-20
WG3446805-2	LCS							
Cyanate			87.9		%		85-115	18-NOV-20
WG3446805-1	MB							
Cyanate			<0.20		mg/L		0.2	18-NOV-20
WG3446805-4	MS	L2529177-19						
Cyanate			N/A	MS-B	%		-	18-NOV-20
CN-SCN-VA								
Water								

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 2 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CN-SCN-VA		Water						
Batch R5289857								
WG3448392-3	DUP	L2529171-1						
Thiocyanate (SCN)		<0.50	<0.50	RPD-NA	mg/L	N/A	20	19-NOV-20
WG3448392-2	LCS							
Thiocyanate (SCN)			109.4		%		85-115	19-NOV-20
WG3448392-1	MB							
Thiocyanate (SCN)			<0.50		mg/L		0.5	19-NOV-20
WG3448392-4	MS	L2529171-2						
Thiocyanate (SCN)			91.7		%		75-125	19-NOV-20
COD-TB		Water						
Batch R5289044								
WG3445261-3	DUP	L2528521-12						
Chemical Oxygen Demand		128	125		mg/L	2.8	20	19-NOV-20
WG3445261-2	LCS							
Chemical Oxygen Demand			108.5		%		85-115	19-NOV-20
WG3445261-1	MB							
Chemical Oxygen Demand			<20		mg/L		20	19-NOV-20
WG3445261-4	MS	L2528521-11						
Chemical Oxygen Demand			88.0		%		75-125	19-NOV-20
Batch R5291639								
WG3445262-3	DUP	L2529177-11						
Chemical Oxygen Demand		52	52		mg/L	0.2	20	20-NOV-20
WG3445262-2	LCS							
Chemical Oxygen Demand			107.8		%		85-115	20-NOV-20
WG3445262-1	MB							
Chemical Oxygen Demand			<20		mg/L		20	20-NOV-20
WG3445262-4	MS	L2529177-10						
Chemical Oxygen Demand			104.7		%		75-125	20-NOV-20
COLOUR-TB		Water						
Batch R5285334								
WG3444717-3	DUP	L2529177-13						
Color, True		103	104		CU	0.4	20	13-NOV-20
WG3444717-2	LCS							
Color, True			103.6		%		85-115	13-NOV-20
WG3444717-1	MB							
Color, True			<2.0		CU		2	13-NOV-20
F-IC-N-TB		Water						

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 3 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F-IC-N-TB		Water						
Batch	R5285959							
WG3444730-3	DUP	L2529177-20						
Fluoride (F)		0.16	0.14		mg/L	13	20	14-NOV-20
WG3444730-2	LCS							
Fluoride (F)			107.8		%		90-110	14-NOV-20
WG3444730-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	14-NOV-20
PO4-DO-COL-TB		Water						
Batch	R5286892							
WG3444724-3	DUP	L2529177-6						
Orthophosphate-Dissolved (as P)		0.0033	0.0038		mg/L	12	20	17-NOV-20
WG3444724-2	LCS							
Orthophosphate-Dissolved (as P)			97.4		%		80-120	17-NOV-20
WG3444724-1	MB							
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	17-NOV-20
WG3444724-4	MS	L2529177-10						
Orthophosphate-Dissolved (as P)			94.8		%		70-130	17-NOV-20
TKN-F-TB		Water						
Batch	R5287683							
WG3445253-3	DUP	L2529016-2						
Total Kjeldahl Nitrogen		64.2	66.6		mg/L	3.7	20	18-NOV-20
WG3445254-3	DUP	L2529177-10						
Total Kjeldahl Nitrogen		0.890	0.835		mg/L	6.4	20	18-NOV-20
WG3445253-2	LCS							
Total Kjeldahl Nitrogen			104.8		%		75-125	18-NOV-20
WG3445254-2	LCS							
Total Kjeldahl Nitrogen			103.8		%		75-125	18-NOV-20
WG3445253-1	MB							
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	18-NOV-20
WG3445254-1	MB							
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	18-NOV-20
WG3445253-4	MS	L2529019-1						
Total Kjeldahl Nitrogen			N/A	MS-B	%		-	18-NOV-20
WG3445254-4	MS	L2529177-9						
Total Kjeldahl Nitrogen			109.3		%		70-130	18-NOV-20
TOC-WT		Water						

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 4 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TOC-WT								
	Water							
Batch	R5294858							
WG3446695-3	DUP	L2529177-17						
Total Organic Carbon		19.9	20.3		mg/L	1.7	20	20-NOV-20
WG3446695-2	LCS							
Total Organic Carbon			96.4		%		80-120	20-NOV-20
WG3446695-1	MB							
Total Organic Carbon			<0.50		mg/L		0.5	20-NOV-20
WG3446695-4	MS	L2529177-17						
Total Organic Carbon			N/A	MS-B	%		-	20-NOV-20
Batch	R5294879							
WG3446577-3	DUP	WG3446577-5						
Total Organic Carbon		22.0	22.1		mg/L	0.5	20	20-NOV-20
WG3446577-2	LCS							
Total Organic Carbon			97.4		%		80-120	20-NOV-20
WG3446577-1	MB							
Total Organic Carbon			<0.50		mg/L		0.5	20-NOV-20
WG3446577-4	MS	WG3446577-5						
Total Organic Carbon			N/A	MS-B	%		-	20-NOV-20
TURBIDITY-TB								
	Water							
Batch	R5285202							
WG3444569-3	DUP	L2529177-6						
Turbidity		13.4	13.5		NTU	0.7	15	13-NOV-20
WG3444569-2	LCS							
Turbidity			99.95		%		85-115	13-NOV-20
WG3444569-1	MB							
Turbidity			<0.10		NTU		0.1	13-NOV-20
ACY-MISA-TB								
	Effluent							
Batch	R5287252							
WG3444708-3	DUP	L2529177-12						
Acidity (as CaCO3)		2.0	1.8	RPD-NA	mg/L	N/A	20	17-NOV-20
WG3444708-2	LCS							
Acidity (as CaCO3)			108.3		%		85-115	17-NOV-20
WG3444708-1	MB							
Acidity (as CaCO3)			2.4		mg/L		4	17-NOV-20
ALK-MISA-TB								
	Effluent							

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 5 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ALK-MISA-TB		Effluent						
Batch	R5285713							
WG3444688-3	DUP	L2529177-3						
Alkalinity, Total (as CaCO3)		159	159		mg/L	0.2	20	14-NOV-20
Alkalinity, Phenolphthalein		<0.2	<0.2	RPD-NA	mg/L	N/A	25	14-NOV-20
WG3444688-2	LCS							
Alkalinity, Total (as CaCO3)			103.7		%		85-115	14-NOV-20
WG3444688-1	MB							
Alkalinity, Total (as CaCO3)			0.4		mg/L		2	14-NOV-20
Alkalinity, Phenolphthalein			<0.2		mg/L		2	14-NOV-20
CN-FREE-MISA-CFA-WT		Effluent						
Batch	R5287236							
WG3446689-3	DUP	L2529177-3						
Cyanide, Free		0.0010	0.0003	RPD-NA	mg/L	N/A	20	17-NOV-20
WG3446689-7	DUP	L2529171-2						
Cyanide, Free		0.0009	0.0007	RPD-NA	mg/L	N/A	20	17-NOV-20
WG3446689-2	LCS							
Cyanide, Free			95.0		%		80-120	17-NOV-20
WG3446689-6	LCS							
Cyanide, Free			96.7		%		80-120	17-NOV-20
WG3446689-1	MB							
Cyanide, Free			<0.0001		mg/L		0.002	17-NOV-20
WG3446689-5	MB							
Cyanide, Free			0.0003		mg/L		0.002	17-NOV-20
WG3446689-4	MS	L2529177-3						
Cyanide, Free			100.4		%		75-125	17-NOV-20
WG3446689-8	MS	L2529171-2						
Cyanide, Free			100.8		%		75-125	17-NOV-20
CN-T-MISA-CFA-WT		Effluent						
Batch	R5287236							
WG3446689-3	DUP	L2529177-3						
Cyanide, Total		<0.0002	<0.0002	RPD-NA	mg/L	N/A	20	17-NOV-20
WG3446689-7	DUP	L2529171-2						
Cyanide, Total		0.0002	<0.0002	RPD-NA	mg/L	N/A	20	17-NOV-20
WG3446689-2	LCS							
Cyanide, Total			92.6		%		80-120	17-NOV-20
WG3446689-6	LCS							
Cyanide, Total			94.1		%		80-120	17-NOV-20
WG3446689-1	MB							

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 6 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CN-T-MISA-CFA-WT		Effluent						
Batch	R5287236							
WG3446689-1	MB							
Cyanide, Total			<0.0002		mg/L		0.002	17-NOV-20
WG3446689-5	MB							
Cyanide, Total			<0.0002		mg/L		0.002	17-NOV-20
WG3446689-4	MS	L2529177-3						
Cyanide, Total			96.1		%		75-125	17-NOV-20
WG3446689-8	MS	L2529171-2						
Cyanide, Total			91.8		%		75-125	17-NOV-20
CN-WAD-MISA-CFA-WT		Effluent						
Batch	R5287236							
WG3446689-3	DUP	L2529177-3						
Cyanide, Weak Acid Diss			<0.0001	RPD-NA	mg/L	N/A	20	17-NOV-20
WG3446689-7	DUP	L2529171-2						
Cyanide, Weak Acid Diss			0.0006	RPD-NA	mg/L	N/A	20	17-NOV-20
WG3446689-2	LCS							
Cyanide, Weak Acid Diss			102.1		%		80-120	17-NOV-20
WG3446689-6	LCS							
Cyanide, Weak Acid Diss			104.5		%		80-120	17-NOV-20
WG3446689-1	MB							
Cyanide, Weak Acid Diss			<0.0001		mg/L		0.002	17-NOV-20
WG3446689-5	MB							
Cyanide, Weak Acid Diss			0.0003		mg/L		0.002	17-NOV-20
WG3446689-4	MS	L2529177-3						
Cyanide, Weak Acid Diss			106.2		%		75-125	17-NOV-20
WG3446689-8	MS	L2529171-2						
Cyanide, Weak Acid Diss			112.9		%		75-125	17-NOV-20
DOC-WT		Effluent						
Batch	R5295038							
WG3446914-3	DUP	L2529177-1						
Dissolved Organic Carbon			<0.50	RPD-NA	mg/L	N/A	25	20-NOV-20
WG3446914-2	LCS							
Dissolved Organic Carbon			96.4		%		70-130	20-NOV-20
WG3446914-1	MB							
Dissolved Organic Carbon			<0.50		mg/L		0.5	20-NOV-20
EC-MISA-TB		Effluent						

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 7 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-MISA-TB		Effluent						
Batch R5285713								
WG3444688-3	DUP	L2529177-3						
Conductivity (EC)		818	818		uS/cm	0.0	10	14-NOV-20
WG3444688-2	LCS							
Conductivity (EC)			99.3		%		90-110	14-NOV-20
WG3444688-1	MB							
Conductivity (EC)			0.8		uS/cm		2	14-NOV-20
HG-DIS-WT		Effluent						
Batch R5287568								
WG3447116-3	DUP	L2529171-1						
Mercury (Hg)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	18-NOV-20
WG3447116-2	LCS							
Mercury (Hg)-Dissolved			108.0		%		80-120	18-NOV-20
WG3447116-1	MB							
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.00003	18-NOV-20
WG3447116-4	MS	L2529171-2						
Mercury (Hg)-Dissolved			107.0		%		70-130	18-NOV-20
Batch R5287570								
WG3447117-3	DUP	L2529177-16						
Mercury (Hg)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	18-NOV-20
WG3447117-2	LCS							
Mercury (Hg)-Dissolved			107.0		%		80-120	18-NOV-20
WG3447117-1	MB							
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.00003	18-NOV-20
WG3447117-4	MS	L2529177-17						
Mercury (Hg)-Dissolved			104.7		%		70-130	18-NOV-20
HG-TOT-WT		Effluent						
Batch R5287565								
WG3447114-3	DUP	L2529171-1						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	18-NOV-20
WG3447114-2	LCS							
Mercury (Hg)-Total			108.0		%		80-120	18-NOV-20
WG3447114-1	MB							
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	18-NOV-20
WG3447114-4	MS	L2529171-2						
Mercury (Hg)-Total			102.7		%		70-130	18-NOV-20

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 8 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-TOT-WT		Effluent						
Batch	R5287566							
WG3447115-3	DUP	L2529177-16						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	18-NOV-20
WG3447115-2	LCS							
Mercury (Hg)-Total			108.0		%		80-120	18-NOV-20
WG3447115-1	MB							
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	18-NOV-20
WG3447115-4	MS	L2529177-17						
Mercury (Hg)-Total			102.0		%		70-130	18-NOV-20
MET-D-MISA-TB		Effluent						
Batch	R5288640							
WG3447385-3	DUP	L2529177-1						
Aluminum (Al)-Dissolved		<0.0002	<0.0002	RPD-NA	mg/L	N/A	20	18-NOV-20
Antimony (Sb)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	18-NOV-20
Arsenic (As)-Dissolved		0.0000040	0.0000062	RPD-NA	mg/L	N/A	20	18-NOV-20
Barium (Ba)-Dissolved		0.000020	0.000025	RPD-NA	mg/L	N/A	20	18-NOV-20
Beryllium (Be)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	18-NOV-20
Bismuth (Bi)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	18-NOV-20
Boron (B)-Dissolved		0.0050	0.0055	RPD-NA	mg/L	N/A	20	18-NOV-20
Cadmium (Cd)-Dissolved		<0.0000005	<0.0000005	RPD-NA	mg/L	N/A	20	18-NOV-20
Calcium (Ca)-Dissolved		0.014	0.014	RPD-NA	mg/L	N/A	20	18-NOV-20
Cesium (Cs)-Dissolved		<0.0000005	<0.0000005	RPD-NA	mg/L	N/A	20	18-NOV-20
Chromium (Cr)-Dissolved		0.00013	0.00013	RPD-NA	mg/L	N/A	20	18-NOV-20
Cobalt (Co)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	18-NOV-20
Copper (Cu)-Dissolved		<0.00002	<0.00002	RPD-NA	mg/L	N/A	20	18-NOV-20
Iron (Fe)-Dissolved		<0.0005	<0.0005	RPD-NA	mg/L	N/A	20	18-NOV-20
Lead (Pb)-Dissolved		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	18-NOV-20
Lithium (Li)-Dissolved		<0.0002	<0.0002	RPD-NA	mg/L	N/A	20	18-NOV-20
Magnesium (Mg)-Dissolved		0.0010	0.0005	RPD-NA	mg/L	N/A	20	18-NOV-20
Manganese (Mn)-Dissolved		0.00002	<0.00002	RPD-NA	mg/L	N/A	20	18-NOV-20
Molybdenum (Mo)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	18-NOV-20
Nickel (Ni)-Dissolved		<0.00002	<0.00002	RPD-NA	mg/L	N/A	20	18-NOV-20
Phosphorus (P)-Dissolved		<0.005	<0.005	RPD-NA	mg/L	N/A	20	18-NOV-20
Potassium (K)-Dissolved		<0.01	<0.01	RPD-NA	mg/L	N/A	20	18-NOV-20
Rubidium (Rb)-Dissolved		0.000004	<0.000002	RPD-NA	mg/L	N/A	20	18-NOV-20
Selenium (Se)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	18-NOV-20

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 9 of 27

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB								
	Effluent							
Batch	R5288640							
WG3447385-3	DUP	L2529177-1						
Silicon (Si)-Dissolved		0.015	0.015	RPD-NA	mg/L	N/A	20	18-NOV-20
Silver (Ag)-Dissolved		<0.0000005	<0.0000005	RPD-NA	mg/L	N/A	20	18-NOV-20
Sodium (Na)-Dissolved		0.025	0.025	RPD-NA	mg/L	N/A	20	18-NOV-20
Strontium (Sr)-Dissolved		0.00004	0.00004	RPD-NA	mg/L	N/A	20	18-NOV-20
Sulfur (S)-Dissolved		<0.2	<0.2	RPD-NA	mg/L	N/A	20	18-NOV-20
Tellurium (Te)-Dissolved		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	18-NOV-20
Thallium (Tl)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	18-NOV-20
Thorium (Th)-Dissolved		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	18-NOV-20
Tin (Sn)-Dissolved		0.000125	0.000125	RPD-NA	mg/L	N/A	20	18-NOV-20
Titanium (Ti)-Dissolved		<0.00002	0.00004	RPD-NA	mg/L	N/A	20	18-NOV-20
Tungsten (W)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	18-NOV-20
Uranium (U)-Dissolved		<0.0000005	<0.0000005	RPD-NA	mg/L	N/A	20	18-NOV-20
Vanadium (V)-Dissolved		0.00006	0.00004	RPD-NA	mg/L	N/A	20	18-NOV-20
Zinc (Zn)-Dissolved		0.0004	0.0004	RPD-NA	mg/L	N/A	20	18-NOV-20
Zirconium (Zr)-Dissolved		0.000002	0.000002	RPD-NA	mg/L	N/A	20	18-NOV-20
WG3447385-7	DUP	L2529177-20						
Aluminum (Al)-Dissolved		0.0012	0.0010	RPD-NA	mg/L	N/A	20	18-NOV-20
Antimony (Sb)-Dissolved		0.0180	0.0183		mg/L	1.7	20	18-NOV-20
Arsenic (As)-Dissolved		0.00215	0.00226		mg/L	4.7	20	18-NOV-20
Barium (Ba)-Dissolved		0.0591	0.0589		mg/L	0.4	20	18-NOV-20
Beryllium (Be)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	18-NOV-20
Bismuth (Bi)-Dissolved		<0.000002	<0.000002	RPD-NA	mg/L	N/A	20	18-NOV-20
Boron (B)-Dissolved		0.115	0.115		mg/L	0.4	20	18-NOV-20
Cadmium (Cd)-Dissolved		0.0000145	0.0000135	RPD-NA	mg/L	N/A	20	18-NOV-20
Calcium (Ca)-Dissolved		156	160		mg/L	2.5	20	18-NOV-20
Cesium (Cs)-Dissolved		0.000194	0.000192		mg/L	1.1	20	18-NOV-20
Chromium (Cr)-Dissolved		0.00004	0.00003	RPD-NA	mg/L	N/A	20	18-NOV-20
Cobalt (Co)-Dissolved		0.00156	0.00160		mg/L	2.5	20	18-NOV-20
Copper (Cu)-Dissolved		0.0121	0.0123		mg/L	1.9	20	18-NOV-20
Iron (Fe)-Dissolved		0.0040	0.0035	RPD-NA	mg/L	N/A	20	18-NOV-20
Lead (Pb)-Dissolved		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	18-NOV-20
Lithium (Li)-Dissolved		0.0154	0.0156	RPD-NA	mg/L	N/A	20	18-NOV-20
Magnesium (Mg)-Dissolved		25.8	25.9		mg/L	0.3	20	18-NOV-20

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 10 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R5288640							
WG3447385-7	DUP	L2529177-20						
Manganese (Mn)-Dissolved		0.00656	0.00654		mg/L	0.6	20	18-NOV-20
Molybdenum (Mo)-Dissolved		0.0119	0.0118		mg/L	0.9	20	18-NOV-20
Nickel (Ni)-Dissolved		0.00126	0.00124	RPD-NA	mg/L	N/A	20	18-NOV-20
Phosphorus (P)-Dissolved		<0.005	<0.005	RPD-NA	mg/L	N/A	20	18-NOV-20
Potassium (K)-Dissolved		59.9	60.8		mg/L	1.6	20	18-NOV-20
Rubidium (Rb)-Dissolved		0.0320	0.0316		mg/L	1.2	20	18-NOV-20
Selenium (Se)-Dissolved		0.000620	0.000635		mg/L	2.1	20	18-NOV-20
Silicon (Si)-Dissolved		0.925	0.950		mg/L	2.6	20	18-NOV-20
Silver (Ag)-Dissolved		<0.0000005	<0.0000005	RPD-NA	mg/L	N/A	20	18-NOV-20
Sodium (Na)-Dissolved		117	118		mg/L	0.8	20	18-NOV-20
Strontium (Sr)-Dissolved		0.592	0.588		mg/L	0.8	20	18-NOV-20
Sulfur (S)-Dissolved		223	227		mg/L	2.1	20	18-NOV-20
Tellurium (Te)-Dissolved		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	18-NOV-20
Thallium (Tl)-Dissolved		0.000012	0.000012	RPD-NA	mg/L	N/A	20	18-NOV-20
Thorium (Th)-Dissolved		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	18-NOV-20
Tin (Sn)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	18-NOV-20
Titanium (Ti)-Dissolved		0.00006	0.00008	RPD-NA	mg/L	N/A	20	18-NOV-20
Tungsten (W)-Dissolved		0.000160	0.000148	RPD-NA	mg/L	N/A	20	18-NOV-20
Uranium (U)-Dissolved		0.00226	0.00227	RPD-NA	mg/L	N/A	20	18-NOV-20
Vanadium (V)-Dissolved		0.00036	0.00036	RPD-NA	mg/L	N/A	20	18-NOV-20
Zinc (Zn)-Dissolved		0.0026	0.0026	RPD-NA	mg/L	N/A	20	18-NOV-20
Zirconium (Zr)-Dissolved		0.000054	0.000056	RPD-NA	mg/L	N/A	20	18-NOV-20
WG3447385-2	LCS							
Aluminum (Al)-Dissolved			103.9		%		80-120	18-NOV-20
Antimony (Sb)-Dissolved			102.3		%		80-120	18-NOV-20
Arsenic (As)-Dissolved			105.6		%		80-120	18-NOV-20
Barium (Ba)-Dissolved			102.6		%		80-120	18-NOV-20
Beryllium (Be)-Dissolved			101.9		%		80-120	18-NOV-20
Bismuth (Bi)-Dissolved			102.8		%		80-120	18-NOV-20
Boron (B)-Dissolved			96.3		%		80-120	18-NOV-20
Cadmium (Cd)-Dissolved			100.5		%		80-120	18-NOV-20
Calcium (Ca)-Dissolved			99.7		%		80-120	18-NOV-20
Cesium (Cs)-Dissolved			102.6		%		80-120	18-NOV-20

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 11 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R5288640							
WG3447385-2 LCS								
Chromium (Cr)-Dissolved			101.8		%		80-120	18-NOV-20
Cobalt (Co)-Dissolved			102.1		%		80-120	18-NOV-20
Copper (Cu)-Dissolved			101.0		%		80-120	18-NOV-20
Iron (Fe)-Dissolved			124.5	MES	%		80-120	18-NOV-20
Lead (Pb)-Dissolved			99.4		%		80-120	18-NOV-20
Lithium (Li)-Dissolved			105.3		%		80-120	18-NOV-20
Magnesium (Mg)-Dissolved			104.4		%		80-120	18-NOV-20
Manganese (Mn)-Dissolved			101.6		%		80-120	18-NOV-20
Molybdenum (Mo)-Dissolved			100.6		%		80-120	18-NOV-20
Nickel (Ni)-Dissolved			100.4		%		80-120	18-NOV-20
Phosphorus (P)-Dissolved			106.1		%		70-130	18-NOV-20
Potassium (K)-Dissolved			104.8		%		80-120	18-NOV-20
Rubidium (Rb)-Dissolved			106.2		%		80-120	18-NOV-20
Selenium (Se)-Dissolved			107.6		%		80-120	18-NOV-20
Silicon (Si)-Dissolved			104.2		%		60-140	18-NOV-20
Silver (Ag)-Dissolved			103.1		%		80-120	18-NOV-20
Sodium (Na)-Dissolved			101.2		%		80-120	18-NOV-20
Strontium (Sr)-Dissolved			101.4		%		80-120	18-NOV-20
Sulfur (S)-Dissolved			90.1		%		80-120	18-NOV-20
Tellurium (Te)-Dissolved			105.0		%		80-120	18-NOV-20
Thallium (Tl)-Dissolved			100.7		%		80-120	18-NOV-20
Thorium (Th)-Dissolved			99.4		%		80-120	18-NOV-20
Tin (Sn)-Dissolved			102.8		%		80-120	18-NOV-20
Titanium (Ti)-Dissolved			101.3		%		80-120	18-NOV-20
Tungsten (W)-Dissolved			99.7		%		80-120	18-NOV-20
Uranium (U)-Dissolved			101.3		%		80-120	18-NOV-20
Vanadium (V)-Dissolved			102.5		%		80-120	18-NOV-20
Zinc (Zn)-Dissolved			103.2		%		80-120	18-NOV-20
Zirconium (Zr)-Dissolved			103.2		%		80-120	18-NOV-20
WG3447385-6 LCS								
Aluminum (Al)-Dissolved			104.6		%		80-120	18-NOV-20
Antimony (Sb)-Dissolved			105.2		%		80-120	18-NOV-20
Arsenic (As)-Dissolved			105.4		%		80-120	18-NOV-20
Barium (Ba)-Dissolved			105.8		%		80-120	18-NOV-20

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 12 of 27

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB	Effluent							
Batch	R5288640							
WG3447385-6	LCS							
Beryllium (Be)-Dissolved			103.6		%		80-120	18-NOV-20
Bismuth (Bi)-Dissolved			103.6		%		80-120	18-NOV-20
Boron (B)-Dissolved			96.9		%		80-120	18-NOV-20
Cadmium (Cd)-Dissolved			102.6		%		80-120	18-NOV-20
Calcium (Ca)-Dissolved			101.6		%		80-120	18-NOV-20
Cesium (Cs)-Dissolved			105.3		%		80-120	18-NOV-20
Chromium (Cr)-Dissolved			100.7		%		80-120	18-NOV-20
Cobalt (Co)-Dissolved			101.2		%		80-120	18-NOV-20
Copper (Cu)-Dissolved			102.1		%		80-120	18-NOV-20
Iron (Fe)-Dissolved			122.3	MES	%		80-120	18-NOV-20
Lead (Pb)-Dissolved			101.2		%		80-120	18-NOV-20
Lithium (Li)-Dissolved			105.9		%		80-120	18-NOV-20
Magnesium (Mg)-Dissolved			106.5		%		80-120	18-NOV-20
Manganese (Mn)-Dissolved			100.6		%		80-120	18-NOV-20
Molybdenum (Mo)-Dissolved			102.6		%		80-120	18-NOV-20
Nickel (Ni)-Dissolved			99.9		%		80-120	18-NOV-20
Phosphorus (P)-Dissolved			105.1		%		70-130	18-NOV-20
Potassium (K)-Dissolved			107.1		%		80-120	18-NOV-20
Rubidium (Rb)-Dissolved			108.2		%		80-120	18-NOV-20
Selenium (Se)-Dissolved			105.0		%		80-120	18-NOV-20
Silicon (Si)-Dissolved			105.3		%		60-140	18-NOV-20
Silver (Ag)-Dissolved			106.2		%		80-120	18-NOV-20
Sodium (Na)-Dissolved			102.1		%		80-120	18-NOV-20
Strontium (Sr)-Dissolved			102.5		%		80-120	18-NOV-20
Sulfur (S)-Dissolved			92.5		%		80-120	18-NOV-20
Tellurium (Te)-Dissolved			104.6		%		80-120	18-NOV-20
Thallium (Tl)-Dissolved			100.9		%		80-120	18-NOV-20
Thorium (Th)-Dissolved			102.1		%		80-120	18-NOV-20
Tin (Sn)-Dissolved			103.1		%		80-120	18-NOV-20
Titanium (Ti)-Dissolved			99.7		%		80-120	18-NOV-20
Tungsten (W)-Dissolved			102.3		%		80-120	18-NOV-20
Uranium (U)-Dissolved			101.3		%		80-120	18-NOV-20
Vanadium (V)-Dissolved			100.9		%		80-120	18-NOV-20

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 13 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R5288640							
WG3447385-6	LCS							
Zinc (Zn)-Dissolved			104.3		%		80-120	18-NOV-20
Zirconium (Zr)-Dissolved			103.6		%		80-120	18-NOV-20
WG3447385-1	MB							
Aluminum (Al)-Dissolved			0.0004		mg/L		0.005	18-NOV-20
Antimony (Sb)-Dissolved			<0.000005		mg/L		0.0006	18-NOV-20
Arsenic (As)-Dissolved			<0.0000002		mg/L		0.001	18-NOV-20
Barium (Ba)-Dissolved			<0.000005		mg/L		0.01	18-NOV-20
Beryllium (Be)-Dissolved			<0.000002		mg/L		0.001	18-NOV-20
Bismuth (Bi)-Dissolved			<0.000002		mg/L		0.001	18-NOV-20
Boron (B)-Dissolved			<0.0005		mg/L		0.05	18-NOV-20
Cadmium (Cd)-Dissolved			<0.0000005		mg/L		0.000017	18-NOV-20
Calcium (Ca)-Dissolved			<0.002		mg/L		0.2	18-NOV-20
Cesium (Cs)-Dissolved			<0.0000005		mg/L		0.00001	18-NOV-20
Chromium (Cr)-Dissolved			<0.00001		mg/L		0.001	18-NOV-20
Cobalt (Co)-Dissolved			<0.000002		mg/L		0.0005	18-NOV-20
Copper (Cu)-Dissolved			<0.00002		mg/L		0.001	18-NOV-20
Iron (Fe)-Dissolved			<0.0005		mg/L		0.02	18-NOV-20
Lead (Pb)-Dissolved			<0.00001		mg/L		0.00005	18-NOV-20
Lithium (Li)-Dissolved			<0.0002		mg/L		0.05	18-NOV-20
Magnesium (Mg)-Dissolved			<0.0005		mg/L		0.02	18-NOV-20
Manganese (Mn)-Dissolved			<0.00002		mg/L		0.001	18-NOV-20
Molybdenum (Mo)-Dissolved			<0.000002		mg/L		0.001	18-NOV-20
Nickel (Ni)-Dissolved			<0.00002		mg/L		0.002	18-NOV-20
Phosphorus (P)-Dissolved			<0.005		mg/L		0.05	18-NOV-20
Potassium (K)-Dissolved			<0.01		mg/L		0.5	18-NOV-20
Rubidium (Rb)-Dissolved			0.000004		mg/L		0.0002	18-NOV-20
Selenium (Se)-Dissolved			<0.000005		mg/L		0.00005	18-NOV-20
Silicon (Si)-Dissolved			0.025		mg/L		0.05	18-NOV-20
Silver (Ag)-Dissolved			0.0000010		mg/L		0.0001	18-NOV-20
Sodium (Na)-Dissolved			0.005		mg/L		0.1	18-NOV-20
Strontium (Sr)-Dissolved			<0.00002		mg/L		0.001	18-NOV-20
Sulfur (S)-Dissolved			<0.2		mg/L		0.5	18-NOV-20
Tellurium (Te)-Dissolved			<0.00001		mg/L		0.001	18-NOV-20
Thallium (Tl)-Dissolved			<0.000002		mg/L		0.0003	18-NOV-20

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 14 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch	R5288640							
WG3447385-1 MB								
Thorium (Th)-Dissolved			<0.00001		mg/L		0.0001	18-NOV-20
Tin (Sn)-Dissolved			<0.000005		mg/L		0.001	18-NOV-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.002	18-NOV-20
Tungsten (W)-Dissolved			<0.000002		mg/L		0.01	18-NOV-20
Uranium (U)-Dissolved			<0.0000005		mg/L		0.005	18-NOV-20
Vanadium (V)-Dissolved			<0.00002		mg/L		0.001	18-NOV-20
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.003	18-NOV-20
Zirconium (Zr)-Dissolved			<0.000002		mg/L		0.001	18-NOV-20
WG3447385-5 MB								
Aluminum (Al)-Dissolved			0.0004		mg/L		0.005	18-NOV-20
Antimony (Sb)-Dissolved			<0.000005		mg/L		0.0006	18-NOV-20
Arsenic (As)-Dissolved			<0.0000002		mg/L		0.001	18-NOV-20
Barium (Ba)-Dissolved			<0.000005		mg/L		0.01	18-NOV-20
Beryllium (Be)-Dissolved			<0.000002		mg/L		0.001	18-NOV-20
Bismuth (Bi)-Dissolved			<0.000002		mg/L		0.001	18-NOV-20
Boron (B)-Dissolved			0.0005		mg/L		0.05	18-NOV-20
Cadmium (Cd)-Dissolved			<0.0000005		mg/L		0.000017	18-NOV-20
Calcium (Ca)-Dissolved			<0.002		mg/L		0.2	18-NOV-20
Cesium (Cs)-Dissolved			0.0000010		mg/L		0.00001	18-NOV-20
Chromium (Cr)-Dissolved			<0.00001		mg/L		0.001	18-NOV-20
Cobalt (Co)-Dissolved			<0.000002		mg/L		0.0005	18-NOV-20
Copper (Cu)-Dissolved			<0.00002		mg/L		0.001	18-NOV-20
Iron (Fe)-Dissolved			<0.0005		mg/L		0.02	18-NOV-20
Lead (Pb)-Dissolved			<0.00001		mg/L		0.00005	18-NOV-20
Lithium (Li)-Dissolved			<0.0002		mg/L		0.05	18-NOV-20
Magnesium (Mg)-Dissolved			<0.0005		mg/L		0.02	18-NOV-20
Manganese (Mn)-Dissolved			<0.00002		mg/L		0.001	18-NOV-20
Molybdenum (Mo)-Dissolved			<0.000002		mg/L		0.001	18-NOV-20
Nickel (Ni)-Dissolved			<0.00002		mg/L		0.002	18-NOV-20
Phosphorus (P)-Dissolved			<0.005		mg/L		0.05	18-NOV-20
Potassium (K)-Dissolved			<0.01		mg/L		0.5	18-NOV-20
Rubidium (Rb)-Dissolved			<0.000002		mg/L		0.0002	18-NOV-20
Selenium (Se)-Dissolved			<0.000005		mg/L		0.00005	18-NOV-20
Silicon (Si)-Dissolved			0.025		mg/L		0.05	18-NOV-20

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 15 of 27

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB	Effluent							
Batch	R5288640							
WG3447385-5	MB							
Silver (Ag)-Dissolved			0.0000010		mg/L		0.0001	18-NOV-20
Sodium (Na)-Dissolved			0.005		mg/L		0.1	18-NOV-20
Strontium (Sr)-Dissolved			<0.00002		mg/L		0.001	18-NOV-20
Sulfur (S)-Dissolved			<0.2		mg/L		0.5	18-NOV-20
Tellurium (Te)-Dissolved			<0.00001		mg/L		0.001	18-NOV-20
Thallium (Tl)-Dissolved			<0.000002		mg/L		0.0003	18-NOV-20
Thorium (Th)-Dissolved			<0.00001		mg/L		0.0001	18-NOV-20
Tin (Sn)-Dissolved			<0.000005		mg/L		0.001	18-NOV-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.002	18-NOV-20
Tungsten (W)-Dissolved			0.000002		mg/L		0.01	18-NOV-20
Uranium (U)-Dissolved			<0.0000005		mg/L		0.005	18-NOV-20
Vanadium (V)-Dissolved			<0.00002		mg/L		0.001	18-NOV-20
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.003	18-NOV-20
Zirconium (Zr)-Dissolved			<0.000002		mg/L		0.001	18-NOV-20
WG3447385-4	MS	L2529177-2						
Aluminum (Al)-Dissolved			115.3		%		70-130	18-NOV-20
Antimony (Sb)-Dissolved			110.2		%		70-130	18-NOV-20
Arsenic (As)-Dissolved			115.6		%		70-130	18-NOV-20
Barium (Ba)-Dissolved			114.9		%		70-130	18-NOV-20
Beryllium (Be)-Dissolved			112.4		%		70-130	18-NOV-20
Bismuth (Bi)-Dissolved			106.3		%		70-130	18-NOV-20
Boron (B)-Dissolved			110.1		%		70-130	18-NOV-20
Cadmium (Cd)-Dissolved			113.9		%		70-130	18-NOV-20
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	18-NOV-20
Cesium (Cs)-Dissolved			113.3		%		70-130	18-NOV-20
Chromium (Cr)-Dissolved			110.9		%		70-130	18-NOV-20
Cobalt (Co)-Dissolved			111.0		%		70-130	18-NOV-20
Copper (Cu)-Dissolved			112.7		%		70-130	18-NOV-20
Iron (Fe)-Dissolved			108.9		%		70-130	18-NOV-20
Lead (Pb)-Dissolved			109.3		%		70-130	18-NOV-20
Lithium (Li)-Dissolved			109.5		%		70-130	18-NOV-20
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	18-NOV-20
Manganese (Mn)-Dissolved			109.9		%		70-130	18-NOV-20
Molybdenum (Mo)-Dissolved			108.1		%		70-130	18-NOV-20

