

APPENDIX K

CAPITAL AND OPERATING COSTS

Appendix K1

Capital Cost Estimate

		Labour Manhour	Labour Cost	Material Cost	Construction Equipment Cost	Process Equipment Cost	Total Cost (USD)
Direct Works							
A	Overall Site	869,657	90,165,985	41,802,462	30,243,842	37,605,401	199,817,691
B1	Open Pit Mining	57,188	5,929,268	26,547,078	2,139,500	151,210,474	185,826,320
B3	Underground Mining (Mitchell Block Caving)	0	0	0	0	0	0
B5	Underground Mining (Iron Cap Block Caving)	0	0	0	0	0	0
C	Crushing, Stockpiles and Grinding	650,080	67,400,301	53,511,907	3,590,115	32,397,153	156,899,477
D1	Tunnelling	1,339,181	125,950,169	171,927,939	46,335,008	0	344,213,116
D2	Mitchell Teigen Tunnel Transfer System	1,168,051	122,467,886	25,153,465	6,592,412	119,481,437	273,695,200
D3	Rope Conveyance [Sustaining]	0	0	0	0	0	0
E0	Plantsite Crushing	1,026,739	106,452,299	93,265,837	6,665,201	142,315,446	348,698,784
E1	Plantsite Grinding	1,282,072	132,925,242	93,325,467	7,318,637	224,672,684	458,242,029
F1	Tailings Management Facility	1,206,013	125,039,434	42,868,201	143,200,619	0	311,108,253
F6	Water Treatment	786,015	81,494,007	141,236,418	86,731,675	0	309,462,100
F8	Environmental	0	0	44,225,254	0	0	44,225,254
F9	Avalanche Control	234,685	24,332,096	20,745,024	767,592	0	45,844,711
G	Site Services and Utilites	173,054	17,942,192	6,379,766	728,301	9,175,661	34,225,920
J	Ancillary Buidings	245,659	25,469,941	61,315,179	2,487,832	6,823,622	96,096,575
K	Plant Mobile Equipment	16,617	1,722,809	432,000	1,584,000	6,936,768	10,675,577
M1	Temporary Services	190,281	19,728,326	168,241,355	2,671,548	97,920	190,739,148
M2	Treaty Road Marshalling Yard	23,609	2,447,772	7,399,243	321,339	622,080	10,790,434
N1	Permanent Electrical Power Supply and BC Hydro Capital Cost Contribution	226,104	24,147,219	138,376,775	2,172,482	52,622,937	217,319,414
N2	Mini Hydro Plants	15,400	1,596,672	2,675,904	0	12,263,328	16,535,904
N3	Energy Recovery Plants	14,809	1,567,701	2,135,758	184,155	3,688,724	7,576,338
P1	Permanent Access Roads	268,980	27,887,865	50,154,815	15,390,278	0	93,432,958

Project No: 1252880100-EST-R0001-00

Kerr-Sulphurets-Mitchell Project

Report Date: 28-Jun-12

Client: Seabridge Gold Inc.

Prefeasibility Study Update 2012 (HPGR Option) - Major Summary

Rev E5

		Labour Manhour	Labour Cost	Material Cost	Construction Equipment Cost	Process Equipment Cost	Total Cost (USD)
P2	Temporary Winter Access Roads	74,087	7,681,385	1,874,294	8,652,692	0	18,208,372
Q	Off-site Infrastructure and facilities	198,641	20,595,120	36,045,599	16,775,280	480,000	73,895,998
	Direct Works Subtotal	10,066,921	1,032,943,689	1,229,639,741	384,552,506	800,393,635	3,447,529,572
	Indirects						
X	Project Indirects	3,116,426	365,845,985	645,590,715	18,979,828	26,133,350	1,056,549,878
Y	Owner's Costs	0	0	106,315,198	0	0	106,315,198
Z	Contingencies	0	0	645,742,684	0	0	645,742,684
	Indirects Subtotal	3,116,426	365,845,985	1,397,648,596	18,979,828	26,133,350	1,808,607,759
Prefeasibility Study Update 2012 (HPGR Option) Total		13,183,348	1,398,789,675	2,627,288,337	403,532,334	826,526,985	5,256,137,330

Project No: 1252880100-EST-R0001-00
Kerr-Sulphurets-Mitchell Project
Report Date: 28-Jun-12
Client: Seabridge Gold Inc.
'refeasibility Study Update 2012 (HPGR Option) - Area Summar
Rev E5

Area	Labour Manhour	Labour Cost	Material Cost	Construction Eqpt Cost	Process Eqpt Cost	Total Cost (USD)
A - Overall Site	869,657	90,165,985	41,802,462	30,243,842	37,605,401	199,817,691
<i>A10 Plantsite and Roads</i>	<i>92,816</i>	<i>9,623,118</i>	<i>1,521,346</i>	<i>6,776,755</i>	<i>0</i>	<i>17,921,219</i>
<i>A11 Pioneering Work</i>	<i>310,334</i>	<i>32,175,412</i>	<i>5,850,075</i>	<i>20,475,262</i>	<i>0</i>	<i>58,500,748</i>
<i>A20 Mitchell Pit Power Supply & Distribution</i>	<i>119,308</i>	<i>12,369,864</i>	<i>8,898,298</i>	<i>1,100,897</i>	<i>4,756,330</i>	<i>27,125,389</i>
<i>A30 Plantsite Power Supply & Distribution</i>	<i>330,682</i>	<i>34,285,077</i>	<i>21,300,542</i>	<i>1,744,018</i>	<i>29,521,711</i>	<i>86,851,348</i>
<i>A40 Plant Control System</i>	<i>2,730</i>	<i>283,046</i>	<i>928,512</i>	<i>39,552</i>	<i>1,344,000</i>	<i>2,595,110</i>
<i>A50 Communication</i>	<i>5,850</i>	<i>606,528</i>	<i>2,064,000</i>	<i>62,400</i>	<i>1,983,360</i>	<i>4,716,288</i>
<i>A60 Yard Lighting</i>	<i>3,666</i>	<i>380,091</i>	<i>652,992</i>	<i>5,952</i>	<i>0</i>	<i>1,039,035</i>
<i>A70 Low Level Water Treatment Pipeline</i>	<i>4,271</i>	<i>442,850</i>	<i>586,698</i>	<i>39,006</i>	<i>0</i>	<i>1,068,553</i>
B1 - Open Pit Mining	57,188	5,929,268	26,547,078	2,139,500	151,210,474	185,826,320
<i>B10 Open Pit - Pre-production [Operating]</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>B12 Open Pit - Mobile Equipment</i>	<i>0</i>	<i>0</i>	<i>2,628,179</i>	<i>0</i>	<i>136,037,948</i>	<i>138,666,128</i>
<i>B14 Open Pit - Explosive Storage</i>	<i>3,900</i>	<i>404,352</i>	<i>1,176,000</i>	<i>48,000</i>	<i>8,160,000</i>	<i>9,788,352</i>
<i>B16 Open Pit - Dewatering including vert and horizontal wells</i>	<i>40,833</i>	<i>4,233,600</i>	<i>604,800</i>	<i>1,814,400</i>	<i>5,443,200</i>	<i>12,096,000</i>
<i>B17 Open Pit - Electrical</i>	<i>10,955</i>	<i>1,135,796</i>	<i>3,734,899</i>	<i>267,500</i>	<i>1,569,326</i>	<i>6,707,522</i>
<i>B18 Open Pit - Communication</i>	<i>0</i>	<i>0</i>	<i>384,000</i>	<i>0</i>	<i>0</i>	<i>384,000</i>
<i>B19 Open Pit - Safety</i>	<i>0</i>	<i>0</i>	<i>144,000</i>	<i>0</i>	<i>0</i>	<i>144,000</i>
<i>B20 Open Pit - Engineering Equipment</i>	<i>0</i>	<i>0</i>	<i>912,000</i>	<i>0</i>	<i>0</i>	<i>912,000</i>
<i>B21 Open Pit - Dispatch Offices</i>	<i>1,500</i>	<i>155,520</i>	<i>480,000</i>	<i>9,600</i>	<i>0</i>	<i>645,120</i>
<i>B22 Open Pit - Other Mining Costs</i>	<i>0</i>	<i>0</i>	<i>2,563,200</i>	<i>0</i>	<i>0</i>	<i>2,563,200</i>
<i>B23 Open Pit - Haul Roads</i>	<i>0</i>	<i>0</i>	<i>13,920,000</i>	<i>0</i>	<i>0</i>	<i>13,920,000</i>
B3 - Underground Mining (Mitchell Block Caving)	0	0	0	0	0	0

Project No: 1252880100-EST-R0001-00
Kerr-Sulphurets-Mitchell Project
Report Date: 28-Jun-12
Client: Seabridge Gold Inc.
'refeasibility Study Update 2012 (HPGR Option) - Area Summar
Rev E5

Area	Labour Manhour	Labour Cost	Material Cost	Construction Eqpt Cost	Process Eqpt Cost	Total Cost (USD)
<i>B30 Mine Development</i>	0	0	0	0	0	0
B5 - Underground Mining (Iron Cap Block Caving)	0	0	0	0	0	0
<i>B50 Mine Development</i>	0	0	0	0	0	0
C - Crushing, Stockpiles and Grinding	650,080	67,400,301	53,511,907	3,590,115	32,397,153	156,899,477
<i>C10 Kerr Primary Crushing [Sustaining]</i>	0	0	0	0	0	0
<i>C12 Sulphurets Primary Crushing [Sustaining]</i>	0	0	0	0	0	0
<i>C14 Mitchell Primary Crushing</i>	185,206	19,202,116	12,944,076	1,356,242	25,400,774	58,903,209
<i>C20 Kerr Coarse Ore Stockpile [Sustaining]</i>	0	0	0	0	0	0
<i>C22 Sulphurets Coarse Ore Stockpile [Sustaining]</i>	0	0	0	0	0	0
<i>C24 Mitchell Coarse Ore Stockpile</i>	464,874	48,198,185	40,567,831	2,233,872	6,996,380	97,996,268
<i>C34 Mitchell Rock Stockpile [Sustaining]</i>	0	0	0	0	0	0
D1 - Tunnelling	1,339,181	125,950,169	171,927,939	46,335,008	0	344,213,116
<i>D10 Sulphurets-Mitchell Tunnel [Sustaining] (SMCT)</i>	0	0	0	0	0	0
<i>D12 Mitchell-Tiegen Tunnel (MTT)</i>	886,450	79,010,967	103,646,289	34,022,684	0	216,679,940
<i>D14 Mitchell Diversion Tunnel (MDT)</i>	235,346	24,400,687	36,953,420	6,710,343	0	68,064,450
<i>D16 McTagg Diversion Tunnel (MTDT)</i>	160,474	16,637,948	23,587,538	4,229,811	0	44,455,297
<i>D18 Construction Diversion Tunnels (CDT)</i>	17,126	1,775,621	2,503,523	448,591	0	4,727,734
<i>D19 East Catchment Tunnels (ECT)</i>	39,785	4,124,946	5,237,169	923,579	0	10,285,694
D2 - Mitchell Teigen Tunnel Transfer System	1,168,051	122,467,886	25,153,465	6,592,412	119,481,437	273,695,200
<i>D24 Tunnel Conveyance</i>	1,019,959	105,749,372	13,005,744	5,900,501	101,381,223	226,036,841
<i>D26 Conveyor Tunnel Power Supply, Control and Communication, and Fire Detection</i>	133,216	15,176,209	11,808,989	680,870	17,032,890	44,698,957

Project No: 1252880100-EST-R0001-00
Kerr-Sulphurets-Mitchell Project
Report Date: 28-Jun-12
Client: Seabridge Gold Inc.
'refeasibility Study Update 2012 (HPGR Option) - Area Summar
Rev E5