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 16 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB								
	Effluent							
Batch	R5288640							
WG3447385-4 MS		L2529177-2						
Nickel (Ni)-Dissolved			110.1		%		70-130	18-NOV-20
Phosphorus (P)-Dissolved			119.0		%		70-130	18-NOV-20
Potassium (K)-Dissolved			118.9		%		70-130	18-NOV-20
Rubidium (Rb)-Dissolved			113.4		%		70-130	18-NOV-20
Selenium (Se)-Dissolved			119.4		%		70-130	18-NOV-20
Silicon (Si)-Dissolved			87.8		%		70-130	18-NOV-20
Silver (Ag)-Dissolved			112.9		%		70-130	18-NOV-20
Sodium (Na)-Dissolved			108.9		%		70-130	18-NOV-20
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	18-NOV-20
Sulfur (S)-Dissolved			104.9		%		70-130	18-NOV-20
Tellurium (Te)-Dissolved			115.2		%		70-130	18-NOV-20
Thallium (Tl)-Dissolved			108.1		%		70-130	18-NOV-20
Thorium (Th)-Dissolved			112.6		%		70-130	18-NOV-20
Tin (Sn)-Dissolved			109.8		%		70-130	18-NOV-20
Titanium (Ti)-Dissolved			109.3		%		70-130	18-NOV-20
Tungsten (W)-Dissolved			108.1		%		70-130	18-NOV-20
Uranium (U)-Dissolved			110.2		%		70-130	18-NOV-20
Vanadium (V)-Dissolved			111.4		%		70-130	18-NOV-20
Zinc (Zn)-Dissolved			115.1		%		70-130	18-NOV-20
Zirconium (Zr)-Dissolved			110.5		%		70-130	18-NOV-20
Batch	R5291037							
WG3448747-1 MB								
Potassium (K)-Dissolved			<0.01		mg/L		0.5	19-NOV-20
MET-T-MISA-TB								
	Effluent							
Batch	R5287329							
WG3446267-11 DUP		L2529177-6						
Aluminum (Al)-Total		0.319	0.325		mg/L	1.7	20	17-NOV-20
Antimony (Sb)-Total		0.00446	0.00457		mg/L	2.4	20	17-NOV-20
Arsenic (As)-Total		0.00124	0.00119		mg/L	3.7	20	17-NOV-20
Barium (Ba)-Total		0.0319	0.0325		mg/L	1.7	20	17-NOV-20
Beryllium (Be)-Total		0.0000105	0.0000077	RPD-NA	mg/L	N/A	20	17-NOV-20
Bismuth (Bi)-Total		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	17-NOV-20
Boron (B)-Total		0.0315	0.0310	RPD-NA	mg/L	N/A	20	17-NOV-20

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 17 of 27

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5287329							
WG3446267-11 DUP	L2529177-6							
Cadmium (Cd)-Total		0.000010	0.000013	RPD-NA	mg/L	N/A	20	17-NOV-20
Calcium (Ca)-Total		53.6	54.4		mg/L	1.5	20	17-NOV-20
Cesium (Cs)-Total		0.0000455	0.0000455		mg/L	0.2	20	17-NOV-20
Chromium (Cr)-Total		0.00074	0.00076	RPD-NA	mg/L	N/A	20	17-NOV-20
Cobalt (Co)-Total		0.000585	0.000570		mg/L	2.7	20	17-NOV-20
Copper (Cu)-Total		0.00218	0.00216		mg/L	1.1	20	17-NOV-20
Iron (Fe)-Total		0.670	0.681		mg/L	1.7	20	17-NOV-20
Lead (Pb)-Total		0.00036	0.00036		mg/L	0.5	20	17-NOV-20
Lithium (Li)-Total		0.0068	0.0068	RPD-NA	mg/L	N/A	20	17-NOV-20
Magnesium (Mg)-Total		15.3	15.6		mg/L	1.8	20	17-NOV-20
Manganese (Mn)-Total		0.0428	0.0428		mg/L	0.1	20	17-NOV-20
Molybdenum (Mo)-Total		0.00285	0.00289		mg/L	1.3	20	17-NOV-20
Nickel (Ni)-Total		0.00172	0.00168	RPD-NA	mg/L	N/A	20	17-NOV-20
Phosphorus (P)-Total		0.015	0.015	RPD-NA	mg/L	N/A	20	17-NOV-20
Potassium (K)-Total		12.1	12.2		mg/L	1.3	20	17-NOV-20
Rubidium (Rb)-Total		0.00631	0.00663		mg/L	5.0	20	17-NOV-20
Selenium (Se)-Total		0.000105	0.000140	J	mg/L	0.000037	0.0001	17-NOV-20
Silicon (Si)-Total		4.10	4.23		mg/L	3.1	20	17-NOV-20
Silver (Ag)-Total		0.000001	0.000001	RPD-NA	mg/L	N/A	20	17-NOV-20
Sodium (Na)-Total		25.5	26.6		mg/L	4.0	20	17-NOV-20
Strontium (Sr)-Total		0.168	0.171		mg/L	1.9	20	17-NOV-20
Sulfur (S)-Total		47.8	49.8		mg/L	4.0	20	17-NOV-20
Tellurium (Te)-Total		<0.00002	0.00002	RPD-NA	mg/L	N/A	20	17-NOV-20
Thallium (Tl)-Total		0.000005	0.000010	RPD-NA	mg/L	N/A	20	17-NOV-20
Thorium (Th)-Total		0.00010	0.00010	RPD-NA	mg/L	N/A	20	17-NOV-20
Tin (Sn)-Total		0.00003	0.00003	RPD-NA	mg/L	N/A	20	17-NOV-20
Titanium (Ti)-Total		0.0113	0.0107		mg/L	4.8	20	17-NOV-20
Tungsten (W)-Total		0.00002	0.00002	RPD-NA	mg/L	N/A	20	17-NOV-20
Uranium (U)-Total		0.00115	0.00112	RPD-NA	mg/L	N/A	20	17-NOV-20
Vanadium (V)-Total		0.00135	0.00130		mg/L	2.3	20	17-NOV-20
Zinc (Zn)-Total		0.0030	0.0025	RPD-NA	mg/L	N/A	20	17-NOV-20
Zirconium (Zr)-Total		0.000570	0.000600	RPD-NA	mg/L	N/A	20	17-NOV-20

WG3446267-10 LCS

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 18 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5287329							
WG3446267-10 LCS								
Aluminum (Al)-Total			100.8		%		80-120	17-NOV-20
Antimony (Sb)-Total			103.6		%		80-120	17-NOV-20
Arsenic (As)-Total			103.2		%		80-120	17-NOV-20
Barium (Ba)-Total			101.1		%		80-120	17-NOV-20
Beryllium (Be)-Total			100.7		%		80-120	17-NOV-20
Bismuth (Bi)-Total			104.0		%		80-120	17-NOV-20
Boron (B)-Total			89.8		%		80-120	17-NOV-20
Cadmium (Cd)-Total			102.4		%		80-120	17-NOV-20
Calcium (Ca)-Total			101.9		%		80-120	17-NOV-20
Cesium (Cs)-Total			103.1		%		80-120	17-NOV-20
Chromium (Cr)-Total			101.0		%		80-120	17-NOV-20
Cobalt (Co)-Total			99.8		%		80-120	17-NOV-20
Copper (Cu)-Total			97.0		%		80-120	17-NOV-20
Iron (Fe)-Total			122.5	MES	%		80-120	17-NOV-20
Lead (Pb)-Total			102.0		%		80-120	17-NOV-20
Lithium (Li)-Total			95.8		%		80-120	17-NOV-20
Magnesium (Mg)-Total			102.8		%		80-120	17-NOV-20
Manganese (Mn)-Total			99.4		%		80-120	17-NOV-20
Molybdenum (Mo)-Total			102.6		%		80-120	17-NOV-20
Nickel (Ni)-Total			96.6		%		80-120	17-NOV-20
Phosphorus (P)-Total			104.5		%		80-120	17-NOV-20
Potassium (K)-Total			104.9		%		80-120	17-NOV-20
Rubidium (Rb)-Total			102.8		%		80-120	17-NOV-20
Selenium (Se)-Total			101.6		%		80-120	17-NOV-20
Silicon (Si)-Total			102.0		%		80-120	17-NOV-20
Silver (Ag)-Total			103.9		%		80-120	17-NOV-20
Sodium (Na)-Total			103.4		%		80-120	17-NOV-20
Strontium (Sr)-Total			101.0		%		80-120	17-NOV-20
Sulfur (S)-Total			90.8		%		80-120	17-NOV-20
Tellurium (Te)-Total			103.7		%		80-120	17-NOV-20
Thallium (Tl)-Total			102.3		%		80-120	17-NOV-20
Thorium (Th)-Total			102.0		%		80-120	17-NOV-20
Tin (Sn)-Total			101.6		%		80-120	17-NOV-20

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 19 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5287329							
WG3446267-10 LCS								
Titanium (Ti)-Total			97.8		%		80-120	17-NOV-20
Tungsten (W)-Total			102.4		%		80-120	17-NOV-20
Uranium (U)-Total			104.0		%		80-120	17-NOV-20
Vanadium (V)-Total			99.0		%		80-120	17-NOV-20
Zinc (Zn)-Total			97.4		%		80-120	17-NOV-20
Zirconium (Zr)-Total			103.2		%		80-120	17-NOV-20
WG3446267-9 MB								
Aluminum (Al)-Total			0.0010		mg/L		0.005	17-NOV-20
Antimony (Sb)-Total			0.000005		mg/L		0.0006	17-NOV-20
Arsenic (As)-Total			0.00007		mg/L		0.001	17-NOV-20
Barium (Ba)-Total			0.00001		mg/L		0.01	17-NOV-20
Beryllium (Be)-Total			<0.0000001		mg/L		0.001	17-NOV-20
Bismuth (Bi)-Total			<0.00001		mg/L		0.001	17-NOV-20
Boron (B)-Total			0.0010		mg/L		0.05	17-NOV-20
Cadmium (Cd)-Total			<0.000001		mg/L		0.000017	17-NOV-20
Calcium (Ca)-Total			0.004		mg/L		0.2	17-NOV-20
Cesium (Cs)-Total			0.0000010		mg/L		0.00001	17-NOV-20
Chromium (Cr)-Total			<0.00002		mg/L		0.001	17-NOV-20
Cobalt (Co)-Total			<0.000005		mg/L		0.0005	17-NOV-20
Copper (Cu)-Total			0.00002		mg/L		0.001	17-NOV-20
Iron (Fe)-Total			0.0010		mg/L		0.02	17-NOV-20
Lead (Pb)-Total			<0.00001		mg/L		0.00005	17-NOV-20
Lithium (Li)-Total			<0.0002		mg/L		0.05	17-NOV-20
Magnesium (Mg)-Total			0.0008		mg/L		0.02	17-NOV-20
Manganese (Mn)-Total			<0.0002		mg/L		0.001	17-NOV-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.001	17-NOV-20
Nickel (Ni)-Total			<0.00002		mg/L		0.002	17-NOV-20
Phosphorus (P)-Total			0.005		mg/L		0.05	17-NOV-20
Potassium (K)-Total			<0.01		mg/L		0.5	17-NOV-20
Rubidium (Rb)-Total			0.000002		mg/L		0.0002	17-NOV-20
Selenium (Se)-Total			0.000020		mg/L		0.00005	17-NOV-20
Silicon (Si)-Total			0.038		mg/L		0.1	17-NOV-20
Silver (Ag)-Total			0.000001		mg/L		0.0001	17-NOV-20
Sodium (Na)-Total			0.015		mg/L		0.1	17-NOV-20

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 20 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R5287329							
WG3446267-9 MB								
Strontium (Sr)-Total			0.000005		mg/L		0.001	17-NOV-20
Sulfur (S)-Total			<0.2		mg/L		0.5	17-NOV-20
Tellurium (Te)-Total			<0.00002		mg/L		0.001	17-NOV-20
Thallium (Tl)-Total			<0.000005		mg/L		0.0003	17-NOV-20
Thorium (Th)-Total			<0.00001		mg/L		0.0001	17-NOV-20
Tin (Sn)-Total			<0.00001		mg/L		0.001	17-NOV-20
Titanium (Ti)-Total			0.00003		mg/L		0.002	17-NOV-20
Tungsten (W)-Total			<0.00001		mg/L		0.01	17-NOV-20
Uranium (U)-Total			<0.0000005		mg/L		0.005	17-NOV-20
Vanadium (V)-Total			0.00035		mg/L		0.001	17-NOV-20
Zinc (Zn)-Total			0.0005		mg/L		0.003	17-NOV-20
Zirconium (Zr)-Total			<0.000002		mg/L		0.001	17-NOV-20
WG3446267-12 MS		L2529177-7						
Antimony (Sb)-Total			104.5		%		70-130	17-NOV-20
Arsenic (As)-Total			106.6		%		70-130	17-NOV-20
Barium (Ba)-Total			107.5		%		70-130	17-NOV-20
Beryllium (Be)-Total			101.4		%		70-130	17-NOV-20
Bismuth (Bi)-Total			108.5		%		70-130	17-NOV-20
Boron (B)-Total			95.6		%		70-130	17-NOV-20
Cadmium (Cd)-Total			107.9		%		70-130	17-NOV-20
Calcium (Ca)-Total			N/A	MS-B	%		-	17-NOV-20
Cesium (Cs)-Total			107.0		%		70-130	17-NOV-20
Chromium (Cr)-Total			105.7		%		70-130	17-NOV-20
Cobalt (Co)-Total			104.0		%		70-130	17-NOV-20
Copper (Cu)-Total			104.6		%		70-130	17-NOV-20
Iron (Fe)-Total			104.4		%		70-130	17-NOV-20
Lead (Pb)-Total			107.6		%		70-130	17-NOV-20
Lithium (Li)-Total			92.6		%		70-130	17-NOV-20
Magnesium (Mg)-Total			N/A	MS-B	%		-	17-NOV-20
Manganese (Mn)-Total			102.0		%		70-130	17-NOV-20
Molybdenum (Mo)-Total			107.6		%		70-130	17-NOV-20
Nickel (Ni)-Total			101.9		%		70-130	17-NOV-20
Phosphorus (P)-Total			103.1		%		70-130	17-NOV-20
Potassium (K)-Total			104.9		%		70-130	17-NOV-20

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 21 of 27

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R5287329							
WG3446267-12 MS		L2529177-7						
Rubidium (Rb)-Total			106.0		%		70-130	17-NOV-20
Selenium (Se)-Total			106.3		%		70-130	17-NOV-20
Silicon (Si)-Total			100.2		%		70-130	17-NOV-20
Silver (Ag)-Total			106.4		%		70-130	17-NOV-20
Sodium (Na)-Total			N/A	MS-B	%		-	17-NOV-20
Strontium (Sr)-Total			N/A	MS-B	%		-	17-NOV-20
Sulfur (S)-Total			104.4		%		70-130	17-NOV-20
Tellurium (Te)-Total			101.0		%		70-130	17-NOV-20
Thallium (Tl)-Total			106.5		%		70-130	17-NOV-20
Thorium (Th)-Total			110.6		%		70-130	17-NOV-20
Tin (Sn)-Total			102.8		%		70-130	17-NOV-20
Titanium (Ti)-Total			106.1		%		70-130	17-NOV-20
Tungsten (W)-Total			106.9		%		70-130	17-NOV-20
Uranium (U)-Total			109.6		%		70-130	17-NOV-20
Vanadium (V)-Total			103.4		%		70-130	17-NOV-20
Zinc (Zn)-Total			100.0		%		70-130	17-NOV-20
Zirconium (Zr)-Total			107.9		%		70-130	17-NOV-20
Batch	R5288597							
WG3447160-2 LCS								
Aluminum (Al)-Total			107.7		%		80-120	18-NOV-20
Antimony (Sb)-Total			109.7		%		80-120	18-NOV-20
Arsenic (As)-Total			109.3		%		80-120	18-NOV-20
Barium (Ba)-Total			106.2		%		80-120	18-NOV-20
Beryllium (Be)-Total			104.2		%		80-120	18-NOV-20
Bismuth (Bi)-Total			106.0		%		80-120	18-NOV-20
Boron (B)-Total			99.4		%		80-120	18-NOV-20
Cadmium (Cd)-Total			104.5		%		80-120	18-NOV-20
Calcium (Ca)-Total			103.5		%		80-120	18-NOV-20
Cesium (Cs)-Total			107.4		%		80-120	18-NOV-20
Chromium (Cr)-Total			102.2		%		80-120	18-NOV-20
Cobalt (Co)-Total			104.7		%		80-120	18-NOV-20
Copper (Cu)-Total			104.1		%		80-120	18-NOV-20
Iron (Fe)-Total			127.6	MES	%		80-120	18-NOV-20
Lead (Pb)-Total			104.7		%		80-120	18-NOV-20

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 22 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5288597							
WG3447160-2	LCS							
Lithium (Li)-Total			106.6		%		80-120	18-NOV-20
Magnesium (Mg)-Total			109.1		%		80-120	18-NOV-20
Manganese (Mn)-Total			103.5		%		80-120	18-NOV-20
Molybdenum (Mo)-Total			105.5		%		80-120	18-NOV-20
Nickel (Ni)-Total			102.2		%		80-120	18-NOV-20
Phosphorus (P)-Total			109.2		%		80-120	18-NOV-20
Potassium (K)-Total			111.9		%		80-120	18-NOV-20
Rubidium (Rb)-Total			108.2		%		80-120	18-NOV-20
Selenium (Se)-Total			108.1		%		80-120	18-NOV-20
Silicon (Si)-Total			107.9		%		80-120	18-NOV-20
Silver (Ag)-Total			106.7		%		80-120	18-NOV-20
Sodium (Na)-Total			105.1		%		80-120	18-NOV-20
Strontium (Sr)-Total			105.3		%		80-120	18-NOV-20
Sulfur (S)-Total			83.8		%		80-120	18-NOV-20
Tellurium (Te)-Total			112.2		%		80-120	18-NOV-20
Thallium (Tl)-Total			104.7		%		80-120	18-NOV-20
Thorium (Th)-Total			105.4		%		80-120	18-NOV-20
Tin (Sn)-Total			103.8		%		80-120	18-NOV-20
Titanium (Ti)-Total			101.5		%		80-120	18-NOV-20
Tungsten (W)-Total			104.9		%		80-120	18-NOV-20
Uranium (U)-Total			107.3		%		80-120	18-NOV-20
Vanadium (V)-Total			104.8		%		80-120	18-NOV-20
Zinc (Zn)-Total			103.6		%		80-120	18-NOV-20
Zirconium (Zr)-Total			106.2		%		80-120	18-NOV-20
WG3447160-1	MB							
Aluminum (Al)-Total			0.0008		mg/L		0.005	18-NOV-20
Antimony (Sb)-Total			0.000020		mg/L		0.0006	18-NOV-20
Arsenic (As)-Total			0.00005		mg/L		0.001	18-NOV-20
Barium (Ba)-Total			<0.00001		mg/L		0.01	18-NOV-20
Beryllium (Be)-Total			<0.0000001		mg/L		0.001	18-NOV-20
Bismuth (Bi)-Total			<0.00001		mg/L		0.001	18-NOV-20
Boron (B)-Total			<0.0005		mg/L		0.05	18-NOV-20
Cadmium (Cd)-Total			<0.000001		mg/L		0.000017	18-NOV-20
Calcium (Ca)-Total			<0.002		mg/L		0.2	18-NOV-20

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 23 of 27

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5288597							
WG3447160-1 MB								
Cesium (Cs)-Total			<0.0000005		mg/L		0.00001	18-NOV-20
Chromium (Cr)-Total			<0.00002		mg/L		0.001	18-NOV-20
Cobalt (Co)-Total			<0.000005		mg/L		0.0005	18-NOV-20
Copper (Cu)-Total			0.00002		mg/L		0.001	18-NOV-20
Iron (Fe)-Total			<0.0005		mg/L		0.02	18-NOV-20
Lead (Pb)-Total			<0.00001		mg/L		0.00005	18-NOV-20
Lithium (Li)-Total			<0.0002		mg/L		0.05	18-NOV-20
Magnesium (Mg)-Total			0.0006		mg/L		0.02	18-NOV-20
Manganese (Mn)-Total			<0.0002		mg/L		0.001	18-NOV-20
Molybdenum (Mo)-Total			<0.000005		mg/L		0.001	18-NOV-20
Nickel (Ni)-Total			<0.00002		mg/L		0.002	18-NOV-20
Phosphorus (P)-Total			<0.005		mg/L		0.05	18-NOV-20
Potassium (K)-Total			<0.01		mg/L		0.5	18-NOV-20
Rubidium (Rb)-Total			<0.000002		mg/L		0.0002	18-NOV-20
Selenium (Se)-Total			0.000025		mg/L		0.00005	18-NOV-20
Silicon (Si)-Total			0.070		mg/L		0.1	18-NOV-20
Silver (Ag)-Total			<0.000001		mg/L		0.0001	18-NOV-20
Sodium (Na)-Total			0.010		mg/L		0.1	18-NOV-20
Strontium (Sr)-Total			0.000005		mg/L		0.001	18-NOV-20
Sulfur (S)-Total			<0.2		mg/L		0.5	18-NOV-20
Tellurium (Te)-Total			<0.00002		mg/L		0.001	18-NOV-20
Thallium (Tl)-Total			<0.000005		mg/L		0.0003	18-NOV-20
Thorium (Th)-Total			<0.00001		mg/L		0.0001	18-NOV-20
Tin (Sn)-Total			<0.00001		mg/L		0.001	18-NOV-20
Titanium (Ti)-Total			0.00002		mg/L		0.002	18-NOV-20
Tungsten (W)-Total			<0.00001		mg/L		0.01	18-NOV-20
Uranium (U)-Total			<0.0000005		mg/L		0.005	18-NOV-20
Vanadium (V)-Total			0.00015		mg/L		0.001	18-NOV-20
Zinc (Zn)-Total			<0.0005		mg/L		0.003	18-NOV-20
Zirconium (Zr)-Total			<0.000002		mg/L		0.001	18-NOV-20

NH3-MISA-F-TB **Effluent**

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 24 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-MISA-F-TB		Effluent						
Batch	R5289379							
WG3445251-3	DUP	L2529171-1						
Ammonia, Total (as N)		0.016	0.014		mg/L	6.6	20	19-NOV-20
WG3445252-3	DUP	L2529177-16						
Ammonia, Total (as N)		0.002	0.006	RPD-NA	mg/L	N/A	20	19-NOV-20
WG3445251-2	LCS							
Ammonia, Total (as N)			91.3		%		85-115	19-NOV-20
WG3445252-2	LCS							
Ammonia, Total (as N)			99.6		%		85-115	19-NOV-20
WG3445251-1	MB							
Ammonia, Total (as N)			<0.002		mg/L		0.005	19-NOV-20
WG3445252-1	MB							
Ammonia, Total (as N)			<0.002		mg/L		0.005	19-NOV-20
WG3445252-4	MS	L2529177-15						
Ammonia, Total (as N)			101.1		%		75-125	19-NOV-20
NO2-MISA-IC-TB		Effluent						
Batch	R5285959							
WG3444730-3	DUP	L2529177-20						
Nitrite (as N)		0.023	0.013	RPD-NA	mg/L	N/A	20	14-NOV-20
WG3444730-2	LCS							
Nitrite (as N)			104.8		%		90-110	14-NOV-20
WG3444730-1	MB							
Nitrite (as N)			<0.001		mg/L		0.01	14-NOV-20
WG3444730-4	MS	L2529177-19						
Nitrite (as N)			N/A	MS-B	%		-	14-NOV-20
NO3-MISA-IC-TB		Effluent						
Batch	R5285959							
WG3444730-3	DUP	L2529177-20						
Nitrate (as N)		5.80	5.20		mg/L	11	20	14-NOV-20
WG3444730-2	LCS							
Nitrate (as N)			107.7		%		90-110	14-NOV-20
WG3444730-1	MB							
Nitrate (as N)			0.004		mg/L		0.02	14-NOV-20
WG3444730-4	MS	L2529177-19						
Nitrate (as N)			N/A	MS-B	%		-	14-NOV-20
OGG-TOT-WT		Effluent						

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 25 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OGG-TOT-WT		Effluent						
Batch	R5287176							
WG3446926-2	LCS							
Oil and Grease, Total			93.6		%		50-150	18-NOV-20
WG3446926-1	MB							
Oil and Grease, Total			0.8		mg/L		1	18-NOV-20
Batch	R5287891							
WG3447440-2	LCS							
Oil and Grease, Total			90.4		%		50-150	18-NOV-20
WG3447440-1	MB							
Oil and Grease, Total			0.4		mg/L		1	18-NOV-20
P-T-MISA-COL-TB		Effluent						
Batch	R5287388							
WG3445258-3	DUP	L2529171-1						
Phosphorus (P)-Total		0.0080	0.0080		mg/L	0.0	20	17-NOV-20
WG3445258-2	LCS							
Phosphorus (P)-Total			102.9		%		80-120	17-NOV-20
WG3445258-1	MB							
Phosphorus (P)-Total			0.0020		mg/L		0.003	17-NOV-20
PH-MISA-TB		Effluent						
Batch	R5285713							
WG3444688-3	DUP	L2529177-3						
pH		7.99	8.01	J	pH	0.02	0.2	14-NOV-20
WG3444688-2	LCS							
pH			6.99		pH		6.9-7.1	14-NOV-20
SO4-MISA-IC-TB		Effluent						
Batch	R5285959							
WG3444730-3	DUP	L2529177-20						
Sulfate (SO4)		757	664		mg/L	13	20	14-NOV-20
WG3444730-2	LCS							
Sulfate (SO4)			108.1		%		90-110	14-NOV-20
WG3444730-1	MB							
Sulfate (SO4)			0.15		mg/L		0.3	14-NOV-20
WG3444730-4	MS	L2529177-19						
Sulfate (SO4)			N/A	MS-B	%		-	14-NOV-20
TDS-MISA-TB		Effluent						

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Page 26 of 27

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TDS-MISA-TB								
Batch R5286672								
WG3445618-2	LCS							
Total Dissolved Solids			97.7		%		85-115	16-NOV-20
WG3445618-1	MB							
Total Dissolved Solids			6		mg/L		10	16-NOV-20
Batch R5287459								
WG3446531-3	DUP	L2529177-14						
Total Dissolved Solids		290	284		mg/L	2.4	20	17-NOV-20
WG3446531-2	LCS							
Total Dissolved Solids			99.2		%		85-115	17-NOV-20
WG3446531-1	MB							
Total Dissolved Solids			6		mg/L		10	17-NOV-20
TSS-MISA-TB								
Batch R5286593								
WG3445620-2	LCS							
Total Suspended Solids			93.2		%		85-115	16-NOV-20
WG3445620-1	MB							
Total Suspended Solids			<0.5		mg/L		3	16-NOV-20
Batch R5287338								
WG3446530-3	DUP	L2529177-14						
Total Suspended Solids		2.0	2.0	RPD-NA	mg/L	N/A	20	17-NOV-20
WG3446530-2	LCS							
Total Suspended Solids			94.7		%		85-115	17-NOV-20
WG3446530-1	MB							
Total Suspended Solids			<0.5		mg/L		3	17-NOV-20

Quality Control Report

Workorder: L2529177

Report Date: 11-DEC-20

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Amanda Jacobs

Page 27 of 27

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
J	Duplicate results and limits are expressed in terms of absolute difference.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



L2529177-COFC

y

CHAIN OF CUSTODY RECORD - ALS-44147500

L2529177

Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 11/12/2020 12:00:00 PM COC Number: ALS-44147500						Containers Internal SW Kit Ra-226 Bottle																			
						Filtered Y N N																			
						Preservatives NG-OIM-P-TB NG-SW-P-TB RA226-MIMER-BE																			
Sample Code				Date and Time	Matrix																	Number of Containers	Comments		
FB_SW_20201110				11/10/2020 12:00	SW		X															11			
SW02_SW_20201110	0	6.46	0.85	11/10/2020 14:30	SW		X															11			
SW03_SW_20201110	6.49	7.43	2.97	11/10/2020 10:00	SW		X															11			
SW06_SW_20201110	6.49	7.43	2.97	11/10/2020 12:00	SW		X															11			
SW10_SW_20201110	5.34	7.4	1.81	11/10/2020 15:00	SW		X															11			
SW15_SW_20201110	0	7.24	0.67	11/10/2020 10:45	SW		X															11			

Signature Shipped by <original signed by>		Date/Time 11/12/2020 12:00:00 PM	Shipping Details Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone:	ATTN	Special Instructions: Email Invoice to: <rainyriver.accounts1@newgold.com> Email Report to: rainyriver.labresults@newgold.com>
Received by y 2020 11.13. @ 9:04AM					

temp: 5.6

AC



L2529177-COFC

CHAIN OF CUSTODY RECORD - ALS-44147500

Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 11/12/2020 12:00:00 PM COC Number: ALS-44147500						Containers Filtered Preservatives			Internal	SW Kit	Ra-226 Bottle													
						Y	N	N																
						NG-OIM-P-TB	NG-SW-P-TB	RA226-MMER-BE																
Sample Code				Date and Time	Matrix																			
SW16_SW_202 01110	3.64	6.93	2.98	11/10/2020 13:00	SW		X												11					
SW17_SW_202 01110	4.72	7.41	3.67	11/10/2020 11:30	SW		X												11					
SW20_SW_202 01110	2.83	7.14	2.38	11/10/2020 14:30	SW		X	X											12					
SW21A_SW_20 201110	3.38	7.23	1.81	11/10/2020 11:00	SW		X												11					
SW22A_SW_20 201110	6.03	7.46	1.43	11/10/2020 11:40	SW		X	X											12					
SW23_SW_202 01110	0	6.87	2.69	11/10/2020 09:50	SW		X	X											12					

Signature	Date/Time	Shipping Details		ATTN	Special Instructions:
		Method of Shipment: Courier			
Shipped by	11/12/2020 12:00:00 PM	On Ice: yes / no			Email Invoice to: <rainyriver.accounts1@newgold.com> Email Report to: rainyriver.labresults@newgold.com>
Received by		Shipped: Air/Ground			
		Lab Name: ALS Thunder Bay			
		Lab Phone:			



Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 11/12/2020 12:00:00 PM COC Number: ALS-44147500	Containers						Internal	SW Kit	Ra-226 Bottle												Number of Containers	
	Filtered						Y	N	N													
	Preservatives																					
							NG-OIM-P-TB	NG-SW-P-TB	RA226-MMER-BE													
Sample Code				Date and Time	Matrix																Number of Containers	Comments
SW24_SW_20201110	1.97	6.32	4.15	11/10/2020 09:35	SW		X	X													12	
SW25_SW_20201110	266	7.39	0.5	11/10/2020 15:30	SW		X														11	
SW26_SW_20201110	6.48	7.49	0.87	11/10/2020 15:55	SW		X														11	
SW27_SW_20201110	4.5	7.49	0.85	11/10/2020 11:20	SW		X														11	
SW28A_SW_20201110	5.4	7.81	0.89	11/10/2020 15:25	SW		X														11	
TB_SW_20201110				11/12/2020 11:59	SW		X														11	

Signature	Data/Time	Shipping Details	ATTN	Special Instructions:
Shipped by <original signed by>	11/12/2020 12:00:00 PM	Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone:		Email Invoice to: <rainyriver.accounts1@newgold.com> Email Report to: rainyriver.labresults@newgold.com>
Received by				



Project Name: Rainy Riv. Location: Chapple Project Number: Project Manager: PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 11/12/2020 12:00:00 PM COC Number: ALS-44147500					Containers Filtered Preservatives			<table border="1"> <tr> <td>Internal</td> <td>SW Kit</td> <td>Ra-226 Bottle</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Y</td> <td>N</td> <td>N</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>NG-OIM-P-TB</td> <td>NG-SW-P-TB</td> <td>RA226-MMER-BE</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>													Internal	SW Kit	Ra-226 Bottle																			Y	N	N																			NG-OIM-P-TB	NG-SW-P-TB	RA226-MMER-BE																			Number of Containers	Comments
Internal	SW Kit	Ra-226 Bottle																																																																																			
Y	N	N																																																																																			
NG-OIM-P-TB	NG-SW-P-TB	RA226-MMER-BE																																																																																			
Sample Code				Date and Time	Matrix	NG-OIM-P-TB	NG-SW-P-TB	RA226-MMER-BE																																																																													
TMA CELL 2_EFF_202011 11	2.52	7.74	2.52	11/11/2020 15:00	EFF	X																																																																															
WMP_EFF_202 01111	6.55	7.97	2.06	11/11/2020 14:45	EFF	X																																																																															

Shipped by Received by	Signature <original signed by>	Data/Time 11/12/2020 12:00:00 PM	Shipping Details Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone:	ATTN	Special Instructions:
					Email Invoice to: <rainyriver.accounts1@newgold.com> Email Report to: rainyriver.labresults@newgold.com>

Client: New Gold



L2529177-COFC

Sample Layout Verification: Verified By: Y Date: 2020 11 13 Time: 11:13 Sample Integ... Enter information on back page

Labels Verification: Verified By: Y Do any samples require prep?
 NO P F/P DOC

Sample #:																						
1L	Plastic																					
500mL	Plastic																					
250mL	Plastic																					
145mL	Plastic																					
60mL	Plastic																					
Micro																						
Toxicity Pail																						
1L	Glass																					
500mL	Glass																					
250mL	Glass																					
120mL	Glass																					
60mL	Glass																					
40mL	Vial (Glass)																					
40mL	Methanol Vials																					
Soil Jar (120, 250 or 500mL)																						
Other:																						
Other:																						
Total Number of Bottles																						

Trip/Travel/Field Blank Information

Solids Batch#: 459 Metals Batch#: T: 502 D: 502

Routine Batch#: 459 Mercury Batch#: T: 503 D: 503

BOD Batch#: in house 105528 Cyanide Batch#: 105514 T: D:

Nutrients Batch#: 500 OGG Batch#: 105489

DOC/Carbon Batch#: 501 Phenols Batch#:

VOC Batch#:

Other: TOC: 500

COOLER TRACKING

EPP _____ Coleman _____


Small _____ Micro (5QT) _____

Med _____ Sm(9QT) _____

Lrg _____ Med(16QT) _____

Micro Box _____ Lrg(28QT) _____

_____ Lrg(48QT) _____



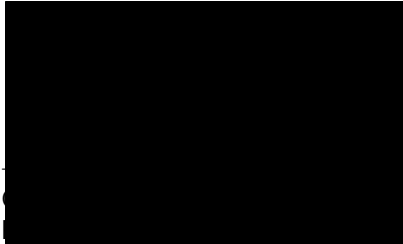
New Gold Inc. Rainy River Project
ATTN: Amanda Jacobs
24 Marr Rd
Barwick ON POW 1A0

Date Received: 18-DEC-20
Report Date: 19-JAN-21 14:58 (MT)
Version: FINAL

Client Phone: 807-482-0931

Certificate of Analysis

Lab Work Order #: L2541819
Project P.O. #: 4500038941
Job Reference:
C of C Numbers:
Legal Site Desc:



[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3, Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598



ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-1 FB_SW_20201208							
Sampled By: Client on 15-DEC-20 @ 12:00							
Matrix: QC							
Physical Tests							
Color, True	<2.0		2.0	CU		18-DEC-20	R5319494
Conductivity (EC)	0.2	<DL	1.0	uS/cm		18-DEC-20	R5319638
Hardness (as CaCO3)	<0.51		0.51	mg/L		31-DEC-20	
pH	6.11		0.10	pH		18-DEC-20	R5319638
Total Suspended Solids	<0.5	<W	3.0	mg/L		18-DEC-20	R5320265
Total Dissolved Solids	4	<DL	10	mg/L		18-DEC-20	R5320048
Turbidity	<0.10		0.10	NTU		18-DEC-20	R5319368
Anions and Nutrients							
Acidity (as CaCO3)	0.4	<DL	2.0	mg/L		18-DEC-20	R5319638
Alkalinity, Total (as CaCO3)	0.4	<DL	2.0	mg/L		19-DEC-20	R5319962
Ammonia, Total (as N)	<0.002	<W	0.020	mg/L		23-DEC-20	R5324536
Chloride (Cl)	<0.10		0.10	mg/L	18-DEC-20	18-DEC-20	R5319944
Fluoride (F)	<0.020		0.020	mg/L	18-DEC-20	18-DEC-20	R5319944
Nitrate (as N)	<0.002	<W	0.020	mg/L		18-DEC-20	R5319944
Nitrite (as N)	<0.001	<W	0.010	mg/L		18-DEC-20	R5319944
Total Kjeldahl Nitrogen	<0.05	<W	0.18	mg/L	30-DEC-20	30-DEC-20	R5328938
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	18-DEC-20	21-DEC-20	R5320130
Sulfate (SO4)	<0.05	<W	0.30	mg/L		18-DEC-20	R5319944
Cyanides							
Cyanide, Weak Acid Diss	<0.0001	<W	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Total	0.0006	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Free	0.0003	<DL	0.0020	mg/L		23-DEC-20	R5324599
Organic / Inorganic Carbon							
Dissolved Organic Carbon	0.86		0.50	mg/L	15-DEC-20	28-DEC-20	R5325676
Total Organic Carbon	2.08		0.50	mg/L		28-DEC-20	R5324442
Total Metals							
Aluminum (Al)-Total	0.0014	<DL	0.0050	mg/L		30-DEC-20	R5329636
Antimony (Sb)-Total	0.000010	<DL	0.00060	mg/L		30-DEC-20	R5329636
Arsenic (As)-Total	<0.00001	<W	0.0010	mg/L		30-DEC-20	R5329636
Barium (Ba)-Total	0.00002	<DL	0.010	mg/L		30-DEC-20	R5329636
Beryllium (Be)-Total	0.0000010	<DL	0.0010	mg/L		30-DEC-20	R5329636
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		30-DEC-20	R5329636
Boron (B)-Total	0.0055	<DL	0.050	mg/L		30-DEC-20	R5329636
Cadmium (Cd)-Total	<0.000001	<W	0.000017	mg/L		30-DEC-20	R5329636
Calcium (Ca)-Total	0.028	<DL	0.20	mg/L		30-DEC-20	R5329636
Cesium (Cs)-Total	<0.0000005	<W	0.000010	mg/L		30-DEC-20	R5329636
Chromium (Cr)-Total	0.00016	<DL	0.0010	mg/L		30-DEC-20	R5329636
Cobalt (Co)-Total	<0.000005	<W	0.00050	mg/L		30-DEC-20	R5329636
Copper (Cu)-Total	<0.00002	<W	0.0010	mg/L		30-DEC-20	R5329636
Iron (Fe)-Total	<0.0005	<W	0.020	mg/L		30-DEC-20	R5329636
Lead (Pb)-Total	<0.00001	<W	0.000050	mg/L		30-DEC-20	R5329636
Lithium (Li)-Total	<0.0002	<W	0.050	mg/L		30-DEC-20	R5329636

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-1 FB_SW_20201208							
Sampled By: Client on 15-DEC-20 @ 12:00							
Matrix: QC							
Total Metals							
Magnesium (Mg)-Total	0.0014	<DL	0.020	mg/L		30-DEC-20	R5329636
Manganese (Mn)-Total	<0.0002	<W	0.0010	mg/L		30-DEC-20	R5329636
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321840
Molybdenum (Mo)-Total	<0.000005	<W	0.0010	mg/L		30-DEC-20	R5329636
Nickel (Ni)-Total	<0.00002	<W	0.0020	mg/L		30-DEC-20	R5329636
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		30-DEC-20	R5329636
Potassium (K)-Total	<0.01	<W	0.50	mg/L		30-DEC-20	R5329636
Rubidium (Rb)-Total	0.000004	<DL	0.00020	mg/L		30-DEC-20	R5329636
Selenium (Se)-Total	0.000015	<DL	0.000050	mg/L		30-DEC-20	R5329636
Silicon (Si)-Total	0.142		0.10	mg/L		30-DEC-20	R5329636
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		30-DEC-20	R5329636
Sodium (Na)-Total	0.065	<DL	0.10	mg/L		30-DEC-20	R5329636
Strontium (Sr)-Total	0.000045	<DL	0.0010	mg/L		30-DEC-20	R5329636
Sulfur (S)-Total	<0.2	<W	0.50	mg/L		30-DEC-20	R5329636
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		30-DEC-20	R5329636
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		30-DEC-20	R5329636
Thorium (Th)-Total	<0.00001	<W	0.00010	mg/L		30-DEC-20	R5329636
Tin (Sn)-Total	0.00005	<DL	0.0010	mg/L		30-DEC-20	R5329636
Titanium (Ti)-Total	0.00004	<DL	0.0020	mg/L		30-DEC-20	R5329636
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		30-DEC-20	R5329636
Uranium (U)-Total	<0.0000005	<W	0.0050	mg/L		30-DEC-20	R5329636
Vanadium (V)-Total	<0.00005	<W	0.0010	mg/L		30-DEC-20	R5329636
Zinc (Zn)-Total	0.0010	<DL	0.0030	mg/L		30-DEC-20	R5329636
Zirconium (Zr)-Total	<0.000002	<W	0.0010	mg/L		30-DEC-20	R5329636
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					29-DEC-20	R5327436
Aluminum (Al)-Dissolved	0.0014	<DL	0.0050	mg/L		29-DEC-20	R5327682
Antimony (Sb)-Dissolved	0.000030	<DL	0.00060	mg/L		29-DEC-20	R5327682
Arsenic (As)-Dissolved	0.0000296	<DL	0.0010	mg/L		29-DEC-20	R5327682
Barium (Ba)-Dissolved	0.000025	<DL	0.010	mg/L		29-DEC-20	R5327682
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		29-DEC-20	R5327682
Bismuth (Bi)-Dissolved	0.000044	<DL	0.0010	mg/L		29-DEC-20	R5327682
Boron (B)-Dissolved	0.0055	<DL	0.050	mg/L		29-DEC-20	R5327682
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		29-DEC-20	R5327682
Calcium (Ca)-Dissolved	0.026	<DL	0.20	mg/L		29-DEC-20	R5327682
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		29-DEC-20	R5327682
Chromium (Cr)-Dissolved	0.00015	<DL	0.0010	mg/L		29-DEC-20	R5327682
Cobalt (Co)-Dissolved	0.000004	<DL	0.00050	mg/L		29-DEC-20	R5327682
Copper (Cu)-Dissolved	<0.00002	<W	0.0010	mg/L		29-DEC-20	R5327682
Iron (Fe)-Dissolved	<0.0005	<W	0.020	mg/L		29-DEC-20	R5327682
Lead (Pb)-Dissolved	<0.00001	<W	0.000050	mg/L		29-DEC-20	R5327682

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-1 FB_SW_20201208 Sampled By: Client on 15-DEC-20 @ 12:00 Matrix: QC							
Dissolved Metals							
Lithium (Li)-Dissolved	<0.0002	<W	0.050	mg/L		29-DEC-20	R5327682
Magnesium (Mg)-Dissolved	0.0020	<DL	0.020	mg/L		29-DEC-20	R5327682
Manganese (Mn)-Dissolved	<0.00002	<W	0.0010	mg/L		29-DEC-20	R5327682
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321841
Molybdenum (Mo)-Dissolved	0.000004	<DL	0.0010	mg/L		29-DEC-20	R5327682
Nickel (Ni)-Dissolved	0.00002	<DL	0.0020	mg/L		29-DEC-20	R5327682
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		29-DEC-20	R5327682
Potassium (K)-Dissolved	<0.01	<W	0.50	mg/L		29-DEC-20	R5327682
Rubidium (Rb)-Dissolved	<0.000002	<W	0.00020	mg/L		29-DEC-20	R5327682
Selenium (Se)-Dissolved	0.000030	<DL	0.000050	mg/L		29-DEC-20	R5327682
Silicon (Si)-Dissolved	0.130		0.050	mg/L		29-DEC-20	R5327682
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		29-DEC-20	R5327682
Sodium (Na)-Dissolved	0.055	<DL	0.10	mg/L		29-DEC-20	R5327682
Strontium (Sr)-Dissolved	0.00004	<DL	0.0010	mg/L		29-DEC-20	R5327682
Sulfur (S)-Dissolved	<0.2	<W	0.50	mg/L		29-DEC-20	R5327682
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		29-DEC-20	R5327682
Thallium (Tl)-Dissolved	0.000012	<DL	0.00030	mg/L		29-DEC-20	R5327682
Thorium (Th)-Dissolved	<0.00001	<W	0.00010	mg/L		29-DEC-20	R5327682
Tin (Sn)-Dissolved	0.000040	<DL	0.0010	mg/L		29-DEC-20	R5327682
Titanium (Ti)-Dissolved	0.00002	<DL	0.0020	mg/L		29-DEC-20	R5327682
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		29-DEC-20	R5327682
Uranium (U)-Dissolved	<0.0000005	<W	0.0050	mg/L		29-DEC-20	R5327682
Vanadium (V)-Dissolved	<0.00002	<W	0.0010	mg/L		29-DEC-20	R5327682
Zinc (Zn)-Dissolved	0.0002	<DL	0.0030	mg/L		29-DEC-20	R5327682
Zirconium (Zr)-Dissolved	<0.000002	<W	0.0010	mg/L		29-DEC-20	R5327682
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		18-DEC-20	R5322282
COD	<10		10	mg/L		28-DEC-20	R5325877
Oil and Grease, Total	0.4	<DL	1.0	mg/L	29-DEC-20	29-DEC-20	R5327576
Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2541819-2 SW02_SW_20201208 Sampled By: Client on 15-DEC-20 @ 12:15 Matrix: SW							
Field Tests							
pH, Client Supplied	6.62		0.10	pH		29-DEC-20	R5325492
Temperature, Client	-0.2		-50	Deg. C		29-DEC-20	R5325492
Physical Tests							
Color, True	167		2.0	CU		18-DEC-20	R5319494
Conductivity (EC)	124		1.0	uS/cm		18-DEC-20	R5319638
Hardness (as CaCO3)	72.3		0.51	mg/L		31-DEC-20	
pH	6.83		0.10	pH		18-DEC-20	R5319638
Total Suspended Solids	0.5	<DL	3.0	mg/L		18-DEC-20	R5320265

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-2 SW02_SW_20201208							
Sampled By: Client on 15-DEC-20 @ 12:15							
Matrix: SW							
Physical Tests							
Total Dissolved Solids	118		13	mg/L		18-DEC-20	R5320048
Turbidity	0.99		0.10	NTU		18-DEC-20	R5319368
Anions and Nutrients							
Acidity (as CaCO3)	18.6		2.0	mg/L		18-DEC-20	R5319638
Alkalinity, Total (as CaCO3)	66.6		2.0	mg/L		19-DEC-20	R5319962
Unionized ammonia	0.0000275		0.0000082	mg/L		31-DEC-20	
Ammonia, Total (as N)	0.068	<T	0.020	mg/L		23-DEC-20	R5324536
Chloride (Cl)	0.35		0.10	mg/L	18-DEC-20	18-DEC-20	R5319944
Fluoride (F)	0.027		0.020	mg/L	18-DEC-20	18-DEC-20	R5319944
Nitrate (as N)	0.036	<T	0.030	mg/L		18-DEC-20	R5319944
Nitrite (as N)	0.006	<DL	0.010	mg/L		18-DEC-20	R5319944
Total Kjeldahl Nitrogen	1.05		0.18	mg/L	30-DEC-20	30-DEC-20	R5328938
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	18-DEC-20	21-DEC-20	R5320130
Sulfate (SO4)	0.15	<DL	0.30	mg/L		18-DEC-20	R5319944
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Total	0.0008	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Free	0.0009	<DL	0.0020	mg/L		23-DEC-20	R5324599
Organic / Inorganic Carbon							
Dissolved Organic Carbon	41.6	DLM	2.5	mg/L	18-DEC-20	28-DEC-20	R5325676
Total Organic Carbon	42.8	DLM	2.5	mg/L		28-DEC-20	R5324442
Total Metals							
Aluminum (Al)-Total	0.0686		0.0050	mg/L		30-DEC-20	R5329636
Antimony (Sb)-Total	0.000040	<DL	0.00060	mg/L		30-DEC-20	R5329636
Arsenic (As)-Total	0.00058	<DL	0.0010	mg/L		30-DEC-20	R5329636
Barium (Ba)-Total	0.00935	<DL	0.010	mg/L		30-DEC-20	R5329636
Beryllium (Be)-Total	0.0000092	<DL	0.0010	mg/L		30-DEC-20	R5329636
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		30-DEC-20	R5329636
Boron (B)-Total	0.0050	<DL	0.050	mg/L		30-DEC-20	R5329636
Cadmium (Cd)-Total	0.000004	<DL	0.000017	mg/L		30-DEC-20	R5329636
Calcium (Ca)-Total	18.0		0.20	mg/L		30-DEC-20	R5329636
Cesium (Cs)-Total	0.0000040	<DL	0.000010	mg/L		30-DEC-20	R5329636
Chromium (Cr)-Total	0.00026	<DL	0.0010	mg/L		30-DEC-20	R5329636
Cobalt (Co)-Total	0.000215	<DL	0.00050	mg/L		30-DEC-20	R5329636
Copper (Cu)-Total	0.00020	<DL	0.0010	mg/L		30-DEC-20	R5329636
Iron (Fe)-Total	0.446		0.020	mg/L		30-DEC-20	R5329636
Lead (Pb)-Total	0.00006	<T	0.000050	mg/L		30-DEC-20	R5329636
Lithium (Li)-Total	0.0020	<DL	0.050	mg/L		30-DEC-20	R5329636
Magnesium (Mg)-Total	7.59		0.020	mg/L		30-DEC-20	R5329636
Manganese (Mn)-Total	0.0960		0.0010	mg/L		30-DEC-20	R5329636
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321840
Molybdenum (Mo)-Total	0.000060	<DL	0.0010	mg/L		30-DEC-20	R5329636

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-2 SW02_SW_20201208							
Sampled By: Client on 15-DEC-20 @ 12:15							
Matrix: SW							
Total Metals							
Nickel (Ni)-Total	0.00040	<DL	0.0020	mg/L		30-DEC-20	R5329636
Phosphorus (P)-Total	<0.005	<W	0.050	mg/L		30-DEC-20	R5329636
Potassium (K)-Total	0.41	<DL	0.50	mg/L		30-DEC-20	R5329636
Rubidium (Rb)-Total	0.00114		0.00020	mg/L		30-DEC-20	R5329636
Selenium (Se)-Total	0.000100	<T	0.000050	mg/L		30-DEC-20	R5329636
Silicon (Si)-Total	5.89		0.10	mg/L		30-DEC-20	R5329636
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		30-DEC-20	R5329636
Sodium (Na)-Total	1.29		0.10	mg/L		30-DEC-20	R5329636
Strontium (Sr)-Total	0.0291		0.0010	mg/L		30-DEC-20	R5329636
Sulfur (S)-Total	<0.2	<W	0.50	mg/L		30-DEC-20	R5329636
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		30-DEC-20	R5329636
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		30-DEC-20	R5329636
Thorium (Th)-Total	0.00002	<DL	0.00010	mg/L		30-DEC-20	R5329636
Tin (Sn)-Total	0.00006	<DL	0.0010	mg/L		30-DEC-20	R5329636
Titanium (Ti)-Total	0.00150	<DL	0.0020	mg/L		30-DEC-20	R5329636
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		30-DEC-20	R5329636
Uranium (U)-Total	0.0000305	<DL	0.0050	mg/L		30-DEC-20	R5329636
Vanadium (V)-Total	0.00030	<DL	0.0010	mg/L		30-DEC-20	R5329636
Zinc (Zn)-Total	0.0010	<DL	0.0030	mg/L		30-DEC-20	R5329636
Zirconium (Zr)-Total	0.000106	<DL	0.0010	mg/L		30-DEC-20	R5329636
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					29-DEC-20	R5327436
Aluminum (Al)-Dissolved	0.0642		0.0050	mg/L		29-DEC-20	R5327682
Antimony (Sb)-Dissolved	0.000050	<DL	0.00060	mg/L		29-DEC-20	R5327682
Arsenic (As)-Dissolved	0.000550	<DL	0.0010	mg/L		29-DEC-20	R5327682
Barium (Ba)-Dissolved	0.00895	<DL	0.010	mg/L		29-DEC-20	R5327682
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		29-DEC-20	R5327682
Bismuth (Bi)-Dissolved	0.000032	<DL	0.0010	mg/L		29-DEC-20	R5327682
Boron (B)-Dissolved	0.0055	<DL	0.050	mg/L		29-DEC-20	R5327682
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		29-DEC-20	R5327682
Calcium (Ca)-Dissolved	17.3		0.20	mg/L		29-DEC-20	R5327682
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		29-DEC-20	R5327682
Chromium (Cr)-Dissolved	0.00031	<DL	0.0010	mg/L		29-DEC-20	R5327682
Cobalt (Co)-Dissolved	0.000194	<DL	0.00050	mg/L		29-DEC-20	R5327682
Copper (Cu)-Dissolved	0.00014	<DL	0.0010	mg/L		29-DEC-20	R5327682
Iron (Fe)-Dissolved	0.423		0.020	mg/L		29-DEC-20	R5327682
Lead (Pb)-Dissolved	0.00006	<T	0.000050	mg/L		29-DEC-20	R5327682
Lithium (Li)-Dissolved	0.0022	<DL	0.050	mg/L		29-DEC-20	R5327682
Magnesium (Mg)-Dissolved	7.05		0.020	mg/L		29-DEC-20	R5327682
Manganese (Mn)-Dissolved	0.0926		0.0010	mg/L		29-DEC-20	R5327682
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321841

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-2 SW02_SW_20201208 Sampled By: Client on 15-DEC-20 @ 12:15 Matrix: SW							
Dissolved Metals							
Molybdenum (Mo)-Dissolved	0.000054	<DL	0.0010	mg/L		29-DEC-20	R5327682
Nickel (Ni)-Dissolved	0.00038	<DL	0.0020	mg/L		29-DEC-20	R5327682
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		29-DEC-20	R5327682
Potassium (K)-Dissolved	0.40	<DL	0.50	mg/L		29-DEC-20	R5327682
Rubidium (Rb)-Dissolved	0.00113		0.00020	mg/L		29-DEC-20	R5327682
Selenium (Se)-Dissolved	0.000070	<T	0.000050	mg/L		29-DEC-20	R5327682
Silicon (Si)-Dissolved	5.91		0.050	mg/L		29-DEC-20	R5327682
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		29-DEC-20	R5327682
Sodium (Na)-Dissolved	1.24		0.10	mg/L		29-DEC-20	R5327682
Strontium (Sr)-Dissolved	0.0274		0.0010	mg/L		29-DEC-20	R5327682
Sulfur (S)-Dissolved	<0.2	<W	0.50	mg/L		29-DEC-20	R5327682
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		29-DEC-20	R5327682
Thallium (Tl)-Dissolved	0.000006	<DL	0.00030	mg/L		29-DEC-20	R5327682
Thorium (Th)-Dissolved	0.00002	<DL	0.00010	mg/L		29-DEC-20	R5327682
Tin (Sn)-Dissolved	0.000015	<DL	0.0010	mg/L		29-DEC-20	R5327682
Titanium (Ti)-Dissolved	0.00124	<DL	0.0020	mg/L		29-DEC-20	R5327682
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		29-DEC-20	R5327682
Uranium (U)-Dissolved	0.0000275	<DL	0.0050	mg/L		29-DEC-20	R5327682
Vanadium (V)-Dissolved	0.00022	<DL	0.0010	mg/L		29-DEC-20	R5327682
Zinc (Zn)-Dissolved	0.0022	<DL	0.0030	mg/L		29-DEC-20	R5327682
Zirconium (Zr)-Dissolved	0.000108	<DL	0.0010	mg/L		29-DEC-20	R5327682
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		18-DEC-20	R5322282
COD	94		10	mg/L		28-DEC-20	R5325877
Oil and Grease, Total	0.2	<DL	1.0	mg/L	29-DEC-20	29-DEC-20	R5327576
Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2541819-3 SW03_SW_20201208 Sampled By: Client on 15-DEC-20 @ 14:20 Matrix: SW							
Field Tests							
pH, Client Supplied	7.41		0.10	pH		29-DEC-20	R5325492
Temperature, Client	-0.2		-50	Deg. C		29-DEC-20	R5325492
Physical Tests							
Color, True	57.4		2.0	CU		18-DEC-20	R5319494
Conductivity (EC)	648		1.0	uS/cm		18-DEC-20	R5319638
Hardness (as CaCO3)	291		0.51	mg/L		31-DEC-20	
pH	7.32		0.10	pH		18-DEC-20	R5319638
Total Suspended Solids	4.0		3.0	mg/L		18-DEC-20	R5320265
Total Dissolved Solids	420		20	mg/L		18-DEC-20	R5320048
Turbidity	7.00		0.10	NTU		18-DEC-20	R5319368
Anions and Nutrients							
Acidity (as CaCO3)	22.0		2.0	mg/L		18-DEC-20	R5319638

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-3 SW03_SW_20201208							
Sampled By: Client on 15-DEC-20 @ 14:20							
Matrix: SW							
Anions and Nutrients							
Alkalinity, Total (as CaCO3)	234		2.0	mg/L		19-DEC-20	R5319962
Unionized ammonia	0.000111		0.000051	mg/L		31-DEC-20	
Ammonia, Total (as N)	0.044	<T	0.020	mg/L		23-DEC-20	R5324536
Chloride (Cl)	27.5		0.10	mg/L	18-DEC-20	18-DEC-20	R5319944
Fluoride (F)	0.068		0.020	mg/L	18-DEC-20	18-DEC-20	R5319944
Nitrate (as N)	0.040	<T	0.030	mg/L		18-DEC-20	R5319944
Nitrite (as N)	<0.001	<W	0.010	mg/L		18-DEC-20	R5319944
Total Kjeldahl Nitrogen	1.10		0.18	mg/L	30-DEC-20	30-DEC-20	R5328938
Orthophosphate-Dissolved (as P)	0.0134		0.0030	mg/L	18-DEC-20	21-DEC-20	R5320130
Sulfate (SO4)	85.9		0.30	mg/L		18-DEC-20	R5319944
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Total	0.0008	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Free	0.0006	<DL	0.0020	mg/L		23-DEC-20	R5324599
Organic / Inorganic Carbon							
Dissolved Organic Carbon	32.3	DLM	2.5	mg/L	18-DEC-20	28-DEC-20	R5325676
Total Organic Carbon	30.2	DLM	2.5	mg/L		28-DEC-20	R5324442
Total Metals							
Aluminum (Al)-Total	0.111		0.0050	mg/L		30-DEC-20	R5329636
Antimony (Sb)-Total	0.000485	<DL	0.00060	mg/L		30-DEC-20	R5329636
Arsenic (As)-Total	0.00106	<T	0.0010	mg/L		30-DEC-20	R5329636
Barium (Ba)-Total	0.0366		0.010	mg/L		30-DEC-20	R5329636
Beryllium (Be)-Total	0.0000072	<DL	0.0010	mg/L		30-DEC-20	R5329636
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		30-DEC-20	R5329636
Boron (B)-Total	0.0190	<DL	0.050	mg/L		30-DEC-20	R5329636
Cadmium (Cd)-Total	0.000017	<T	0.000017	mg/L		30-DEC-20	R5329636
Calcium (Ca)-Total	72.0		0.20	mg/L		30-DEC-20	R5329636
Cesium (Cs)-Total	0.0000175		0.000010	mg/L		30-DEC-20	R5329636
Chromium (Cr)-Total	0.00044	<DL	0.0010	mg/L		30-DEC-20	R5329636
Cobalt (Co)-Total	0.000575	<T	0.00050	mg/L		30-DEC-20	R5329636
Copper (Cu)-Total	0.00112	<T	0.0010	mg/L		30-DEC-20	R5329636
Iron (Fe)-Total	0.595		0.020	mg/L		30-DEC-20	R5329636
Lead (Pb)-Total	0.00013	<T	0.000050	mg/L		30-DEC-20	R5329636
Lithium (Li)-Total	0.0098	<DL	0.050	mg/L		30-DEC-20	R5329636
Magnesium (Mg)-Total	29.8		0.020	mg/L		30-DEC-20	R5329636
Manganese (Mn)-Total	0.409		0.0010	mg/L		30-DEC-20	R5329636
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321840
Molybdenum (Mo)-Total	0.000630	<DL	0.0010	mg/L		30-DEC-20	R5329636
Nickel (Ni)-Total	0.00212	<T	0.0020	mg/L		30-DEC-20	R5329636
Phosphorus (P)-Total	0.035	<DL	0.050	mg/L		30-DEC-20	R5329636
Potassium (K)-Total	5.26		0.50	mg/L		30-DEC-20	R5329636
Rubidium (Rb)-Total	0.00232		0.00020	mg/L		30-DEC-20	R5329636

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-3 SW03_SW_20201208							
Sampled By: Client on 15-DEC-20 @ 14:20							
Matrix: SW							
Total Metals							
Selenium (Se)-Total	0.000145	<T	0.000050	mg/L		30-DEC-20	R5329636
Silicon (Si)-Total	6.40		0.10	mg/L		30-DEC-20	R5329636
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		30-DEC-20	R5329636
Sodium (Na)-Total	22.3		0.10	mg/L		30-DEC-20	R5329636
Strontium (Sr)-Total	0.187		0.0010	mg/L		30-DEC-20	R5329636
Sulfur (S)-Total	30.4		0.50	mg/L		30-DEC-20	R5329636
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		30-DEC-20	R5329636
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		30-DEC-20	R5329636
Thorium (Th)-Total	0.00005	<DL	0.00010	mg/L		30-DEC-20	R5329636
Tin (Sn)-Total	0.00006	<DL	0.0010	mg/L		30-DEC-20	R5329636
Titanium (Ti)-Total	0.00465		0.0020	mg/L		30-DEC-20	R5329636
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		30-DEC-20	R5329636
Uranium (U)-Total	0.00131	<DL	0.0050	mg/L		30-DEC-20	R5329636
Vanadium (V)-Total	0.00070	<DL	0.0010	mg/L		30-DEC-20	R5329636
Zinc (Zn)-Total	0.0020	<DL	0.0030	mg/L		30-DEC-20	R5329636
Zirconium (Zr)-Total	0.000368	<DL	0.0010	mg/L		30-DEC-20	R5329636
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					29-DEC-20	R5327436
Aluminum (Al)-Dissolved	0.0514		0.0050	mg/L		29-DEC-20	R5327682
Antimony (Sb)-Dissolved	0.000450	<DL	0.00060	mg/L		29-DEC-20	R5327682
Arsenic (As)-Dissolved	0.000951	<DL	0.0010	mg/L		29-DEC-20	R5327682
Barium (Ba)-Dissolved	0.0334		0.010	mg/L		29-DEC-20	R5327682
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		29-DEC-20	R5327682
Bismuth (Bi)-Dissolved	0.000006	<DL	0.0010	mg/L		29-DEC-20	R5327682
Boron (B)-Dissolved	0.0180	<DL	0.050	mg/L		29-DEC-20	R5327682
Cadmium (Cd)-Dissolved	0.0000070	<DL	0.000017	mg/L		29-DEC-20	R5327682
Calcium (Ca)-Dissolved	70.5		0.20	mg/L		29-DEC-20	R5327682
Cesium (Cs)-Dissolved	0.0000060	<DL	0.000010	mg/L		29-DEC-20	R5327682
Chromium (Cr)-Dissolved	0.00022	<DL	0.0010	mg/L		29-DEC-20	R5327682
Cobalt (Co)-Dissolved	0.000236	<DL	0.00050	mg/L		29-DEC-20	R5327682
Copper (Cu)-Dissolved	0.00098	<DL	0.0010	mg/L		29-DEC-20	R5327682
Iron (Fe)-Dissolved	0.256		0.020	mg/L		29-DEC-20	R5327682
Lead (Pb)-Dissolved	0.00003	<DL	0.000050	mg/L		29-DEC-20	R5327682
Lithium (Li)-Dissolved	0.0102	<DL	0.050	mg/L		29-DEC-20	R5327682
Magnesium (Mg)-Dissolved	27.9		0.020	mg/L		29-DEC-20	R5327682
Manganese (Mn)-Dissolved	0.153		0.0010	mg/L		29-DEC-20	R5327682
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321841
Molybdenum (Mo)-Dissolved	0.000574	<DL	0.0010	mg/L		29-DEC-20	R5327682
Nickel (Ni)-Dissolved	0.00186	<DL	0.0020	mg/L		29-DEC-20	R5327682
Phosphorus (P)-Dissolved	0.010	<DL	0.050	mg/L		29-DEC-20	R5327682
Potassium (K)-Dissolved	5.17		0.50	mg/L		29-DEC-20	R5327682

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-3 SW03_SW_20201208 Sampled By: Client on 15-DEC-20 @ 14:20 Matrix: SW							
Dissolved Metals							
Rubidium (Rb)-Dissolved	0.00216		0.00020	mg/L		29-DEC-20	R5327682
Selenium (Se)-Dissolved	0.000140	<T	0.000050	mg/L		29-DEC-20	R5327682
Silicon (Si)-Dissolved	6.42		0.050	mg/L		29-DEC-20	R5327682
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		29-DEC-20	R5327682
Sodium (Na)-Dissolved	21.7		0.10	mg/L		29-DEC-20	R5327682
Strontium (Sr)-Dissolved	0.178		0.0010	mg/L		29-DEC-20	R5327682
Sulfur (S)-Dissolved	30.2		0.50	mg/L		29-DEC-20	R5327682
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		29-DEC-20	R5327682
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		29-DEC-20	R5327682
Thorium (Th)-Dissolved	0.00002	<DL	0.00010	mg/L		29-DEC-20	R5327682
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		29-DEC-20	R5327682
Titanium (Ti)-Dissolved	0.00230		0.0020	mg/L		29-DEC-20	R5327682
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		29-DEC-20	R5327682
Uranium (U)-Dissolved	0.00123	<DL	0.0050	mg/L		29-DEC-20	R5327682
Vanadium (V)-Dissolved	0.00042	<DL	0.0010	mg/L		29-DEC-20	R5327682
Zinc (Zn)-Dissolved	0.0018	<DL	0.0030	mg/L		29-DEC-20	R5327682
Zirconium (Zr)-Dissolved	0.000514	<DL	0.0010	mg/L		29-DEC-20	R5327682
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		18-DEC-20	R5322282
COD	60		10	mg/L		28-DEC-20	R5325877
Oil and Grease, Total	0.4	<DL	1.0	mg/L	29-DEC-20	29-DEC-20	R5327576
Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2541819-4 SW06_SW_20201208 Sampled By: Client on 15-DEC-20 @ 12:00 Matrix: QC							
Physical Tests							
Color, True	167		2.0	CU		18-DEC-20	R5319494
Conductivity (EC)	124		1.0	uS/cm		18-DEC-20	R5319638
Hardness (as CaCO3)	74.2		0.51	mg/L		31-DEC-20	
pH	6.81		0.10	pH		18-DEC-20	R5319638
Total Suspended Solids	1.5	<DL	3.0	mg/L		18-DEC-20	R5320265
Total Dissolved Solids	134		13	mg/L		18-DEC-20	R5320048
Turbidity	1.07		0.10	NTU		18-DEC-20	R5319368
Anions and Nutrients							
Acidity (as CaCO3)	19.0		2.0	mg/L		18-DEC-20	R5319638
Alkalinity, Total (as CaCO3)	66.8		2.0	mg/L		19-DEC-20	R5319962
Ammonia, Total (as N)	0.064	<T	0.020	mg/L		23-DEC-20	R5324536
Chloride (Cl)	0.36		0.10	mg/L	18-DEC-20	18-DEC-20	R5319944
Fluoride (F)	0.024		0.020	mg/L	18-DEC-20	18-DEC-20	R5319944
Nitrate (as N)	0.044	<T	0.030	mg/L		18-DEC-20	R5319944
Nitrite (as N)	0.004	<DL	0.010	mg/L		18-DEC-20	R5319944
Total Kjeldahl Nitrogen	1.10		0.18	mg/L	30-DEC-20	30-DEC-20	R5328938

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-4 SW06_SW_20201208							
Sampled By: Client on 15-DEC-20 @ 12:00							
Matrix: QC							
Anions and Nutrients							
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	18-DEC-20	21-DEC-20	R5320130
Sulfate (SO4)	0.15	<DL	0.30	mg/L		18-DEC-20	R5319944
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Total	0.0008	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Free	0.0007	<DL	0.0020	mg/L		23-DEC-20	R5324599
Organic / Inorganic Carbon							
Dissolved Organic Carbon	45.3	DLM	2.5	mg/L	18-DEC-20	28-DEC-20	R5325676
Total Organic Carbon	43.9	DLM	2.5	mg/L		28-DEC-20	R5324442
Total Metals							
Aluminum (Al)-Total	0.0728		0.0050	mg/L		30-DEC-20	R5329636
Antimony (Sb)-Total	0.000040	<DL	0.00060	mg/L		30-DEC-20	R5329636
Arsenic (As)-Total	0.00062	<DL	0.0010	mg/L		30-DEC-20	R5329636
Barium (Ba)-Total	0.00997	<DL	0.010	mg/L		30-DEC-20	R5329636
Beryllium (Be)-Total	0.0000041	<DL	0.0010	mg/L		30-DEC-20	R5329636
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		30-DEC-20	R5329636
Boron (B)-Total	0.0050	<DL	0.050	mg/L		30-DEC-20	R5329636
Cadmium (Cd)-Total	0.000005	<DL	0.000017	mg/L		30-DEC-20	R5329636
Calcium (Ca)-Total	18.1		0.20	mg/L		30-DEC-20	R5329636
Cesium (Cs)-Total	0.0000040	<DL	0.000010	mg/L		30-DEC-20	R5329636
Chromium (Cr)-Total	0.00032	<DL	0.0010	mg/L		30-DEC-20	R5329636
Cobalt (Co)-Total	0.000225	<DL	0.00050	mg/L		30-DEC-20	R5329636
Copper (Cu)-Total	0.00022	<DL	0.0010	mg/L		30-DEC-20	R5329636
Iron (Fe)-Total	0.454		0.020	mg/L		30-DEC-20	R5329636
Lead (Pb)-Total	0.00006	<T	0.000050	mg/L		30-DEC-20	R5329636
Lithium (Li)-Total	0.0020	<DL	0.050	mg/L		30-DEC-20	R5329636
Magnesium (Mg)-Total	7.96		0.020	mg/L		30-DEC-20	R5329636
Manganese (Mn)-Total	0.102		0.0010	mg/L		30-DEC-20	R5329636
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321840
Molybdenum (Mo)-Total	0.000080	<DL	0.0010	mg/L		30-DEC-20	R5329636
Nickel (Ni)-Total	0.00048	<DL	0.0020	mg/L		30-DEC-20	R5329636
Phosphorus (P)-Total	0.010	<DL	0.050	mg/L		30-DEC-20	R5329636
Potassium (K)-Total	0.50		0.50	mg/L		30-DEC-20	R5329636
Rubidium (Rb)-Total	0.00123		0.00020	mg/L		30-DEC-20	R5329636
Selenium (Se)-Total	0.000080	<T	0.000050	mg/L		30-DEC-20	R5329636
Silicon (Si)-Total	5.92		0.10	mg/L		30-DEC-20	R5329636
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		30-DEC-20	R5329636
Sodium (Na)-Total	1.66		0.10	mg/L		30-DEC-20	R5329636
Strontium (Sr)-Total	0.0297		0.0010	mg/L		30-DEC-20	R5329636
Sulfur (S)-Total	0.4	<DL	0.50	mg/L		30-DEC-20	R5329636
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		30-DEC-20	R5329636
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		30-DEC-20	R5329636