Area	Labour Manhour	Labour Cost	Material Cost	Construction Eqpt Cost	Process Eqpt Cost	Total Cost (USD)
D27 <i>Transport/Truck Tunnel Fire Detection and Communication</i>	14,876	1,542,305	338,732	11,040	1,067,325	2,959,402
D3 - Rope Conveyance [Sustaining]	0	0	0	0	0	0
D30 <i>Rope Conveyance [Sustaining]</i>	0	0	0	0	0	0
E0 - Plantsite Crushing	1,026,739	106,452,299	93,265,837	6,665,201	142,315,446	348,698,784
E05 <i>Teigen Coarse Ore Stockpile</i>	419,679	43,512,269	45,398,038	2,871,627	15,106,132	106,888,066
E07 <i>Secondary Crushing</i>	130,486	13,528,804	8,459,682	742,811	36,153,685	58,884,982
E08 <i>Fine Ore Stockpile</i>	266,674	27,648,799	22,136,035	1,850,628	13,722,926	65,358,388
E09 <i>Tertiary Crushing (HPGR)</i>	209,900	21,762,428	17,272,082	1,200,136	77,332,702	117,567,348
E1 - Plantsite Grinding	1,282,072	132,925,242	93,325,467	7,318,637	224,672,684	458,242,029
E10 <i>Mill Building</i>	499,357	51,773,287	58,393,874	3,784,118	1,965,178	115,916,456
E15 <i>Primary & Secondary Grinding (including Pebble Crushing)</i>	89,088	9,236,593	1,449,751	256,384	85,556,853	96,499,580
E20 <i>Flotation</i>	64,980	6,737,147	4,433,316	205,182	73,359,248	84,734,894
E30 <i>Leaching</i>	230,544	23,902,843	11,487,557	834,341	15,254,723	51,479,464
E40 <i>Refinery</i>	42,408	4,396,863	3,414,651	706,373	4,871,766	13,389,654
E50 <i>Concentrate Handling</i>	27,784	2,880,595	947,427	150,110	6,165,575	10,143,707
E60 <i>Cyanide Recovery & Destruction</i>	77,440	8,028,971	4,109,155	428,132	8,412,484	20,978,741
E70 <i>Reagents Area</i>	14,607	1,514,419	938,226	107,701	4,719,280	7,279,626
E80 <i>Molybdenum Circuit</i>	13,956	1,446,940	826,369	54,950	4,085,994	6,414,254
E90 <i>Tailings Disposal And Reclaim</i>	221,910	23,007,582	7,325,141	791,347	20,281,584	51,405,653
F1 - Tailings Management Facility	1,206,013	125,039,434	42,868,201	143,200,619	0	311,108,253

Area	Labour Manhour	Labour Cost	Material Cost	Construction Eqpt Cost	Process Eqpt Cost	Total Cost (USD)
<i>F11 Tailings Starter Dams</i>	620,421	64,325,236	10,726,741	78,454,986	0	153,506,963
<i>F12 Tailings Basin, Site Dewatering and Road Construction</i>	361,627	37,493,437	9,617,717	40,906,250	0	88,017,404
<i>F13 Diversion and Seepage Collection Ponds</i>	183,330	19,007,687	20,349,499	19,409,252	0	58,766,439
<i>F14 Seepage Dams</i>	40,635	4,213,074	2,174,244	4,430,130	0	10,817,448
<i>F15 Closure [Sustaining]</i>	0	0	0	0	0	0
F6 - Water Treatment	786,015	81,494,007	141,236,418	86,731,675	0	309,462,100
<i>F61 PAG Dump Operating Water Mgmt Structures</i>	581,556	60,295,680	45,429,096	67,569,167	0	173,293,943
<i>F62 Waste Dump - WSD / Leachate Collection</i>	23,079	2,392,802	1,177,848	2,617,818	0	6,188,468
<i>F63 Mitchell Diversion Tunnel Intake</i>	38,623	4,004,396	4,186,452	4,271,107	0	12,461,955
<i>F64 Mine Site Water Treatment Plant</i>	63,371	6,570,256	77,083,702	5,551,636	0	89,205,594
<i>F65 Temporary Pads For Seasonal Tunnel Muck Storage</i>	39,974	4,144,459	3,554,362	3,080,063	0	10,778,883
<i>F66 Temporary Water Treatment Plants and Settling Ponds</i>	39,414	4,086,415	4,310,805	3,641,884	0	12,039,104
<i>F67 Closure of Temporary WTPs / Settling Ponds [Sustaining]</i>	0	0	0	0	0	0
<i>F68 PAG Dump Closure Water Management Structures [Sustaining]</i>	0	0	0	0	0	0
<i>F69 Waste Rock Recontouring (Cost by Moose Mtn)</i>	0	0	0	0	0	0
<i>F70 Engineering Fees and Quality Management</i>	0	0	5,494,154	0	0	5,494,154
<i>F72 Teigen Water Treatment Plant</i>	0	0	0	0	0	0
F8 - Environmental	0	0	44,225,254	0	0	44,225,254
<i>F81 Ongoing Environmental Compliance Monitoring and Reporting</i>	0	0	16,416,000	0	0	16,416,000
<i>F86 Sludge Management</i>	0	0	15,233,255	0	0	15,233,255
<i>F88 Habitat Compensation Program</i>	0	0	12,576,000	0	0	12,576,000

Area	Labour Manhour	Labour Cost	Material Cost	Construction Eqpt Cost	Process Eqpt Cost	Total Cost (USD)
F9 - Avalanche Control	234,685	24,332,096	20,745,024	767,592	0	45,844,711
<i>F91 Avalanche Control</i>	<i>234,685</i>	<i>24,332,096</i>	<i>20,745,024</i>	<i>767,592</i>	<i>0</i>	<i>45,844,711</i>
G - Site Services and Utilites	173,054	17,942,192	6,379,766	728,301	9,175,661	34,225,920
<i>G10 Fresh/Fire/Potable Water</i>	<i>14,933</i>	<i>1,548,266</i>	<i>1,356,841</i>	<i>54,770</i>	<i>678,106</i>	<i>3,637,982</i>
<i>G20 Process Water</i>	<i>94,863</i>	<i>9,835,364</i>	<i>1,292,125</i>	<i>106,344</i>	<i>1,426,615</i>	<i>12,660,449</i>
<i>G30 Gland Water</i>	<i>949</i>	<i>98,392</i>	<i>5,664</i>	<i>638</i>	<i>132,480</i>	<i>237,175</i>
<i>G40 Plant And Instrument Air Services</i>	<i>5,792</i>	<i>600,463</i>	<i>2,486</i>	<i>4,277</i>	<i>3,131,460</i>	<i>3,738,686</i>
<i>G50 Sewage Treatment</i>	<i>16,575</i>	<i>1,718,496</i>	<i>576,000</i>	<i>240,000</i>	<i>768,000</i>	<i>3,302,496</i>
<i>G60 Run-off Water</i>	<i>813</i>	<i>84,240</i>	<i>24,000</i>	<i>12,000</i>	<i>36,000</i>	<i>156,240</i>
<i>G71 Mitchell Pit - Fuel Station and Storage No. 1</i>	<i>6,531</i>	<i>677,106</i>	<i>549,888</i>	<i>47,354</i>	<i>225,600</i>	<i>1,499,949</i>
<i>G73 Pre Construction - Fuel Station and Storage No.2 & No.3</i>	<i>9,523</i>	<i>987,347</i>	<i>770,496</i>	<i>77,676</i>	<i>315,840</i>	<i>2,151,359</i>
<i>G75 Saddle Staging Area - Fuel Station No. 4</i>	<i>3,822</i>	<i>396,297</i>	<i>305,933</i>	<i>35,678</i>	<i>144,840</i>	<i>882,748</i>
<i>G76 Plant Site (pre-construction) - Fuel Station and Storage No. 5</i>	<i>3,842</i>	<i>398,319</i>	<i>305,933</i>	<i>35,918</i>	<i>157,920</i>	<i>898,090</i>
<i>G78 Kerr Pit - Fuel Station No. 7 [Y13 -Sustaining]</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>G79 Kerr Pit - Fuel Storage No. 7 [Y13 - Sustaining]</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>G80 Sulphurets Pit - Fuel Station and Storage No. 8</i>	<i>4,774</i>	<i>495,013</i>	<i>392,448</i>	<i>38,978</i>	<i>195,600</i>	<i>1,122,039</i>
<i>G91 Fuel Unloading/Pumping Station</i>	<i>10,637</i>	<i>1,102,889</i>	<i>797,952</i>	<i>74,666</i>	<i>1,963,200</i>	<i>3,938,707</i>
J - Ancillary Buidings	245,659	25,469,941	61,315,179	2,487,832	6,823,622	96,096,575
<i>J10 Plant Site - Admin Building</i>	<i>6,252</i>	<i>648,248</i>	<i>2,657,851</i>	<i>81,772</i>	<i>806,654</i>	<i>4,194,525</i>
<i>J11 Plant Site - Assay and Met Lab</i>	<i>6,627</i>	<i>687,072</i>	<i>1,957,867</i>	<i>54,318</i>	<i>1,933,925</i>	<i>4,633,182</i>
<i>J12 Plant Site - Warehouse and Maintenance</i>	<i>39,462</i>	<i>4,091,388</i>	<i>3,776,458</i>	<i>339,157</i>	<i>2,158,080</i>	<i>10,365,083</i>

Area	Labour Manhour	Labour Cost	Material Cost	Construction Eqpt Cost	Process Eqpt Cost	Total Cost (USD)
J13 Plant Site - Ambulance Building	1,957	202,910	457,699	34,224	11,520	706,353
J15 Plant Site - 250 personnel Camp	16,330	1,693,116	8,249,366	297,913	0	10,240,396
J17 Plant Site - Concentrate and Loadout Building	36,690	3,804,063	2,855,357	285,229	0	6,944,649
J18 Plant Site - Cold Storage	6,150	637,663	2,759,746	60,648	0	3,458,057
J19 Plant Site - Waste Management & Incinerator	2,941	304,880	868,997	29,515	0	1,203,392
J20 Mitchell Site - Truckshop and Emergency Services	98,448	10,207,084	25,855,257	783,732	1,899,043	38,745,116
J21 Mitchell Site - 350 personnel Camp	24,527	2,542,983	10,225,464	441,654	0	13,210,101
J22 Mitchell Site - AN PRILL/Explosive Magazine Storage (included with Mining Section)	0	0	0	0	0	0
J23 Mitchell Site - Emergency Services Building	3,334	345,654	782,122	50,155	14,400	1,192,330
J29 Mitchell Site - Waste Management & Incinerator	2,941	304,880	868,997	29,515	0	1,203,392
K - Plant Mobile Equipment	16,617	1,722,809	432,000	1,584,000	6,936,768	10,675,577
K11 Mitchell Minesite - Plant Mobile Equipment Fleet	15,348	1,591,260	432,000	1,584,000	2,760,096	6,367,356
K12 Teigen Plantsite - Plant Mobile Equipment Fleet	1,269	131,549	0	0	4,176,672	4,308,221
M1 - Temporary Services	190,281	19,728,326	168,241,355	2,671,548	97,920	190,739,148
M11 Construction Camps	189,231	19,619,469	54,784,717	2,653,609	0	77,057,795
M12 Catering and Housekeeping	0	0	113,255,997	0	0	113,255,997
M13 Temporary Laydown Areas	340	35,238	29,376	1,046	0	65,660
M14 Construction Administration Office	710	73,619	171,264	16,892	97,920	359,695
M2 - Treaty Road Marshalling Yard	23,609	2,447,772	7,399,243	321,339	622,080	10,790,434
M20 Camp 12 - Marshalling Yard Construction Camp	6,276	650,670	2,233,416	114,918	0	2,999,004
M21 Vehicle Storage Maintenance Shop	4,200	435,447	1,471,186	49,757	228,480	2,184,869

Project No: 1252880100-EST-R0001-00
Kerr-Sulphurets-Mitchell Project
Report Date: 28-Jun-12
Client: Seabridge Gold Inc.
'refeasibility Study Update 2012 (HPGR Option) - Area Summar
Rev E5