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-4 SW06_SW_20201208							
Sampled By: Client on 15-DEC-20 @ 12:00							
Matrix: QC							
Total Metals							
Thorium (Th)-Total	0.00002	<DL	0.00010	mg/L		30-DEC-20	R5329636
Tin (Sn)-Total	0.00007	<DL	0.0010	mg/L		30-DEC-20	R5329636
Titanium (Ti)-Total	0.00160	<DL	0.0020	mg/L		30-DEC-20	R5329636
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		30-DEC-20	R5329636
Uranium (U)-Total	0.0000315	<DL	0.0050	mg/L		30-DEC-20	R5329636
Vanadium (V)-Total	0.00035	<DL	0.0010	mg/L		30-DEC-20	R5329636
Zinc (Zn)-Total	0.0010	<DL	0.0030	mg/L		30-DEC-20	R5329636
Zirconium (Zr)-Total	0.000094	<DL	0.0010	mg/L		30-DEC-20	R5329636
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					29-DEC-20	R5327436
Aluminum (Al)-Dissolved	0.0568		0.0050	mg/L		29-DEC-20	R5327682
Antimony (Sb)-Dissolved	0.000045	<DL	0.00060	mg/L		29-DEC-20	R5327682
Arsenic (As)-Dissolved	0.000574	<DL	0.0010	mg/L		29-DEC-20	R5327682
Barium (Ba)-Dissolved	0.00915	<DL	0.010	mg/L		29-DEC-20	R5327682
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		29-DEC-20	R5327682
Bismuth (Bi)-Dissolved	0.000010	<DL	0.0010	mg/L		29-DEC-20	R5327682
Boron (B)-Dissolved	0.0060	<DL	0.050	mg/L		29-DEC-20	R5327682
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		29-DEC-20	R5327682
Calcium (Ca)-Dissolved	17.2		0.20	mg/L		29-DEC-20	R5327682
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		29-DEC-20	R5327682
Chromium (Cr)-Dissolved	0.00021	<DL	0.0010	mg/L		29-DEC-20	R5327682
Cobalt (Co)-Dissolved	0.000062	<DL	0.00050	mg/L		29-DEC-20	R5327682
Copper (Cu)-Dissolved	0.00022	<DL	0.0010	mg/L		29-DEC-20	R5327682
Iron (Fe)-Dissolved	0.320		0.020	mg/L		29-DEC-20	R5327682
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		29-DEC-20	R5327682
Lithium (Li)-Dissolved	0.0024	<DL	0.050	mg/L		29-DEC-20	R5327682
Magnesium (Mg)-Dissolved	7.60		0.020	mg/L		29-DEC-20	R5327682
Manganese (Mn)-Dissolved	0.00766		0.0010	mg/L		29-DEC-20	R5327682
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321841
Molybdenum (Mo)-Dissolved	0.000064	<DL	0.0010	mg/L		29-DEC-20	R5327682
Nickel (Ni)-Dissolved	0.00042	<DL	0.0020	mg/L		29-DEC-20	R5327682
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		29-DEC-20	R5327682
Potassium (K)-Dissolved	0.51		0.50	mg/L		29-DEC-20	R5327682
Rubidium (Rb)-Dissolved	0.00118		0.00020	mg/L		29-DEC-20	R5327682
Selenium (Se)-Dissolved	0.000125	<T	0.000050	mg/L		29-DEC-20	R5327682
Silicon (Si)-Dissolved	6.05		0.050	mg/L		29-DEC-20	R5327682
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		29-DEC-20	R5327682
Sodium (Na)-Dissolved	1.64		0.10	mg/L		29-DEC-20	R5327682
Strontium (Sr)-Dissolved	0.0282		0.0010	mg/L		29-DEC-20	R5327682
Sulfur (S)-Dissolved	<0.2	<W	0.50	mg/L		29-DEC-20	R5327682
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		29-DEC-20	R5327682

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-4 SW06_SW_20201208 Sampled By: Client on 15-DEC-20 @ 12:00 Matrix: QC							
Dissolved Metals							
Thallium (Tl)-Dissolved	0.000008	<DL	0.00030	mg/L		29-DEC-20	R5327682
Thorium (Th)-Dissolved	0.00002	<DL	0.00010	mg/L		29-DEC-20	R5327682
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		29-DEC-20	R5327682
Titanium (Ti)-Dissolved	0.00108	<DL	0.0020	mg/L		29-DEC-20	R5327682
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		29-DEC-20	R5327682
Uranium (U)-Dissolved	0.0000320	<DL	0.0050	mg/L		29-DEC-20	R5327682
Vanadium (V)-Dissolved	0.00020	<DL	0.0010	mg/L		29-DEC-20	R5327682
Zinc (Zn)-Dissolved	0.0026	<DL	0.0030	mg/L		29-DEC-20	R5327682
Zirconium (Zr)-Dissolved	0.000128	<DL	0.0010	mg/L		29-DEC-20	R5327682
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		18-DEC-20	R5322282
COD	95		10	mg/L		28-DEC-20	R5325877
Oil and Grease, Total	0.6	<DL	1.0	mg/L	29-DEC-20	29-DEC-20	R5327576
Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2541819-5 SW10_SW_20201208 Sampled By: Client on 15-DEC-20 @ 10:20 Matrix: SW							
Field Tests							
pH, Client Supplied	7.06		0.10	pH		29-DEC-20	R5325492
Temperature, Client	1.2		-50	Deg. C		29-DEC-20	R5325492
Physical Tests							
Color, True	92.4		2.0	CU		18-DEC-20	R5319494
Conductivity (EC)	412		1.0	uS/cm		18-DEC-20	R5319638
Hardness (as CaCO3)	195		0.51	mg/L		31-DEC-20	
pH	7.34		0.10	pH		18-DEC-20	R5319638
Total Suspended Solids	3.0		3.0	mg/L		18-DEC-20	R5320265
Total Dissolved Solids	260		20	mg/L		18-DEC-20	R5320048
Turbidity	4.51		0.10	NTU		18-DEC-20	R5319368
Anions and Nutrients							
Acidity (as CaCO3)	17.2		2.0	mg/L		18-DEC-20	R5319638
Alkalinity, Total (as CaCO3)	184		2.0	mg/L		19-DEC-20	R5319962
Unionized ammonia	0.000053		0.000026	mg/L		31-DEC-20	
Ammonia, Total (as N)	0.042	<T	0.020	mg/L		23-DEC-20	R5324536
Chloride (Cl)	24.9		0.10	mg/L	18-DEC-20	18-DEC-20	R5319944
Fluoride (F)	0.065		0.020	mg/L	18-DEC-20	18-DEC-20	R5319944
Nitrate (as N)	0.046	<T	0.030	mg/L		18-DEC-20	R5319944
Nitrite (as N)	<0.001	<W	0.010	mg/L		18-DEC-20	R5319944
Total Kjeldahl Nitrogen	1.20		0.18	mg/L	30-DEC-20	30-DEC-20	R5328938
Orthophosphate-Dissolved (as P)	0.0186		0.0030	mg/L	18-DEC-20	21-DEC-20	R5320130
Sulfate (SO4)	7.60		0.30	mg/L		18-DEC-20	R5319944
Cyanides							
Cyanide, Weak Acid Diss	0.0007	<DL	0.0020	mg/L		23-DEC-20	R5324599

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-5 SW10_SW_20201208							
Sampled By: Client on 15-DEC-20 @ 10:20							
Matrix: SW							
Cyanides							
Cyanide, Total	0.0012	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Free	0.0010	<DL	0.0020	mg/L		23-DEC-20	R5324599
Organic / Inorganic Carbon							
Dissolved Organic Carbon	36.8	DLM	2.5	mg/L	18-DEC-20	28-DEC-20	R5325676
Total Organic Carbon	37.5	DLM	2.5	mg/L		28-DEC-20	R5324442
Total Metals							
Aluminum (Al)-Total	0.0864		0.0050	mg/L		30-DEC-20	R5329636
Antimony (Sb)-Total	0.000060	<DL	0.00060	mg/L		30-DEC-20	R5329636
Arsenic (As)-Total	0.00102	<T	0.0010	mg/L		30-DEC-20	R5329636
Barium (Ba)-Total	0.0207		0.010	mg/L		30-DEC-20	R5329636
Beryllium (Be)-Total	0.0000133	<DL	0.0010	mg/L		30-DEC-20	R5329636
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		30-DEC-20	R5329636
Boron (B)-Total	0.0175	<DL	0.050	mg/L		30-DEC-20	R5329636
Cadmium (Cd)-Total	0.000010	<DL	0.000017	mg/L		30-DEC-20	R5329636
Calcium (Ca)-Total	46.5		0.20	mg/L		30-DEC-20	R5329636
Cesium (Cs)-Total	0.0000110		0.000010	mg/L		30-DEC-20	R5329636
Chromium (Cr)-Total	0.00040	<DL	0.0010	mg/L		30-DEC-20	R5329636
Cobalt (Co)-Total	0.000425	<DL	0.00050	mg/L		30-DEC-20	R5329636
Copper (Cu)-Total	0.00076	<DL	0.0010	mg/L		30-DEC-20	R5329636
Iron (Fe)-Total	0.791		0.020	mg/L		30-DEC-20	R5329636
Lead (Pb)-Total	0.00016	<T	0.000050	mg/L		30-DEC-20	R5329636
Lithium (Li)-Total	0.0078	<DL	0.050	mg/L		30-DEC-20	R5329636
Magnesium (Mg)-Total	20.6		0.020	mg/L		30-DEC-20	R5329636
Manganese (Mn)-Total	0.209		0.0010	mg/L		30-DEC-20	R5329636
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321840
Molybdenum (Mo)-Total	0.000365	<DL	0.0010	mg/L		30-DEC-20	R5329636
Nickel (Ni)-Total	0.00168	<DL	0.0020	mg/L		30-DEC-20	R5329636
Phosphorus (P)-Total	0.030	<DL	0.050	mg/L		30-DEC-20	R5329636
Potassium (K)-Total	1.90		0.50	mg/L		30-DEC-20	R5329636
Rubidium (Rb)-Total	0.00176		0.00020	mg/L		30-DEC-20	R5329636
Selenium (Se)-Total	0.000120	<T	0.000050	mg/L		30-DEC-20	R5329636
Silicon (Si)-Total	6.68		0.10	mg/L		30-DEC-20	R5329636
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		30-DEC-20	R5329636
Sodium (Na)-Total	12.6		0.10	mg/L		30-DEC-20	R5329636
Strontium (Sr)-Total	0.133		0.0010	mg/L		30-DEC-20	R5329636
Sulfur (S)-Total	2.8		0.50	mg/L		30-DEC-20	R5329636
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		30-DEC-20	R5329636
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		30-DEC-20	R5329636
Thorium (Th)-Total	0.00004	<DL	0.00010	mg/L		30-DEC-20	R5329636
Tin (Sn)-Total	0.00015	<DL	0.0010	mg/L		30-DEC-20	R5329636
Titanium (Ti)-Total	0.00278		0.0020	mg/L		30-DEC-20	R5329636

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-5 SW10_SW_20201208							
Sampled By: Client on 15-DEC-20 @ 10:20							
Matrix: SW							
Total Metals							
Tungsten (W)-Total	0.00001	<DL	0.010	mg/L		30-DEC-20	R5329636
Uranium (U)-Total	0.000866	<DL	0.0050	mg/L		30-DEC-20	R5329636
Vanadium (V)-Total	0.00065	<DL	0.0010	mg/L		30-DEC-20	R5329636
Zinc (Zn)-Total	0.0035	<T	0.0030	mg/L		30-DEC-20	R5329636
Zirconium (Zr)-Total	0.000318	<DL	0.0010	mg/L		30-DEC-20	R5329636
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					29-DEC-20	R5327436
Aluminum (Al)-Dissolved	0.0336		0.0050	mg/L		29-DEC-20	R5327682
Antimony (Sb)-Dissolved	0.000050	<DL	0.00060	mg/L		29-DEC-20	R5327682
Arsenic (As)-Dissolved	0.000903	<DL	0.0010	mg/L		29-DEC-20	R5327682
Barium (Ba)-Dissolved	0.0167		0.010	mg/L		29-DEC-20	R5327682
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		29-DEC-20	R5327682
Bismuth (Bi)-Dissolved	0.000002	<DL	0.0010	mg/L		29-DEC-20	R5327682
Boron (B)-Dissolved	0.0175	<DL	0.050	mg/L		29-DEC-20	R5327682
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		29-DEC-20	R5327682
Calcium (Ca)-Dissolved	46.0		0.20	mg/L		29-DEC-20	R5327682
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		29-DEC-20	R5327682
Chromium (Cr)-Dissolved	0.00025	<DL	0.0010	mg/L		29-DEC-20	R5327682
Cobalt (Co)-Dissolved	0.000106	<DL	0.00050	mg/L		29-DEC-20	R5327682
Copper (Cu)-Dissolved	0.00066	<DL	0.0010	mg/L		29-DEC-20	R5327682
Iron (Fe)-Dissolved	0.450		0.020	mg/L		29-DEC-20	R5327682
Lead (Pb)-Dissolved	0.00003	<DL	0.000050	mg/L		29-DEC-20	R5327682
Lithium (Li)-Dissolved	0.0086	<DL	0.050	mg/L		29-DEC-20	R5327682
Magnesium (Mg)-Dissolved	19.3		0.020	mg/L		29-DEC-20	R5327682
Manganese (Mn)-Dissolved	0.00582		0.0010	mg/L		29-DEC-20	R5327682
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321841
Molybdenum (Mo)-Dissolved	0.000316	<DL	0.0010	mg/L		29-DEC-20	R5327682
Nickel (Ni)-Dissolved	0.00150	<DL	0.0020	mg/L		29-DEC-20	R5327682
Phosphorus (P)-Dissolved	0.015	<DL	0.050	mg/L		29-DEC-20	R5327682
Potassium (K)-Dissolved	1.94		0.50	mg/L		29-DEC-20	R5327682
Rubidium (Rb)-Dissolved	0.00157		0.00020	mg/L		29-DEC-20	R5327682
Selenium (Se)-Dissolved	0.000130	<T	0.000050	mg/L		29-DEC-20	R5327682
Silicon (Si)-Dissolved	6.75		0.050	mg/L		29-DEC-20	R5327682
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		29-DEC-20	R5327682
Sodium (Na)-Dissolved	12.6		0.10	mg/L		29-DEC-20	R5327682
Strontium (Sr)-Dissolved	0.130		0.0010	mg/L		29-DEC-20	R5327682
Sulfur (S)-Dissolved	3.0		0.50	mg/L		29-DEC-20	R5327682
Tellurium (Te)-Dissolved	0.00002	<DL	0.0010	mg/L		29-DEC-20	R5327682
Thallium (Tl)-Dissolved	<0.000002	<W	0.000030	mg/L		29-DEC-20	R5327682
Thorium (Th)-Dissolved	0.00003	<DL	0.00010	mg/L		29-DEC-20	R5327682
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		29-DEC-20	R5327682

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-5 SW10_SW_20201208 Sampled By: Client on 15-DEC-20 @ 10:20 Matrix: SW							
Dissolved Metals							
Titanium (Ti)-Dissolved	0.00188	<DL	0.0020	mg/L		29-DEC-20	R5327682
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		29-DEC-20	R5327682
Uranium (U)-Dissolved	0.000817	<DL	0.0050	mg/L		29-DEC-20	R5327682
Vanadium (V)-Dissolved	0.00038	<DL	0.0010	mg/L		29-DEC-20	R5327682
Zinc (Zn)-Dissolved	0.0012	<DL	0.0030	mg/L		29-DEC-20	R5327682
Zirconium (Zr)-Dissolved	0.000356	<DL	0.0010	mg/L		29-DEC-20	R5327682
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		18-DEC-20	R5322282
COD	76		10	mg/L		30-DEC-20	R5328121
Oil and Grease, Total	0.6	<DL	1.0	mg/L	29-DEC-20	29-DEC-20	R5327576
Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2541819-6 SW15_SW_20201208 Sampled By: Client on 16-DEC-20 @ 12:15 Matrix: SW							
Field Tests							
Dissolved Oxygen, Client Supplied	6.45		0	mg/L		18-DEC-20	R5319548
pH, Client Supplied	7.08		0.10	pH		29-DEC-20	R5325492
Temperature, Client	1.0		-50	Deg. C		29-DEC-20	R5325492
Physical Tests							
Color, True	170		2.0	CU		18-DEC-20	R5319494
Conductivity (EC)	333		1.0	uS/cm		18-DEC-20	R5319638
Hardness (as CaCO3)	169		0.51	mg/L		31-DEC-20	
pH	7.39		0.10	pH		18-DEC-20	R5319638
Total Suspended Solids	4.0		3.0	mg/L		21-DEC-20	R5320530
Total Dissolved Solids	276		20	mg/L		21-DEC-20	R5320578
Turbidity	18.8		0.10	NTU		18-DEC-20	R5319368
Anions and Nutrients							
Acidity (as CaCO3)	12.8		2.0	mg/L		18-DEC-20	R5319638
Alkalinity, Total (as CaCO3)	145		2.0	mg/L		19-DEC-20	R5319962
Unionized ammonia	0.000039		0.000026	mg/L		31-DEC-20	
Ammonia, Total (as N)	0.030	<T	0.020	mg/L		23-DEC-20	R5324536
Chloride (Cl)	6.20		0.10	mg/L	18-DEC-20	18-DEC-20	R5319944
Fluoride (F)	0.048		0.020	mg/L	18-DEC-20	18-DEC-20	R5319944
Nitrate (as N)	0.086	<T	0.030	mg/L		18-DEC-20	R5319944
Nitrite (as N)	0.002	<DL	0.010	mg/L		18-DEC-20	R5319944
Total Kjeldahl Nitrogen	1.30		0.18	mg/L	30-DEC-20	30-DEC-20	R5328938
Orthophosphate-Dissolved (as P)	0.0084		0.0030	mg/L	18-DEC-20	21-DEC-20	R5320130
Sulfate (SO4)	24.6		0.30	mg/L		18-DEC-20	R5319944
Cyanides							
Cyanide, Weak Acid Diss	0.0008	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Total	0.0010	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Free	0.0007	<DL	0.0020	mg/L		23-DEC-20	R5324599
Organic / Inorganic Carbon							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-6 SW15_SW_20201208							
Sampled By: Client on 16-DEC-20 @ 12:15							
Matrix: SW							
Organic / Inorganic Carbon							
Dissolved Organic Carbon	42.2	DLM	2.5	mg/L	18-DEC-20	28-DEC-20	R5325676
Total Organic Carbon	44.0	DLM	2.5	mg/L		28-DEC-20	R5324442
Total Metals							
Aluminum (Al)-Total	0.409		0.0050	mg/L		30-DEC-20	R5329636
Antimony (Sb)-Total	0.000365	<DL	0.00060	mg/L		30-DEC-20	R5329636
Arsenic (As)-Total	0.00120	<T	0.0010	mg/L		30-DEC-20	R5329636
Barium (Ba)-Total	0.0245		0.010	mg/L		30-DEC-20	R5329636
Beryllium (Be)-Total	0.0000347	<DL	0.0010	mg/L		30-DEC-20	R5329636
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		30-DEC-20	R5329636
Boron (B)-Total	0.0155	<DL	0.050	mg/L		30-DEC-20	R5329636
Cadmium (Cd)-Total	0.000022	<T	0.000017	mg/L		30-DEC-20	R5329636
Calcium (Ca)-Total	41.0		0.20	mg/L		30-DEC-20	R5329636
Cesium (Cs)-Total	0.0000620		0.000010	mg/L		30-DEC-20	R5329636
Chromium (Cr)-Total	0.00102		0.0010	mg/L		30-DEC-20	R5329636
Cobalt (Co)-Total	0.000445	<DL	0.00050	mg/L		30-DEC-20	R5329636
Copper (Cu)-Total	0.00226	<T	0.0010	mg/L		30-DEC-20	R5329636
Iron (Fe)-Total	1.06		0.020	mg/L		30-DEC-20	R5329636
Lead (Pb)-Total	0.00045	<T	0.000050	mg/L		30-DEC-20	R5329636
Lithium (Li)-Total	0.0068	<DL	0.050	mg/L		30-DEC-20	R5329636
Magnesium (Mg)-Total	17.9		0.020	mg/L		30-DEC-20	R5329636
Manganese (Mn)-Total	0.0852		0.0010	mg/L		30-DEC-20	R5329636
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321840
Molybdenum (Mo)-Total	0.000500	<DL	0.0010	mg/L		30-DEC-20	R5329636
Nickel (Ni)-Total	0.00230	<T	0.0020	mg/L		30-DEC-20	R5329636
Phosphorus (P)-Total	0.030	<DL	0.050	mg/L		30-DEC-20	R5329636
Potassium (K)-Total	2.67		0.50	mg/L		30-DEC-20	R5329636
Rubidium (Rb)-Total	0.00253		0.00020	mg/L		30-DEC-20	R5329636
Selenium (Se)-Total	0.000175	<T	0.000050	mg/L		30-DEC-20	R5329636
Silicon (Si)-Total	7.11		0.10	mg/L		30-DEC-20	R5329636
Silver (Ag)-Total	0.000004	<DL	0.00010	mg/L		30-DEC-20	R5329636
Sodium (Na)-Total	7.73		0.10	mg/L		30-DEC-20	R5329636
Strontium (Sr)-Total	0.100		0.0010	mg/L		30-DEC-20	R5329636
Sulfur (S)-Total	9.0		0.50	mg/L		30-DEC-20	R5329636
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		30-DEC-20	R5329636
Thallium (Tl)-Total	0.000015	<DL	0.00030	mg/L		30-DEC-20	R5329636
Thorium (Th)-Total	0.00015		0.00010	mg/L		30-DEC-20	R5329636
Tin (Sn)-Total	0.00006	<DL	0.0010	mg/L		30-DEC-20	R5329636
Titanium (Ti)-Total	0.0133		0.0020	mg/L		30-DEC-20	R5329636
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		30-DEC-20	R5329636
Uranium (U)-Total	0.000695	<DL	0.0050	mg/L		30-DEC-20	R5329636
Vanadium (V)-Total	0.00165	<T	0.0010	mg/L		30-DEC-20	R5329636

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-6 SW15_SW_20201208							
Sampled By: Client on 16-DEC-20 @ 12:15							
Matrix: SW							
Total Metals							
Zinc (Zn)-Total	0.0130		0.0030	mg/L		30-DEC-20	R5329636
Zirconium (Zr)-Total	0.000796	<DL	0.0010	mg/L		30-DEC-20	R5329636
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					29-DEC-20	R5327436
Aluminum (Al)-Dissolved	0.370		0.0050	mg/L		29-DEC-20	R5327682
Antimony (Sb)-Dissolved	0.000345	<DL	0.00060	mg/L		29-DEC-20	R5327682
Arsenic (As)-Dissolved	0.00110	<T	0.0010	mg/L		29-DEC-20	R5327682
Barium (Ba)-Dissolved	0.0216		0.010	mg/L		29-DEC-20	R5327682
Beryllium (Be)-Dissolved	0.000018	<DL	0.0010	mg/L		29-DEC-20	R5327682
Bismuth (Bi)-Dissolved	0.000006	<DL	0.0010	mg/L		29-DEC-20	R5327682
Boron (B)-Dissolved	0.0150	<DL	0.050	mg/L		29-DEC-20	R5327682
Cadmium (Cd)-Dissolved	0.0000095	<DL	0.000017	mg/L		29-DEC-20	R5327682
Calcium (Ca)-Dissolved	40.1		0.20	mg/L		29-DEC-20	R5327682
Cesium (Cs)-Dissolved	0.0000310		0.000010	mg/L		29-DEC-20	R5327682
Chromium (Cr)-Dissolved	0.00064	<DL	0.0010	mg/L		29-DEC-20	R5327682
Cobalt (Co)-Dissolved	0.000178	<DL	0.00050	mg/L		29-DEC-20	R5327682
Copper (Cu)-Dissolved	0.00182	<T	0.0010	mg/L		29-DEC-20	R5327682
Iron (Fe)-Dissolved	0.709		0.020	mg/L		29-DEC-20	R5327682
Lead (Pb)-Dissolved	0.00021	<T	0.000050	mg/L		29-DEC-20	R5327682
Lithium (Li)-Dissolved	0.0074	<DL	0.050	mg/L		29-DEC-20	R5327682
Magnesium (Mg)-Dissolved	16.6		0.020	mg/L		29-DEC-20	R5327682
Manganese (Mn)-Dissolved	0.0268		0.0010	mg/L		29-DEC-20	R5327682
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321841
Molybdenum (Mo)-Dissolved	0.000500	<DL	0.0010	mg/L		29-DEC-20	R5327682
Nickel (Ni)-Dissolved	0.00176	<DL	0.0020	mg/L		29-DEC-20	R5327682
Phosphorus (P)-Dissolved	0.015	<DL	0.050	mg/L		29-DEC-20	R5327682
Potassium (K)-Dissolved	2.73		0.50	mg/L		29-DEC-20	R5327682
Rubidium (Rb)-Dissolved	0.00202		0.00020	mg/L		29-DEC-20	R5327682
Selenium (Se)-Dissolved	0.000170	<T	0.000050	mg/L		29-DEC-20	R5327682
Silicon (Si)-Dissolved	7.34		0.050	mg/L		29-DEC-20	R5327682
Silver (Ag)-Dissolved	0.0000010	<DL	0.00010	mg/L		29-DEC-20	R5327682
Sodium (Na)-Dissolved	7.74		0.10	mg/L		29-DEC-20	R5327682
Strontium (Sr)-Dissolved	0.0984		0.0010	mg/L		29-DEC-20	R5327682
Sulfur (S)-Dissolved	9.0		0.50	mg/L		29-DEC-20	R5327682
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		29-DEC-20	R5327682
Thallium (Tl)-Dissolved	0.000004	<DL	0.00030	mg/L		29-DEC-20	R5327682
Thorium (Th)-Dissolved	0.00015		0.00010	mg/L		29-DEC-20	R5327682
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		29-DEC-20	R5327682
Titanium (Ti)-Dissolved	0.0173		0.0020	mg/L		29-DEC-20	R5327682
Tungsten (W)-Dissolved	0.000004	<DL	0.010	mg/L		29-DEC-20	R5327682
Uranium (U)-Dissolved	0.000654	<DL	0.0050	mg/L		29-DEC-20	R5327682

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-6 SW15_SW_20201208 Sampled By: Client on 16-DEC-20 @ 12:15 Matrix: SW							
Dissolved Metals							
Vanadium (V)-Dissolved	0.00134	<T	0.0010	mg/L		29-DEC-20	R5327682
Zinc (Zn)-Dissolved	0.0034	<T	0.0030	mg/L		29-DEC-20	R5327682
Zirconium (Zr)-Dissolved	0.000918	<DL	0.0010	mg/L		29-DEC-20	R5327682
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		18-DEC-20	R5322282
COD	91		10	mg/L		30-DEC-20	R5328121
Oil and Grease, Total	0.4	<DL	1.0	mg/L	29-DEC-20	29-DEC-20	R5327576
L2541819-7 SW17_SW_20201208 Sampled By: Client on 16-DEC-20 @ 13:10 Matrix: SW							
Field Tests							
Dissolved Oxygen, Client Supplied	16.12		0	mg/L		18-DEC-20	R5319548
pH, Client Supplied	7.13		0.10	pH		29-DEC-20	R5325492
Temperature, Client	-0.6		-50	Deg. C		29-DEC-20	R5325492
Physical Tests							
Color, True	54.7		2.0	CU		18-DEC-20	R5319494
Conductivity (EC)	108		1.0	uS/cm		18-DEC-20	R5319638
Hardness (as CaCO3)	47.7		0.51	mg/L		31-DEC-20	
pH	7.54		0.10	pH		18-DEC-20	R5319638
Total Suspended Solids	2.0	<DL	3.0	mg/L		21-DEC-20	R5320530
Total Dissolved Solids	76		13	mg/L		21-DEC-20	R5320578
Turbidity	2.99		0.10	NTU		18-DEC-20	R5319368
Anions and Nutrients							
Acidity (as CaCO3)	2.6		2.0	mg/L		18-DEC-20	R5319638
Alkalinity, Total (as CaCO3)	45.6		2.0	mg/L		19-DEC-20	R5319962
Unionized ammonia	<0.000026		0.000026	mg/L		31-DEC-20	
Ammonia, Total (as N)	0.012	<DL	0.020	mg/L		23-DEC-20	R5324536
Chloride (Cl)	2.78		0.10	mg/L	18-DEC-20	18-DEC-20	R5319944
Fluoride (F)	0.036		0.020	mg/L	18-DEC-20	18-DEC-20	R5319944
Nitrate (as N)	0.042	<T	0.030	mg/L		18-DEC-20	R5319944
Nitrite (as N)	0.002	<DL	0.010	mg/L		18-DEC-20	R5319944
Total Kjeldahl Nitrogen	0.50		0.18	mg/L	30-DEC-20	30-DEC-20	R5328938
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	18-DEC-20	21-DEC-20	R5320130
Sulfate (SO4)	4.55	<T	0.30	mg/L		18-DEC-20	R5319944
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Total	0.0008	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Free	0.0003	<DL	0.0020	mg/L		23-DEC-20	R5324599
Organic / Inorganic Carbon							
Dissolved Organic Carbon	23.4	DLM	2.5	mg/L	18-DEC-20	28-DEC-20	R5325676
Total Organic Carbon	20.2	DLM	2.5	mg/L		28-DEC-20	R5324442
Total Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-7 SW17_SW_20201208							
Sampled By: Client on 16-DEC-20 @ 13:10							
Matrix: SW							
Total Metals							
Aluminum (Al)-Total	0.0976		0.0050	mg/L		30-DEC-20	R5329636
Antimony (Sb)-Total	0.000050	<DL	0.00060	mg/L		30-DEC-20	R5329636
Arsenic (As)-Total	0.00051	<DL	0.0010	mg/L		30-DEC-20	R5329636
Barium (Ba)-Total	0.0134		0.010	mg/L		30-DEC-20	R5329636
Beryllium (Be)-Total	0.0000072	<DL	0.0010	mg/L		30-DEC-20	R5329636
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		30-DEC-20	R5329636
Boron (B)-Total	0.0070	<DL	0.050	mg/L		30-DEC-20	R5329636
Cadmium (Cd)-Total	0.000008	<DL	0.000017	mg/L		30-DEC-20	R5329636
Calcium (Ca)-Total	12.1		0.20	mg/L		30-DEC-20	R5329636
Cesium (Cs)-Total	0.0000135		0.000010	mg/L		30-DEC-20	R5329636
Chromium (Cr)-Total	0.00046	<DL	0.0010	mg/L		30-DEC-20	R5329636
Cobalt (Co)-Total	0.000085	<DL	0.00050	mg/L		30-DEC-20	R5329636
Copper (Cu)-Total	0.00116	<T	0.0010	mg/L		30-DEC-20	R5329636
Iron (Fe)-Total	0.254		0.020	mg/L		30-DEC-20	R5329636
Lead (Pb)-Total	0.00012	<T	0.000050	mg/L		30-DEC-20	R5329636
Lithium (Li)-Total	0.0012	<DL	0.050	mg/L		30-DEC-20	R5329636
Magnesium (Mg)-Total	4.55		0.020	mg/L		30-DEC-20	R5329636
Manganese (Mn)-Total	0.0142		0.0010	mg/L		30-DEC-20	R5329636
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321840
Molybdenum (Mo)-Total	0.000235	<DL	0.0010	mg/L		30-DEC-20	R5329636
Nickel (Ni)-Total	0.00074	<DL	0.0020	mg/L		30-DEC-20	R5329636
Phosphorus (P)-Total	0.010	<DL	0.050	mg/L		30-DEC-20	R5329636
Potassium (K)-Total	1.02		0.50	mg/L		30-DEC-20	R5329636
Rubidium (Rb)-Total	0.00182		0.00020	mg/L		30-DEC-20	R5329636
Selenium (Se)-Total	0.000060	<T	0.000050	mg/L		30-DEC-20	R5329636
Silicon (Si)-Total	2.83		0.10	mg/L		30-DEC-20	R5329636
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		30-DEC-20	R5329636
Sodium (Na)-Total	4.52		0.10	mg/L		30-DEC-20	R5329636
Strontium (Sr)-Total	0.0322		0.0010	mg/L		30-DEC-20	R5329636
Sulfur (S)-Total	1.6		0.50	mg/L		30-DEC-20	R5329636
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		30-DEC-20	R5329636
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		30-DEC-20	R5329636
Thorium (Th)-Total	0.00003	<DL	0.00010	mg/L		30-DEC-20	R5329636
Tin (Sn)-Total	0.00007	<DL	0.0010	mg/L		30-DEC-20	R5329636
Titanium (Ti)-Total	0.00298		0.0020	mg/L		30-DEC-20	R5329636
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		30-DEC-20	R5329636
Uranium (U)-Total	0.000106	<DL	0.0050	mg/L		30-DEC-20	R5329636
Vanadium (V)-Total	0.00050	<DL	0.0010	mg/L		30-DEC-20	R5329636
Zinc (Zn)-Total	0.0015	<DL	0.0030	mg/L		30-DEC-20	R5329636
Zirconium (Zr)-Total	0.000144	<DL	0.0010	mg/L		30-DEC-20	R5329636
Dissolved Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-7 SW17_SW_20201208							
Sampled By: Client on 16-DEC-20 @ 13:10							
Matrix: SW							
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					29-DEC-20	R5327436
Aluminum (Al)-Dissolved	0.0422		0.0050	mg/L		29-DEC-20	R5327682
Antimony (Sb)-Dissolved	0.000045	<DL	0.00060	mg/L		29-DEC-20	R5327682
Arsenic (As)-Dissolved	0.000482	<DL	0.0010	mg/L		29-DEC-20	R5327682
Barium (Ba)-Dissolved	0.0123		0.010	mg/L		29-DEC-20	R5327682
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		29-DEC-20	R5327682
Bismuth (Bi)-Dissolved	0.000002	<DL	0.0010	mg/L		29-DEC-20	R5327682
Boron (B)-Dissolved	0.0075	<DL	0.050	mg/L		29-DEC-20	R5327682
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		29-DEC-20	R5327682
Calcium (Ca)-Dissolved	12.1		0.20	mg/L		29-DEC-20	R5327682
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		29-DEC-20	R5327682
Chromium (Cr)-Dissolved	0.00023	<DL	0.0010	mg/L		29-DEC-20	R5327682
Cobalt (Co)-Dissolved	0.000022	<DL	0.00050	mg/L		29-DEC-20	R5327682
Copper (Cu)-Dissolved	0.00084	<DL	0.0010	mg/L		29-DEC-20	R5327682
Iron (Fe)-Dissolved	0.137		0.020	mg/L		29-DEC-20	R5327682
Lead (Pb)-Dissolved	0.00003	<DL	0.000050	mg/L		29-DEC-20	R5327682
Lithium (Li)-Dissolved	0.0018	<DL	0.050	mg/L		29-DEC-20	R5327682
Magnesium (Mg)-Dissolved	4.24		0.020	mg/L		29-DEC-20	R5327682
Manganese (Mn)-Dissolved	0.00260		0.0010	mg/L		29-DEC-20	R5327682
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321841
Molybdenum (Mo)-Dissolved	0.000212	<DL	0.0010	mg/L		29-DEC-20	R5327682
Nickel (Ni)-Dissolved	0.00064	<DL	0.0020	mg/L		29-DEC-20	R5327682
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		29-DEC-20	R5327682
Potassium (K)-Dissolved	1.01		0.50	mg/L		29-DEC-20	R5327682
Rubidium (Rb)-Dissolved	0.00171		0.00020	mg/L		29-DEC-20	R5327682
Selenium (Se)-Dissolved	0.000095	<T	0.000050	mg/L		29-DEC-20	R5327682
Silicon (Si)-Dissolved	2.78		0.050	mg/L		29-DEC-20	R5327682
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		29-DEC-20	R5327682
Sodium (Na)-Dissolved	4.68		0.10	mg/L		29-DEC-20	R5327682
Strontium (Sr)-Dissolved	0.0316		0.0010	mg/L		29-DEC-20	R5327682
Sulfur (S)-Dissolved	1.6		0.50	mg/L		29-DEC-20	R5327682
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		29-DEC-20	R5327682
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		29-DEC-20	R5327682
Thorium (Th)-Dissolved	0.00003	<DL	0.00010	mg/L		29-DEC-20	R5327682
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		29-DEC-20	R5327682
Titanium (Ti)-Dissolved	0.00116	<DL	0.0020	mg/L		29-DEC-20	R5327682
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		29-DEC-20	R5327682
Uranium (U)-Dissolved	0.000101	<DL	0.0050	mg/L		29-DEC-20	R5327682
Vanadium (V)-Dissolved	0.00032	<DL	0.0010	mg/L		29-DEC-20	R5327682
Zinc (Zn)-Dissolved	0.0014	<DL	0.0030	mg/L		29-DEC-20	R5327682
Zirconium (Zr)-Dissolved	0.000184	<DL	0.0010	mg/L		29-DEC-20	R5327682

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-7 SW17_SW_20201208 Sampled By: Client on 16-DEC-20 @ 13:10 Matrix: SW							
Dissolved Metals							
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		18-DEC-20	R5322282
COD	33		10	mg/L		30-DEC-20	R5328121
Oil and Grease, Total	0.4	<DL	1.0	mg/L	29-DEC-20	29-DEC-20	R5327576
L2541819-8 SW20_SW_20201208 Sampled By: Client on 15-DEC-20 @ 11:25 Matrix: SW							
Field Tests							
pH, Client Supplied	7.19		0.10	pH		29-DEC-20	R5325492
Temperature, Client	0.0		-50	Deg. C		29-DEC-20	R5325492
Physical Tests							
Color, True	102		2.0	CU		18-DEC-20	R5319494
Conductivity (EC)	346		1.0	uS/cm		18-DEC-20	R5319638
Hardness (as CaCO3)	164		0.51	mg/L		31-DEC-20	
pH	7.29		0.10	pH		18-DEC-20	R5319638
Total Suspended Solids	3.5		3.0	mg/L		18-DEC-20	R5320265
Total Dissolved Solids	226		20	mg/L		18-DEC-20	R5320048
Turbidity	7.54		0.10	NTU		18-DEC-20	R5319368
Anions and Nutrients							
Acidity (as CaCO3)	15.6		2.0	mg/L		18-DEC-20	R5319638
Alkalinity, Total (as CaCO3)	157		2.0	mg/L		19-DEC-20	R5319962
Unionized ammonia	0.000046		0.000031	mg/L		31-DEC-20	
Ammonia, Total (as N)	0.030	<T	0.020	mg/L		23-DEC-20	R5324536
Chloride (Cl)	15.6		0.10	mg/L	18-DEC-20	18-DEC-20	R5319944
Fluoride (F)	0.051		0.020	mg/L	18-DEC-20	18-DEC-20	R5319944
Nitrate (as N)	0.058	<T	0.030	mg/L		18-DEC-20	R5319944
Nitrite (as N)	<0.001	<W	0.010	mg/L		18-DEC-20	R5319944
Total Kjeldahl Nitrogen	1.15		0.18	mg/L	30-DEC-20	30-DEC-20	R5328938
Orthophosphate-Dissolved (as P)	0.0097		0.0030	mg/L	18-DEC-20	21-DEC-20	R5320130
Sulfate (SO4)	6.40		0.30	mg/L		18-DEC-20	R5319944
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Total	0.0012	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Free	0.0008	<DL	0.0020	mg/L		23-DEC-20	R5324599
Organic / Inorganic Carbon							
Dissolved Organic Carbon	37.1	DLM	2.5	mg/L	18-DEC-20	28-DEC-20	R5325676
Total Organic Carbon	35.3	DLM	2.5	mg/L		28-DEC-20	R5324442
Total Metals							
Aluminum (Al)-Total	0.142		0.0050	mg/L		30-DEC-20	R5329636
Antimony (Sb)-Total	0.000060	<DL	0.00060	mg/L		30-DEC-20	R5329636
Arsenic (As)-Total	0.00087	<DL	0.0010	mg/L		30-DEC-20	R5329636
Barium (Ba)-Total	0.0168		0.010	mg/L		30-DEC-20	R5329636

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-8 SW20_SW_20201208							
Sampled By: Client on 15-DEC-20 @ 11:25							
Matrix: SW							
Total Metals							
Beryllium (Be)-Total	0.0000112	<DL	0.0010	mg/L		30-DEC-20	R5329636
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		30-DEC-20	R5329636
Boron (B)-Total	0.0150	<DL	0.050	mg/L		30-DEC-20	R5329636
Cadmium (Cd)-Total	0.000010	<DL	0.000017	mg/L		30-DEC-20	R5329636
Calcium (Ca)-Total	39.1		0.20	mg/L		30-DEC-20	R5329636
Cesium (Cs)-Total	0.0000215		0.000010	mg/L		30-DEC-20	R5329636
Chromium (Cr)-Total	0.00050	<DL	0.0010	mg/L		30-DEC-20	R5329636
Cobalt (Co)-Total	0.000295	<DL	0.00050	mg/L		30-DEC-20	R5329636
Copper (Cu)-Total	0.00080	<DL	0.0010	mg/L		30-DEC-20	R5329636
Iron (Fe)-Total	0.865		0.020	mg/L		30-DEC-20	R5329636
Lead (Pb)-Total	0.00014	<T	0.000050	mg/L		30-DEC-20	R5329636
Lithium (Li)-Total	0.0062	<DL	0.050	mg/L		30-DEC-20	R5329636
Magnesium (Mg)-Total	16.9		0.020	mg/L		30-DEC-20	R5329636
Manganese (Mn)-Total	0.125		0.0010	mg/L		30-DEC-20	R5329636
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321840
Molybdenum (Mo)-Total	0.000230	<DL	0.0010	mg/L		30-DEC-20	R5329636
Nickel (Ni)-Total	0.00160	<DL	0.0020	mg/L		30-DEC-20	R5329636
Phosphorus (P)-Total	0.035	<DL	0.050	mg/L		30-DEC-20	R5329636
Potassium (K)-Total	1.64		0.50	mg/L		30-DEC-20	R5329636
Rubidium (Rb)-Total	0.00172		0.00020	mg/L		30-DEC-20	R5329636
Selenium (Se)-Total	0.000130	<T	0.000050	mg/L		30-DEC-20	R5329636
Silicon (Si)-Total	6.94		0.10	mg/L		30-DEC-20	R5329636
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		30-DEC-20	R5329636
Sodium (Na)-Total	9.36		0.10	mg/L		30-DEC-20	R5329636
Strontium (Sr)-Total	0.100		0.0010	mg/L		30-DEC-20	R5329636
Sulfur (S)-Total	2.6		0.50	mg/L		30-DEC-20	R5329636
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		30-DEC-20	R5329636
Thallium (Tl)-Total	0.000005	<DL	0.00030	mg/L		30-DEC-20	R5329636
Thorium (Th)-Total	0.00006	<DL	0.00010	mg/L		30-DEC-20	R5329636
Tin (Sn)-Total	0.00005	<DL	0.0010	mg/L		30-DEC-20	R5329636
Titanium (Ti)-Total	0.00440		0.0020	mg/L		30-DEC-20	R5329636
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		30-DEC-20	R5329636
Uranium (U)-Total	0.000490	<DL	0.0050	mg/L		30-DEC-20	R5329636
Vanadium (V)-Total	0.00080	<DL	0.0010	mg/L		30-DEC-20	R5329636
Zinc (Zn)-Total	0.0050	<T	0.0030	mg/L		30-DEC-20	R5329636
Zirconium (Zr)-Total	0.000372	<DL	0.0010	mg/L		30-DEC-20	R5329636
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					29-DEC-20	R5327436
Aluminum (Al)-Dissolved	0.0576		0.0050	mg/L		29-DEC-20	R5327682
Antimony (Sb)-Dissolved	0.000050	<DL	0.00060	mg/L		29-DEC-20	R5327682
Arsenic (As)-Dissolved	0.000765	<DL	0.0010	mg/L		29-DEC-20	R5327682

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-8 SW20_SW_20201208							
Sampled By: Client on 15-DEC-20 @ 11:25							
Matrix: SW							
Dissolved Metals							
Barium (Ba)-Dissolved	0.0144		0.010	mg/L		29-DEC-20	R5327682
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		29-DEC-20	R5327682
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		29-DEC-20	R5327682
Boron (B)-Dissolved	0.0145	<DL	0.050	mg/L		29-DEC-20	R5327682
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		29-DEC-20	R5327682
Calcium (Ca)-Dissolved	39.5		0.20	mg/L		29-DEC-20	R5327682
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		29-DEC-20	R5327682
Chromium (Cr)-Dissolved	0.00025	<DL	0.0010	mg/L		29-DEC-20	R5327682
Cobalt (Co)-Dissolved	0.000094	<DL	0.00050	mg/L		29-DEC-20	R5327682
Copper (Cu)-Dissolved	0.00062	<DL	0.0010	mg/L		29-DEC-20	R5327682
Iron (Fe)-Dissolved	0.490		0.020	mg/L		29-DEC-20	R5327682
Lead (Pb)-Dissolved	0.00004	<DL	0.000050	mg/L		29-DEC-20	R5327682
Lithium (Li)-Dissolved	0.0072	<DL	0.050	mg/L		29-DEC-20	R5327682
Magnesium (Mg)-Dissolved	15.8		0.020	mg/L		29-DEC-20	R5327682
Manganese (Mn)-Dissolved	0.00996		0.0010	mg/L		29-DEC-20	R5327682
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321841
Molybdenum (Mo)-Dissolved	0.000218	<DL	0.0010	mg/L		29-DEC-20	R5327682
Nickel (Ni)-Dissolved	0.00138	<DL	0.0020	mg/L		29-DEC-20	R5327682
Phosphorus (P)-Dissolved	0.015	<DL	0.050	mg/L		29-DEC-20	R5327682
Potassium (K)-Dissolved	1.66		0.50	mg/L		29-DEC-20	R5327682
Rubidium (Rb)-Dissolved	0.00144		0.00020	mg/L		29-DEC-20	R5327682
Selenium (Se)-Dissolved	0.000155	<T	0.000050	mg/L		29-DEC-20	R5327682
Silicon (Si)-Dissolved	6.99		0.050	mg/L		29-DEC-20	R5327682
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		29-DEC-20	R5327682
Sodium (Na)-Dissolved	9.47		0.10	mg/L		29-DEC-20	R5327682
Strontium (Sr)-Dissolved	0.0985		0.0010	mg/L		29-DEC-20	R5327682
Sulfur (S)-Dissolved	2.6		0.50	mg/L		29-DEC-20	R5327682
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		29-DEC-20	R5327682
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		29-DEC-20	R5327682
Thorium (Th)-Dissolved	0.00005	<DL	0.00010	mg/L		29-DEC-20	R5327682
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		29-DEC-20	R5327682
Titanium (Ti)-Dissolved	0.00320		0.0020	mg/L		29-DEC-20	R5327682
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		29-DEC-20	R5327682
Uranium (U)-Dissolved	0.000455	<DL	0.0050	mg/L		29-DEC-20	R5327682
Vanadium (V)-Dissolved	0.00044	<DL	0.0010	mg/L		29-DEC-20	R5327682
Zinc (Zn)-Dissolved	0.0024	<DL	0.0030	mg/L		29-DEC-20	R5327682
Zirconium (Zr)-Dissolved	0.000394	<DL	0.0010	mg/L		29-DEC-20	R5327682
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		18-DEC-20	R5322282
COD	73		10	mg/L		30-DEC-20	R5328121
Oil and Grease, Total	<0.2	<W	1.0	mg/L	29-DEC-20	29-DEC-20	R5327576

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-8 SW20_SW_20201208 Sampled By: Client on 15-DEC-20 @ 11:25 Matrix: SW							
Radiological Parameters							
Ra-226	<0.010	<DL	0.010	Bq/L		07-JAN-21	R5343138
Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2541819-9 SW21A_SW_20201208 Sampled By: Client on 16-DEC-20 @ 09:10 Matrix: SW							
Field Tests							
pH, Client Supplied	7.27		0.10	pH		29-DEC-20	R5325492
Temperature, Client	0.2		-50	Deg. C		29-DEC-20	R5325492
Physical Tests							
Color, True	74.7		2.0	CU		18-DEC-20	R5319494
Conductivity (EC)	549		1.0	uS/cm		18-DEC-20	R5319638
Hardness (as CaCO3)	254		0.51	mg/L		31-DEC-20	
pH	7.19		0.10	pH		18-DEC-20	R5319638
Total Suspended Solids	3.5		3.0	mg/L		18-DEC-20	R5320265
Total Dissolved Solids	314		20	mg/L		18-DEC-20	R5320048
Turbidity	6.64		0.10	NTU		18-DEC-20	R5319368
Anions and Nutrients							
Acidity (as CaCO3)	27.2		2.0	mg/L		18-DEC-20	R5319638
Alkalinity, Total (as CaCO3)	231		2.0	mg/L		19-DEC-20	R5319962
Unionized ammonia	<0.000038		0.000038	mg/L		31-DEC-20	
Ammonia, Total (as N)	0.016	<DL	0.020	mg/L		23-DEC-20	R5324536
Chloride (Cl)	33.4		0.10	mg/L	18-DEC-20	18-DEC-20	R5319944
Fluoride (F)	0.064		0.020	mg/L	18-DEC-20	18-DEC-20	R5319944
Nitrate (as N)	0.070	<T	0.030	mg/L		18-DEC-20	R5319944
Nitrite (as N)	<0.001	<W	0.010	mg/L		18-DEC-20	R5319944
Total Kjeldahl Nitrogen	0.90	<DL	1.8	mg/L	28-DEC-20	29-DEC-20	R5325956
Orthophosphate-Dissolved (as P)	0.0401		0.0030	mg/L	18-DEC-20	21-DEC-20	R5320130
Sulfate (SO4)	25.5		0.30	mg/L		18-DEC-20	R5319944
Cyanides							
Cyanide, Weak Acid Diss	0.0006	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Total	0.0010	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Free	0.0007	<DL	0.0020	mg/L		23-DEC-20	R5324599
Organic / Inorganic Carbon							
Dissolved Organic Carbon	37.0	DLM	2.5	mg/L	18-DEC-20	28-DEC-20	R5325676
Total Organic Carbon	33.9	DLM	2.5	mg/L		28-DEC-20	R5324442
Total Metals							
Aluminum (Al)-Total	0.0978		0.0050	mg/L		30-DEC-20	R5329636
Antimony (Sb)-Total	0.000070	<DL	0.00060	mg/L		30-DEC-20	R5329636
Arsenic (As)-Total	0.00121	<T	0.0010	mg/L		30-DEC-20	R5329636
Barium (Ba)-Total	0.0292		0.010	mg/L		30-DEC-20	R5329636
Beryllium (Be)-Total	0.0000133	<DL	0.0010	mg/L		30-DEC-20	R5329636
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		30-DEC-20	R5329636
Boron (B)-Total	0.0160	<DL	0.050	mg/L		30-DEC-20	R5329636

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-9 SW21A_SW_20201208							
Sampled By: Client on 16-DEC-20 @ 09:10							
Matrix: SW							
Total Metals							
Cadmium (Cd)-Total	0.000016	<DL	0.000017	mg/L		30-DEC-20	R5329636
Calcium (Ca)-Total	60.7		0.20	mg/L		30-DEC-20	R5329636
Cesium (Cs)-Total	0.0000120		0.000010	mg/L		30-DEC-20	R5329636
Chromium (Cr)-Total	0.00046	<DL	0.0010	mg/L		30-DEC-20	R5329636
Cobalt (Co)-Total	0.000730	<T	0.00050	mg/L		30-DEC-20	R5329636
Copper (Cu)-Total	0.00066	<DL	0.0010	mg/L		30-DEC-20	R5329636
Iron (Fe)-Total	1.22		0.020	mg/L		30-DEC-20	R5329636
Lead (Pb)-Total	0.00012	<T	0.000050	mg/L		30-DEC-20	R5329636
Lithium (Li)-Total	0.0090	<DL	0.050	mg/L		30-DEC-20	R5329636
Magnesium (Mg)-Total	26.7		0.020	mg/L		30-DEC-20	R5329636
Manganese (Mn)-Total	0.975		0.0010	mg/L		30-DEC-20	R5329636
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321840
Molybdenum (Mo)-Total	0.000270	<DL	0.0010	mg/L		30-DEC-20	R5329636
Nickel (Ni)-Total	0.00200	<T	0.0020	mg/L		30-DEC-20	R5329636
Phosphorus (P)-Total	0.090		0.050	mg/L		30-DEC-20	R5329636
Potassium (K)-Total	2.79		0.50	mg/L		30-DEC-20	R5329636
Rubidium (Rb)-Total	0.00220		0.00020	mg/L		30-DEC-20	R5329636
Selenium (Se)-Total	0.000165	<T	0.000050	mg/L		30-DEC-20	R5329636
Silicon (Si)-Total	7.14		0.10	mg/L		30-DEC-20	R5329636
Silver (Ag)-Total	<0.000001	<W	0.00010	mg/L		30-DEC-20	R5329636
Sodium (Na)-Total	15.2		0.10	mg/L		30-DEC-20	R5329636
Strontium (Sr)-Total	0.168		0.0010	mg/L		30-DEC-20	R5329636
Sulfur (S)-Total	9.4		0.50	mg/L		30-DEC-20	R5329636
Tellurium (Te)-Total	0.00006	<DL	0.0010	mg/L		30-DEC-20	R5329636
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		30-DEC-20	R5329636
Thorium (Th)-Total	0.00004	<DL	0.00010	mg/L		30-DEC-20	R5329636
Tin (Sn)-Total	0.00031	<DL	0.0010	mg/L		30-DEC-20	R5329636
Titanium (Ti)-Total	0.00349		0.0020	mg/L		30-DEC-20	R5329636
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		30-DEC-20	R5329636
Uranium (U)-Total	0.000817	<DL	0.0050	mg/L		30-DEC-20	R5329636
Vanadium (V)-Total	0.00065	<DL	0.0010	mg/L		30-DEC-20	R5329636
Zinc (Zn)-Total	0.0100		0.0030	mg/L		30-DEC-20	R5329636
Zirconium (Zr)-Total	0.000376	<DL	0.0010	mg/L		30-DEC-20	R5329636
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					29-DEC-20	R5327436
Aluminum (Al)-Dissolved	0.0120	<T	0.0050	mg/L		29-DEC-20	R5327682
Antimony (Sb)-Dissolved	0.000065	<DL	0.00060	mg/L		29-DEC-20	R5327682
Arsenic (As)-Dissolved	0.000904	<DL	0.0010	mg/L		29-DEC-20	R5327682
Barium (Ba)-Dissolved	0.0170		0.010	mg/L		29-DEC-20	R5327682
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		29-DEC-20	R5327682
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		29-DEC-20	R5327682

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-9 SW21A_SW_20201208 Sampled By: Client on 16-DEC-20 @ 09:10 Matrix: SW							
Dissolved Metals							
Boron (B)-Dissolved	0.0160	<DL	0.050	mg/L		29-DEC-20	R5327682
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		29-DEC-20	R5327682
Calcium (Ca)-Dissolved	60.5		0.20	mg/L		29-DEC-20	R5327682
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		29-DEC-20	R5327682
Chromium (Cr)-Dissolved	0.00020	<DL	0.0010	mg/L		29-DEC-20	R5327682
Cobalt (Co)-Dissolved	0.000126	<DL	0.00050	mg/L		29-DEC-20	R5327682
Copper (Cu)-Dissolved	0.00048	<DL	0.0010	mg/L		29-DEC-20	R5327682
Iron (Fe)-Dissolved	0.273		0.020	mg/L		29-DEC-20	R5327682
Lead (Pb)-Dissolved	<0.00001	<W	0.000050	mg/L		29-DEC-20	R5327682
Lithium (Li)-Dissolved	0.0098	<DL	0.050	mg/L		29-DEC-20	R5327682
Magnesium (Mg)-Dissolved	24.9		0.020	mg/L		29-DEC-20	R5327682
Manganese (Mn)-Dissolved	0.0230		0.0010	mg/L		29-DEC-20	R5327682
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321841
Molybdenum (Mo)-Dissolved	0.000228	<DL	0.0010	mg/L		29-DEC-20	R5327682
Nickel (Ni)-Dissolved	0.00158	<DL	0.0020	mg/L		29-DEC-20	R5327682
Phosphorus (P)-Dissolved	0.040	<DL	0.050	mg/L		29-DEC-20	R5327682
Potassium (K)-Dissolved	2.85		0.50	mg/L		29-DEC-20	R5327682
Rubidium (Rb)-Dissolved	0.00202		0.00020	mg/L		29-DEC-20	R5327682
Selenium (Se)-Dissolved	0.000130	<T	0.000050	mg/L		29-DEC-20	R5327682
Silicon (Si)-Dissolved	7.17		0.050	mg/L		29-DEC-20	R5327682
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		29-DEC-20	R5327682
Sodium (Na)-Dissolved	15.2		0.10	mg/L		29-DEC-20	R5327682
Strontium (Sr)-Dissolved	0.159		0.0010	mg/L		29-DEC-20	R5327682
Sulfur (S)-Dissolved	9.0		0.50	mg/L		29-DEC-20	R5327682
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		29-DEC-20	R5327682
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		29-DEC-20	R5327682
Thorium (Th)-Dissolved	0.00001	<DL	0.00010	mg/L		29-DEC-20	R5327682
Tin (Sn)-Dissolved	0.000055	<DL	0.0010	mg/L		29-DEC-20	R5327682
Titanium (Ti)-Dissolved	0.00078	<DL	0.0020	mg/L		29-DEC-20	R5327682
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		29-DEC-20	R5327682
Uranium (U)-Dissolved	0.000772	<DL	0.0050	mg/L		29-DEC-20	R5327682
Vanadium (V)-Dissolved	0.00024	<DL	0.0010	mg/L		29-DEC-20	R5327682
Zinc (Zn)-Dissolved	0.0012	<DL	0.0030	mg/L		29-DEC-20	R5327682
Zirconium (Zr)-Dissolved	0.000236	<DL	0.0010	mg/L		29-DEC-20	R5327682
Aggregate Organics							
Biochemical Oxygen Demand	2.8		2.0	mg/L		18-DEC-20	R5322282
COD	73		10	mg/L		30-DEC-20	R5328121
Oil and Grease, Total	1.2		1.0	mg/L	29-DEC-20	29-DEC-20	R5327576
L2541819-10 SW22A_SW_20201208 Sampled By: Client on 16-DEC-20 @ 09:40 Matrix: SW							
Field Tests							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-10 SW22A_SW_20201208							
Sampled By: Client on 16-DEC-20 @ 09:40							
Matrix: SW							
Field Tests							
pH, Client Supplied	7.38		0.10	pH		29-DEC-20	R5325492
Temperature, Client	-0.4		-50	Deg. C		29-DEC-20	R5325492
Physical Tests							
Color, True	64.5		2.0	CU		18-DEC-20	R5319494
Conductivity (EC)	614		1.0	uS/cm		18-DEC-20	R5319638
Hardness (as CaCO3)	278		0.51	mg/L		31-DEC-20	
pH	7.30		0.10	pH		18-DEC-20	R5319638
Total Suspended Solids	4.5		3.0	mg/L		21-DEC-20	R5320530
Total Dissolved Solids	412		20	mg/L		21-DEC-20	R5320578
Turbidity	7.16		0.10	NTU		18-DEC-20	R5319368
Anions and Nutrients							
Acidity (as CaCO3)	22.4		2.0	mg/L		18-DEC-20	R5319638
Alkalinity, Total (as CaCO3)	235		2.0	mg/L		19-DEC-20	R5319962
Unionized ammonia	0.000056		0.000046	mg/L		31-DEC-20	
Ammonia, Total (as N)	0.024	<T	0.020	mg/L		23-DEC-20	R5324536
Chloride (Cl)	33.7		0.10	mg/L	18-DEC-20	18-DEC-20	R5319944
Fluoride (F)	0.074		0.020	mg/L	18-DEC-20	18-DEC-20	R5319944
Nitrate (as N)	0.046	<T	0.030	mg/L		18-DEC-20	R5319944
Nitrite (as N)	0.003	<DL	0.010	mg/L		18-DEC-20	R5319944
Total Kjeldahl Nitrogen	1.10		0.18	mg/L	30-DEC-20	30-DEC-20	R5328938
Orthophosphate-Dissolved (as P)	0.0340		0.0030	mg/L	18-DEC-20	21-DEC-20	R5320130
Sulfate (SO4)	71.3		0.30	mg/L		18-DEC-20	R5319944
Cyanides							
Cyanide, Weak Acid Diss	0.0008	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Total	0.0012	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Free	0.0007	<DL	0.0020	mg/L		23-DEC-20	R5324599
Organic / Inorganic Carbon							
Dissolved Organic Carbon	32.2	DLM	2.5	mg/L	18-DEC-20	28-DEC-20	R5325676
Total Organic Carbon	28.0	DLM	2.5	mg/L		28-DEC-20	R5324442
Total Metals							
Aluminum (Al)-Total	0.119		0.0050	mg/L		30-DEC-20	R5329636
Antimony (Sb)-Total	0.000275	<DL	0.00060	mg/L		30-DEC-20	R5329636
Arsenic (As)-Total	0.00122	<T	0.0010	mg/L		30-DEC-20	R5329636
Barium (Ba)-Total	0.0350		0.010	mg/L		30-DEC-20	R5329636
Beryllium (Be)-Total	0.0000112	<DL	0.0010	mg/L		30-DEC-20	R5329636
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		30-DEC-20	R5329636
Boron (B)-Total	0.0185	<DL	0.050	mg/L		30-DEC-20	R5329636
Cadmium (Cd)-Total	0.000016	<DL	0.000017	mg/L		30-DEC-20	R5329636
Calcium (Ca)-Total	67.0		0.20	mg/L		30-DEC-20	R5329636
Cesium (Cs)-Total	0.0000145		0.000010	mg/L		30-DEC-20	R5329636
Chromium (Cr)-Total	0.00042	<DL	0.0010	mg/L		30-DEC-20	R5329636
Cobalt (Co)-Total	0.000780	<T	0.00050	mg/L		30-DEC-20	R5329636

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-10 SW22A_SW_20201208							
Sampled By: Client on 16-DEC-20 @ 09:40							
Matrix: SW							
Total Metals							
Copper (Cu)-Total	0.00078	<DL	0.0010	mg/L		30-DEC-20	R5329636
Iron (Fe)-Total	0.988		0.020	mg/L		30-DEC-20	R5329636
Lead (Pb)-Total	0.00013	<T	0.000050	mg/L		30-DEC-20	R5329636
Lithium (Li)-Total	0.0096	<DL	0.050	mg/L		30-DEC-20	R5329636
Magnesium (Mg)-Total	28.9		0.020	mg/L		30-DEC-20	R5329636
Manganese (Mn)-Total	1.01		0.0010	mg/L		30-DEC-20	R5329636
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321840
Molybdenum (Mo)-Total	0.000440	<DL	0.0010	mg/L		30-DEC-20	R5329636
Nickel (Ni)-Total	0.00202	<T	0.0020	mg/L		30-DEC-20	R5329636
Phosphorus (P)-Total	0.075		0.050	mg/L		30-DEC-20	R5329636
Potassium (K)-Total	4.24		0.50	mg/L		30-DEC-20	R5329636
Rubidium (Rb)-Total	0.00227		0.00020	mg/L		30-DEC-20	R5329636
Selenium (Se)-Total	0.000190	<T	0.000050	mg/L		30-DEC-20	R5329636
Silicon (Si)-Total	7.04		0.10	mg/L		30-DEC-20	R5329636
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		30-DEC-20	R5329636
Sodium (Na)-Total	19.9		0.10	mg/L		30-DEC-20	R5329636
Strontium (Sr)-Total	0.180		0.0010	mg/L		30-DEC-20	R5329636
Sulfur (S)-Total	22.4		0.50	mg/L		30-DEC-20	R5329636
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		30-DEC-20	R5329636
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		30-DEC-20	R5329636
Thorium (Th)-Total	0.00004	<DL	0.00010	mg/L		30-DEC-20	R5329636
Tin (Sn)-Total	0.00002	<DL	0.0010	mg/L		30-DEC-20	R5329636
Titanium (Ti)-Total	0.00441		0.0020	mg/L		30-DEC-20	R5329636
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		30-DEC-20	R5329636
Uranium (U)-Total	0.00112	<DL	0.0050	mg/L		30-DEC-20	R5329636
Vanadium (V)-Total	0.00075	<DL	0.0010	mg/L		30-DEC-20	R5329636
Zinc (Zn)-Total	0.0035	<T	0.0030	mg/L		30-DEC-20	R5329636
Zirconium (Zr)-Total	0.000306	<DL	0.0010	mg/L		30-DEC-20	R5329636
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					29-DEC-20	R5327436
Aluminum (Al)-Dissolved	0.0192	<T	0.0050	mg/L		29-DEC-20	R5327682
Antimony (Sb)-Dissolved	0.000245	<DL	0.00060	mg/L		29-DEC-20	R5327682
Arsenic (As)-Dissolved	0.000913	<DL	0.0010	mg/L		29-DEC-20	R5327682
Barium (Ba)-Dissolved	0.0220		0.010	mg/L		29-DEC-20	R5327682
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		29-DEC-20	R5327682
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		29-DEC-20	R5327682
Boron (B)-Dissolved	0.0175	<DL	0.050	mg/L		29-DEC-20	R5327682
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		29-DEC-20	R5327682
Calcium (Ca)-Dissolved	67.0		0.20	mg/L		29-DEC-20	R5327682
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		29-DEC-20	R5327682
Chromium (Cr)-Dissolved	0.00017	<DL	0.0010	mg/L		29-DEC-20	R5327682

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-10 SW22A_SW_20201208 Sampled By: Client on 16-DEC-20 @ 09:40 Matrix: SW							
Dissolved Metals							
Cobalt (Co)-Dissolved	0.000168	<DL	0.00050	mg/L		29-DEC-20	R5327682
Copper (Cu)-Dissolved	0.00060	<DL	0.0010	mg/L		29-DEC-20	R5327682
Iron (Fe)-Dissolved	0.243		0.020	mg/L		29-DEC-20	R5327682
Lead (Pb)-Dissolved	<0.00001	<W	0.000050	mg/L		29-DEC-20	R5327682
Lithium (Li)-Dissolved	0.0104	<DL	0.050	mg/L		29-DEC-20	R5327682
Magnesium (Mg)-Dissolved	26.9		0.020	mg/L		29-DEC-20	R5327682
Manganese (Mn)-Dissolved	0.0289		0.0010	mg/L		29-DEC-20	R5327682
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321841
Molybdenum (Mo)-Dissolved	0.000364	<DL	0.0010	mg/L		29-DEC-20	R5327682
Nickel (Ni)-Dissolved	0.00160	<DL	0.0020	mg/L		29-DEC-20	R5327682
Phosphorus (P)-Dissolved	0.025	<DL	0.050	mg/L		29-DEC-20	R5327682
Potassium (K)-Dissolved	4.45		0.50	mg/L		29-DEC-20	R5327682
Rubidium (Rb)-Dissolved	0.00201		0.00020	mg/L		29-DEC-20	R5327682
Selenium (Se)-Dissolved	0.000175	<T	0.000050	mg/L		29-DEC-20	R5327682
Silicon (Si)-Dissolved	7.05		0.050	mg/L		29-DEC-20	R5327682
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		29-DEC-20	R5327682
Sodium (Na)-Dissolved	19.7		0.10	mg/L		29-DEC-20	R5327682
Strontium (Sr)-Dissolved	0.177		0.0010	mg/L		29-DEC-20	R5327682
Sulfur (S)-Dissolved	22.8		0.50	mg/L		29-DEC-20	R5327682
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		29-DEC-20	R5327682
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		29-DEC-20	R5327682
Thorium (Th)-Dissolved	0.00002	<DL	0.00010	mg/L		29-DEC-20	R5327682
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		29-DEC-20	R5327682
Titanium (Ti)-Dissolved	0.00120	<DL	0.0020	mg/L		29-DEC-20	R5327682
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		29-DEC-20	R5327682
Uranium (U)-Dissolved	0.00107	<DL	0.0050	mg/L		29-DEC-20	R5327682
Vanadium (V)-Dissolved	0.00026	<DL	0.0010	mg/L		29-DEC-20	R5327682
Zinc (Zn)-Dissolved	0.0008	<DL	0.0030	mg/L		29-DEC-20	R5327682
Zirconium (Zr)-Dissolved	0.000232	<DL	0.0010	mg/L		29-DEC-20	R5327682
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		18-DEC-20	R5322282
COD	65		10	mg/L		30-DEC-20	R5328121
Oil and Grease, Total	0.4	<DL	1.0	mg/L	29-DEC-20	29-DEC-20	R5327576
Radiological Parameters							
Ra-226	<0.010	<DL	0.010	Bq/L		07-JAN-21	R5343138
L2541819-11 SW23_SW_20201208 Sampled By: Client on 16-DEC-20 @ 11:05 Matrix: SW							
Field Tests							
Dissolved Oxygen, Client Supplied	7.21		0	mg/L		18-DEC-20	R5319548
pH, Client Supplied	6.92		0.10	pH		29-DEC-20	R5325492
Temperature, Client	0.7		-50	Deg. C		29-DEC-20	R5325492

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-11 SW23_SW_20201208							
Sampled By: Client on 16-DEC-20 @ 11:05							
Matrix: SW							
Field Tests							
Physical Tests							
Color, True	111		2.0	CU		18-DEC-20	R5319494
Conductivity (EC)	479		1.0	uS/cm		18-DEC-20	R5319638
Hardness (as CaCO3)	228		0.51	mg/L		31-DEC-20	
pH	7.26		0.10	pH		18-DEC-20	R5319638
Total Suspended Solids	4.5		3.0	mg/L		21-DEC-20	R5320530
Total Dissolved Solids	348		20	mg/L		21-DEC-20	R5320578
Turbidity	11.5		0.10	NTU		18-DEC-20	R5319368
Anions and Nutrients							
Acidity (as CaCO3)	21.8		2.0	mg/L		18-DEC-20	R5319638
Alkalinity, Total (as CaCO3)	198		2.0	mg/L		19-DEC-20	R5319962
Unionized ammonia	0.000040		0.000018	mg/L		31-DEC-20	
Ammonia, Total (as N)	0.044	<T	0.020	mg/L		23-DEC-20	R5324536
Chloride (Cl)	13.4		0.10	mg/L	18-DEC-20	18-DEC-20	R5319944
Fluoride (F)	0.054		0.020	mg/L	18-DEC-20	18-DEC-20	R5319944
Nitrate (as N)	0.036	<T	0.030	mg/L		18-DEC-20	R5319944
Nitrite (as N)	0.001	<DL	0.010	mg/L		18-DEC-20	R5319944
Total Kjeldahl Nitrogen	1.25		0.18	mg/L	30-DEC-20	30-DEC-20	R5328938
Orthophosphate-Dissolved (as P)	0.0121		0.0030	mg/L	18-DEC-20	21-DEC-20	R5320130
Sulfate (SO4)	45.4		0.30	mg/L		18-DEC-20	R5319944
Cyanides							
Cyanide, Weak Acid Diss	0.0006	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Total	0.0012	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Free	0.0007	<DL	0.0020	mg/L		23-DEC-20	R5324599
Organic / Inorganic Carbon							
Dissolved Organic Carbon	36.6	DLM	2.5	mg/L	18-DEC-20	28-DEC-20	R5325676
Total Organic Carbon	37.4	DLM	2.5	mg/L		28-DEC-20	R5324442
Total Metals							
Aluminum (Al)-Total	0.324		0.0050	mg/L		30-DEC-20	R5329636
Antimony (Sb)-Total	0.000395	<DL	0.00060	mg/L		30-DEC-20	R5329636
Arsenic (As)-Total	0.00122	<T	0.0010	mg/L		30-DEC-20	R5329636
Barium (Ba)-Total	0.0297		0.010	mg/L		30-DEC-20	R5329636
Beryllium (Be)-Total	0.0000194	<DL	0.0010	mg/L		30-DEC-20	R5329636
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		30-DEC-20	R5329636
Boron (B)-Total	0.0150	<DL	0.050	mg/L		30-DEC-20	R5329636
Cadmium (Cd)-Total	0.000014	<DL	0.000017	mg/L		30-DEC-20	R5329636
Calcium (Ca)-Total	55.5		0.20	mg/L		30-DEC-20	R5329636
Cesium (Cs)-Total	0.0000500		0.000010	mg/L		30-DEC-20	R5329636
Chromium (Cr)-Total	0.00088	<DL	0.0010	mg/L		30-DEC-20	R5329636
Cobalt (Co)-Total	0.000585	<T	0.00050	mg/L		30-DEC-20	R5329636
Copper (Cu)-Total	0.00152	<T	0.0010	mg/L		30-DEC-20	R5329636
Iron (Fe)-Total	1.03		0.020	mg/L		30-DEC-20	R5329636