Area	Labour Manhour	Labour Cost	Material Cost	Construction Eqpt Cost	Process Eqpt Cost	Total Cost (USD)
M22 Fuel Station	3,732	386,897	291,187	40,324	105,600	824,008
M23 Wash Car/Emergency Shower	1,238	128,355	294,000	22,134	96,000	540,489
M25 Foldaway Warehouses	7,419	769,212	2,932,325	81,404	144,000	3,926,941
M26 Project Office Security	745	77,191	177,130	12,802	48,000	315,123
N1 - Permanent Electrical Power Supply and BC Hy	226,104	24,147,219	138,376,775	2,172,482	52,622,937	217,319,414
N11 Capital Cost Contribution to BC Hydro (Treaty Creek Switching Station)	0	0	10,176,000	0	0	10,176,000
N12 Substation 1 - Flotation Plant	42,410	4,550,669	7,754,776	351,360	19,919,930	32,576,734
N13 High Voltage Cable Substation 1 To Substation 2	32,322	3,434,155	4,103,848	257,234	9,021,888	16,817,125
N14 GIS Substation 2 - Mitchell (138kV)	42,860	4,700,813	7,102,515	405,120	11,107,520	23,315,968
N15 BC Hydro, Basic Line Extension & Metering	0	0	5,760,000	0	0	5,760,000
N16 Contribution to NTL	0	0	81,599,998	0	0	81,599,998
N17 287 kV Transmission Line Treaty Creek To Mine Sub # 1	97,524	10,250,782	14,490,960	1,036,056	0	25,777,798
N18 Combustion Turbine, Terrace	10,988	1,210,801	7,388,678	122,712	12,573,600	21,295,791
N2 - Mini Hydro Plants	15,400	1,596,672	2,675,904	0	12,263,328	16,535,904
N21 Mitchell Diversion Mini Hydro Plant	15,400	1,596,672	2,675,904	0	12,263,328	16,535,904
N22 McTagg Diverson Mini Hydro Plant	0	0	0	0	0	0
N3 - Energy Recovery Plants	14,809	1,567,701	2,135,758	184,155	3,688,724	7,576,338
N32 Slurry Pipeline Energy Recovery Plant	8,824	914,921	778,606	118,011	1,622,564	3,434,101
N33 Water Treatment Energy Recovery Plant	5,985	652,781	1,357,152	66,144	2,066,160	4,142,237
P1 - Permanent Access Roads	268,980	27,887,865	50,154,815	15,390,278	0	93,432,958
P13 Coulter Creek Access Road (CCAR) - 34km	151,943	15,753,494	27,770,063	8,506,521	0	52,030,079

Project No: 1252880100-EST-R0001-00
Kerr-Sulphurets-Mitchell Project
Report Date: 28-Jun-12
Client: Seabridge Gold Inc.
'refeasibility Study Update 2012 (HPGR Option) - Area Summar
Rev E5

Area	Labour Manhour	Labour Cost	Material Cost	Construction Eqpt Cost	Process Eqpt Cost	Total Cost (USD)
<i>P14 Hwy 37 Intersection Upgrade</i>	3,500	362,880	712,800	220,320	0	1,296,000
<i>P15 Treaty Main Access Road (32km)</i>	61,243	6,349,661	11,277,168	3,456,691	0	21,083,520
<i>P16b North Treaty Lower Access Road (11.7km)</i>	25,609	2,655,139	5,165,232	1,595,309	0	9,415,680
<i>P16c North Treaty Upper Access Road (3.1km) (Sustaining)</i>	0	0	0	0	0	0
<i>P17 Eskay Creek Existing Access Road Improvement</i>	3,241	336,000	480,000	144,000	0	960,000
<i>P18 Construction Access Adit Road (12km)</i>	23,444	2,430,691	4,749,552	1,467,437	0	8,647,680
P2 - Temporary Winter Access Roads	74,087	7,681,385	1,874,294	8,652,692	0	18,208,372
<i>P21 Temporary Winter Access Roads</i>	74,087	7,681,385	1,874,294	8,652,692	0	18,208,372
Q - Off-site Infrastructure and facilities	198,641	20,595,120	36,045,599	16,775,280	480,000	73,895,998
<i>Q10 Off-site Concentrate Storage at Stewart, BC</i>	198,641	20,595,120	36,045,599	16,775,280	480,000	73,895,998
X - Project Indirects	3,116,426	365,845,985	645,590,715	18,979,828	26,133,350	1,056,549,878
<i>X10 Construction Indirects</i>	1,241,111	122,875,799	308,810,067	16,398,148	0	448,084,013
<i>X11 Tunnels, Camps and Construction Site Power Supply</i>	19,975	2,636,496	4,466,000	2,509,680	26,133,350	35,745,526
<i>X13 All Construction Power Operating Cost, Tunnel, Plantsite and Camps</i>	0	0	56,838,999	0	0	56,838,999
<i>X20 Spares</i>	0	0	33,711,359	0	0	33,711,359
<i>X30 Initial Fills</i>	0	0	29,759,999	0	0	29,759,999
<i>X40 Freight And Logistic</i>	0	0	70,522,862	0	0	70,522,862
<i>X50 Commissioning and Pre-operational Startup</i>	51,840	6,690,816	576,000	0	0	7,266,816
<i>X60 EPCM</i>	1,803,500	233,642,875	140,905,429	72,000	0	374,620,304
Y - Owner's Costs	0	0	106,315,198	0	0	106,315,198
<i>Y10 Owner's Costs</i>	0	0	106,315,198	0	0	106,315,198

Project No: 1252880100-EST-R0001-00

Kerr-Sulphurets-Mitchell Project

Report Date: 28-Jun-12

Client: Seabridge Gold Inc.

Prefeasibility Study Update 2012 (HPGR Option) - Area Summar

Rev E5

Area	Labour Manhour	Labour Cost	Material Cost	Construction Eqpt Cost	Process Eqpt Cost	Total Cost (USD)
Z - Contingencies	0	0	645,742,684	0	0	645,742,684
<i>Z10 Contingency</i>	<i>0</i>	<i>0</i>	<i>645,742,684</i>	<i>0</i>	<i>0</i>	<i>645,742,684</i>
Prefeasibility Study Update 2012 (HPGR Option) Total	13,183,348	1,398,789,675	2,627,288,337	403,532,334	826,526,985	5,256,137,330

Project No: 1252880100-EST-R0001-00

Kerr-Sulphurets-Mitchell Project

Report Date: #Error

Client: Seabridge Gold Inc.

Prefeasibility Study Update 2012 (HPGR Option) - Section Summary

Rev E5

Area Code	Section Number	Description	Labour Manhour	Labour Cost	Material Cost	Construction Eqpt Cost	Process Eqpt Cost	Total Cost (USD)
1 - Direct Costs								
1.01		Tailings Management Facility	1,206,013	125,039,434	42,868,201	143,200,619	0	311,108,253
1.02		Water Treatment	790,286	81,936,856	141,823,116	86,770,681	0	310,530,653
1.05		Mitchell-Tiegen Tunnel	886,450	79,010,967	103,646,289	34,022,684	0	216,679,940
1.06		Mitchell Diversion Tunnel	235,346	24,400,687	36,953,420	6,710,343	0	68,064,450
1.07		McTagg Diversion Tunnel	160,474	16,637,948	23,587,538	4,229,811	0	44,455,297
1.09		East Catchment Tunnels	39,785	4,124,946	5,237,169	923,579	0	10,285,694
1.1		Water Storage Direct Tunnel (WSDT)	17,126	1,775,621	18,919,522	448,591	0	21,143,734
1.11		Environmental	0	0	27,809,254	0	0	27,809,254
1.12		Rope Conveyance [Sustaining]	0	0	0	0	0	0
1.13		Incoming Electrical Power Supply	226,104	24,147,219	138,376,775	2,172,482	52,622,937	217,319,414
1.14		Mini Hydro Plants	15,400	1,596,672	2,675,904	0	12,263,328	16,535,904
1.15		Tailing Slurry Energy Plants	88,897	9,249,087	4,010,052	8,836,847	3,688,724	25,784,709
1.16		Permanent Access Roads	268,980	27,887,865	50,154,815	15,390,278	0	93,432,958
1.18		Off-site Concentrate Storage at Stewart BC	198,641	20,595,120	36,045,599	16,775,280	480,000	73,895,998
1.19		Avalanche Control	120,370	12,480,000	11,404,800	0	0	23,884,799
1.21		Tunnel Conveyor Power Supply	148,091	16,718,513	12,147,721	691,910	18,100,215	47,658,359
1.31		Mitchell Block Caving [Sustaining]	0	0	0	0	0	0
1.32		Iron Cap Block Caving [Sustaining]	0	0	0	0	0	0
8		Open-Pit Mining	356,567	36,968,883	26,034,074	22,347,262	13,603,200	98,953,419
9		Open-Pit Mining Mobile Equipment	0	0	2,628,179	0	136,037,948	138,666,128
10		Earthworks	106,046	10,994,882	4,584,945	7,070,695	0	22,650,523
13		Civil	238,869	24,765,966	9,180,933	5,360,587	0	39,307,486
20		Concrete	1,356,653	140,657,749	109,650,996	3,526,502	0	253,835,247
30		Structural Steel	746,231	77,369,249	120,231,933	6,262,080	0	203,863,262
40		Architectural	383,456	39,756,744	229,805,011	6,109,601	2,548,800	278,220,156
50		Mechanical	1,440,040	149,303,320	5,648,785	6,961,308	489,416,281	651,329,694
55		Platework	72,567	7,523,721	434,192	85,062	6,090,733	14,133,709
58		Building Services	30,118	3,122,610	2,309,687	365,296	7,065,175	12,862,768
59		Plant Mobile Equipment	16,617	1,722,809	432,000	1,584,000	6,936,768	10,675,577
60		Piping	369,301	38,289,099	21,941,858	1,216,691	1,488,000	62,935,648
70		Electrical	463,212	48,025,774	36,601,559	3,161,556	37,830,728	125,619,617
80		Instrumentation and Controls	85,281	8,841,947	2,704,051	328,762	12,220,800	24,095,560

Project No: 1252880100-EST-R0001-00

Kerr-Sulphurets-Mitchell Project

Report Date: #Error

Client: Seabridge Gold Inc.

Prefeasibility Study Update 2012 (HPGR Option) - Section Summary

Rev E5

Area	Section	Description	Labour Manhour	Labour Cost	Material Cost	Construction Eqpt Cost	Process Eqpt Cost	Total Cost (USD)
1 - Direct Costs Subtotal			10,066,921	1,032,943,689	1,227,848,381	384,552,506	800,393,635	3,445,738,212
2 - Indirect Costs								
91	Construction	Indirects	1,261,086	125,512,295	370,115,065	18,907,828	26,133,350	540,668,537
92	Spares		0	0	33,711,359	0	0	33,711,359
93	Initial	Fills	0	0	29,759,999	0	0	29,759,999
94	Freight and	Logistics	0	0	72,314,222	0	0	72,314,222
95	Commissioning and	Start-up	51,840	6,690,816	576,000	0	0	7,266,816
96	EPCM		1,803,500	233,642,875	140,905,429	72,000	0	374,620,304
98	Owners	Costs	0	0	106,315,198	0	0	106,315,198
2 - Indirect Costs Subtotal			3,116,426	365,845,985	753,697,272	18,979,828	26,133,350	1,164,656,435
3 - Contingencies								
99	Contingency		0	0	645,742,684	0	0	645,742,684
3 - Contingencies Subtotal			0	0	645,742,684	0	0	645,742,684
Prefeasibility Study Update 2012 (HPGR Option) Total			13,183,348	1,398,789,675	2,627,288,337	403,532,334	826,526,985	5,256,137,330



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
<u>A10 - Plantsite and Roads</u>															
A10-10-25.00	Camp 01; Clear and grub	1.11 ha	72.00	1.30	103.97	103.68	10,780	0.00	0	4,377.60	4,863	0.00	0	14,082.05	15,642
A10-10-26.00	Camp 01; Excavate and remove top soil 300mm	2,522. m3	0.03	1.30	98.36	103.68	10,198	0.00	0	4.08	10,290	0.00	0	8.12	20,488
A10-10-27.00	Camp 01; Rock excavation - rippable rock	523. m3	0.03	1.30	20.40	103.68	2,115	0.00	0	5.28	2,761	0.00	0	9.32	4,876
A10-10-28.00	Camp 01; Rock excavation - drill and blast	4,707. m3	0.08	1.30	489.53	103.68	50,754	2.88	13,556	4.32	20,334	0.00	0	17.98	84,645
A10-10-29.00	Camp 01; Excavate and remove unsuitable material	2,615. m3	0.03	1.30	101.99	103.68	10,574	0.00	0	4.08	10,669	0.00	0	8.12	21,243
A10-10-30.00	Camp 01; Excavate to fill, suitable material	93. m3	0.02	1.30	1.81	103.68	188	0.00	0	4.32	402	0.00	0	6.34	590
A10-10-31.00	Camp 01; Compacted Fill from temporary stockpile (not exceeding 2km haul)	2,883. m3	0.02	1.30	74.96	103.68	7,772	0.00	0	4.56	13,146	0.00	0	7.26	20,918
A10-10-32.00	Camp 02; Clear and grub	.99 ha	72.00	1.30	92.79	103.68	9,620	0.00	0	4,377.60	4,340	0.00	0	14,082.05	13,960
A10-10-33.00	Camp 02; Excavate and remove top soil 300mm	2,721. m3	0.03	1.30	106.12	103.68	11,002	0.00	0	4.08	11,102	0.00	0	8.12	22,104
A10-10-34.00	Camp 02; Compacted Fill from temporary stockpile (not exceeding 2km haul)	10,338. m3	0.02	1.30	268.79	103.68	27,868	0.00	0	4.56	47,141	0.00	0	7.26	75,009
A10-10-35.00	Camp 03; Clear and grub	.97 ha	72.00	1.30	90.74	103.68	9,408	0.00	0	4,377.60	4,244	0.00	0	14,082.05	13,652
A10-10-36.00	Camp 03; Excavate and remove top soil 300mm	2,660. m3	0.03	1.30	103.74	103.68	10,756	0.00	0	4.08	10,853	0.00	0	8.12	21,609
A10-10-37.00	Camp 03; Rock excavation - rippable rock	449. m3	0.03	1.30	17.51	103.68	1,816	0.00	0	5.28	2,371	0.00	0	9.32	4,186
A10-10-38.00	Camp 03; Rock excavation - drill and blast	4,044. m3	0.08	1.30	420.58	103.68	43,605	2.88	11,647	4.32	17,470	0.00	0	17.98	72,722
A10-10-39.00	Camp 03; Excavate and remove unsuitable material	2,247. m3	0.03	1.30	87.63	103.68	9,086	0.00	0	4.08	9,168	0.00	0	8.12	18,254
A10-10-40.00	Camp 03; Compacted Fill from temporary stockpile (not exceeding 2km haul)	1,926. m3	0.02	1.30	50.08	103.68	5,192	0.00	0	4.56	8,783	0.00	0	7.26	13,974



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A10-10-41.00	Camp 04; Clear and grub	1.48 ha	72.00	1.30	138.27	103.68	14,335	0.00	0	4,377.60	6,467	0.00	0	14,082.05	20,802
A10-10-42.00	Camp 04; Excavate and remove top soil 300mm	3,140. m3	0.03	1.30	122.46	103.68	12,697	0.00	0	4.08	12,811	0.00	0	8.12	25,508
A10-10-43.00	Camp 04; Rock excavation - rippable rock	1,359. m3	0.03	1.30	53.00	103.68	5,495	0.00	0	5.28	7,176	0.00	0	9.32	12,671
A10-10-44.00	Camp 04; Rock excavation - drill and blast	12,227. m3	0.08	1.30	1,271.61	103.68	131,840	2.88	35,214	4.32	52,821	0.00	0	17.98	219,875
A10-10-45.00	Camp 04; Excavate and remove unsuitable material	6,793. m3	0.03	1.30	264.93	103.68	27,468	0.00	0	4.08	27,715	0.00	0	8.12	55,183
A10-10-46.00	Camp 04; Excavate to fill, suitable material	3,652. m3	0.02	1.30	71.21	103.68	7,383	0.00	0	4.32	15,777	0.00	0	6.34	23,160
A10-10-47.00	Camp 04; Excavate to temporary stockpile (not exceeding 2km haul)	8,789. m3	0.02	1.30	228.51	103.68	23,692	0.00	0	4.08	35,859	0.00	0	6.78	59,551
A10-10-48.00	Camp 05; Clear and grub	.92 ha	72.00	1.30	86.56	103.68	8,975	0.00	0	4,377.60	4,048	0.00	0	14,082.05	13,023
A10-10-49.00	Camp 05; Excavate and remove top soil 300mm	2,329. m3	0.03	1.30	90.83	103.68	9,417	0.00	0	4.08	9,502	0.00	0	8.12	18,920
A10-10-50.00	Camp 05; Compacted Fill from temporary stockpile (not exceeding 2km haul)	9,642. m3	0.02	1.30	250.69	103.68	25,992	0.00	0	4.56	43,968	0.00	0	7.26	69,959
A10-10-51.00	Camp 06; Clear and grub	4.53 ha	72.00	1.30	424.00	103.68	43,960	0.00	0	4,377.60	19,830	0.00	0	14,082.05	63,790
A10-10-52.00	Camp 06; Excavate and remove top soil 300mm	12,783. m3	0.03	1.30	498.54	103.68	51,688	0.00	0	4.08	52,155	0.00	0	8.12	103,843
A10-10-53.00	Camp 06; Rock excavation - rippable rock	1,044. m3	0.03	1.30	40.72	103.68	4,221	0.00	0	5.28	5,512	0.00	0	9.32	9,734
A10-10-54.00	Camp 06; Rock excavation - drill and blast	9,396. m3	0.08	1.30	977.18	103.68	101,314	2.88	27,060	4.32	40,591	0.00	0	17.98	168,966
A10-10-55.00	Camp 06; Excavate and remove unsuitable material	5,220. m3	0.03	1.30	203.58	103.68	21,107	0.00	0	4.08	21,298	0.00	0	8.12	42,405
A10-10-56.00	Camp 06; Compacted Fill from temporary stockpile (not exceeding 2km haul)	4,230. m3	0.02	1.30	109.98	103.68	11,403	0.00	0	4.56	19,289	0.00	0	7.26	30,692



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A10-10-57.00	Camp 07; Clear and grub	1.16 ha	72.00	1.30	108.76	103.68	11,276	0.00	0	4,377.60	5,087	0.00	0	14,082.05	16,363
A10-10-58.00	Camp 07; Excavate and remove top soil 300mm	2,982. m3	0.03	1.30	116.30	103.68	12,058	0.00	0	4.08	12,167	0.00	0	8.12	24,224
A10-10-59.00	Camp 07; Rock excavation - rippable rock	484. m3	0.03	1.30	18.88	103.68	1,957	0.00	0	5.28	2,556	0.00	0	9.32	4,513
A10-10-60.00	Camp 07; Rock excavation - drill and blast	4,360. m3	0.08	1.30	453.44	103.68	47,013	2.88	12,557	4.32	18,835	0.00	0	17.98	78,405
A10-10-61.00	Camp 07; Excavate and remove unsuitable material	2,422. m3	0.03	1.30	94.46	103.68	9,793	0.00	0	4.08	9,882	0.00	0	8.12	19,675
A10-10-62.00	Camp 07; Compacted Fill from temporary stockpile (not exceeding 2km haul)	3,362. m3	0.02	1.30	87.41	103.68	9,063	0.00	0	4.56	15,331	0.00	0	7.26	24,394
A10-10-63.00	Camp 08; Clear and grub	.8 ha	72.00	1.30	74.56	103.68	7,731	0.00	0	4,377.60	3,487	0.00	0	14,082.05	11,218
A10-10-64.00	Camp 08; Excavate and remove top soil 300mm	2,141. m3	0.03	1.30	83.50	103.68	8,657	0.00	0	4.08	8,735	0.00	0	8.12	17,392
A10-10-65.00	Camp 08; Compacted Fill from temporary stockpile (not exceeding 2km haul)	7,556. m3	0.02	1.30	196.46	103.68	20,369	0.00	0	4.56	34,455	0.00	0	7.26	54,824
A10-10-66.00	Camp 09a; Clear and grub	2.59 ha	72.00	1.30	241.97	103.68	25,088	0.00	0	4,377.60	11,317	0.00	0	14,082.05	36,405
A10-10-67.00	Camp 09a; Excavate and remove top soil 300mm	2,858. m3	0.03	1.30	111.46	103.68	11,556	0.00	0	4.08	11,661	0.00	0	8.12	23,217
A10-10-68.00	Camp 09a; Rock excavation - rippable rock	2,835. m3	0.03	1.30	110.57	103.68	11,463	0.00	0	5.28	14,969	0.00	0	9.32	26,432
A10-10-69.00	Camp 09a; Rock excavation - drill and blast	25,518. m3	0.08	1.30	2,653.87	103.68	275,153	2.88	73,492	4.32	110,238	0.00	0	17.98	458,883
A10-10-70.00	Camp 09a; Excavate and remove unsuitable material	14,177. m3	0.03	1.30	552.90	103.68	57,325	0.00	0	4.08	57,842	0.00	0	8.12	115,167
A10-10-71.00	Camp 09a; Excavate to fill, suitable material	11,320. m3	0.02	1.30	220.74	103.68	22,886	0.00	0	4.32	48,902	0.00	0	6.34	71,789
A10-10-72.00	Camp 09a; Excavate to temporary stockpile (not exceeding 2km haul)	28,070. m3	0.02	1.30	729.82	103.68	75,668	0.00	0	4.08	114,526	0.00	0	6.78	190,193



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A10-10-73.00	Camp 09b; Clear and grub	5.86 ha	72.00	1.30	548.34	103.68	56,852	0.00	0	4,377.60	25,645	0.00	0	14,082.05	82,497
A10-10-74.00	Camp 09b; Excavate and remove top soil 300mm	14,228. m3	0.03	1.30	554.89	103.68	57,531	0.00	0	4.08	58,050	0.00	0	8.12	115,581
A10-10-75.00	Camp 09b; Rock excavation - rippable rock	5,681. m3	0.03	1.30	221.56	103.68	22,971	0.00	0	5.28	29,996	0.00	0	9.32	52,967
A10-10-76.00	Camp 09b; Rock excavation - drill and blast	51,128. m3	0.08	1.30	5,317.31	103.68	551,299	2.88	147,249	4.32	220,873	0.00	0	17.98	919,420
A10-10-77.00	Camp 09b; Excavate and remove unsuitable material	28,405. m3	0.03	1.30	1,107.80	103.68	114,856	0.00	0	4.08	115,892	0.00	0	8.12	230,749
A10-10-78.00	Camp 09b; Excavate to fill, suitable material	14,177. m3	0.02	1.30	276.45	103.68	28,662	0.00	0	4.32	61,245	0.00	0	6.34	89,907
A10-10-79.00	Camp 09b; Compacted Fill from temporary stockpile (not exceeding 2km haul)	9,571. m3	0.02	1.30	248.85	103.68	25,800	0.00	0	4.56	43,644	0.00	0	7.26	69,444
A10-10-80.00	Camp 11; Clear and grub	1.16 ha	72.00	1.30	108.57	103.68	11,256	0.00	0	4,377.60	5,078	0.00	0	14,082.05	16,334
A10-10-81.00	Camp 11; Excavate and remove top soil 300mm	2,073. m3	0.03	1.30	80.85	103.68	8,382	0.00	0	4.08	8,458	0.00	0	8.12	16,840
A10-10-82.00	Camp 11; Rock excavation - rippable rock	590. m3	0.03	1.30	23.01	103.68	2,386	0.00	0	5.28	3,115	0.00	0	9.32	5,501
A10-10-83.00	Camp 11; Rock excavation - drill and blast	5,312. m3	0.08	1.30	552.45	103.68	57,278	2.88	15,299	4.32	22,948	0.00	0	17.98	95,524
A10-10-84.00	Camp 11; Excavate and remove unsuitable material	2,951. m3	0.03	1.30	115.09	103.68	11,932	0.00	0	4.08	12,040	0.00	0	8.12	23,973
A10-10-85.00	Camp 11; Excavate to fill, suitable material	879. m3	0.02	1.30	17.14	103.68	1,777	0.00	0	4.32	3,797	0.00	0	6.34	5,574
A10-10-86.00	Camp 11; Compacted Fill from temporary stockpile (not exceeding 2km haul)	786. m3	0.02	1.30	20.44	103.68	2,119	0.00	0	4.56	3,584	0.00	0	7.26	5,703
A10-10-87.00	Camp 01 Helipad; Clear and grub	.24 ha	72.00	1.30	22.53	103.68	2,336	0.00	0	4,377.60	1,054	0.00	0	14,082.05	3,390
A10-10-88.00	Camp 01 Helipad; Excavate and remove top soil 300mm	624. m3	0.03	1.30	24.34	103.68	2,523	0.00	0	4.08	2,546	0.00	0	8.12	5,069