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-11 SW23_SW_20201208							
Sampled By: Client on 16-DEC-20 @ 11:05							
Matrix: SW							
Total Metals							
Lead (Pb)-Total	0.00028	<T	0.000050	mg/L		30-DEC-20	R5329636
Lithium (Li)-Total	0.0076	<DL	0.050	mg/L		30-DEC-20	R5329636
Magnesium (Mg)-Total	23.9		0.020	mg/L		30-DEC-20	R5329636
Manganese (Mn)-Total	0.259		0.0010	mg/L		30-DEC-20	R5329636
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321840
Molybdenum (Mo)-Total	0.000515	<DL	0.0010	mg/L		30-DEC-20	R5329636
Nickel (Ni)-Total	0.00234	<T	0.0020	mg/L		30-DEC-20	R5329636
Phosphorus (P)-Total	0.035	<DL	0.050	mg/L		30-DEC-20	R5329636
Potassium (K)-Total	3.58		0.50	mg/L		30-DEC-20	R5329636
Rubidium (Rb)-Total	0.00256		0.00020	mg/L		30-DEC-20	R5329636
Selenium (Se)-Total	0.000130	<T	0.000050	mg/L		30-DEC-20	R5329636
Silicon (Si)-Total	7.32		0.10	mg/L		30-DEC-20	R5329636
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		30-DEC-20	R5329636
Sodium (Na)-Total	13.3		0.10	mg/L		30-DEC-20	R5329636
Strontium (Sr)-Total	0.137		0.0010	mg/L		30-DEC-20	R5329636
Sulfur (S)-Total	17.8		0.50	mg/L		30-DEC-20	R5329636
Tellurium (Te)-Total	0.00004	<DL	0.0010	mg/L		30-DEC-20	R5329636
Thallium (Tl)-Total	0.000010	<DL	0.00030	mg/L		30-DEC-20	R5329636
Thorium (Th)-Total	0.00009	<DL	0.00010	mg/L		30-DEC-20	R5329636
Tin (Sn)-Total	0.00005	<DL	0.0010	mg/L		30-DEC-20	R5329636
Titanium (Ti)-Total	0.0117		0.0020	mg/L		30-DEC-20	R5329636
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		30-DEC-20	R5329636
Uranium (U)-Total	0.00105	<DL	0.0050	mg/L		30-DEC-20	R5329636
Vanadium (V)-Total	0.00135	<T	0.0010	mg/L		30-DEC-20	R5329636
Zinc (Zn)-Total	0.0270		0.0030	mg/L		30-DEC-20	R5329636
Zirconium (Zr)-Total	0.000592	<DL	0.0010	mg/L		30-DEC-20	R5329636
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					29-DEC-20	R5327436
Aluminum (Al)-Dissolved	0.120		0.0050	mg/L		29-DEC-20	R5327682
Antimony (Sb)-Dissolved	0.000325	<DL	0.00060	mg/L		29-DEC-20	R5327682
Arsenic (As)-Dissolved	0.00103	<T	0.0010	mg/L		29-DEC-20	R5327682
Barium (Ba)-Dissolved	0.0229		0.010	mg/L		29-DEC-20	R5327682
Beryllium (Be)-Dissolved	0.000008	<DL	0.0010	mg/L		29-DEC-20	R5327682
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		29-DEC-20	R5327682
Boron (B)-Dissolved	0.0150	<DL	0.050	mg/L		29-DEC-20	R5327682
Cadmium (Cd)-Dissolved	0.0000030	<DL	0.000017	mg/L		29-DEC-20	R5327682
Calcium (Ca)-Dissolved	54.3		0.20	mg/L		29-DEC-20	R5327682
Cesium (Cs)-Dissolved	0.0000080	<DL	0.000010	mg/L		29-DEC-20	R5327682
Chromium (Cr)-Dissolved	0.00033	<DL	0.0010	mg/L		29-DEC-20	R5327682
Cobalt (Co)-Dissolved	0.000192	<DL	0.00050	mg/L		29-DEC-20	R5327682
Copper (Cu)-Dissolved	0.00114	<T	0.0010	mg/L		29-DEC-20	R5327682

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-11 SW23_SW_20201208 Sampled By: Client on 16-DEC-20 @ 11:05 Matrix: SW							
Dissolved Metals							
Iron (Fe)-Dissolved	0.544		0.020	mg/L		29-DEC-20	R5327682
Lead (Pb)-Dissolved	0.00008	<T	0.000050	mg/L		29-DEC-20	R5327682
Lithium (Li)-Dissolved	0.0084	<DL	0.050	mg/L		29-DEC-20	R5327682
Magnesium (Mg)-Dissolved	22.3		0.020	mg/L		29-DEC-20	R5327682
Manganese (Mn)-Dissolved	0.0469		0.0010	mg/L		29-DEC-20	R5327682
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321841
Molybdenum (Mo)-Dissolved	0.000450	<DL	0.0010	mg/L		29-DEC-20	R5327682
Nickel (Ni)-Dissolved	0.00180	<DL	0.0020	mg/L		29-DEC-20	R5327682
Phosphorus (P)-Dissolved	0.015	<DL	0.050	mg/L		29-DEC-20	R5327682
Potassium (K)-Dissolved	3.62		0.50	mg/L		29-DEC-20	R5327682
Rubidium (Rb)-Dissolved	0.00195		0.00020	mg/L		29-DEC-20	R5327682
Selenium (Se)-Dissolved	0.000200	<T	0.000050	mg/L		29-DEC-20	R5327682
Silicon (Si)-Dissolved	7.10		0.050	mg/L		29-DEC-20	R5327682
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		29-DEC-20	R5327682
Sodium (Na)-Dissolved	13.3		0.10	mg/L		29-DEC-20	R5327682
Strontium (Sr)-Dissolved	0.132		0.0010	mg/L		29-DEC-20	R5327682
Sulfur (S)-Dissolved	17.6		0.50	mg/L		29-DEC-20	R5327682
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		29-DEC-20	R5327682
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		29-DEC-20	R5327682
Thorium (Th)-Dissolved	0.00006	<DL	0.00010	mg/L		29-DEC-20	R5327682
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		29-DEC-20	R5327682
Titanium (Ti)-Dissolved	0.00568		0.0020	mg/L		29-DEC-20	R5327682
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		29-DEC-20	R5327682
Uranium (U)-Dissolved	0.000974	<DL	0.0050	mg/L		29-DEC-20	R5327682
Vanadium (V)-Dissolved	0.00068	<DL	0.0010	mg/L		29-DEC-20	R5327682
Zinc (Zn)-Dissolved	0.0014	<DL	0.0030	mg/L		29-DEC-20	R5327682
Zirconium (Zr)-Dissolved	0.000566	<DL	0.0010	mg/L		29-DEC-20	R5327682
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		18-DEC-20	R5322282
COD	79		10	mg/L		30-DEC-20	R5328121
Oil and Grease, Total	1.2		1.0	mg/L	29-DEC-20	29-DEC-20	R5327576
Radiological Parameters							
Ra-226	<0.010	<DL	0.010	Bq/L		11-JAN-21	R5343138
L2541819-12 SW24_SW_20201208 Sampled By: Client on 16-DEC-20 @ 11:20 Matrix: SW							
Field Tests							
Dissolved Oxygen, Client Supplied	5.23		0	mg/L		18-DEC-20	R5319548
pH, Client Supplied	6.91		0.10	pH		29-DEC-20	R5325492
Temperature, Client	-0.4		-50	Deg. C		29-DEC-20	R5325492
Physical Tests							
Color, True	113		2.0	CU		18-DEC-20	R5319494

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-12 SW24_SW_20201208							
Sampled By: Client on 16-DEC-20 @ 11:20							
Matrix: SW							
Physical Tests							
Conductivity (EC)	477		1.0	uS/cm		18-DEC-20	R5319638
Hardness (as CaCO3)	224		0.51	mg/L		31-DEC-20	
pH	7.26		0.10	pH		18-DEC-20	R5319638
Total Suspended Solids	3.5		3.0	mg/L		21-DEC-20	R5320530
Total Dissolved Solids	350		20	mg/L		21-DEC-20	R5320578
Turbidity	11.0		0.10	NTU		18-DEC-20	R5319368
Anions and Nutrients							
Acidity (as CaCO3)	20.4		2.0	mg/L		18-DEC-20	R5319638
Alkalinity, Total (as CaCO3)	192		2.0	mg/L		19-DEC-20	R5319962
Unionized ammonia	0.000040		0.000016	mg/L		29-DEC-20	
Ammonia, Total (as N)	0.050	<T	0.020	mg/L		28-DEC-20	R5325223
Chloride (Cl)	15.9		0.10	mg/L	18-DEC-20	18-DEC-20	R5319944
Fluoride (F)	0.063		0.020	mg/L	18-DEC-20	18-DEC-20	R5319944
Nitrate (as N)	0.054	<T	0.030	mg/L		18-DEC-20	R5319944
Nitrite (as N)	0.003	<DL	0.010	mg/L		18-DEC-20	R5319944
Total Kjeldahl Nitrogen	1.20		0.18	mg/L	30-DEC-20	30-DEC-20	R5328938
Orthophosphate-Dissolved (as P)	0.0130		0.0030	mg/L	18-DEC-20	21-DEC-20	R5320130
Sulfate (SO4)	51.1		0.30	mg/L		18-DEC-20	R5319944
Cyanides							
Cyanide, Weak Acid Diss	0.0009	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Total	0.0010	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Free	0.0011	<DL	0.0020	mg/L		23-DEC-20	R5324599
Organic / Inorganic Carbon							
Dissolved Organic Carbon	38.9	DLM	2.5	mg/L	18-DEC-20	28-DEC-20	R5325676
Total Organic Carbon	37.7	DLM	2.5	mg/L		29-DEC-20	R5327337
Total Metals							
Aluminum (Al)-Total	0.292		0.0050	mg/L		30-DEC-20	R5329636
Antimony (Sb)-Total	0.000340	<DL	0.00060	mg/L		30-DEC-20	R5329636
Arsenic (As)-Total	0.00117	<T	0.0010	mg/L		30-DEC-20	R5329636
Barium (Ba)-Total	0.0278		0.010	mg/L		30-DEC-20	R5329636
Beryllium (Be)-Total	0.0000194	<DL	0.0010	mg/L		30-DEC-20	R5329636
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		30-DEC-20	R5329636
Boron (B)-Total	0.0150	<DL	0.050	mg/L		30-DEC-20	R5329636
Cadmium (Cd)-Total	0.000015	<DL	0.000017	mg/L		30-DEC-20	R5329636
Calcium (Ca)-Total	55.8		0.20	mg/L		30-DEC-20	R5329636
Cesium (Cs)-Total	0.0000420		0.000010	mg/L		30-DEC-20	R5329636
Chromium (Cr)-Total	0.00078	<DL	0.0010	mg/L		30-DEC-20	R5329636
Cobalt (Co)-Total	0.000565	<T	0.00050	mg/L		30-DEC-20	R5329636
Copper (Cu)-Total	0.00144	<T	0.0010	mg/L		30-DEC-20	R5329636
Iron (Fe)-Total	0.991		0.020	mg/L		30-DEC-20	R5329636
Lead (Pb)-Total	0.00024	<T	0.000050	mg/L		30-DEC-20	R5329636
Lithium (Li)-Total	0.0074	<DL	0.050	mg/L		30-DEC-20	R5329636

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-12 SW24_SW_20201208							
Sampled By: Client on 16-DEC-20 @ 11:20							
Matrix: SW							
Total Metals							
Magnesium (Mg)-Total	23.9		0.020	mg/L		30-DEC-20	R5329636
Manganese (Mn)-Total	0.236		0.0010	mg/L		30-DEC-20	R5329636
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321840
Molybdenum (Mo)-Total	0.000485	<DL	0.0010	mg/L		30-DEC-20	R5329636
Nickel (Ni)-Total	0.00232	<T	0.0020	mg/L		30-DEC-20	R5329636
Phosphorus (P)-Total	0.035	<DL	0.050	mg/L		30-DEC-20	R5329636
Potassium (K)-Total	3.55		0.50	mg/L		30-DEC-20	R5329636
Rubidium (Rb)-Total	0.00257		0.00020	mg/L		30-DEC-20	R5329636
Selenium (Se)-Total	0.000195	<T	0.000050	mg/L		30-DEC-20	R5329636
Silicon (Si)-Total	7.08		0.10	mg/L		30-DEC-20	R5329636
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		30-DEC-20	R5329636
Sodium (Na)-Total	13.2		0.10	mg/L		30-DEC-20	R5329636
Strontium (Sr)-Total	0.134		0.0010	mg/L		30-DEC-20	R5329636
Sulfur (S)-Total	16.8		0.50	mg/L		30-DEC-20	R5329636
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		30-DEC-20	R5329636
Thallium (Tl)-Total	0.000010	<DL	0.00030	mg/L		30-DEC-20	R5329636
Thorium (Th)-Total	0.00009	<DL	0.00010	mg/L		30-DEC-20	R5329636
Tin (Sn)-Total	0.00013	<DL	0.0010	mg/L		30-DEC-20	R5329636
Titanium (Ti)-Total	0.0105		0.0020	mg/L		30-DEC-20	R5329636
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		30-DEC-20	R5329636
Uranium (U)-Total	0.00101	<DL	0.0050	mg/L		30-DEC-20	R5329636
Vanadium (V)-Total	0.00125	<T	0.0010	mg/L		30-DEC-20	R5329636
Zinc (Zn)-Total	0.0100		0.0030	mg/L		30-DEC-20	R5329636
Zirconium (Zr)-Total	0.000562	<DL	0.0010	mg/L		30-DEC-20	R5329636
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					29-DEC-20	R5327436
Aluminum (Al)-Dissolved	0.0892		0.0050	mg/L		29-DEC-20	R5327682
Antimony (Sb)-Dissolved	0.000330	<DL	0.00060	mg/L		29-DEC-20	R5327682
Arsenic (As)-Dissolved	0.00105	<T	0.0010	mg/L		29-DEC-20	R5327682
Barium (Ba)-Dissolved	0.0226		0.010	mg/L		29-DEC-20	R5327682
Beryllium (Be)-Dissolved	0.000004	<DL	0.0010	mg/L		29-DEC-20	R5327682
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		29-DEC-20	R5327682
Boron (B)-Dissolved	0.0145	<DL	0.050	mg/L		29-DEC-20	R5327682
Cadmium (Cd)-Dissolved	0.0000030	<DL	0.000017	mg/L		29-DEC-20	R5327682
Calcium (Ca)-Dissolved	53.6		0.20	mg/L		29-DEC-20	R5327682
Cesium (Cs)-Dissolved	0.0000040	<DL	0.000010	mg/L		29-DEC-20	R5327682
Chromium (Cr)-Dissolved	0.00029	<DL	0.0010	mg/L		29-DEC-20	R5327682
Cobalt (Co)-Dissolved	0.000162	<DL	0.00050	mg/L		29-DEC-20	R5327682
Copper (Cu)-Dissolved	0.00120	<T	0.0010	mg/L		29-DEC-20	R5327682
Iron (Fe)-Dissolved	0.470		0.020	mg/L		29-DEC-20	R5327682
Lead (Pb)-Dissolved	0.00006	<T	0.000050	mg/L		29-DEC-20	R5327682

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-12 SW24_SW_20201208 Sampled By: Client on 16-DEC-20 @ 11:20 Matrix: SW							
Dissolved Metals							
Lithium (Li)-Dissolved	0.0082	<DL	0.050	mg/L		29-DEC-20	R5327682
Magnesium (Mg)-Dissolved	22.0		0.020	mg/L		29-DEC-20	R5327682
Manganese (Mn)-Dissolved	0.0224		0.0010	mg/L		29-DEC-20	R5327682
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321841
Molybdenum (Mo)-Dissolved	0.000444	<DL	0.0010	mg/L		29-DEC-20	R5327682
Nickel (Ni)-Dissolved	0.00180	<DL	0.0020	mg/L		29-DEC-20	R5327682
Phosphorus (P)-Dissolved	0.010	<DL	0.050	mg/L		29-DEC-20	R5327682
Potassium (K)-Dissolved	3.52		0.50	mg/L		29-DEC-20	R5327682
Rubidium (Rb)-Dissolved	0.00193		0.00020	mg/L		29-DEC-20	R5327682
Selenium (Se)-Dissolved	0.000150	<T	0.000050	mg/L		29-DEC-20	R5327682
Silicon (Si)-Dissolved	6.82		0.050	mg/L		29-DEC-20	R5327682
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		29-DEC-20	R5327682
Sodium (Na)-Dissolved	12.9		0.10	mg/L		29-DEC-20	R5327682
Strontium (Sr)-Dissolved	0.130		0.0010	mg/L		29-DEC-20	R5327682
Sulfur (S)-Dissolved	17.0		0.50	mg/L		29-DEC-20	R5327682
Tellurium (Te)-Dissolved	0.00002	<DL	0.0010	mg/L		29-DEC-20	R5327682
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		29-DEC-20	R5327682
Thorium (Th)-Dissolved	0.00005	<DL	0.00010	mg/L		29-DEC-20	R5327682
Tin (Sn)-Dissolved	0.000270	<DL	0.0010	mg/L		29-DEC-20	R5327682
Titanium (Ti)-Dissolved	0.00472		0.0020	mg/L		29-DEC-20	R5327682
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		29-DEC-20	R5327682
Uranium (U)-Dissolved	0.000969	<DL	0.0050	mg/L		29-DEC-20	R5327682
Vanadium (V)-Dissolved	0.00060	<DL	0.0010	mg/L		29-DEC-20	R5327682
Zinc (Zn)-Dissolved	0.0028	<DL	0.0030	mg/L		29-DEC-20	R5327682
Zirconium (Zr)-Dissolved	0.000470	<DL	0.0010	mg/L		29-DEC-20	R5327682
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		18-DEC-20	R5322282
COD	76		10	mg/L		30-DEC-20	R5328121
Oil and Grease, Total	0.6	<DL	1.0	mg/L	30-DEC-20	30-DEC-20	R5327678
Radiological Parameters							
Ra-226	<0.010	<DL	0.010	Bq/L		11-JAN-21	R5343138
L2541819-13 SW25_SW_20201208 Sampled By: Client on 15-DEC-20 @ 09:30 Matrix: SW							
Field Tests							
Dissolved Oxygen, Client Supplied	3.68		0	mg/L		18-DEC-20	R5319548
pH, Client Supplied	7.15		0.10	pH		29-DEC-20	R5325492
Temperature, Client	1.5		-50	Deg. C		29-DEC-20	R5325492
Physical Tests							
Color, True	53.2		2.0	CU		18-DEC-20	R5319494
Conductivity (EC)	399		1.0	uS/cm		18-DEC-20	R5319638
Hardness (as CaCO3)	190		0.51	mg/L		31-DEC-20	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-13 SW25_SW_20201208							
Sampled By: Client on 15-DEC-20 @ 09:30							
Matrix: SW							
Physical Tests							
pH	7.64		0.10	pH		18-DEC-20	R5319638
Total Suspended Solids	7.0		3.0	mg/L		18-DEC-20	R5320265
Total Dissolved Solids	240		20	mg/L		18-DEC-20	R5320048
Turbidity	4.31		0.10	NTU		18-DEC-20	R5319368
Anions and Nutrients							
Acidity (as CaCO3)	8.8		2.0	mg/L		18-DEC-20	R5319638
Alkalinity, Total (as CaCO3)	174		2.0	mg/L		19-DEC-20	R5319962
Unionized ammonia	0.000048		0.000032	mg/L		29-DEC-20	
Ammonia, Total (as N)	0.030	<T	0.020	mg/L		28-DEC-20	R5325223
Chloride (Cl)	18.3		0.10	mg/L	18-DEC-20	18-DEC-20	R5319944
Fluoride (F)	0.073		0.020	mg/L	18-DEC-20	18-DEC-20	R5319944
Nitrate (as N)	0.078	<T	0.030	mg/L		18-DEC-20	R5319944
Nitrite (as N)	<0.001	<W	0.010	mg/L		18-DEC-20	R5319944
Total Kjeldahl Nitrogen	0.95		0.18	mg/L	30-DEC-20	30-DEC-20	R5328938
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	18-DEC-20	21-DEC-20	R5320130
Sulfate (SO4)	17.3		0.30	mg/L		18-DEC-20	R5319944
Cyanides							
Cyanide, Weak Acid Diss	0.0003	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Total	0.0008	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Free	0.0006	<DL	0.0020	mg/L		23-DEC-20	R5324599
Organic / Inorganic Carbon							
Dissolved Organic Carbon	27.9	DLM	2.5	mg/L	18-DEC-20	28-DEC-20	R5325676
Total Organic Carbon	24.2	DLM	2.5	mg/L		29-DEC-20	R5327337
Total Metals							
Aluminum (Al)-Total	0.137		0.0050	mg/L		30-DEC-20	R5329636
Antimony (Sb)-Total	0.000130	<DL	0.00060	mg/L		30-DEC-20	R5329636
Arsenic (As)-Total	0.00086	<DL	0.0010	mg/L		30-DEC-20	R5329636
Barium (Ba)-Total	0.0300		0.010	mg/L		30-DEC-20	R5329636
Beryllium (Be)-Total	0.0000051	<DL	0.0010	mg/L		30-DEC-20	R5329636
Bismuth (Bi)-Total	0.00002	<DL	0.0010	mg/L		30-DEC-20	R5329636
Boron (B)-Total	0.0145	<DL	0.050	mg/L		30-DEC-20	R5329636
Cadmium (Cd)-Total	0.000010	<DL	0.000017	mg/L		30-DEC-20	R5329636
Calcium (Ca)-Total	50.1		0.20	mg/L		30-DEC-20	R5329636
Cesium (Cs)-Total	0.0000235		0.000010	mg/L		30-DEC-20	R5329636
Chromium (Cr)-Total	0.00052	<DL	0.0010	mg/L		30-DEC-20	R5329636
Cobalt (Co)-Total	0.000215	<DL	0.00050	mg/L		30-DEC-20	R5329636
Copper (Cu)-Total	0.00236	<T	0.0010	mg/L		30-DEC-20	R5329636
Iron (Fe)-Total	0.277		0.020	mg/L		30-DEC-20	R5329636
Lead (Pb)-Total	0.00011	<T	0.000050	mg/L		30-DEC-20	R5329636
Lithium (Li)-Total	0.0052	<DL	0.050	mg/L		30-DEC-20	R5329636
Magnesium (Mg)-Total	17.9		0.020	mg/L		30-DEC-20	R5329636
Manganese (Mn)-Total	0.0512		0.0010	mg/L		30-DEC-20	R5329636

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-13 SW25_SW_20201208							
Sampled By: Client on 15-DEC-20 @ 09:30							
Matrix: SW							
Total Metals							
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321840
Molybdenum (Mo)-Total	0.000895	<DL	0.0010	mg/L		30-DEC-20	R5329636
Nickel (Ni)-Total	0.00164	<DL	0.0020	mg/L		30-DEC-20	R5329636
Phosphorus (P)-Total	0.035	<DL	0.050	mg/L		30-DEC-20	R5329636
Potassium (K)-Total	2.47		0.50	mg/L		30-DEC-20	R5329636
Rubidium (Rb)-Total	0.00162		0.00020	mg/L		30-DEC-20	R5329636
Selenium (Se)-Total	0.000175	<T	0.000050	mg/L		30-DEC-20	R5329636
Silicon (Si)-Total	3.45		0.10	mg/L		30-DEC-20	R5329636
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		30-DEC-20	R5329636
Sodium (Na)-Total	8.66		0.10	mg/L		30-DEC-20	R5329636
Strontium (Sr)-Total	0.119		0.0010	mg/L		30-DEC-20	R5329636
Sulfur (S)-Total	6.2		0.50	mg/L		30-DEC-20	R5329636
Tellurium (Te)-Total	0.00004	<DL	0.0010	mg/L		30-DEC-20	R5329636
Thallium (Tl)-Total	0.000005	<DL	0.00030	mg/L		30-DEC-20	R5329636
Thorium (Th)-Total	0.00004	<DL	0.00010	mg/L		30-DEC-20	R5329636
Tin (Sn)-Total	0.00005	<DL	0.0010	mg/L		30-DEC-20	R5329636
Titanium (Ti)-Total	0.00435		0.0020	mg/L		30-DEC-20	R5329636
Tungsten (W)-Total	0.00001	<DL	0.010	mg/L		30-DEC-20	R5329636
Uranium (U)-Total	0.00203	<DL	0.0050	mg/L		30-DEC-20	R5329636
Vanadium (V)-Total	0.00080	<DL	0.0010	mg/L		30-DEC-20	R5329636
Zinc (Zn)-Total	0.0380		0.0030	mg/L		30-DEC-20	R5329636
Zirconium (Zr)-Total	0.000292	<DL	0.0010	mg/L		30-DEC-20	R5329636
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					29-DEC-20	R5327436
Aluminum (Al)-Dissolved	0.0356		0.0050	mg/L		29-DEC-20	R5327682
Antimony (Sb)-Dissolved	0.000105	<DL	0.00060	mg/L		29-DEC-20	R5327682
Arsenic (As)-Dissolved	0.000798	<DL	0.0010	mg/L		29-DEC-20	R5327682
Barium (Ba)-Dissolved	0.0274		0.010	mg/L		29-DEC-20	R5327682
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		29-DEC-20	R5327682
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		29-DEC-20	R5327682
Boron (B)-Dissolved	0.0150	<DL	0.050	mg/L		29-DEC-20	R5327682
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		29-DEC-20	R5327682
Calcium (Ca)-Dissolved	48.6		0.20	mg/L		29-DEC-20	R5327682
Cesium (Cs)-Dissolved	0.0000020	<DL	0.000010	mg/L		29-DEC-20	R5327682
Chromium (Cr)-Dissolved	0.00019	<DL	0.0010	mg/L		29-DEC-20	R5327682
Cobalt (Co)-Dissolved	0.000100	<DL	0.00050	mg/L		29-DEC-20	R5327682
Copper (Cu)-Dissolved	0.00178	<T	0.0010	mg/L		29-DEC-20	R5327682
Iron (Fe)-Dissolved	0.103		0.020	mg/L		29-DEC-20	R5327682
Lead (Pb)-Dissolved	0.00001	<DL	0.000050	mg/L		29-DEC-20	R5327682
Lithium (Li)-Dissolved	0.0060	<DL	0.050	mg/L		29-DEC-20	R5327682
Magnesium (Mg)-Dissolved	16.6		0.020	mg/L		29-DEC-20	R5327682

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-13 SW25_SW_20201208 Sampled By: Client on 15-DEC-20 @ 09:30 Matrix: SW							
Dissolved Metals							
Manganese (Mn)-Dissolved	0.00622		0.0010	mg/L		29-DEC-20	R5327682
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321841
Molybdenum (Mo)-Dissolved	0.000850	<DL	0.0010	mg/L		29-DEC-20	R5327682
Nickel (Ni)-Dissolved	0.00138	<DL	0.0020	mg/L		29-DEC-20	R5327682
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		29-DEC-20	R5327682
Potassium (K)-Dissolved	2.49		0.50	mg/L		29-DEC-20	R5327682
Rubidium (Rb)-Dissolved	0.00136		0.00020	mg/L		29-DEC-20	R5327682
Selenium (Se)-Dissolved	0.000215	<T	0.000050	mg/L		29-DEC-20	R5327682
Silicon (Si)-Dissolved	3.34		0.050	mg/L		29-DEC-20	R5327682
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		29-DEC-20	R5327682
Sodium (Na)-Dissolved	8.84		0.10	mg/L		29-DEC-20	R5327682
Strontium (Sr)-Dissolved	0.113		0.0010	mg/L		29-DEC-20	R5327682
Sulfur (S)-Dissolved	5.8		0.50	mg/L		29-DEC-20	R5327682
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		29-DEC-20	R5327682
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		29-DEC-20	R5327682
Thorium (Th)-Dissolved	0.00002	<DL	0.00010	mg/L		29-DEC-20	R5327682
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		29-DEC-20	R5327682
Titanium (Ti)-Dissolved	0.00178	<DL	0.0020	mg/L		29-DEC-20	R5327682
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		29-DEC-20	R5327682
Uranium (U)-Dissolved	0.00188	<DL	0.0050	mg/L		29-DEC-20	R5327682
Vanadium (V)-Dissolved	0.00050	<DL	0.0010	mg/L		29-DEC-20	R5327682
Zinc (Zn)-Dissolved	0.0302		0.0030	mg/L		29-DEC-20	R5327682
Zirconium (Zr)-Dissolved	0.000280	<DL	0.0010	mg/L		29-DEC-20	R5327682
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		18-DEC-20	R5322282
COD	51		10	mg/L		30-DEC-20	R5328121
Oil and Grease, Total	0.4	<DL	1.0	mg/L	30-DEC-20	30-DEC-20	R5327678
Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2541819-14 SW26_SW_20201208 Sampled By: Client on 15-DEC-20 @ 08:45 Matrix: SW							
Field Tests							
pH, Client Supplied	6.91		0.10	pH		29-DEC-20	R5325492
Temperature, Client	0.6		-50	Deg. C		29-DEC-20	R5325492
Physical Tests							
Color, True	41.4		2.0	CU		18-DEC-20	R5319494
Conductivity (EC)	502		1.0	uS/cm		18-DEC-20	R5319638
Hardness (as CaCO3)	241		0.51	mg/L		31-DEC-20	
pH	7.70		0.10	pH		18-DEC-20	R5319638
Total Suspended Solids	2.5	<DL	3.0	mg/L		18-DEC-20	R5320265
Total Dissolved Solids	248		20	mg/L		18-DEC-20	R5320048
Turbidity	5.46		0.10	NTU		18-DEC-20	R5319368

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-14 SW26_SW_20201208							
Sampled By: Client on 15-DEC-20 @ 08:45							
Matrix: SW							
Physical Tests							
Anions and Nutrients							
Acidity (as CaCO3)	10.2		2.0	mg/L		18-DEC-20	R5319638
Alkalinity, Total (as CaCO3)	227		2.0	mg/L		19-DEC-20	R5319962
Unionized ammonia	0.000063		0.000017	mg/L		29-DEC-20	
Ammonia, Total (as N)	0.074	<T	0.020	mg/L		28-DEC-20	R5325223
Chloride (Cl)	15.0		0.10	mg/L	18-DEC-20	18-DEC-20	R5319944
Fluoride (F)	0.071		0.020	mg/L	18-DEC-20	18-DEC-20	R5319944
Nitrate (as N)	0.108	<T	0.030	mg/L		18-DEC-20	R5319944
Nitrite (as N)	0.002	<DL	0.010	mg/L		18-DEC-20	R5319944
Total Kjeldahl Nitrogen	0.75		0.18	mg/L	28-DEC-20	29-DEC-20	R5325956
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	18-DEC-20	21-DEC-20	R5320130
Sulfate (SO4)	23.5		0.30	mg/L		18-DEC-20	R5319944
Cyanides							
Cyanide, Weak Acid Diss	0.0005	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Total	0.0010	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Free	0.0004	<DL	0.0020	mg/L		23-DEC-20	R5324599
Organic / Inorganic Carbon							
Dissolved Organic Carbon	20.3		0.50	mg/L	18-DEC-20	28-DEC-20	R5325676
Total Organic Carbon	19.8		0.50	mg/L		29-DEC-20	R5327337
Total Metals							
Aluminum (Al)-Total	0.128		0.0050	mg/L		30-DEC-20	R5329636
Antimony (Sb)-Total	0.000320	<DL	0.00060	mg/L		30-DEC-20	R5329636
Arsenic (As)-Total	0.00117	<T	0.0010	mg/L		30-DEC-20	R5329636
Barium (Ba)-Total	0.0403		0.010	mg/L		30-DEC-20	R5329636
Beryllium (Be)-Total	0.0000061	<DL	0.0010	mg/L		30-DEC-20	R5329636
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		30-DEC-20	R5329636
Boron (B)-Total	0.0210	<DL	0.050	mg/L		30-DEC-20	R5329636
Cadmium (Cd)-Total	0.000006	<DL	0.000017	mg/L		30-DEC-20	R5329636
Calcium (Ca)-Total	59.0		0.20	mg/L		30-DEC-20	R5329636
Cesium (Cs)-Total	0.0000215		0.000010	mg/L		30-DEC-20	R5329636
Chromium (Cr)-Total	0.00066	<DL	0.0010	mg/L		30-DEC-20	R5329636
Cobalt (Co)-Total	0.000220	<DL	0.00050	mg/L		30-DEC-20	R5329636
Copper (Cu)-Total	0.00248	<T	0.0010	mg/L		30-DEC-20	R5329636
Iron (Fe)-Total	0.311		0.020	mg/L		30-DEC-20	R5329636
Lead (Pb)-Total	0.00010	<T	0.000050	mg/L		30-DEC-20	R5329636
Lithium (Li)-Total	0.0094	<DL	0.050	mg/L		30-DEC-20	R5329636
Magnesium (Mg)-Total	24.3		0.020	mg/L		30-DEC-20	R5329636
Manganese (Mn)-Total	0.0552		0.0010	mg/L		30-DEC-20	R5329636
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321840
Molybdenum (Mo)-Total	0.00120	<T	0.0010	mg/L		30-DEC-20	R5329636
Nickel (Ni)-Total	0.00168	<DL	0.0020	mg/L		30-DEC-20	R5329636
Phosphorus (P)-Total	0.020	<DL	0.050	mg/L		30-DEC-20	R5329636

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-14 SW26_SW_20201208							
Sampled By: Client on 15-DEC-20 @ 08:45							
Matrix: SW							
Total Metals							
Potassium (K)-Total	3.22		0.50	mg/L		30-DEC-20	R5329636
Rubidium (Rb)-Total	0.00184		0.00020	mg/L		30-DEC-20	R5329636
Selenium (Se)-Total	0.000170	<T	0.000050	mg/L		30-DEC-20	R5329636
Silicon (Si)-Total	4.52		0.10	mg/L		30-DEC-20	R5329636
Silver (Ag)-Total	0.000005	<DL	0.00010	mg/L		30-DEC-20	R5329636
Sodium (Na)-Total	8.95		0.10	mg/L		30-DEC-20	R5329636
Strontium (Sr)-Total	0.167		0.0010	mg/L		30-DEC-20	R5329636
Sulfur (S)-Total	9.0		0.50	mg/L		30-DEC-20	R5329636
Tellurium (Te)-Total	<0.00002	<W	0.0010	mg/L		30-DEC-20	R5329636
Thallium (Tl)-Total	0.000005	<DL	0.00030	mg/L		30-DEC-20	R5329636
Thorium (Th)-Total	0.00004	<DL	0.00010	mg/L		30-DEC-20	R5329636
Tin (Sn)-Total	0.00008	<DL	0.0010	mg/L		30-DEC-20	R5329636
Titanium (Ti)-Total	0.00457		0.0020	mg/L		30-DEC-20	R5329636
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		30-DEC-20	R5329636
Uranium (U)-Total	0.00278	<DL	0.0050	mg/L		30-DEC-20	R5329636
Vanadium (V)-Total	0.00070	<DL	0.0010	mg/L		30-DEC-20	R5329636
Zinc (Zn)-Total	0.0305		0.0030	mg/L		30-DEC-20	R5329636
Zirconium (Zr)-Total	0.000318	<DL	0.0010	mg/L		30-DEC-20	R5329636
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					29-DEC-20	R5327436
Aluminum (Al)-Dissolved	0.0796		0.0050	mg/L		29-DEC-20	R5327682
Antimony (Sb)-Dissolved	0.000280	<DL	0.00060	mg/L		29-DEC-20	R5327682
Arsenic (As)-Dissolved	0.00109	<T	0.0010	mg/L		29-DEC-20	R5327682
Barium (Ba)-Dissolved	0.0371		0.010	mg/L		29-DEC-20	R5327682
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		29-DEC-20	R5327682
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		29-DEC-20	R5327682
Boron (B)-Dissolved	0.0215	<DL	0.050	mg/L		29-DEC-20	R5327682
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		29-DEC-20	R5327682
Calcium (Ca)-Dissolved	59.0		0.20	mg/L		29-DEC-20	R5327682
Cesium (Cs)-Dissolved	0.0000060	<DL	0.000010	mg/L		29-DEC-20	R5327682
Chromium (Cr)-Dissolved	0.00022	<DL	0.0010	mg/L		29-DEC-20	R5327682
Cobalt (Co)-Dissolved	0.000128	<DL	0.00050	mg/L		29-DEC-20	R5327682
Copper (Cu)-Dissolved	0.00206	<T	0.0010	mg/L		29-DEC-20	R5327682
Iron (Fe)-Dissolved	0.141		0.020	mg/L		29-DEC-20	R5327682
Lead (Pb)-Dissolved	0.00002	<DL	0.000050	mg/L		29-DEC-20	R5327682
Lithium (Li)-Dissolved	0.0108	<DL	0.050	mg/L		29-DEC-20	R5327682
Magnesium (Mg)-Dissolved	22.8		0.020	mg/L		29-DEC-20	R5327682
Manganese (Mn)-Dissolved	0.0187		0.0010	mg/L		29-DEC-20	R5327682
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321841
Molybdenum (Mo)-Dissolved	0.00113	<T	0.0010	mg/L		29-DEC-20	R5327682
Nickel (Ni)-Dissolved	0.00144	<DL	0.0020	mg/L		29-DEC-20	R5327682