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A10-10-89.00	Camp 01 Helipad; Compacted Fill from temporary stockpile (not exceeding 2km haul)	2,219. m3	0.02	1.30	57.69	103.68	5,982	0.00	0	4.56	10,119	0.00	0	7.26	16,100
A10-10-90.00	Camp 02 Helipad; Clear and grub	.24 ha	72.00	1.30	22.53	103.68	2,336	0.00	0	4,377.60	1,054	0.00	0	14,082.05	3,390
A10-10-91.00	Camp 02 Helipad; Excavate and remove top soil 300mm	624. m3	0.03	1.30	24.34	103.68	2,523	0.00	0	4.08	2,546	0.00	0	8.12	5,069
A10-10-92.00	Camp 02 Helipad; Compacted Fill from temporary stockpile (not exceeding 2km haul)	381. m3	0.02	1.30	9.91	103.68	1,027	0.00	0	4.56	1,737	0.00	0	7.26	2,764
A10-10-93.00	Camp 03 Helipad; Clear and grub	.3 ha	72.00	1.30	28.06	103.68	2,909	0.00	0	4,377.60	1,312	0.00	0	14,082.05	4,222
A10-10-94.00	Camp 03 Helipad; Excavate and remove top soil 300mm	624. m3	0.03	1.30	24.34	103.68	2,523	0.00	0	4.08	2,546	0.00	0	8.12	5,069
A10-10-95.00	Camp 03 Helipad; Rock excavation - rippable rock	106. m3	0.03	1.30	4.13	103.68	429	0.00	0	5.28	560	0.00	0	9.32	988
A10-10-96.00	Camp 03 Helipad; Rock excavation - drill and blast	956. m3	0.08	1.30	99.42	103.68	10,308	2.88	2,753	4.32	4,130	0.00	0	17.98	17,191
A10-10-97.00	Camp 03 Helipad; Excavate and remove unsuitable material	531. m3	0.03	1.30	20.71	103.68	2,147	0.00	0	4.08	2,166	0.00	0	8.12	4,314
A10-10-98.00	Camp 03 Helipad; Compacted Fill from temporary stockpile (not exceeding 2km haul)	893. m3	0.02	1.30	23.22	103.68	2,407	0.00	0	4.56	4,072	0.00	0	7.26	6,479
A10-10-99.00	Camp 04 Helipad; Clear and grub	.3 ha	72.00	1.30	28.06	103.68	2,909	0.00	0	4,377.60	1,312	0.00	0	14,082.05	4,222
A10-10-100.00	Camp 04 Helipad; Excavate and remove top soil 300mm	624. m3	0.03	1.30	24.34	103.68	2,523	0.00	0	4.08	2,546	0.00	0	8.12	5,069
A10-10-101.00	Camp 04 Helipad; Rock excavation - rippable rock	97. m3	0.03	1.30	3.78	103.68	392	0.00	0	5.28	512	0.00	0	9.32	904
A10-10-102.00	Camp 04 Helipad; Rock excavation - drill and blast	874. m3	0.08	1.30	90.90	103.68	9,424	2.88	2,517	4.32	3,776	0.00	0	17.98	15,717
A10-10-103.00	Camp 04 Helipad; Excavate and remove unsuitable material	486. m3	0.03	1.30	18.95	103.68	1,965	0.00	0	4.08	1,983	0.00	0	8.12	3,948
A10-10-104.00	Camp 04 Helipad; Compacted Fill from temporary stockpile (not exceeding 2km haul)	420. m3	0.02	1.30	10.92	103.68	1,132	0.00	0	4.56	1,915	0.00	0	7.26	3,047



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A10-10-105.00	Camp 05 Helipad; Clear and grub	.24 ha	72.00	1.30	22.53	103.68	2,336	0.00	0	4,377.60	1,054	0.00	0	14,082.05	3,390
A10-10-106.00	Camp 05 Helipad; Excavate and remove top soil 300mm	624. m3	0.03	1.30	24.34	103.68	2,523	0.00	0	4.08	2,546	0.00	0	8.12	5,069
A10-10-107.00	Camp 05 Helipad; Compacted Fill from temporary stockpile (not exceeding 2km haul)	2,219. m3	0.02	1.30	57.69	103.68	5,982	0.00	0	4.56	10,119	0.00	0	7.26	16,100
A10-10-108.00	Camp 06 Helipad; Clear and grub	.24 ha	72.00	1.30	22.21	103.68	2,303	0.00	0	4,377.60	1,039	0.00	0	14,082.05	3,342
A10-10-109.00	Camp 06 Helipad; Excavate and remove top soil 300mm	624. m3	0.03	1.30	24.34	103.68	2,523	0.00	0	4.08	2,546	0.00	0	8.12	5,069
A10-10-110.00	Camp 06 Helipad; Rock excavation - rippable rock	39. m3	0.03	1.30	1.52	103.68	158	0.00	0	5.28	206	0.00	0	9.32	364
A10-10-111.00	Camp 06 Helipad; Rock excavation - drill and blast	351. m3	0.08	1.30	36.50	103.68	3,785	2.88	1,011	4.32	1,516	0.00	0	17.98	6,312
A10-10-112.00	Camp 06 Helipad; Excavate and remove unsuitable material	195. m3	0.03	1.30	7.61	103.68	788	0.00	0	4.08	796	0.00	0	8.12	1,584
A10-10-113.00	Camp 06 Helipad; Compacted Fill from temporary stockpile (not exceeding 2km haul)	312. m3	0.02	1.30	8.11	103.68	841	0.00	0	4.56	1,423	0.00	0	7.26	2,264
A10-10-114.00	Camp 07 Helipad; Clear and grub	.26 ha	72.00	1.30	24.75	103.68	2,566	0.00	0	4,377.60	1,157	0.00	0	14,082.05	3,723
A10-10-115.00	Camp 07 Helipad; Excavate and remove top soil 300mm	624. m3	0.03	1.30	24.34	103.68	2,523	0.00	0	4.08	2,546	0.00	0	8.12	5,069
A10-10-116.00	Camp 07 Helipad; Rock excavation - rippable rock	85. m3	0.03	1.30	3.32	103.68	344	0.00	0	5.28	449	0.00	0	9.32	792
A10-10-117.00	Camp 07 Helipad; Rock excavation - drill and blast	768. m3	0.08	1.30	79.87	103.68	8,281	2.88	2,212	4.32	3,318	0.00	0	17.98	13,811
A10-10-118.00	Camp 07 Helipad; Excavate and remove unsuitable material	427. m3	0.03	1.30	16.65	103.68	1,727	0.00	0	4.08	1,742	0.00	0	8.12	3,469
A10-10-119.00	Camp 07 Helipad; Compacted Fill from temporary stockpile (not exceeding 2km haul)	283. m3	0.02	1.30	7.36	103.68	763	0.00	0	4.56	1,290	0.00	0	7.26	2,053
A10-10-120.00	Camp 08 Helipad; Clear and grub	.24 ha	72.00	1.30	22.53	103.68	2,336	0.00	0	4,377.60	1,054	0.00	0	14,082.05	3,390



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A10-10-121.00	Camp 08 Helipad; Excavate and remove top soil 300mm	624. m3	0.03	1.30	24.34	103.68	2,523	0.00	0	4.08	2,546	0.00	0	8.12	5,069
A10-10-122.00	Camp 08 Helipad; Compacted Fill from temporary stockpile (not exceeding 2km haul)	2,219. m3	0.02	1.30	57.69	103.68	5,982	0.00	0	4.56	10,119	0.00	0	7.26	16,100
A10-10-123.00	Camp 09a Helipad; Clear and grub	.27 ha	72.00	1.30	25.49	103.68	2,643	0.00	0	4,377.60	1,192	0.00	0	14,082.05	3,835
A10-10-124.00	Camp 09a Helipad; Excavate and remove top soil 300mm	624. m3	0.03	1.30	24.34	103.68	2,523	0.00	0	4.08	2,546	0.00	0	8.12	5,069
A10-10-125.00	Camp 09a Helipad; Rock excavation - rippable rock	336. m3	0.03	1.30	13.10	103.68	1,359	0.00	0	5.28	1,774	0.00	0	9.32	3,133
A10-10-126.00	Camp 09a Helipad; Rock excavation - drill and blast	3,024. m3	0.08	1.30	314.50	103.68	32,607	2.88	8,709	4.32	13,064	0.00	0	17.98	54,380
A10-10-127.00	Camp 09a Helipad; Excavate and remove unsuitable material	1,680. m3	0.03	1.30	65.52	103.68	6,793	0.00	0	4.08	6,854	0.00	0	8.12	13,648
A10-10-128.00	Camp 09a Helipad; Excavate to temporary stockpile (not exceeding 2km haul)	3,182. m3	0.02	1.30	82.73	103.68	8,578	0.00	0	4.08	12,983	0.00	0	6.78	21,560
A10-10-129.00	Camp 09b Helipad; Clear and grub	.28 ha	72.00	1.30	26.12	103.68	2,709	0.00	0	4,377.60	1,222	0.00	0	14,082.05	3,930
A10-10-130.00	Camp 09b Helipad; Excavate and remove top soil 300mm	624. m3	0.03	1.30	24.34	103.68	2,523	0.00	0	4.08	2,546	0.00	0	8.12	5,069
A10-10-131.00	Camp 09b Helipad; Compacted Fill from temporary stockpile (not exceeding 2km haul)	3,348. m3	0.02	1.30	87.05	103.68	9,025	0.00	0	4.56	15,267	0.00	0	7.26	24,292
A10-10-132.00	Camp 11 Helipad; Clear and grub	.34 ha	72.00	1.30	31.90	103.68	3,307	0.00	0	4,377.60	1,492	0.00	0	14,082.05	4,799
A10-10-133.00	Camp 11 Helipad; Excavate and remove top soil 300mm	624. m3	0.03	1.30	24.34	103.68	2,523	0.00	0	4.08	2,546	0.00	0	8.12	5,069
A10-10-134.00	Camp 11 Helipad; Rock excavation - rippable rock	138. m3	0.03	1.30	5.38	103.68	558	0.00	0	5.28	729	0.00	0	9.32	1,287
A10-10-135.00	Camp 11 Helipad; Rock excavation - drill and blast	1,244. m3	0.08	1.30	129.38	103.68	13,414	2.88	3,583	4.32	5,374	0.00	0	17.98	22,371
A10-10-136.00	Camp 11 Helipad; Excavate and remove unsuitable material	691. m3	0.03	1.30	26.95	103.68	2,794	0.00	0	4.08	2,819	0.00	0	8.12	5,613