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-14 SW26_SW_20201208 Sampled By: Client on 15-DEC-20 @ 08:45 Matrix: SW							
Dissolved Metals							
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		29-DEC-20	R5327682
Potassium (K)-Dissolved	3.26		0.50	mg/L		29-DEC-20	R5327682
Rubidium (Rb)-Dissolved	0.00155		0.00020	mg/L		29-DEC-20	R5327682
Selenium (Se)-Dissolved	0.000165	<T	0.000050	mg/L		29-DEC-20	R5327682
Silicon (Si)-Dissolved	4.57		0.050	mg/L		29-DEC-20	R5327682
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		29-DEC-20	R5327682
Sodium (Na)-Dissolved	8.78		0.10	mg/L		29-DEC-20	R5327682
Strontium (Sr)-Dissolved	0.164		0.0010	mg/L		29-DEC-20	R5327682
Sulfur (S)-Dissolved	9.6		0.50	mg/L		29-DEC-20	R5327682
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		29-DEC-20	R5327682
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		29-DEC-20	R5327682
Thorium (Th)-Dissolved	0.00004	<DL	0.00010	mg/L		29-DEC-20	R5327682
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		29-DEC-20	R5327682
Titanium (Ti)-Dissolved	0.00384		0.0020	mg/L		29-DEC-20	R5327682
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		29-DEC-20	R5327682
Uranium (U)-Dissolved	0.00267	<DL	0.0050	mg/L		29-DEC-20	R5327682
Vanadium (V)-Dissolved	0.00046	<DL	0.0010	mg/L		29-DEC-20	R5327682
Zinc (Zn)-Dissolved	0.0234		0.0030	mg/L		29-DEC-20	R5327682
Zirconium (Zr)-Dissolved	0.000346	<DL	0.0010	mg/L		29-DEC-20	R5327682
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		18-DEC-20	R5322282
COD	44		10	mg/L		30-DEC-20	R5328121
Oil and Grease, Total	0.4	<DL	1.0	mg/L	30-DEC-20	30-DEC-20	R5327678
Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2541819-15 SW27_SW_20201208 Sampled By: Client on 16-DEC-20 @ 09:25 Matrix: SW							
Field Tests							
pH, Client Supplied	7.47		0.10	pH		29-DEC-20	R5325492
Temperature, Client	0.8		-50	Deg. C		29-DEC-20	R5325492
Physical Tests							
Color, True	25.7		2.0	CU		18-DEC-20	R5319494
Conductivity (EC)	1070		1.0	uS/cm		18-DEC-20	R5319638
Hardness (as CaCO3)	439		0.51	mg/L		31-DEC-20	
pH	7.56		0.10	pH		18-DEC-20	R5319638
Total Suspended Solids	2.0	<DL	3.0	mg/L		18-DEC-20	R5320265
Total Dissolved Solids	660		20	mg/L		18-DEC-20	R5320048
Turbidity	2.56		0.10	NTU		18-DEC-20	R5319368
Anions and Nutrients							
Acidity (as CaCO3)	15.6		2.0	mg/L		18-DEC-20	R5319638
Alkalinity, Total (as CaCO3)	245		2.0	mg/L		19-DEC-20	R5319962
Unionized ammonia	0.000417		0.000063	mg/L		29-DEC-20	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-15 SW27_SW_20201208							
Sampled By: Client on 16-DEC-20 @ 09:25							
Matrix: SW							
Anions and Nutrients							
Ammonia, Total (as N)	0.132	<T	0.020	mg/L		28-DEC-20	R5325223
Chloride (Cl)	19.3		0.20	mg/L	18-DEC-20	18-DEC-20	R5319944
Fluoride (F)	0.064		0.040	mg/L	18-DEC-20	18-DEC-20	R5319944
Nitrate (as N)	0.184	<T	0.040	mg/L		18-DEC-20	R5319944
Nitrite (as N)	0.006	<DL	0.020	mg/L		18-DEC-20	R5319944
Total Kjeldahl Nitrogen	0.80		0.18	mg/L	28-DEC-20	29-DEC-20	R5325956
Orthophosphate-Dissolved (as P)	0.0066		0.0030	mg/L	18-DEC-20	21-DEC-20	R5320130
Sulfate (SO4)	315		0.60	mg/L		18-DEC-20	R5319944
Cyanides							
Cyanide, Weak Acid Diss	0.0003	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Total	0.0010	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Free	0.0004	<DL	0.0020	mg/L		23-DEC-20	R5324599
Organic / Inorganic Carbon							
Dissolved Organic Carbon	16.8		0.50	mg/L	18-DEC-20	28-DEC-20	R5325676
Total Organic Carbon	16.5		0.50	mg/L		29-DEC-20	R5327337
Total Metals							
Aluminum (Al)-Total	0.0816		0.0050	mg/L		30-DEC-20	R5329636
Antimony (Sb)-Total	0.00156	<T	0.00060	mg/L		30-DEC-20	R5329636
Arsenic (As)-Total	0.00092	<DL	0.0010	mg/L		30-DEC-20	R5329636
Barium (Ba)-Total	0.0744		0.010	mg/L		30-DEC-20	R5329636
Beryllium (Be)-Total	0.0000021	<DL	0.0010	mg/L		30-DEC-20	R5329636
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		30-DEC-20	R5329636
Boron (B)-Total	0.0290	<DL	0.050	mg/L		30-DEC-20	R5329636
Cadmium (Cd)-Total	0.000008	<DL	0.000017	mg/L		30-DEC-20	R5329636
Calcium (Ca)-Total	110		0.20	mg/L		30-DEC-20	R5329636
Cesium (Cs)-Total	0.0000090	<DL	0.000010	mg/L		30-DEC-20	R5329636
Chromium (Cr)-Total	0.00046	<DL	0.0010	mg/L		30-DEC-20	R5329636
Cobalt (Co)-Total	0.000530	<T	0.00050	mg/L		30-DEC-20	R5329636
Copper (Cu)-Total	0.00140	<T	0.0010	mg/L		30-DEC-20	R5329636
Iron (Fe)-Total	0.210		0.020	mg/L		30-DEC-20	R5329636
Lead (Pb)-Total	0.00006	<T	0.000050	mg/L		30-DEC-20	R5329636
Lithium (Li)-Total	0.0132	<DL	0.050	mg/L		30-DEC-20	R5329636
Magnesium (Mg)-Total	43.3		0.020	mg/L		30-DEC-20	R5329636
Manganese (Mn)-Total	0.0764		0.0010	mg/L		30-DEC-20	R5329636
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321840
Molybdenum (Mo)-Total	0.00119	<T	0.0010	mg/L		30-DEC-20	R5329636
Nickel (Ni)-Total	0.00138	<DL	0.0020	mg/L		30-DEC-20	R5329636
Phosphorus (P)-Total	0.025	<DL	0.050	mg/L		30-DEC-20	R5329636
Potassium (K)-Total	14.5		0.50	mg/L		30-DEC-20	R5329636
Rubidium (Rb)-Total	0.00290		0.00020	mg/L		30-DEC-20	R5329636
Selenium (Se)-Total	0.000170	<T	0.000050	mg/L		30-DEC-20	R5329636
Silicon (Si)-Total	5.55		0.10	mg/L		30-DEC-20	R5329636

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-15 SW27_SW_20201208							
Sampled By: Client on 16-DEC-20 @ 09:25							
Matrix: SW							
Total Metals							
Silver (Ag)-Total	0.000003	<DL	0.00010	mg/L		30-DEC-20	R5329636
Sodium (Na)-Total	53.4		0.10	mg/L		30-DEC-20	R5329636
Strontium (Sr)-Total	0.303		0.0010	mg/L		30-DEC-20	R5329636
Sulfur (S)-Total	117		0.50	mg/L		30-DEC-20	R5329636
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		30-DEC-20	R5329636
Thallium (Tl)-Total	<0.000005	<W	0.00030	mg/L		30-DEC-20	R5329636
Thorium (Th)-Total	0.00003	<DL	0.00010	mg/L		30-DEC-20	R5329636
Tin (Sn)-Total	0.00004	<DL	0.0010	mg/L		30-DEC-20	R5329636
Titanium (Ti)-Total	0.00288		0.0020	mg/L		30-DEC-20	R5329636
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		30-DEC-20	R5329636
Uranium (U)-Total	0.00267	<DL	0.0050	mg/L		30-DEC-20	R5329636
Vanadium (V)-Total	0.00055	<DL	0.0010	mg/L		30-DEC-20	R5329636
Zinc (Zn)-Total	0.0105		0.0030	mg/L		30-DEC-20	R5329636
Zirconium (Zr)-Total	0.000226	<DL	0.0010	mg/L		30-DEC-20	R5329636
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					29-DEC-20	R5327436
Aluminum (Al)-Dissolved	0.0216	<T	0.0050	mg/L		29-DEC-20	R5327682
Antimony (Sb)-Dissolved	0.00148	<T	0.00060	mg/L		29-DEC-20	R5327682
Arsenic (As)-Dissolved	0.000737	<DL	0.0010	mg/L		29-DEC-20	R5327682
Barium (Ba)-Dissolved	0.0699		0.010	mg/L		29-DEC-20	R5327682
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		29-DEC-20	R5327682
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		29-DEC-20	R5327682
Boron (B)-Dissolved	0.0285	<DL	0.050	mg/L		29-DEC-20	R5327682
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		29-DEC-20	R5327682
Calcium (Ca)-Dissolved	110		0.20	mg/L		29-DEC-20	R5327682
Cesium (Cs)-Dissolved	<0.0000005	<W	0.000010	mg/L		29-DEC-20	R5327682
Chromium (Cr)-Dissolved	0.00016	<DL	0.0010	mg/L		29-DEC-20	R5327682
Cobalt (Co)-Dissolved	0.000416	<DL	0.00050	mg/L		29-DEC-20	R5327682
Copper (Cu)-Dissolved	0.00102	<T	0.0010	mg/L		29-DEC-20	R5327682
Iron (Fe)-Dissolved	0.0580		0.020	mg/L		29-DEC-20	R5327682
Lead (Pb)-Dissolved	<0.00001	<W	0.000050	mg/L		29-DEC-20	R5327682
Lithium (Li)-Dissolved	0.0148	<DL	0.050	mg/L		29-DEC-20	R5327682
Magnesium (Mg)-Dissolved	39.9		0.020	mg/L		29-DEC-20	R5327682
Manganese (Mn)-Dissolved	0.0143		0.0010	mg/L		29-DEC-20	R5327682
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321841
Molybdenum (Mo)-Dissolved	0.00111	<T	0.0010	mg/L		29-DEC-20	R5327682
Nickel (Ni)-Dissolved	0.00108	<DL	0.0020	mg/L		29-DEC-20	R5327682
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		29-DEC-20	R5327682
Potassium (K)-Dissolved	14.9		0.50	mg/L		29-DEC-20	R5327682
Rubidium (Rb)-Dissolved	0.00272		0.00020	mg/L		29-DEC-20	R5327682
Selenium (Se)-Dissolved	0.000180	<T	0.000050	mg/L		29-DEC-20	R5327682

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-15 SW27_SW_20201208 Sampled By: Client on 16-DEC-20 @ 09:25 Matrix: SW							
Dissolved Metals							
Silicon (Si)-Dissolved	5.49		0.050	mg/L		29-DEC-20	R5327682
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		29-DEC-20	R5327682
Sodium (Na)-Dissolved	53.2		0.10	mg/L		29-DEC-20	R5327682
Strontium (Sr)-Dissolved	0.296		0.0010	mg/L		29-DEC-20	R5327682
Sulfur (S)-Dissolved	116		0.50	mg/L		29-DEC-20	R5327682
Tellurium (Te)-Dissolved	<0.00001	<W	0.0010	mg/L		29-DEC-20	R5327682
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		29-DEC-20	R5327682
Thorium (Th)-Dissolved	0.00002	<DL	0.00010	mg/L		29-DEC-20	R5327682
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		29-DEC-20	R5327682
Titanium (Ti)-Dissolved	0.00094	<DL	0.0020	mg/L		29-DEC-20	R5327682
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		29-DEC-20	R5327682
Uranium (U)-Dissolved	0.00264	<DL	0.0050	mg/L		29-DEC-20	R5327682
Vanadium (V)-Dissolved	0.00032	<DL	0.0010	mg/L		29-DEC-20	R5327682
Zinc (Zn)-Dissolved	0.0076	<T	0.0030	mg/L		29-DEC-20	R5327682
Zirconium (Zr)-Dissolved	0.000222	<DL	0.0010	mg/L		29-DEC-20	R5327682
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		18-DEC-20	R5322282
COD	32		10	mg/L		30-DEC-20	R5328121
Oil and Grease, Total	0.2	<DL	1.0	mg/L	30-DEC-20	30-DEC-20	R5327678
L2541819-16 SW28A_SW_20201208 Sampled By: Client on 15-DEC-20 @ 11:00 Matrix: SW							
Field Tests							
Dissolved Oxygen, Client Supplied	1.52		0	mg/L		18-DEC-20	R5319548
pH, Client Supplied	7.50		0.10	pH		29-DEC-20	R5325492
Temperature, Client	-0.4		-50	Deg. C		29-DEC-20	R5325492
Physical Tests							
Color, True	53.7		2.0	CU		18-DEC-20	R5319494
Conductivity (EC)	339		1.0	uS/cm		18-DEC-20	R5319638
Hardness (as CaCO3)	186		0.51	mg/L		05-JAN-21	
pH	7.83		0.10	pH		18-DEC-20	R5319638
Total Suspended Solids	3.5		3.0	mg/L		18-DEC-20	R5320265
Total Dissolved Solids	222		13	mg/L		18-DEC-20	R5320048
Turbidity	4.46		0.10	NTU		18-DEC-20	R5319368
Anions and Nutrients							
Acidity (as CaCO3)	5.6		2.0	mg/L		18-DEC-20	R5319638
Alkalinity, Total (as CaCO3)	184		2.0	mg/L		19-DEC-20	R5319962
Unionized ammonia	0.000114		0.000061	mg/L		29-DEC-20	
Ammonia, Total (as N)	0.038	<T	0.020	mg/L		28-DEC-20	R5325223
Chloride (Cl)	3.13		0.10	mg/L	18-DEC-20	18-DEC-20	R5319944
Fluoride (F)	0.078		0.020	mg/L	18-DEC-20	18-DEC-20	R5319944
Nitrate (as N)	0.056	<T	0.030	mg/L		18-DEC-20	R5319944

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-16 SW28A_SW_20201208							
Sampled By: Client on 15-DEC-20 @ 11:00							
Matrix: SW							
Anions and Nutrients							
Nitrite (as N)	0.002	<DL	0.010	mg/L		18-DEC-20	R5319944
Total Kjeldahl Nitrogen	1.00		0.18	mg/L	28-DEC-20	29-DEC-20	R5325956
Orthophosphate-Dissolved (as P)	0.0033		0.0030	mg/L	18-DEC-20	21-DEC-20	R5320130
Sulfate (SO4)	2.00	<T	0.30	mg/L		18-DEC-20	R5319944
Cyanides							
Cyanide, Weak Acid Diss	0.0004	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Total	0.0010	<DL	0.0020	mg/L		23-DEC-20	R5324599
Cyanide, Free	0.0008	<DL	0.0020	mg/L		23-DEC-20	R5324599
Organic / Inorganic Carbon							
Dissolved Organic Carbon	31.0	DLM	2.5	mg/L	18-DEC-20	28-DEC-20	R5325676
Total Organic Carbon	30.8	DLM	2.5	mg/L		29-DEC-20	R5327337
Total Metals							
Aluminum (Al)-Total	0.122		0.0050	mg/L		30-DEC-20	R5329636
Antimony (Sb)-Total	0.000055	<DL	0.00060	mg/L		30-DEC-20	R5329636
Arsenic (As)-Total	0.00090	<DL	0.0010	mg/L		30-DEC-20	R5329636
Barium (Ba)-Total	0.0275		0.010	mg/L		30-DEC-20	R5329636
Beryllium (Be)-Total	0.0000061	<DL	0.0010	mg/L		30-DEC-20	R5329636
Bismuth (Bi)-Total	<0.00001	<W	0.0010	mg/L		30-DEC-20	R5329636
Boron (B)-Total	0.0145	<DL	0.050	mg/L		30-DEC-20	R5329636
Cadmium (Cd)-Total	0.000005	<DL	0.000017	mg/L		30-DEC-20	R5329636
Calcium (Ca)-Total	42.8		0.20	mg/L		30-DEC-20	R5329636
Cesium (Cs)-Total	0.0000205		0.000010	mg/L		30-DEC-20	R5329636
Chromium (Cr)-Total	0.00036	<DL	0.0010	mg/L		30-DEC-20	R5329636
Cobalt (Co)-Total	0.000190	<DL	0.00050	mg/L		30-DEC-20	R5329636
Copper (Cu)-Total	0.00096	<DL	0.0010	mg/L		30-DEC-20	R5329636
Iron (Fe)-Total	0.260		0.020	mg/L		30-DEC-20	R5329636
Lead (Pb)-Total	0.00010	<T	0.000050	mg/L		30-DEC-20	R5329636
Lithium (Li)-Total	0.0054	<DL	0.050	mg/L		30-DEC-20	R5329636
Magnesium (Mg)-Total	18.8		0.020	mg/L		30-DEC-20	R5329636
Manganese (Mn)-Total	0.0204		0.0010	mg/L		30-DEC-20	R5329636
Mercury (Hg)-Total	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321840
Molybdenum (Mo)-Total	0.000640	<DL	0.0010	mg/L		30-DEC-20	R5329636
Nickel (Ni)-Total	0.00118	<DL	0.0020	mg/L		30-DEC-20	R5329636
Phosphorus (P)-Total	0.005	<DL	0.050	mg/L		30-DEC-20	R5329636
Potassium (K)-Total	1.71		0.50	mg/L		30-DEC-20	R5329636
Rubidium (Rb)-Total	0.00241		0.00020	mg/L		30-DEC-20	R5329636
Selenium (Se)-Total	0.000120	<T	0.000050	mg/L		30-DEC-20	R5329636
Silicon (Si)-Total	1.77		0.10	mg/L		30-DEC-20	R5329636
Silver (Ag)-Total	0.000002	<DL	0.00010	mg/L		30-DEC-20	R5329636
Sodium (Na)-Total	2.40		0.10	mg/L		30-DEC-20	R5329636
Strontium (Sr)-Total	0.109		0.0010	mg/L		30-DEC-20	R5329636
Sulfur (S)-Total	1.0		0.50	mg/L		30-DEC-20	R5329636

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-16 SW28A_SW_20201208							
Sampled By: Client on 15-DEC-20 @ 11:00							
Matrix: SW							
Total Metals							
Tellurium (Te)-Total	0.00002	<DL	0.0010	mg/L		30-DEC-20	R5329636
Thallium (Tl)-Total	0.000005	<DL	0.00030	mg/L		30-DEC-20	R5329636
Thorium (Th)-Total	0.00003	<DL	0.00010	mg/L		30-DEC-20	R5329636
Tin (Sn)-Total	0.00005	<DL	0.0010	mg/L		30-DEC-20	R5329636
Titanium (Ti)-Total	0.00373		0.0020	mg/L		30-DEC-20	R5329636
Tungsten (W)-Total	<0.00001	<W	0.010	mg/L		30-DEC-20	R5329636
Uranium (U)-Total	0.00115	<DL	0.0050	mg/L		30-DEC-20	R5329636
Vanadium (V)-Total	0.00070	<DL	0.0010	mg/L		30-DEC-20	R5329636
Zinc (Zn)-Total	0.0025	<DL	0.0030	mg/L		30-DEC-20	R5329636
Zirconium (Zr)-Total	0.000200	<DL	0.0010	mg/L		30-DEC-20	R5329636
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					29-DEC-20	R5327436
Aluminum (Al)-Dissolved	0.0354		0.0050	mg/L		29-DEC-20	R5327682
Antimony (Sb)-Dissolved	0.000055	<DL	0.00060	mg/L		29-DEC-20	R5327682
Arsenic (As)-Dissolved	0.000853	<DL	0.0010	mg/L		29-DEC-20	R5327682
Barium (Ba)-Dissolved	0.0264		0.010	mg/L		29-DEC-20	R5327682
Beryllium (Be)-Dissolved	<0.000002	<W	0.0010	mg/L		29-DEC-20	R5327682
Bismuth (Bi)-Dissolved	<0.000002	<W	0.0010	mg/L		29-DEC-20	R5327682
Boron (B)-Dissolved	0.0155	<DL	0.050	mg/L		29-DEC-20	R5327682
Cadmium (Cd)-Dissolved	<0.0000005	<W	0.000017	mg/L		29-DEC-20	R5327682
Calcium (Ca)-Dissolved	44.3		0.20	mg/L		29-DEC-20	R5327682
Cesium (Cs)-Dissolved	0.0000010	<DL	0.000010	mg/L		29-DEC-20	R5327682
Chromium (Cr)-Dissolved	0.00014	<DL	0.0010	mg/L		29-DEC-20	R5327682
Cobalt (Co)-Dissolved	0.000078	<DL	0.00050	mg/L		29-DEC-20	R5327682
Copper (Cu)-Dissolved	0.00082	<DL	0.0010	mg/L		29-DEC-20	R5327682
Iron (Fe)-Dissolved	0.0815		0.020	mg/L		29-DEC-20	R5327682
Lead (Pb)-Dissolved	<0.00001	<W	0.000050	mg/L		29-DEC-20	R5327682
Lithium (Li)-Dissolved	0.0064	<DL	0.050	mg/L		29-DEC-20	R5327682
Magnesium (Mg)-Dissolved	18.3		0.020	mg/L		29-DEC-20	R5327682
Manganese (Mn)-Dissolved	0.00336		0.0010	mg/L		29-DEC-20	R5327682
Mercury (Hg)-Dissolved	<0.000005	<W	0.000030	mg/L		23-DEC-20	R5321841
Molybdenum (Mo)-Dissolved	0.000604	<DL	0.0010	mg/L		29-DEC-20	R5327682
Nickel (Ni)-Dissolved	0.00104	<DL	0.0020	mg/L		29-DEC-20	R5327682
Phosphorus (P)-Dissolved	<0.005	<W	0.050	mg/L		29-DEC-20	R5327682
Potassium (K)-Dissolved	2.04		0.50	mg/L		29-DEC-20	R5327682
Rubidium (Rb)-Dissolved	0.00206		0.00020	mg/L		29-DEC-20	R5327682
Selenium (Se)-Dissolved	0.000185	<T	0.000050	mg/L		29-DEC-20	R5327682
Silicon (Si)-Dissolved	1.64		0.050	mg/L		29-DEC-20	R5327682
Silver (Ag)-Dissolved	<0.0000005	<W	0.00010	mg/L		29-DEC-20	R5327682
Sodium (Na)-Dissolved	2.39		0.10	mg/L		04-JAN-21	R5332577
Strontium (Sr)-Dissolved	0.109		0.0010	mg/L		29-DEC-20	R5327682

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2541819-16 SW28A_SW_20201208 Sampled By: Client on 15-DEC-20 @ 11:00 Matrix: SW							
Dissolved Metals							
Sulfur (S)-Dissolved	1.6		0.50	mg/L		29-DEC-20	R5327682
Tellurium (Te)-Dissolved	0.00002	<DL	0.0010	mg/L		29-DEC-20	R5327682
Thallium (Tl)-Dissolved	<0.000002	<W	0.00030	mg/L		29-DEC-20	R5327682
Thorium (Th)-Dissolved	0.00001	<DL	0.00010	mg/L		29-DEC-20	R5327682
Tin (Sn)-Dissolved	<0.000005	<W	0.0010	mg/L		29-DEC-20	R5327682
Titanium (Ti)-Dissolved	0.00106	<DL	0.0020	mg/L		29-DEC-20	R5327682
Tungsten (W)-Dissolved	<0.000002	<W	0.010	mg/L		29-DEC-20	R5327682
Uranium (U)-Dissolved	0.00109	<DL	0.0050	mg/L		29-DEC-20	R5327682
Vanadium (V)-Dissolved	0.00036	<DL	0.0010	mg/L		29-DEC-20	R5327682
Zinc (Zn)-Dissolved	0.0014	<DL	0.0030	mg/L		29-DEC-20	R5327682
Zirconium (Zr)-Dissolved	0.000184	<DL	0.0010	mg/L		29-DEC-20	R5327682
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		18-DEC-20	R5322282
COD	65		10	mg/L		30-DEC-20	R5328121
Oil and Grease, Total	0.4	<DL	1.0	mg/L	30-DEC-20	30-DEC-20	R5327678
Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis							
L2541819-17 TB_SW_20201208 Sampled By: Client on 16-DEC-20 @ 12:00 Matrix: QC							
Anions and Nutrients							
Ammonia, Total (as N)	<0.002	<W	0.020	mg/L		28-DEC-20	R5325223
Total Kjeldahl Nitrogen	<0.05	<W	0.18	mg/L	28-DEC-20	29-DEC-20	R5325956
Organic / Inorganic Carbon							
Dissolved Organic Carbon	1.21		0.50	mg/L	16-DEC-20	28-DEC-20	R5325676
Total Organic Carbon	1.55		0.50	mg/L		29-DEC-20	R5327337
Aggregate Organics							
Biochemical Oxygen Demand	<2.0		2.0	mg/L		18-DEC-20	R5322282
COD	<10		10	mg/L		30-DEC-20	R5328121
Oil and Grease, Total	0.8	<DL	1.0	mg/L	30-DEC-20	30-DEC-20	R5327678

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	COD	MS-B	L2541819-1, -2, -3, -4
Matrix Spike	Barium (Ba)-Total	MS-B	L2541819-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Total	MS-B	L2541819-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2541819-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Total	MS-B	L2541819-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Total	MS-B	L2541819-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Total	MS-B	L2541819-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Total Organic Carbon	MS-B	L2541819-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9

Sample Parameter Qualifier key listed:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-MISA-TB	Effluent	Acidity (as CaCO ₃)	APHA 2310 B-POTENTIOMETRIC TITRATION
Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample.			
ALK-MISA-TB	Effluent	Alkalinity, Total (as CaCO ₃)	APHA 2320 B-Auto-Pot. Titration
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
BOD-TB	Water	Biochemical Oxygen Demand (BOD)	APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND
All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation.			
CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
CN-FREE-MISA-CFA-WT	Effluent	Free Cyanide by Continuous Flow Analyzer	ASTM D7237-10 (modified)
This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis.			
CN-T-MISA-CFA-WT	Effluent	Total Cyanide by CFA	ISO 14403-2:2012 (modified)
This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis.			
Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.			
CN-WAD-MISA-CFA-WT	Effluent	Weak Acid Dissociable Cyanide by CFA	APHA 4500-CN CYANIDE (modified)
This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.			
COD-T-WT	Water	Chemical Oxygen Demand	APHA 5220 D
This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.			
COLOUR-TB	Water	Colour, True	APHA 2120 C
True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard.			

Reference Information

DO-CLIENT-TB	Water	Dissolved Oxygen, Client Supplied	Result supplied by Client
DOC-WT	Effluent	Dissolved Organic Carbon for MISA	APHA 5310 B-Instrumental
EC-MISA-TB	Effluent	Conductivity (EC)	APHA 2510 B-ELECTRODE
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
ETL-NH3-UNION-CLI-WT	Water	Un-ionized ammonia	CALCULATION
F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
HARDNESS-CALC-TB	Effluent	Hardness (as CaCO ₃)	CALCULATION
HG-DIS-WT	Effluent	Mercury (Hg)-Dissolved for MISA	SW846 7470A
HG-TOT-WT	Effluent	Mercury (Hg)-Total for MISA	SW846 7470A
MET-D-MISA-TB	Effluent	Dissolved Metals in Water (MISA)	APHA 3030B/6020B (mod)
Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.			
Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.			
MET-T-MISA-TB	Effluent	Total Metals in Water (MISA)	EPA 200.2/6020B (mod)
Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.			
Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.			
NH3-F-WT	Effluent	Ammonia, Total as N	J. ENVIRON. MONIT., 2005, 7, 37-42, RSC
This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.			
NO2-MISA-IC-TB	Effluent	Nitrite in Water by IC	EPA 300.1 (mod)
Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.			
NO3-MISA-IC-TB	Effluent	Nitrate in Water by IC	EPA 300.1 (mod)
Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.			
OGG-TOT-WT	Effluent	Oil and Grease, Total for MISA	APHA 5520 B-Hexane Gravimetric
PH,TEMP-CLIENT-WT	Water	pH & Temperature	Results supplied by client
PH-MISA-TB	Effluent	pH	APHA 4500-H-ELECTRODE
This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode			
PO4-DO-COL-TB	Water	Dissolved Orthophosphate	APHA 4500-P B, F, G (modified)
Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.			
RA226-MMER-BE	Water	Radium 226	Radium Isotopes by Alpha Spectrometry
Determination of Gamma Emitting Radionuclides In Water and Solids by Gamma Spectrometry.			
SO4-MISA-IC-TB	Effluent	Sulfate in Water by IC	EPA 300.1 (mod)
Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.			
TDS-MISA-TB	Effluent	Total Dissolved Solids	APHA 2540 C (modified)

Reference Information

Aqueous matrices are analyzed using gravimetry and evaporation

TKN-WT Effluent Total Kjeldahl Nitrogen for MISA APHA 4500-N

TOC-WT Water Total Organic Carbon APHA 5310B

Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

TSS-MISA-TB Effluent Total Suspended Solids APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

TURBIDITY-TB Water Turbidity APHA 2130 B-Nephelometer

Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
BE	BECQUEREL LABORATORIES INC. - MISSISSAUGA, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2541819

Report Date: 19-JAN-21

Page 1 of 19

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BOD-TB								
	Water							
Batch	R5322282							
WG3464125-8	DUP	L2541831-2						
Biochemical Oxygen Demand		145	155		mg/L	7.1	30	18-DEC-20
WG3464125-2	LCS							
Biochemical Oxygen Demand			91.2		%		85-115	18-DEC-20
WG3464125-6	LCS							
Biochemical Oxygen Demand			94.0		%		85-115	18-DEC-20
WG3464125-1	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	18-DEC-20
WG3464125-5	MB							
Biochemical Oxygen Demand			<2.0		mg/L		2	18-DEC-20
CL-L-IC-N-TB								
	Water							
Batch	R5319944							
WG3464308-3	DUP	L2541819-1						
Chloride (Cl)		<0.10	<0.10	RPD-NA	mg/L	N/A	20	18-DEC-20
WG3464308-2	LCS							
Chloride (Cl)			97.4		%		90-110	18-DEC-20
WG3464308-1	MB							
Chloride (Cl)			<0.10		mg/L		0.1	18-DEC-20
COD-T-WT								
	Water							
Batch	R5325877							
WG3466984-3	DUP	L2541430-1						
COD		276	274		mg/L	0.7	20	28-DEC-20
WG3466984-2	LCS							
COD			94.9		%		85-115	28-DEC-20
WG3466984-1	MB							
COD			<10		mg/L		10	28-DEC-20
WG3466984-4	MS	L2541430-1						
COD			N/A	MS-B	%		-	28-DEC-20
Batch	R5328121							
WG3467542-3	DUP	L2541819-5						
COD		76	76		mg/L	0.0	20	30-DEC-20
WG3467542-2	LCS							
COD			96.3		%		85-115	30-DEC-20
WG3467542-1	MB							
COD			<10		mg/L		10	30-DEC-20
WG3467542-4	MS	L2541819-5						
COD			89.1		%		75-125	30-DEC-20

Quality Control Report

Workorder: L2541819

Report Date: 19-JAN-21

Page 2 of 19

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
COLOUR-TB		Water						
Batch	R5319494							
WG3464299-3	DUP	L2541819-10						
Color, True		64.5	66.8		CU	3.5	20	18-DEC-20
WG3464191-2	LCS							
Color, True			95.9		%		85-115	18-DEC-20
WG3464299-2	LCS							
Color, True			94.5		%		85-115	18-DEC-20
WG3464191-1	MB							
Color, True			<2.0		CU		2	18-DEC-20
WG3464299-1	MB							
Color, True			<2.0		CU		2	18-DEC-20
F-IC-N-TB		Water						
Batch	R5319944							
WG3464308-3	DUP	L2541819-1						
Fluoride (F)		<0.020	<0.020	RPD-NA	mg/L	N/A	20	18-DEC-20
WG3464308-2	LCS							
Fluoride (F)			95.1		%		90-110	18-DEC-20
WG3464308-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	18-DEC-20
PO4-DO-COL-TB		Water						
Batch	R5320130							
WG3464294-3	DUP	L2541819-2						
Orthophosphate-Dissolved (as P)		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	21-DEC-20
WG3464294-2	LCS							
Orthophosphate-Dissolved (as P)			103.4		%		80-120	21-DEC-20
WG3464294-1	MB							
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	21-DEC-20
WG3464294-4	MS	L2541819-3						
Orthophosphate-Dissolved (as P)			98.7		%		70-130	21-DEC-20
TOC-WT		Water						
Batch	R5324442							
WG3466065-3	DUP	L2541819-10						
Total Organic Carbon		28.0	29.6		mg/L	5.6	20	28-DEC-20
WG3466065-2	LCS							
Total Organic Carbon			103.8		%		80-120	28-DEC-20
WG3466065-1	MB							
Total Organic Carbon			<0.50		mg/L		0.5	28-DEC-20
WG3466065-4	MS	L2541819-10						

Quality Control Report

Workorder: L2541819

Report Date: 19-JAN-21

Page 3 of 19

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TOC-WT		Water						
Batch	R5324442							
WG3466065-4 MS		L2541819-10						
Total Organic Carbon			N/A	MS-B	%		-	28-DEC-20
Batch	R5327337							
WG3466751-3 DUP		L2543097-1						
Total Organic Carbon		3.79	3.74		mg/L	1.2	20	29-DEC-20
WG3466751-2 LCS								
Total Organic Carbon			107.9		%		80-120	29-DEC-20
WG3466751-1 MB								
Total Organic Carbon			<0.50		mg/L		0.5	29-DEC-20
WG3466751-4 MS		L2543097-1						
Total Organic Carbon			111.1		%		70-130	29-DEC-20
TURBIDITY-TB		Water						
Batch	R5319368							
WG3464208-3 DUP		L2541819-2						
Turbidity		0.99	1.01		NTU	2.0	15	18-DEC-20
WG3464208-2 LCS								
Turbidity			101.5		%		85-115	18-DEC-20
WG3464208-1 MB								
Turbidity			<0.10		NTU		0.1	18-DEC-20
ACY-MISA-TB		Effluent						
Batch	R5319638							
WG3464313-3 DUP		L2541819-14						
Acidity (as CaCO3)		10.2	9.2		mg/L	9.5	20	18-DEC-20
WG3464183-2 LCS								
Acidity (as CaCO3)			95.2		%		85-115	18-DEC-20
WG3464313-2 LCS								
Acidity (as CaCO3)			95.0		%		85-115	18-DEC-20
WG3464183-1 MB								
Acidity (as CaCO3)			0.8		mg/L		4	18-DEC-20
WG3464313-1 MB								
Acidity (as CaCO3)			1.6		mg/L		4	18-DEC-20
ALK-MISA-TB		Effluent						
Batch	R5319962							
WG3464291-3 DUP		L2541819-1						
Alkalinity, Total (as CaCO3)		0.4	0.6	RPD-NA	mg/L	N/A	20	19-DEC-20
Alkalinity, Phenolphthalein		<0.2	<0.2	RPD-NA	mg/L	N/A	25	19-DEC-20

Quality Control Report

Workorder: L2541819

Report Date: 19-JAN-21

Page 4 of 19

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ALK-MISA-TB		Effluent						
Batch	R5319962							
WG3464291-2	LCS							
Alkalinity, Total (as CaCO3)			104.2		%		85-115	19-DEC-20
WG3464291-1	MB							
Alkalinity, Total (as CaCO3)			0.6		mg/L		2	19-DEC-20
Alkalinity, Phenolphthalein			<0.2		mg/L		2	19-DEC-20
CN-FREE-MISA-CFA-WT		Effluent						
Batch	R5324599							
WG3466279-3	DUP	WG3466279-5						
Cyanide, Free		0.0004	0.0004	RPD-NA	mg/L	N/A	20	23-DEC-20
WG3466279-2	LCS							
Cyanide, Free			96.9		%		80-120	23-DEC-20
WG3466279-1	MB							
Cyanide, Free			<0.0001		mg/L		0.002	23-DEC-20
WG3466279-4	MS	WG3466279-5						
Cyanide, Free			99.4		%		75-125	23-DEC-20
CN-T-MISA-CFA-WT		Effluent						
Batch	R5324599							
WG3466279-3	DUP	WG3466279-5						
Cyanide, Total		0.0010	0.0008	RPD-NA	mg/L	N/A	20	23-DEC-20
WG3466279-2	LCS							
Cyanide, Total			99.9		%		80-120	23-DEC-20
WG3466279-1	MB							
Cyanide, Total			<0.0002		mg/L		0.002	23-DEC-20
WG3466279-4	MS	WG3466279-5						
Cyanide, Total			98.0		%		75-125	23-DEC-20
CN-WAD-MISA-CFA-WT		Effluent						
Batch	R5324599							
WG3466279-3	DUP	WG3466279-5						
Cyanide, Weak Acid Diss		0.0004	0.0003	RPD-NA	mg/L	N/A	20	23-DEC-20
WG3466279-2	LCS							
Cyanide, Weak Acid Diss			99.0		%		80-120	23-DEC-20
WG3466279-1	MB							
Cyanide, Weak Acid Diss			<0.0001		mg/L		0.002	23-DEC-20
WG3466279-4	MS	WG3466279-5						
Cyanide, Weak Acid Diss			98.7		%		75-125	23-DEC-20
DOC-WT	Effluent							

Quality Control Report

Workorder: L2541819

Report Date: 19-JAN-21

Page 5 of 19

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DOC-WT		Effluent						
Batch	R5325676							
WG3466073-3	DUP	L2541819-1						
Dissolved Organic Carbon		0.86	0.97		mg/L	12	25	28-DEC-20
WG3466073-2	LCS							
Dissolved Organic Carbon			109.4		%		70-130	28-DEC-20
WG3466073-1	MB							
Dissolved Organic Carbon			<0.50		mg/L		0.5	28-DEC-20
EC-MISA-TB		Effluent						
Batch	R5319638							
WG3464313-3	DUP	L2541819-14						
Conductivity (EC)		502	502		uS/cm	0.0	10	18-DEC-20
WG3464183-2	LCS							
Conductivity (EC)			99.1		%		90-110	18-DEC-20
WG3464313-2	LCS							
Conductivity (EC)			98.7		%		90-110	18-DEC-20
WG3464183-1	MB							
Conductivity (EC)			0.4		uS/cm		2	18-DEC-20
WG3464313-1	MB							
Conductivity (EC)			0.6		uS/cm		2	18-DEC-20
HG-DIS-WT		Effluent						
Batch	R5321841							
WG3466219-3	DUP	L2541819-1						
Mercury (Hg)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	23-DEC-20
WG3466219-2	LCS							
Mercury (Hg)-Dissolved			96.9		%		80-120	23-DEC-20
WG3466219-1	MB							
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.00003	23-DEC-20
WG3466219-4	MS	L2541819-2						
Mercury (Hg)-Dissolved			91.3		%		70-130	23-DEC-20
HG-TOT-WT		Effluent						
Batch	R5321840							
WG3466217-3	DUP	L2541819-1						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	23-DEC-20
WG3466217-2	LCS							
Mercury (Hg)-Total			96.6		%		80-120	23-DEC-20
WG3466217-1	MB							
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	23-DEC-20
WG3466217-4	MS	L2541819-2						

Quality Control Report

Workorder: L2541819

Report Date: 19-JAN-21

Page 6 of 19

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-TOT-WT								
	Effluent							
Batch	R5321840							
WG3466217-4 MS		L2541819-2						
Mercury (Hg)-Total			98.9		%		70-130	23-DEC-20
MET-D-MISA-TB								
	Effluent							
Batch	R5327682							
WG3467357-2 LCS								
Aluminum (Al)-Dissolved			100.8		%		80-120	29-DEC-20
Antimony (Sb)-Dissolved			94.4		%		80-120	29-DEC-20
Arsenic (As)-Dissolved			100.7		%		80-120	29-DEC-20
Barium (Ba)-Dissolved			100.7		%		80-120	29-DEC-20
Beryllium (Be)-Dissolved			98.9		%		80-120	29-DEC-20
Bismuth (Bi)-Dissolved			101.9		%		80-120	29-DEC-20
Boron (B)-Dissolved			94.0		%		80-120	29-DEC-20
Cadmium (Cd)-Dissolved			98.2		%		80-120	29-DEC-20
Calcium (Ca)-Dissolved			94.9		%		80-120	29-DEC-20
Cesium (Cs)-Dissolved			95.4		%		80-120	29-DEC-20
Chromium (Cr)-Dissolved			98.9		%		80-120	29-DEC-20
Cobalt (Co)-Dissolved			97.1		%		80-120	29-DEC-20
Copper (Cu)-Dissolved			97.4		%		80-120	29-DEC-20
Iron (Fe)-Dissolved			101.7		%		80-120	29-DEC-20
Lead (Pb)-Dissolved			99.0		%		80-120	29-DEC-20
Lithium (Li)-Dissolved			98.4		%		80-120	29-DEC-20
Magnesium (Mg)-Dissolved			97.1		%		80-120	29-DEC-20
Manganese (Mn)-Dissolved			97.8		%		80-120	29-DEC-20
Molybdenum (Mo)-Dissolved			99.6		%		80-120	29-DEC-20
Nickel (Ni)-Dissolved			97.2		%		80-120	29-DEC-20
Phosphorus (P)-Dissolved			99.5		%		70-130	29-DEC-20
Potassium (K)-Dissolved			101.2		%		80-120	29-DEC-20
Rubidium (Rb)-Dissolved			102.9		%		80-120	29-DEC-20
Selenium (Se)-Dissolved			101.0		%		80-120	29-DEC-20
Silicon (Si)-Dissolved			104.3		%		60-140	29-DEC-20
Silver (Ag)-Dissolved			95.7		%		80-120	29-DEC-20
Sodium (Na)-Dissolved			100.9		%		80-120	29-DEC-20
Strontium (Sr)-Dissolved			98.7		%		80-120	29-DEC-20
Sulfur (S)-Dissolved			97.4		%		80-120	29-DEC-20

Quality Control Report

Workorder: L2541819

Report Date: 19-JAN-21

Page 7 of 19

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB	Effluent							
Batch	R5327682							
WG3467357-2	LCS							
Tellurium (Te)-Dissolved			95.3		%		80-120	29-DEC-20
Thallium (Tl)-Dissolved			97.5		%		80-120	29-DEC-20
Thorium (Th)-Dissolved			98.8		%		80-120	29-DEC-20
Tin (Sn)-Dissolved			97.4		%		80-120	29-DEC-20
Titanium (Ti)-Dissolved			95.4		%		80-120	29-DEC-20
Tungsten (W)-Dissolved			95.8		%		80-120	29-DEC-20
Uranium (U)-Dissolved			97.2		%		80-120	29-DEC-20
Vanadium (V)-Dissolved			99.4		%		80-120	29-DEC-20
Zinc (Zn)-Dissolved			94.8		%		80-120	29-DEC-20
Zirconium (Zr)-Dissolved			94.7		%		80-120	29-DEC-20
WG3467357-1	MB							
Aluminum (Al)-Dissolved			0.0006		mg/L		0.005	29-DEC-20
Antimony (Sb)-Dissolved			<0.000005		mg/L		0.0006	29-DEC-20
Arsenic (As)-Dissolved			0.0000030		mg/L		0.001	29-DEC-20
Barium (Ba)-Dissolved			0.000015		mg/L		0.01	29-DEC-20
Beryllium (Be)-Dissolved			0.000006		mg/L		0.001	29-DEC-20
Bismuth (Bi)-Dissolved			0.000004		mg/L		0.001	29-DEC-20
Boron (B)-Dissolved			<0.0005		mg/L		0.05	29-DEC-20
Cadmium (Cd)-Dissolved			0.0000040		mg/L		0.000017	29-DEC-20
Calcium (Ca)-Dissolved			0.006		mg/L		0.2	29-DEC-20
Cesium (Cs)-Dissolved			0.0000020		mg/L		0.00001	29-DEC-20
Chromium (Cr)-Dissolved			<0.00001		mg/L		0.001	29-DEC-20
Cobalt (Co)-Dissolved			0.000006		mg/L		0.0005	29-DEC-20
Copper (Cu)-Dissolved			0.00002		mg/L		0.001	29-DEC-20
Iron (Fe)-Dissolved			0.0005		mg/L		0.02	29-DEC-20
Lead (Pb)-Dissolved			0.00002		mg/L		0.00005	29-DEC-20
Lithium (Li)-Dissolved			0.0002		mg/L		0.05	29-DEC-20
Magnesium (Mg)-Dissolved			0.0010		mg/L		0.02	29-DEC-20
Manganese (Mn)-Dissolved			0.00008		mg/L		0.001	29-DEC-20
Molybdenum (Mo)-Dissolved			0.000010		mg/L		0.001	29-DEC-20
Nickel (Ni)-Dissolved			0.00002		mg/L		0.002	29-DEC-20
Phosphorus (P)-Dissolved			<0.005		mg/L		0.05	29-DEC-20
Potassium (K)-Dissolved			<0.01		mg/L		0.5	29-DEC-20
Rubidium (Rb)-Dissolved			0.000006		mg/L		0.0002	29-DEC-20

Quality Control Report

Workorder: L2541819

Report Date: 19-JAN-21

Page 8 of 19

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MISA-TB		Effluent						
Batch R5327682								
WG3467357-1 MB								
Selenium (Se)-Dissolved			0.000010		mg/L		0.00005	29-DEC-20
Silicon (Si)-Dissolved			<0.005		mg/L		0.05	29-DEC-20
Silver (Ag)-Dissolved			0.0000020		mg/L		0.0001	29-DEC-20
Sodium (Na)-Dissolved			0.015		mg/L		0.1	29-DEC-20
Strontium (Sr)-Dissolved			0.00002		mg/L		0.001	29-DEC-20
Sulfur (S)-Dissolved			<0.2		mg/L		0.5	29-DEC-20
Tellurium (Te)-Dissolved			<0.00001		mg/L		0.001	29-DEC-20
Thallium (Tl)-Dissolved			<0.000002		mg/L		0.0003	29-DEC-20
Thorium (Th)-Dissolved			<0.00001		mg/L		0.0001	29-DEC-20
Tin (Sn)-Dissolved			0.000020		mg/L		0.001	29-DEC-20
Titanium (Ti)-Dissolved			<0.00002		mg/L		0.002	29-DEC-20
Tungsten (W)-Dissolved			0.000006		mg/L		0.01	29-DEC-20
Uranium (U)-Dissolved			0.0000010		mg/L		0.005	29-DEC-20
Vanadium (V)-Dissolved			<0.00002		mg/L		0.001	29-DEC-20
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.003	29-DEC-20
Zirconium (Zr)-Dissolved			<0.000002		mg/L		0.001	29-DEC-20
MET-T-MISA-TB		Effluent						
Batch R5329636								
WG3467036-3 DUP		L2541819-15						
Aluminum (Al)-Total		0.0816	0.0808		mg/L	1.0	20	30-DEC-20
Antimony (Sb)-Total		0.00156	0.00155		mg/L	0.6	20	30-DEC-20
Arsenic (As)-Total		0.00092	0.00085	RPD-NA	mg/L	N/A	20	30-DEC-20
Barium (Ba)-Total		0.0744	0.0773		mg/L	3.8	20	30-DEC-20
Beryllium (Be)-Total		0.0000021	0.0000010	RPD-NA	mg/L	N/A	20	30-DEC-20
Bismuth (Bi)-Total		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	30-DEC-20
Boron (B)-Total		0.0290	0.0295	RPD-NA	mg/L	N/A	20	30-DEC-20
Cadmium (Cd)-Total		0.000008	0.000007	RPD-NA	mg/L	N/A	20	30-DEC-20
Calcium (Ca)-Total		110	110		mg/L	0.3	20	30-DEC-20
Cesium (Cs)-Total		0.0000090	0.0000100	RPD-NA	mg/L	N/A	20	30-DEC-20
Chromium (Cr)-Total		0.00046	0.00048	RPD-NA	mg/L	N/A	20	30-DEC-20
Cobalt (Co)-Total		0.000530	0.000525		mg/L	1.0	20	30-DEC-20
Copper (Cu)-Total		0.00140	0.00136		mg/L	3.3	20	30-DEC-20
Iron (Fe)-Total		0.210	0.189		mg/L	10	20	30-DEC-20

Quality Control Report

Workorder: L2541819

Report Date: 19-JAN-21

Page 9 of 19

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5329636							
WG3467036-3	DUP	L2541819-15						
Lead (Pb)-Total		0.00006	0.00006		mg/L	10	20	30-DEC-20
Lithium (Li)-Total		0.0132	0.0130	RPD-NA	mg/L	N/A	20	30-DEC-20
Magnesium (Mg)-Total		43.3	43.4		mg/L	0.1	20	30-DEC-20
Manganese (Mn)-Total		0.0764	0.0766		mg/L	0.2	20	30-DEC-20
Molybdenum (Mo)-Total		0.00119	0.00119		mg/L	0.4	20	30-DEC-20
Nickel (Ni)-Total		0.00138	0.00136	RPD-NA	mg/L	N/A	20	30-DEC-20
Phosphorus (P)-Total		0.025	0.020	RPD-NA	mg/L	N/A	20	30-DEC-20
Potassium (K)-Total		14.5	14.7		mg/L	1.2	20	30-DEC-20
Rubidium (Rb)-Total		0.00290	0.00288		mg/L	0.5	20	30-DEC-20
Selenium (Se)-Total		0.000170	0.000190		mg/L	9.8	20	30-DEC-20
Silicon (Si)-Total		5.55	5.59		mg/L	0.7	20	30-DEC-20
Silver (Ag)-Total		0.000003	0.000003	RPD-NA	mg/L	N/A	20	30-DEC-20
Sodium (Na)-Total		53.4	54.0		mg/L	1.1	20	30-DEC-20
Strontium (Sr)-Total		0.303	0.305		mg/L	0.6	20	30-DEC-20
Sulfur (S)-Total		117	117		mg/L	0.1	20	30-DEC-20
Tellurium (Te)-Total		0.00002	<0.00002	RPD-NA	mg/L	N/A	20	30-DEC-20
Thallium (Tl)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	30-DEC-20
Thorium (Th)-Total		0.00003	0.00003	RPD-NA	mg/L	N/A	20	30-DEC-20
Tin (Sn)-Total		0.00004	0.00004	RPD-NA	mg/L	N/A	20	30-DEC-20
Titanium (Ti)-Total		0.00288	0.00295		mg/L	2.2	20	30-DEC-20
Tungsten (W)-Total		<0.00001	<0.00001	RPD-NA	mg/L	N/A	20	30-DEC-20
Uranium (U)-Total		0.00267	0.00275	RPD-NA	mg/L	N/A	20	30-DEC-20
Vanadium (V)-Total		0.00055	0.00055	RPD-NA	mg/L	N/A	20	30-DEC-20
Zinc (Zn)-Total		0.0105	0.0085		mg/L	16	20	30-DEC-20
Zirconium (Zr)-Total		0.000226	0.000246	RPD-NA	mg/L	N/A	20	30-DEC-20
WG3467036-2	LCS							
Aluminum (Al)-Total			100.3		%		80-120	30-DEC-20
Antimony (Sb)-Total			104.8		%		80-120	30-DEC-20
Arsenic (As)-Total			103.3		%		80-120	30-DEC-20
Barium (Ba)-Total			106.9		%		80-120	30-DEC-20
Beryllium (Be)-Total			97.1		%		80-120	30-DEC-20
Bismuth (Bi)-Total			100.9		%		80-120	30-DEC-20
Boron (B)-Total			97.3		%		80-120	30-DEC-20

Quality Control Report

Workorder: L2541819

Report Date: 19-JAN-21

Page 10 of 19

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5329636							
WG3467036-2 LCS								
Cadmium (Cd)-Total			104.0		%		80-120	30-DEC-20
Calcium (Ca)-Total			100.8		%		80-120	30-DEC-20
Cesium (Cs)-Total			102.5		%		80-120	30-DEC-20
Chromium (Cr)-Total			103.6		%		80-120	30-DEC-20
Cobalt (Co)-Total			101.4		%		80-120	30-DEC-20
Copper (Cu)-Total			102.5		%		80-120	30-DEC-20
Iron (Fe)-Total			108.5		%		80-120	30-DEC-20
Lead (Pb)-Total			102.9		%		80-120	30-DEC-20
Lithium (Li)-Total			97.0		%		80-120	30-DEC-20
Magnesium (Mg)-Total			104.8		%		80-120	30-DEC-20
Manganese (Mn)-Total			102.2		%		80-120	30-DEC-20
Molybdenum (Mo)-Total			105.1		%		80-120	30-DEC-20
Nickel (Ni)-Total			101.0		%		80-120	30-DEC-20
Phosphorus (P)-Total			102.0		%		80-120	30-DEC-20
Potassium (K)-Total			102.6		%		80-120	30-DEC-20
Rubidium (Rb)-Total			109.2		%		80-120	30-DEC-20
Selenium (Se)-Total			103.9		%		80-120	30-DEC-20
Silicon (Si)-Total			102.4		%		80-120	30-DEC-20
Silver (Ag)-Total			104.4		%		80-120	30-DEC-20
Sodium (Na)-Total			102.3		%		80-120	30-DEC-20
Strontium (Sr)-Total			104.6		%		80-120	30-DEC-20
Sulfur (S)-Total			97.9		%		80-120	30-DEC-20
Tellurium (Te)-Total			102.2		%		80-120	30-DEC-20
Thallium (Tl)-Total			104.0		%		80-120	30-DEC-20
Thorium (Th)-Total			104.2		%		80-120	30-DEC-20
Tin (Sn)-Total			103.0		%		80-120	30-DEC-20
Titanium (Ti)-Total			100.0		%		80-120	30-DEC-20
Tungsten (W)-Total			101.6		%		80-120	30-DEC-20
Uranium (U)-Total			106.4		%		80-120	30-DEC-20
Vanadium (V)-Total			102.5		%		80-120	30-DEC-20
Zinc (Zn)-Total			106.2		%		80-120	30-DEC-20
Zirconium (Zr)-Total			102.2		%		80-120	30-DEC-20
WG3467036-1 MB								
Aluminum (Al)-Total			0.0016		mg/L		0.005	30-DEC-20

Quality Control Report

Workorder: L2541819

Report Date: 19-JAN-21

Page 11 of 19

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5329636							
WG3467036-1 MB								
Antimony (Sb)-Total			0.000015		mg/L		0.0006	30-DEC-20
Arsenic (As)-Total			0.00004		mg/L		0.001	30-DEC-20
Barium (Ba)-Total			0.00001		mg/L		0.01	30-DEC-20
Beryllium (Be)-Total			0.0000010		mg/L		0.001	30-DEC-20
Bismuth (Bi)-Total			<0.00001		mg/L		0.001	30-DEC-20
Boron (B)-Total			0.0005		mg/L		0.05	30-DEC-20
Cadmium (Cd)-Total			0.000001		mg/L		0.000017	30-DEC-20
Calcium (Ca)-Total			0.004		mg/L		0.2	30-DEC-20
Cesium (Cs)-Total			<0.0000005		mg/L		0.00001	30-DEC-20
Chromium (Cr)-Total			0.00004		mg/L		0.001	30-DEC-20
Cobalt (Co)-Total			<0.000005		mg/L		0.0005	30-DEC-20
Copper (Cu)-Total			<0.00002		mg/L		0.001	30-DEC-20
Iron (Fe)-Total			0.0015		mg/L		0.02	30-DEC-20
Lead (Pb)-Total			<0.00001		mg/L		0.00005	30-DEC-20
Lithium (Li)-Total			<0.0002		mg/L		0.05	30-DEC-20
Magnesium (Mg)-Total			0.0006		mg/L		0.02	30-DEC-20
Manganese (Mn)-Total			<0.0002		mg/L		0.001	30-DEC-20
Molybdenum (Mo)-Total			0.000005		mg/L		0.001	30-DEC-20
Nickel (Ni)-Total			0.00004		mg/L		0.002	30-DEC-20
Phosphorus (P)-Total			0.010		mg/L		0.05	30-DEC-20
Potassium (K)-Total			<0.01		mg/L		0.5	30-DEC-20
Rubidium (Rb)-Total			<0.000002		mg/L		0.0002	30-DEC-20
Selenium (Se)-Total			<0.000005		mg/L		0.00005	30-DEC-20
Silicon (Si)-Total			0.030		mg/L		0.1	30-DEC-20
Silver (Ag)-Total			0.000001		mg/L		0.0001	30-DEC-20
Sodium (Na)-Total			<0.005		mg/L		0.1	30-DEC-20
Strontium (Sr)-Total			0.000010		mg/L		0.001	30-DEC-20
Sulfur (S)-Total			<0.2		mg/L		0.5	30-DEC-20
Tellurium (Te)-Total			<0.00002		mg/L		0.001	30-DEC-20
Thallium (Tl)-Total			<0.000005		mg/L		0.0003	30-DEC-20
Thorium (Th)-Total			<0.00001		mg/L		0.0001	30-DEC-20
Tin (Sn)-Total			0.00002		mg/L		0.001	30-DEC-20
Titanium (Ti)-Total			0.00001		mg/L		0.002	30-DEC-20

Quality Control Report

Workorder: L2541819

Report Date: 19-JAN-21

Page 12 of 19

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB								
	Effluent							
Batch	R5329636							
WG3467036-1 MB								
Tungsten (W)-Total			<0.00001		mg/L		0.01	30-DEC-20
Uranium (U)-Total			<0.000000E		mg/L		0.005	30-DEC-20
Vanadium (V)-Total			0.00010		mg/L		0.001	30-DEC-20
Zinc (Zn)-Total			0.0015		mg/L		0.003	30-DEC-20
Zirconium (Zr)-Total			0.000004		mg/L		0.001	30-DEC-20
WG3467036-4 MS		L2541819-16						
Antimony (Sb)-Total			111.5		%		70-130	30-DEC-20
Arsenic (As)-Total			108.4		%		70-130	30-DEC-20
Barium (Ba)-Total			N/A	MS-B	%		-	30-DEC-20
Beryllium (Be)-Total			98.8		%		70-130	30-DEC-20
Bismuth (Bi)-Total			105.0		%		70-130	30-DEC-20
Boron (B)-Total			106.2		%		70-130	30-DEC-20
Cadmium (Cd)-Total			106.2		%		70-130	30-DEC-20
Calcium (Ca)-Total			N/A	MS-B	%		-	30-DEC-20
Cesium (Cs)-Total			112.5		%		70-130	30-DEC-20
Chromium (Cr)-Total			110.4		%		70-130	30-DEC-20
Cobalt (Co)-Total			105.3		%		70-130	30-DEC-20
Copper (Cu)-Total			107.0		%		70-130	30-DEC-20
Iron (Fe)-Total			107.6		%		70-130	30-DEC-20
Lead (Pb)-Total			104.6		%		70-130	30-DEC-20
Lithium (Li)-Total			103.3		%		70-130	30-DEC-20
Magnesium (Mg)-Total			N/A	MS-B	%		-	30-DEC-20
Manganese (Mn)-Total			N/A	MS-B	%		-	30-DEC-20
Molybdenum (Mo)-Total			109.1		%		70-130	30-DEC-20
Nickel (Ni)-Total			105.6		%		70-130	30-DEC-20
Phosphorus (P)-Total			107.1		%		70-130	30-DEC-20
Potassium (K)-Total			101.0		%		70-130	30-DEC-20
Rubidium (Rb)-Total			109.8		%		70-130	30-DEC-20
Selenium (Se)-Total			109.9		%		70-130	30-DEC-20
Silicon (Si)-Total			95.5		%		70-130	30-DEC-20
Silver (Ag)-Total			110.9		%		70-130	30-DEC-20
Sodium (Na)-Total			N/A	MS-B	%		-	30-DEC-20
Strontium (Sr)-Total			N/A	MS-B	%		-	30-DEC-20
Sulfur (S)-Total			108.8		%		70-130	30-DEC-20

Quality Control Report

Workorder: L2541819

Report Date: 19-JAN-21

Page 13 of 19

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MISA-TB		Effluent						
Batch	R5329636							
WG3467036-4 MS		L2541819-16						
Tellurium (Te)-Total			105.3		%		70-130	30-DEC-20
Thallium (Tl)-Total			103.9		%		70-130	30-DEC-20
Thorium (Th)-Total			110.4		%		70-130	30-DEC-20
Tin (Sn)-Total			107.2		%		70-130	30-DEC-20
Titanium (Ti)-Total			111.4		%		70-130	30-DEC-20
Tungsten (W)-Total			105.8		%		70-130	30-DEC-20
Uranium (U)-Total			108.8		%		70-130	30-DEC-20
Vanadium (V)-Total			106.4		%		70-130	30-DEC-20
Zinc (Zn)-Total			106.6		%		70-130	30-DEC-20
Zirconium (Zr)-Total			107.8		%		70-130	30-DEC-20
NH3-F-WT		Effluent						
Batch	R5324536							
WG3466063-3 DUP		WG3466063-5						
Ammonia, Total (as N)		0.008	0.010	RPD-NA	mg/L	N/A	25	23-DEC-20
WG3466063-2 LCS			105.2		%		70-130	23-DEC-20
WG3466063-1 MB			<0.002		mg/L		0.02	23-DEC-20
WG3466063-4 MS		WG3466063-5						
Ammonia, Total (as N)			94.0		%		70-130	23-DEC-20
Batch	R5325223							
WG3466724-3 DUP		WG3466724-5						
Ammonia, Total (as N)		0.038	0.036		mg/L	2.2	25	28-DEC-20
WG3466754-3 DUP		WG3466754-5						
Ammonia, Total (as N)		0.016	0.016	RPD-NA	mg/L	N/A	25	28-DEC-20
WG3466724-2 LCS			105.9		%		70-130	28-DEC-20
WG3466754-2 LCS			107.0		%		70-130	28-DEC-20
WG3466724-1 MB			<0.002		mg/L		0.02	28-DEC-20
WG3466754-1 MB			<0.002		mg/L		0.02	28-DEC-20
WG3466724-4 MS		WG3466724-5						
Ammonia, Total (as N)			119.4		%		70-130	28-DEC-20
WG3466754-4 MS		WG3466754-5						

Quality Control Report

Workorder: L2541819

Report Date: 19-JAN-21

Page 14 of 19

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-F-WT		Effluent						
Batch	R5325223							
WG3466754-4	MS	WG3466754-5	107.8		%		70-130	28-DEC-20
Ammonia, Total (as N)								
NO2-MISA-IC-TB		Effluent						
Batch	R5319944							
WG3464308-3	DUP	L2541819-1	<0.001	RPD-NA	mg/L	N/A	20	18-DEC-20
Nitrite (as N)								
WG3464308-2	LCS		92.9		%		90-110	18-DEC-20
Nitrite (as N)								
WG3464308-1	MB		<0.001		mg/L		0.01	18-DEC-20
Nitrite (as N)								
NO3-MISA-IC-TB		Effluent						
Batch	R5319944							
WG3464308-3	DUP	L2541819-1	<0.002	RPD-NA	mg/L	N/A	20	18-DEC-20
Nitrate (as N)								
WG3464308-2	LCS		104.4		%		90-110	18-DEC-20
Nitrate (as N)								
WG3464308-1	MB		<0.002		mg/L		0.02	18-DEC-20
Nitrate (as N)								
OGG-TOT-WT		Effluent						
Batch	R5327576							
WG3467641-2	LCS		93.7		%		50-150	29-DEC-20
Oil and Grease, Total								
WG3467641-1	MB		0.2		mg/L		1	29-DEC-20
Oil and Grease, Total								
Batch	R5327678							
WG3467828-2	LCS		98.1		%		50-150	30-DEC-20
Oil and Grease, Total								
WG3467828-1	MB		1.0		mg/L		1	30-DEC-20
Oil and Grease, Total								
PH-MISA-TB		Effluent						
Batch	R5319638							
WG3464313-3	DUP	L2541819-14	7.70	J	pH	0.04	0.2	18-DEC-20
pH								
WG3464183-2	LCS		6.96		pH		6.9-7.1	18-DEC-20
pH								
WG3464313-2	LCS							

Quality Control Report

Workorder: L2541819

Report Date: 19-JAN-21

Page 15 of 19

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-MISA-TB		Effluent						
Batch	R5319638							
WG3464313-2	LCS							
pH			6.95		pH		6.9-7.1	18-DEC-20
SO4-MISA-IC-TB		Effluent						
Batch	R5319944							
WG3464308-3	DUP	L2541819-1						
Sulfate (SO4)		<0.05	<0.05	RPD-NA	mg/L	N/A	20	18-DEC-20
WG3464308-2	LCS							
Sulfate (SO4)			101.8		%		90-110	18-DEC-20
WG3464308-1	MB							
Sulfate (SO4)			<0.05		mg/L		0.3	18-DEC-20
TDS-MISA-TB		Effluent						
Batch	R5320048							
WG3464207-3	DUP	L2540947-1						
Total Dissolved Solids		1170	1070		mg/L	9.5	20	18-DEC-20
WG3464207-2	LCS							
Total Dissolved Solids			90.7		%		85-115	18-DEC-20
WG3464207-1	MB							
Total Dissolved Solids			<2		mg/L		10	18-DEC-20
Batch	R5320578							
WG3464962-3	DUP	L2541819-10						
Total Dissolved Solids		412	416		mg/L	0.7	20	21-DEC-20
WG3464962-2	LCS							
Total Dissolved Solids			97.2		%		85-115	21-DEC-20
WG3464962-1	MB							
Total Dissolved Solids			<2		mg/L		10	21-DEC-20
TKN-WT		Effluent						
Batch	R5325956							
WG3466582-3	DUP	WG3466582-5						
Total Kjeldahl Nitrogen		0.15	0.15	RPD-NA	mg/L	N/A	20	29-DEC-20
WG3466718-3	DUP	WG3466718-5						
Total Kjeldahl Nitrogen		0.45	0.50		mg/L	12	20	29-DEC-20
WG3466759-3	DUP	WG3466759-5						
Total Kjeldahl Nitrogen		1.00	1.00		mg/L	0.0	20	29-DEC-20
WG3466582-2	LCS							
Total Kjeldahl Nitrogen			90.0		%		75-125	29-DEC-20
WG3466718-2	LCS							

Quality Control Report

Workorder: L2541819

Report Date: 19-JAN-21

Page 16 of 19

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TKN-WT		Effluent						
Batch	R5325956							
WG3466718-2	LCS							
Total Kjeldahl Nitrogen			91.5		%		75-125	29-DEC-20
WG3466759-2	LCS							
Total Kjeldahl Nitrogen			90.3		%		75-125	29-DEC-20
WG3466582-1	MB							
Total Kjeldahl Nitrogen			<0.05		mg/L		0.18	29-DEC-20
WG3466718-1	MB							
Total Kjeldahl Nitrogen			<0.05		mg/L		0.18	29-DEC-20
WG3466759-1	MB							
Total Kjeldahl Nitrogen			<0.05		mg/L		0.18	29-DEC-20
WG3466582-4	MS	WG3466582-5						
Total Kjeldahl Nitrogen			91.6		%		70-130	29-DEC-20
WG3466718-4	MS	WG3466718-5						
Total Kjeldahl Nitrogen			91.2		%		70-130	29-DEC-20
WG3466759-4	MS	WG3466759-5						
Total Kjeldahl Nitrogen			98.0		%		70-130	29-DEC-20
Batch	R5328938							
WG3467764-3	DUP	WG3467764-5						
Total Kjeldahl Nitrogen		0.30	0.35	RPD-NA	mg/L	N/A	20	30-DEC-20
WG3467764-2	LCS							
Total Kjeldahl Nitrogen			99.3		%		75-125	30-DEC-20
WG3467764-1	MB							
Total Kjeldahl Nitrogen			<0.05		mg/L		0.18	30-DEC-20
WG3467764-4	MS	WG3467764-5						
Total Kjeldahl Nitrogen			104.2		%		70-130	30-DEC-20
TSS-MISA-TB		Effluent						
Batch	R5320265							
WG3464205-3	DUP	L2540947-1						
Total Suspended Solids		<0.5	3.5	RPD-NA	mg/L	N/A	20	18-DEC-20
WG3464205-2	LCS							
Total Suspended Solids			101.2		%		85-115	18-DEC-20
WG3464205-1	MB							
Total Suspended Solids			<0.5		mg/L		3	18-DEC-20
Batch	R5320530							
WG3464966-3	DUP	L2541819-10						
Total Suspended Solids		4.5	4.0		mg/L	4.7	20	21-DEC-20
WG3464966-2	LCS							
Total Suspended Solids			100.7		%		85-115	21-DEC-20

Quality Control Report

Workorder: L2541819

Report Date: 19-JAN-21

Page 17 of 19

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Amanda Jacobs

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TSS-MISA-TB	Effluent							
Batch	R5320530							
WG3464966-1 MB								
Total Suspended Solids			1.0		mg/L		3	21-DEC-20

Quality Control Report

Workorder: L2541819

Report Date: 19-JAN-21

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Page 18 of 19

Contact: Amanda Jacobs

Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
<DL	Recorded value = measured amount <LMDL (non-zero)
<T	A Measurable Trace Amount: Interpret With Caution
<W	No Measurable Response (Zero): < Reported Value
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L2541819

Report Date: 19-JAN-21

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Amanda Jacobs

Page 19 of 19

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Cyanides							
Free Cyanide by Continuous Flow Analyzer							
	1	15-DEC-20 12:00	23-DEC-20 00:00	7	8	days	EHT
	4	15-DEC-20 12:00	23-DEC-20 00:00	7	8	days	EHT
	5	15-DEC-20 10:20	23-DEC-20 00:00	7	8	days	EHT
	8	15-DEC-20 11:25	23-DEC-20 00:00	7	8	days	EHT
	13	15-DEC-20 09:30	23-DEC-20 00:00	7	8	days	EHT
	14	15-DEC-20 08:45	23-DEC-20 00:00	7	8	days	EHT
	16	15-DEC-20 11:00	23-DEC-20 00:00	7	8	days	EHT

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2541819 were received on 18-DEC-20 09:30.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



CHAIN OF CUSTODY RECORD - ALS-441824104

Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 12/17/2020 9:51:00 AM COC Number: ALS-441824104						Containers SW Kit Ra-226 Bottle																	
						Filtered N N																	
						Preservatives																	
						NG-SW-P-TB RA226-MMER-BE																	
Sample Code	Field pH	Field Temp	Field DO	Date and Time	Matrix	NG-SW-P-TB	RA226-MMER-BE												Number of Containers	Comments			
1 FB_SW_20201 208				12/15/2020 12:00	QC	X													11	Field Blank			
2 SW02_SW_202 01208	6.62	-0.23		12/15/2020 12:15	SW	X													11				
3 SW03_SW_202 01208	7.41	-0.21		12/15/2020 14:20	SW	X													11				
4 SW06_SW_202 01208				12/15/2020 12:00	QC	X													11	Field Duplicate			
5 SW10_SW_202 01208	7.06	1.24		12/15/2020 10:20	SW	X													11				
6 SW15_SW_202 01208	7.08	1	6.45	12/16/2020 12:15	SW	X													11				

Signature Shipped by Received by		Date/Time 12/17/2020 9:51:00 AM @ 9:30 pm	Shipping Details Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone:	ATTN	Special Instructions: Samples were not field filtered or preserved Email Invoice to: <rainyriver.accounts1@newgold.com> Email Report to: rainyriver.labresults@newgold.com>
---	--	--	--	-------------	---

y



Drinking Water (DW) Samples (client use)
Are samples taken from a Regulated DW System? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Are samples for human consumption / use? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Samples from a Regulated DW System require an Authorized DW COC form

Sample Receipt Details (ALS use only)			
Cooling Method: <input type="checkbox"/> None <input type="checkbox"/> Ice <input checked="" type="checkbox"/> Ice Packs <input checked="" type="checkbox"/> Frozen <input type="checkbox"/> Cooling Initiated			
Submission Comments identified on Sample Receipt Notification: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Cooler Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> NA Sample Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> NA			
Initial Cooler Temperatures °C		Final Cooler Temperatures °C	
8.6			

Signature	Date/Time	Shipping Details	ATTN	Special Instructions:
Shipped by <i><original signed by></i>	12/17/2020 9:51:00 AM	Method of Shipment: Courier On ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone:		Samples were not field filtered or preserved
Received by				Email Invoice to: <rainyriver.accounts1@newgold.com> Email Report to: rainyriver.labresults@newgold.com>



L2541819-COFC

Client: Rainy River

Sample Layout Verification:	Verified By <u>Y</u>	Date <u>2020</u> <u>12 18</u>	Time <u>NA</u>	Sample Integrity Issue Enter information on back page
	Verified By			Do any samples require prep? <u>NO</u> P <u>F/P</u> <u>Doc</u>

Sample #:																			
1L	Plastic																		
500mL	Plastic																		
250mL	Plastic																		
145mL	Plastic																		
60mL	Plastic																		
Micro																			
Toxicity Pail																			
1L	Glass																		
500mL	Glass																		
250mL	Glass																		
120mL	Glass																		
60mL	Glass																		
40mL	Vial (Glass)																		
40mL	Methanol Vials																		
Soil Jar (120, 250 or 500mL)																			
Other:																			
Other:																			
Total Number of Bottles																			

Trip/Travel/Field Blank Information			
Solids Batch#:	Metals Batch#:	T:	D:
Routine Batch#:	Mercury Batch#:	T:	D:
BOD Batch#: <u>105338</u>	Cyanide Batch#:	T:	D:
Nutrients Batch#: <u>105338</u>	OCG Batch#: <u>105338</u>		
DOC/Carbon Batch#: <u>105338</u>	Phenols Batch#:		
VOC Batch#:			
Other:			

COOLER TRACKING	
EPP	Coleman
Small	Micro (5QT)
Med	Sm(9QT)
Lrg	Med(16QT)
Micro Box	Lrg(28QT)
	Lrg(48QT)