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A10-10-137.00	Camp 11 Helipad; Compacted Fill from temporary stockpile (not exceeding 2km haul)	228. m3	0.02	1.30	5.93	103.68	615	0.00	0	4.56	1,040	0.00	0	7.26	1,654
A10-10-138.00	Teigen Plantsite; Camp 6; Clear and grub	5.14 ha	72.00	1.30	481.10	103.68	49,881	0.00	0	4,377.60	22,501	0.00	0	14,082.05	72,382
A10-10-139.00	Teigen Plantsite; Camp 6; Excavate and remove top soil 300mm	12,204. m3	0.03	1.30	475.96	103.68	49,347	0.00	0	4.08	49,792	0.00	0	8.12	99,139
A10-10-140.00	Teigen Plantsite; Camp 6; Rock excavation - rippable rock	4,339. m3	0.03	1.30	169.22	103.68	17,545	0.00	0	5.28	22,910	0.00	0	9.32	40,455
A10-10-141.00	Teigen Plantsite; Camp 6; Rock excavation - drill and blast	39,051. m3	0.08	1.30	4,061.30	103.68	421,076	2.88	112,467	4.32	168,700	0.00	0	17.98	702,243
A10-10-142.00	Teigen Plantsite; Camp 6; Excavate and remove unsuitable material	21,695. m3	0.03	1.30	846.11	103.68	87,724	0.00	0	4.08	88,516	0.00	0	8.12	176,240
A10-10-143.00	Teigen Plantsite; Camp 6; Excavate to fill, suitable material	9,491. m3	0.02	1.30	185.07	103.68	19,189	0.00	0	4.32	41,001	0.00	0	6.34	60,190
A10-10-144.00	Teigen Plantsite; Camp 6; Compacted Fill from temporary stockpile (not exceeding 2km haul)	26,195. m3	0.02	1.30	681.07	103.68	70,613	0.00	0	4.56	119,449	0.00	0	7.26	190,063
A10-10-145.00	Teigen Plantsite; 170 Person Permenent Camp; Clear and grub	.98 ha	72.00	1.30	91.76	103.68	9,513	0.00	0	4,377.60	4,291	0.00	0	14,082.05	13,805
A10-10-146.00	Teigen Plantsite; 170 Person Permenent Camp; Excavate and remove top soil 300mm	2,515. m3	0.03	1.30	98.09	103.68	10,169	0.00	0	4.08	10,261	0.00	0	8.12	20,431
A10-10-147.00	Teigen Plantsite; 170 Person Permenent Camp; Rock excavation - rippable rock	318. m3	0.03	1.30	12.40	103.68	1,286	0.00	0	5.28	1,679	0.00	0	9.32	2,965
A10-10-148.00	Teigen Plantsite; 170 Person Permenent Camp; Rock excavation - drill and blast	2,858. m3	0.08	1.30	297.23	103.68	30,817	2.88	8,231	4.32	12,347	0.00	0	17.98	51,395
A10-10-149.00	Teigen Plantsite; 170 Person Permenent Camp; Excavate and remove unsuitable material	1,588. m3	0.03	1.30	61.93	103.68	6,421	0.00	0	4.08	6,479	0.00	0	8.12	12,900
A10-10-150.00	Teigen Plantsite; 170 Person Permenent Camp; Compacted Fill from temporary stockpile (not exceeding 2km haul)	2,033. m3	0.02	1.30	52.86	103.68	5,480	0.00	0	4.56	9,270	0.00	0	7.26	14,751
A10-10-151.00	Teigen Plantsite; Portal Laydown Area; Clear and grub	1.08 ha	72.00	1.30	100.94	103.68	10,465	0.00	0	4,377.60	4,721	0.00	0	14,082.05	15,186
A10-10-152.00	Teigen Plantsite; Portal Laydown Area; Excavate and remove top soil 300mm	2,692. m3	0.03	1.30	104.99	103.68	10,885	0.00	0	4.08	10,983	0.00	0	8.12	21,869



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A10-10-153.00	Teigen Plantsite; Portal Laydown Area; Rock excavation - rippable rock	411. m3	0.03	1.30	16.03	103.68	1,662	0.00	0	5.28	2,170	0.00	0	9.32	3,832
A10-10-154.00	Teigen Plantsite; Portal Laydown Area; Rock excavation - drill and blast	3,703. m3	0.08	1.30	385.11	103.68	39,928	2.88	10,665	4.32	15,997	0.00	0	17.98	66,590
A10-10-155.00	Teigen Plantsite; Portal Laydown Area; Excavate and remove unsuitable material	2,057. m3	0.03	1.30	80.22	103.68	8,318	0.00	0	4.08	8,393	0.00	0	8.12	16,710
A10-10-156.00	Teigen Plantsite; Portal Laydown Area; Compacted Fill from temporary stockpile (not exceeding 2km haul)	2,077. m3	0.02	1.30	54.00	103.68	5,599	0.00	0	4.56	9,471	0.00	0	7.26	15,070
A10-10-157.00	Teigen Plantsite; C.O. Stockpile (60000t Live); Clear and grub	4.1 ha	72.00	1.30	383.38	103.68	39,748	0.00	0	4,377.60	17,930	0.00	0	14,082.05	57,679
A10-10-158.00	Teigen Plantsite; C.O. Stockpile (60000t Live); Excavate and remove top soil 300mm	9,804. m3	0.03	1.30	382.36	103.68	39,643	0.00	0	4.08	40,000	0.00	0	8.12	79,643
A10-10-159.00	Teigen Plantsite; C.O. Stockpile (60000t Live); Rock excavation - rippable rock	4,334. m3	0.03	1.30	169.03	103.68	17,525	0.00	0	5.28	22,884	0.00	0	9.32	40,408
A10-10-160.00	Teigen Plantsite; C.O. Stockpile (60000t Live); Rock excavation - drill and blast	39,002. m3	0.08	1.30	4,056.21	103.68	420,548	2.88	112,326	4.32	168,489	0.00	0	17.98	701,362
A10-10-161.00	Teigen Plantsite; C.O. Stockpile (60000t Live); Excavate and remove unsuitable material	21,668. m3	0.03	1.30	845.05	103.68	87,615	0.00	0	4.08	88,405	0.00	0	8.12	176,020
A10-10-162.00	Teigen Plantsite; C.O. Stockpile (60000t Live); Excavate to fill, suitable material	11,862. m3	0.02	1.30	231.31	103.68	23,982	0.00	0	4.32	51,244	0.00	0	6.34	75,226
A10-10-163.00	Teigen Plantsite; C.O. Stockpile (60000t Live); Compacted Fill from temporary stockpile (not exceeding 2km haul)	25,208. m3	0.02	1.30	655.41	103.68	67,953	0.00	0	4.56	114,948	0.00	0	7.26	182,901
A10-10-164.00	Teigen Plantsite; Concentrate Loadout; Clear and grub	1.55 ha	72.00	1.30	145.29	103.68	15,063	0.00	0	4,377.60	6,795	0.00	0	14,082.05	21,858
A10-10-165.00	Teigen Plantsite; Concentrate Loadout; Excavate and remove top soil 300mm	2,576. m3	0.03	1.30	100.46	103.68	10,416	0.00	0	4.08	10,510	0.00	0	8.12	20,926
A10-10-166.00	Teigen Plantsite; Concentrate Loadout; Rock excavation - rippable rock	1,889. m3	0.03	1.30	73.67	103.68	7,638	0.00	0	5.28	9,974	0.00	0	9.32	17,612
A10-10-167.00	Teigen Plantsite; Concentrate Loadout; Rock excavation - drill and blast	16,997. m3	0.08	1.30	1,767.69	103.68	183,274	2.88	48,951	4.32	73,427	0.00	0	17.98	305,652
A10-10-168.00	Teigen Plantsite; Concentrate Loadout; Excavate and remove unsuitable material	9,443. m3	0.03	1.30	368.28	103.68	38,183	0.00	0	4.08	38,527	0.00	0	8.12	76,710



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A10-10-169.00	Teigen Plantsite; Concentrate Loadout; Excavate to fill, suitable material	6,865. m3	0.02	1.30	133.87	103.68	13,879	0.00	0	4.32	29,657	0.00	0	6.34	43,536
A10-10-170.00	Teigen Plantsite; Concentrate Loadout; Compacted Fill from temporary stockpile (not exceeding 2km haul)	3,585. m3	0.02	1.30	93.21	103.68	9,664	0.00	0	4.56	16,348	0.00	0	7.26	26,012
A10-10-171.00	Teigen Plantsite; Process Plant; Clear and grub	5.83 ha	72.00	1.30	546.03	103.68	56,613	0.00	0	4,377.60	25,538	0.00	0	14,082.05	82,150
A10-10-172.00	Teigen Plantsite; Process Plant; Excavate and remove top soil 300mm	12,825. m3	0.03	1.30	500.18	103.68	51,858	0.00	0	4.08	52,326	0.00	0	8.12	104,184
A10-10-173.00	Teigen Plantsite; Process Plant; Rock excavation - rippable rock	10,056. m3	0.03	1.30	392.18	103.68	40,662	0.00	0	5.28	53,096	0.00	0	9.32	93,757
A10-10-174.00	Teigen Plantsite; Process Plant; Rock excavation - drill and blast	90,508. m3	0.08	1.30	9,412.83	103.68	975,922	2.88	260,663	4.32	390,995	0.00	0	17.98	1,627,580
A10-10-175.00	Teigen Plantsite; Process Plant; Excavate and remove unsuitable material	50,282. m3	0.03	1.30	1,961.00	103.68	203,316	0.00	0	4.08	205,151	0.00	0	8.12	408,467
A10-10-176.00	Teigen Plantsite; Process Plant; Excavate to fill, suitable material	37,458. m3	0.02	1.30	730.43	103.68	75,731	0.00	0	4.32	161,819	0.00	0	6.34	237,550
A10-10-177.00	Teigen Plantsite; Process Plant; Compacted Fill from temporary stockpile (not exceeding 2km haul)	25,244. m3	0.02	1.30	656.34	103.68	68,050	0.00	0	4.56	115,113	0.00	0	7.26	183,162
A10-10-178.00	Teigen Plantsite; HPGR; Clear and grub	1.02 ha	72.00	1.30	95.04	103.68	9,854	0.00	0	4,377.60	4,445	0.00	0	14,082.05	14,299
A10-10-179.00	Teigen Plantsite; HPGR; Excavate and remove top soil 300mm	1,975. m3	0.03	1.30	77.03	103.68	7,986	0.00	0	4.08	8,058	0.00	0	8.12	16,044
A10-10-180.00	Teigen Plantsite; HPGR; Rock excavation - rippable rock	668. m3	0.03	1.30	26.05	103.68	2,701	0.00	0	5.28	3,527	0.00	0	9.32	6,228
A10-10-181.00	Teigen Plantsite; HPGR; Rock excavation - drill and blast	6,015. m3	0.08	1.30	625.56	103.68	64,858	2.88	17,323	4.32	25,985	0.00	0	17.98	108,166
A10-10-182.00	Teigen Plantsite; HPGR; Excavate and remove unsuitable material	3,342. m3	0.03	1.30	130.34	103.68	13,513	0.00	0	4.08	13,635	0.00	0	8.12	27,149
A10-10-183.00	Teigen Plantsite; HPGR; Excavate to fill, suitable material	1,367. m3	0.02	1.30	26.66	103.68	2,764	0.00	0	4.32	5,905	0.00	0	6.34	8,669
A10-10-184.00	Teigen Plantsite; HPGR; Compacted Fill from temporary stockpile (not exceeding 2km haul)	4,145. m3	0.02	1.30	107.77	103.68	11,174	0.00	0	4.56	18,901	0.00	0	7.26	30,075



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A10-10-185.00	Teigen Plantsite; Secondary Crushing Building; Clear and grub	.38 ha	72.00	1.30	35.39	103.68	3,669	0.00	0	4,377.60	1,655	0.00	0	14,082.05	5,324
A10-10-186.00	Teigen Plantsite; Secondary Crushing Building; Excavate and remove top soil 300mm	959. m3	0.03	1.30	37.40	103.68	3,878	0.00	0	4.08	3,913	0.00	0	8.12	7,790
A10-10-187.00	Teigen Plantsite; Secondary Crushing Building; Rock excavation - rippable rock	85. m3	0.03	1.30	3.32	103.68	344	0.00	0	5.28	449	0.00	0	9.32	792
A10-10-188.00	Teigen Plantsite; Secondary Crushing Building; Rock excavation - drill and blast	763. m3	0.08	1.30	79.35	103.68	8,227	2.88	2,197	4.32	3,296	0.00	0	17.98	13,721
A10-10-189.00	Teigen Plantsite; Secondary Crushing Building; Excavate and remove unsuitable material	424. m3	0.03	1.30	16.54	103.68	1,714	0.00	0	4.08	1,730	0.00	0	8.12	3,444
A10-10-190.00	Teigen Plantsite; Secondary Crushing Building; Compacted Fill from temporary stockpile (not exceeding 2km haul)	672. m3	0.02	1.30	17.47	103.68	1,811	0.00	0	4.56	3,064	0.00	0	7.26	4,876
A10-10-191.00	Teigen Plantsite; Admin; Clear and grub	.36 ha	72.00	1.30	33.64	103.68	3,488	0.00	0	4,377.60	1,573	0.00	0	14,082.05	5,061
A10-10-192.00	Teigen Plantsite; Admin; Excavate and remove top soil 300mm	839. m3	0.03	1.30	32.72	103.68	3,393	0.00	0	4.08	3,423	0.00	0	8.12	6,816
A10-10-193.00	Teigen Plantsite; Admin; Rock excavation - rippable rock	111. m3	0.03	1.30	4.33	103.68	449	0.00	0	5.28	586	0.00	0	9.32	1,035
A10-10-194.00	Teigen Plantsite; Admin; Rock excavation - drill and blast	997. m3	0.08	1.30	103.69	103.68	10,750	2.88	2,871	4.32	4,307	0.00	0	17.98	17,929
A10-10-195.00	Teigen Plantsite; Admin; Excavate and remove unsuitable material	554. m3	0.03	1.30	21.61	103.68	2,240	0.00	0	4.08	2,260	0.00	0	8.12	4,500
A10-10-196.00	Teigen Plantsite; Admin; Compacted Fill from temporary stockpile (not exceeding 2km haul)	1,703. m3	0.02	1.30	44.28	103.68	4,591	0.00	0	4.56	7,766	0.00	0	7.26	12,356
A10-10-197.00	Teigen Plantsite; Temporary Muck Storage Pad; Clear and grub	1.32 ha	72.00	1.30	123.58	103.68	12,813	0.00	0	4,377.60	5,780	0.00	0	14,082.05	18,593
A10-10-198.00	Teigen Plantsite; Temporary Muck Storage Pad; Excavate and remove top soil 300mm	3,000. m3	0.03	1.30	117.00	103.68	12,131	0.00	0	4.08	12,240	0.00	0	8.12	24,371
A10-10-199.00	Teigen Plantsite; Temporary Muck Storage Pad; Rock excavation - rippable rock	823. m3	0.03	1.30	32.10	103.68	3,328	0.00	0	5.28	4,345	0.00	0	9.32	7,673
A10-10-200.00	Teigen Plantsite; Temporary Muck Storage Pad; Rock excavation - drill and blast	7,404. m3	0.08	1.30	770.02	103.68	79,835	2.88	21,324	4.32	31,985	0.00	0	17.98	133,144



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A10-10-201.00	Teigen Plantsite; Temporary Muck Storage Pad; Excavate and remove unsuitable material	4,113. m3	0.03	1.30	160.41	103.68	16,631	0.00	0	4.08	16,781	0.00	0	8.12	33,412
A10-10-202.00	Teigen Plantsite; Temporary Muck Storage Pad; Excavate to fill, suitable material	1,112. m3	0.02	1.30	21.68	103.68	2,248	0.00	0	4.32	4,804	0.00	0	6.34	7,052
A10-10-203.00	Teigen Plantsite; Temporary Muck Storage Pad; Compacted Fill from temporary stockpile (not exceeding 2km haul)	4,069. m3	0.02	1.30	105.79	103.68	10,969	0.00	0	4.56	18,555	0.00	0	7.26	29,523
A10-10-204.00	Teigen Plantsite; CN Destruction and Recovery; Clear and grub	5.07 ha	72.00	1.30	474.63	103.68	49,209	0.00	0	4,377.60	22,198	0.00	0	14,082.05	71,407
A10-10-205.00	Teigen Plantsite; CN Destruction and Recovery; Excavate and remove top soil 300mm	10,201. m3	0.03	1.30	397.84	103.68	41,248	0.00	0	4.08	41,620	0.00	0	8.12	82,868
A10-10-206.00	Teigen Plantsite; CN Destruction and Recovery; Rock excavation - rippable rock	7,989. m3	0.03	1.30	311.57	103.68	32,304	0.00	0	5.28	42,182	0.00	0	9.32	74,486
A10-10-207.00	Teigen Plantsite; CN Destruction and Recovery; Rock excavation - drill and blast	71,905. m3	0.08	1.30	7,478.12	103.68	775,331	2.88	207,086	4.32	310,630	0.00	0	17.98	1,293,047
A10-10-208.00	Teigen Plantsite; CN Destruction and Recovery; Excavate and remove unsuitable material	39,947. m3	0.03	1.30	1,557.93	103.68	161,526	0.00	0	4.08	162,984	0.00	0	8.12	324,510
A10-10-209.00	Teigen Plantsite; CN Destruction and Recovery; Excavate to fill, suitable material	29,747. m3	0.02	1.30	580.07	103.68	60,141	0.00	0	4.32	128,507	0.00	0	6.34	188,648
A10-10-210.00	Teigen Plantsite; CN Destruction and Recovery; Excavate to temporary stockpile (not exceeding 2km haul)	18,009. m3	0.02	1.30	468.23	103.68	48,547	0.00	0	4.08	73,477	0.00	0	6.78	122,023
A10-10-211.00	Teigen Plantsite; Maintenance Shop; Clear and grub	1.04 ha	72.00	1.30	97.41	103.68	10,099	0.00	0	4,377.60	4,556	0.00	0	14,082.05	14,655
A10-10-212.00	Teigen Plantsite; Maintenance Shop; Excavate and remove top soil 300mm	2,125. m3	0.03	1.30	82.88	103.68	8,592	0.00	0	4.08	8,670	0.00	0	8.12	17,262
A10-10-213.00	Teigen Plantsite; Maintenance Shop; Rock excavation - rippable rock	776. m3	0.03	1.30	30.26	103.68	3,138	0.00	0	5.28	4,097	0.00	0	9.32	7,235
A10-10-214.00	Teigen Plantsite; Maintenance Shop; Rock excavation - drill and blast	6,986. m3	0.08	1.30	726.54	103.68	75,328	2.88	20,120	4.32	30,180	0.00	0	17.98	125,627
A10-10-215.00	Teigen Plantsite; Maintenance Shop; Excavate and remove unsuitable material	3,881. m3	0.03	1.30	151.36	103.68	15,693	0.00	0	4.08	15,834	0.00	0	8.12	31,527
A10-10-216.00	Teigen Plantsite; Maintenance Shop; Excavate to fill, suitable material	1,756. m3	0.02	1.30	34.24	103.68	3,550	0.00	0	4.32	7,586	0.00	0	6.34	11,136



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A10-10-217.00	Teigen Plantsite; Maintenance Shop; Compacted Fill from temporary stockpile (not exceeding 2km haul)	5,201. m3	0.02	1.30	135.23	103.68	14,020	0.00	0	4.56	23,717	0.00	0	7.26	37,737
A10-10-218.00	Teigen Plantsite; Container Storage Area; Clear and grub	1.09 ha	72.00	1.30	102.46	103.68	10,623	0.00	0	4,377.60	4,792	0.00	0	14,082.05	15,416
A10-10-219.00	Teigen Plantsite; Container Storage Area; Excavate and remove top soil 300mm	3,075. m3	0.03	1.30	119.93	103.68	12,434	0.00	0	4.08	12,546	0.00	0	8.12	24,980
A10-10-220.00	Teigen Plantsite; Container Storage Area; Compacted Fill from temporary stockpile (not exceeding 2km haul)	4,124. m3	0.02	1.30	107.22	103.68	11,117	0.00	0	4.56	18,805	0.00	0	7.26	29,922
A10-10-221.00	Teigen Plantsite; Construction Admin. Office; Clear and grub	.22 ha	72.00	1.30	20.58	103.68	2,134	0.00	0	4,377.60	963	0.00	0	14,082.05	3,097
A10-10-222.00	Teigen Plantsite; Construction Admin. Office; Excavate and remove top soil 300mm	529. m3	0.03	1.30	20.63	103.68	2,139	0.00	0	4.08	2,158	0.00	0	8.12	4,297
A10-10-223.00	Teigen Plantsite; Construction Admin. Office; Rock excavation - rippable rock	48. m3	0.03	1.30	1.87	103.68	194	0.00	0	5.28	253	0.00	0	9.32	448
A10-10-224.00	Teigen Plantsite; Construction Admin. Office; Rock excavation - drill and blast	435. m3	0.08	1.30	45.24	103.68	4,690	2.88	1,253	4.32	1,879	0.00	0	17.98	7,822
A10-10-225.00	Teigen Plantsite; Construction Admin. Office; Excavate and remove unsuitable material	242. m3	0.03	1.30	9.44	103.68	979	0.00	0	4.08	987	0.00	0	8.12	1,966
A10-10-226.00	Teigen Plantsite; Construction Admin. Office; Compacted Fill from temporary stockpile (not exceeding 2km haul)	273. m3	0.02	1.30	7.10	103.68	736	0.00	0	4.56	1,245	0.00	0	7.26	1,981
A10-10-227.00	Teigen Plantsite; Amb.; Clear and grub	.23 ha	72.00	1.30	21.70	103.68	2,249	0.00	0	4,377.60	1,015	0.00	0	14,082.05	3,264
A10-10-228.00	Teigen Plantsite; Amb.; Excavate and remove top soil 300mm	500. m3	0.03	1.30	19.50	103.68	2,022	0.00	0	4.08	2,040	0.00	0	8.12	4,062
A10-10-229.00	Teigen Plantsite; Amb.; Rock excavation - rippable rock	73. m3	0.03	1.30	2.85	103.68	295	0.00	0	5.28	385	0.00	0	9.32	681
A10-10-230.00	Teigen Plantsite; Amb.; Rock excavation - drill and blast	658. m3	0.08	1.30	68.43	103.68	7,095	2.88	1,895	4.32	2,843	0.00	0	17.98	11,833
A10-10-231.00	Teigen Plantsite; Amb.; Excavate and remove unsuitable material	366. m3	0.03	1.30	14.27	103.68	1,480	0.00	0	4.08	1,493	0.00	0	8.12	2,973
A10-10-232.00	Teigen Plantsite; Amb.; Compacted Fill from temporary stockpile (not exceeding 2km haul)	390. m3	0.02	1.30	10.14	103.68	1,051	0.00	0	4.56	1,778	0.00	0	7.26	2,830



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A10-10-233.00	Teigen Plantsite; Fuel Unloading / Pumping Station; Clear and grub	.72 ha	72.00	1.30	67.11	103.68	6,958	0.00	0	4,377.60	3,139	0.00	0	14,082.05	10,097
A10-10-234.00	Teigen Plantsite; Fuel Unloading / Pumping Station; Excavate and remove top soil 300mm	1,458. m3	0.03	1.30	56.86	103.68	5,895	0.00	0	4.08	5,949	0.00	0	8.12	11,844
A10-10-235.00	Teigen Plantsite; Fuel Unloading / Pumping Station; Rock excavation - rippable rock	388. m3	0.03	1.30	15.13	103.68	1,569	0.00	0	5.28	2,049	0.00	0	9.32	3,618
A10-10-236.00	Teigen Plantsite; Fuel Unloading / Pumping Station; Rock excavation - drill and blast	3,495. m3	0.08	1.30	363.48	103.68	37,686	2.88	10,066	4.32	15,098	0.00	0	17.98	62,850
A10-10-237.00	Teigen Plantsite; Fuel Unloading / Pumping Station; Excavate and remove unsuitable material	1,942. m3	0.03	1.30	75.74	103.68	7,853	0.00	0	4.08	7,923	0.00	0	8.12	15,776
A10-10-238.00	Teigen Plantsite; Fuel Unloading / Pumping Station; Excavate to fill, suitable material	483. m3	0.02	1.30	9.42	103.68	977	0.00	0	4.32	2,087	0.00	0	6.34	3,063
A10-10-239.00	Teigen Plantsite; Fuel Unloading / Pumping Station; Compacted Fill from temporary stockpile (not exceeding 2km haul)	2,629. m3	0.02	1.30	68.35	103.68	7,087	0.00	0	4.56	11,988	0.00	0	7.26	19,075
A10-10-240.00	Teigen Plantsite; Pre-construction Fuel Storage; Clear and grub	.29 ha	72.00	1.30	27.50	103.68	2,851	0.00	0	4,377.60	1,286	0.00	0	14,082.05	4,137
A10-10-241.00	Teigen Plantsite; Pre-construction Fuel Storage; Excavate and remove top soil 300mm	750. m3	0.03	1.30	29.25	103.68	3,033	0.00	0	4.08	3,060	0.00	0	8.12	6,093
A10-10-242.00	Teigen Plantsite; Pre-construction Fuel Storage; Rock excavation - rippable rock	40. m3	0.03	1.30	1.56	103.68	162	0.00	0	5.28	211	0.00	0	9.32	373
A10-10-243.00	Teigen Plantsite; Pre-construction Fuel Storage; Rock excavation - drill and blast	363. m3	0.08	1.30	37.75	103.68	3,914	2.88	1,045	4.32	1,568	0.00	0	17.98	6,528
A10-10-244.00	Teigen Plantsite; Pre-construction Fuel Storage; Excavate and remove unsuitable material	202. m3	0.03	1.30	7.88	103.68	817	0.00	0	4.08	824	0.00	0	8.12	1,641
A10-10-245.00	Teigen Plantsite; Pre-construction Fuel Storage; Compacted Fill from temporary stockpile (not exceeding 2km haul)	260. m3	0.02	1.30	6.76	103.68	701	0.00	0	4.56	1,186	0.00	0	7.26	1,886
A10-10-246.00	Teigen Plantsite; Construction Laydown Area; Clear and grub	.11 ha	72.00	1.30	9.92	103.68	1,029	0.00	0	4,377.60	464	0.00	0	14,082.05	1,493
A10-10-247.00	Teigen Plantsite; Construction Laydown Area; Excavate and remove top soil 300mm	26,721. m3	0.03	1.30	1,042.12	103.68	108,047	0.00	0	4.08	109,022	0.00	0	8.12	217,069
A10-10-248.00	Teigen Plantsite; Construction Laydown Area; Rock excavation - rippable rock	10,613. m3	0.03	1.30	413.91	103.68	42,914	0.00	0	5.28	56,037	0.00	0	9.32	98,951



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A10-10-249.00	Teigen Plantsite; Construction Laydown Area; Rock excavation - drill and blast	95,520. m3	0.08	1.30	9,934.08	103.68	1,029,965	2.88	275,098	4.32	412,646	0.00	0	17.98	1,717,709
A10-10-250.00	Teigen Plantsite; Construction Laydown Area; Excavate and remove unsuitable material	53,067. m3	0.03	1.30	2,069.61	103.68	214,577	0.00	0	4.08	216,513	0.00	0	8.12	431,091
A10-10-251.00	Teigen Plantsite; Construction Laydown Area; Excavate to fill, suitable material	26,345. m3	0.02	1.30	513.73	103.68	53,263	0.00	0	4.32	113,810	0.00	0	6.34	167,074
A10-10-252.00	Teigen Plantsite; Construction Laydown Area; Compacted Fill from temporary stockpile (not exceeding 2km haul)	40,016. m3	0.02	1.30	1,040.42	103.68	107,870	0.00	0	4.56	182,473	0.00	0	7.26	290,343
A10-10-253.00	Teigen Plantsite; Process Water Tanks; Clear and grub	.54 ha	72.00	1.30	50.58	103.68	5,244	0.00	0	4,377.60	2,366	0.00	0	14,082.05	7,610
A10-10-254.00	Teigen Plantsite; Process Water Tanks; Excavate and remove top soil 300mm	1,452. m3	0.03	1.30	56.63	103.68	5,871	0.00	0	4.08	5,924	0.00	0	8.12	11,795
A10-10-255.00	Teigen Plantsite; Process Water Tanks; Rock excavation - rippable rock	155. m3	0.03	1.30	6.05	103.68	627	0.00	0	5.28	818	0.00	0	9.32	1,445
A10-10-256.00	Teigen Plantsite; Process Water Tanks; Rock excavation - drill and blast	1,394. m3	0.08	1.30	144.98	103.68	15,031	2.88	4,015	4.32	6,022	0.00	0	17.98	25,068
A10-10-257.00	Teigen Plantsite; Process Water Tanks; Excavate and remove unsuitable material	774. m3	0.03	1.30	30.19	103.68	3,130	0.00	0	4.08	3,158	0.00	0	8.12	6,288
A10-10-258.00	Teigen Plantsite; Process Water Tanks; Compacted Fill from temporary stockpile (not exceeding 2km haul)	1,487. m3	0.02	1.30	38.66	103.68	4,008	0.00	0	4.56	6,781	0.00	0	7.26	10,789
A10-10-259.00	Camp 1 Access Road; Clear and grub	.56 ha	72.00	1.30	52.67	103.68	5,461	0.00	0	4,377.60	2,463	0.00	0	14,082.05	7,924
A10-10-260.00	Camp 1 Access Road; Excavate and remove top soil 300mm	1,688. m3	0.03	1.30	65.83	103.68	6,825	0.00	0	4.08	6,887	0.00	0	8.12	13,713
A10-10-261.00	Camp 1 Access Road; Rock excavation - rippable rock	102. m3	0.03	1.30	3.98	103.68	412	0.00	0	5.28	539	0.00	0	9.32	951
A10-10-262.00	Camp 1 Access Road; Rock excavation - drill and blast	919. m3	0.08	1.30	95.58	103.68	9,909	2.88	2,647	4.32	3,970	0.00	0	17.98	16,526
A10-10-263.00	Camp 1 Access Road; Excavate and remove unsuitable material	511. m3	0.03	1.30	19.93	103.68	2,066	0.00	0	4.08	2,085	0.00	0	8.12	4,151
A10-10-264.00	Camp 1 Access Road; Compacted Fill from temporary stockpile (not exceeding 2km haul)	411. m3	0.02	1.30	10.69	103.68	1,108	0.00	0	4.56	1,874	0.00	0	7.26	2,982



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A10-10-265.00	Camp 1 Access Road; Road surfacing	3,120. m2	0.05	1.30	202.80	103.68	21,026	0.00	0	4.03	12,580	0.00	0	10.77	33,606
A10-10-266.00	Camp 3 Access Road; Clear and grub	.23 ha	72.00	1.30	21.57	103.68	2,237	0.00	0	4,377.60	1,009	0.00	0	14,082.05	3,246
A10-10-267.00	Camp 3 Access Road; Excavate and remove top soil 300mm	692. m3	0.03	1.30	26.99	103.68	2,798	0.00	0	4.08	2,823	0.00	0	8.12	5,621
A10-10-268.00	Camp 3 Access Road; Compacted Fill from temporary stockpile (not exceeding 2km haul)	1,412. m3	0.02	1.30	36.71	103.68	3,806	0.00	0	4.56	6,439	0.00	0	7.26	10,245
A10-10-269.00	Camp 3 Access Road; Road surfacing	1,050. m2	0.05	1.30	68.25	103.68	7,076	0.00	0	4.03	4,234	0.00	0	10.77	11,310
A10-10-270.00	Camp 4 Access Road; Clear and grub	.87 ha	72.00	1.30	81.53	103.68	8,453	0.00	0	4,377.60	3,813	0.00	0	14,082.05	12,265
A10-10-271.00	Camp 4 Access Road; Excavate and remove top soil 300mm	2,613. m3	0.03	1.30	101.91	103.68	10,566	0.00	0	4.08	10,661	0.00	0	8.12	21,227
A10-10-272.00	Camp 4 Access Road; Rock excavation - rippable rock	522. m3	0.03	1.30	20.36	103.68	2,111	0.00	0	5.28	2,756	0.00	0	9.32	4,867
A10-10-273.00	Camp 4 Access Road; Rock excavation - drill and blast	4,699. m3	0.08	1.30	488.70	103.68	50,668	2.88	13,533	4.32	20,300	0.00	0	17.98	84,501
A10-10-274.00	Camp 4 Access Road; Excavate and remove unsuitable material	2,611. m3	0.03	1.30	101.83	103.68	10,558	0.00	0	4.08	10,653	0.00	0	8.12	21,211
A10-10-275.00	Camp 4 Access Road; Excavate to temporary stockpile (not exceeding 2km haul)	3,541. m3	0.02	1.30	92.07	103.68	9,545	0.00	0	4.08	14,447	0.00	0	6.78	23,993
A10-10-276.00	Camp 4 Access Road; Road surfacing	2,700. m2	0.05	1.30	175.50	103.68	18,196	0.00	0	4.03	10,886	0.00	0	10.77	29,082
A10-10-277.00	Camp 5 Access Road; Clear and grub	.28 ha	72.00	1.30	26.54	103.68	2,752	0.00	0	4,377.60	1,241	0.00	0	14,082.05	3,994
A10-10-278.00	Camp 5 Access Road; Excavate and remove top soil 300mm	851. m3	0.03	1.30	33.19	103.68	3,441	0.00	0	4.08	3,472	0.00	0	8.12	6,913
A10-10-279.00	Camp 5 Access Road; Compacted Fill from temporary stockpile (not exceeding 2km haul)	1,680. m3	0.02	1.30	43.68	103.68	4,529	0.00	0	4.56	7,661	0.00	0	7.26	12,190
A10-10-280.00	Camp 5 Access Road; Road surfacing	1,560. m2	0.05	1.30	101.40	103.68	10,513	0.00	0	4.03	6,290	0.00	0	10.77	16,803



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A10-10-281.00	Camp 7 Access Road; Clear and grub	.22 ha	72.00	1.30	20.14	103.68	2,088	0.00	0	4,377.60	942	0.00	0	14,082.05	3,030
A10-10-282.00	Camp 7 Access Road; Excavate and remove top soil 300mm	646. m3	0.03	1.30	25.19	103.68	2,612	0.00	0	4.08	2,636	0.00	0	8.12	5,248
A10-10-283.00	Camp 7 Access Road; Rock excavation - rippable rock	45. m3	0.03	1.30	1.76	103.68	182	0.00	0	5.28	238	0.00	0	9.32	420
A10-10-284.00	Camp 7 Access Road; Rock excavation - drill and blast	409. m3	0.08	1.30	42.54	103.68	4,410	2.88	1,178	4.32	1,767	0.00	0	17.98	7,355
A10-10-285.00	Camp 7 Access Road; Excavate and remove unsuitable material	227. m3	0.03	1.30	8.85	103.68	918	0.00	0	4.08	926	0.00	0	8.12	1,844
A10-10-286.00	Camp 7 Access Road; Compacted Fill from temporary stockpile (not exceeding 2km haul)	286. m3	0.02	1.30	7.44	103.68	771	0.00	0	4.56	1,304	0.00	0	7.26	2,075
A10-10-287.00	Camp 7 Access Road; Road surfacing	942. m2	0.05	1.30	61.23	103.68	6,348	0.00	0	4.03	3,798	0.00	0	10.77	10,146
A10-10-288.00	Camp 8 Access Road; Clear and grub	.23 ha	72.00	1.30	21.20	103.68	2,198	0.00	0	4,377.60	992	0.00	0	14,082.05	3,190
A10-10-289.00	Camp 8 Access Road; Excavate and remove top soil 300mm	680. m3	0.03	1.30	26.52	103.68	2,750	0.00	0	4.08	2,774	0.00	0	8.12	5,524
A10-10-290.00	Camp 8 Access Road; Rock excavation - rippable rock	53. m3	0.03	1.30	2.07	103.68	214	0.00	0	5.28	280	0.00	0	9.32	494
A10-10-291.00	Camp 8 Access Road; Rock excavation - drill and blast	475. m3	0.08	1.30	49.40	103.68	5,122	2.88	1,368	4.32	2,052	0.00	0	17.98	8,542
A10-10-292.00	Camp 8 Access Road; Excavate and remove unsuitable material	264. m3	0.03	1.30	10.30	103.68	1,067	0.00	0	4.08	1,077	0.00	0	8.12	2,145
A10-10-293.00	Camp 8 Access Road; Compacted Fill from temporary stockpile (not exceeding 2km haul)	204. m3	0.02	1.30	5.30	103.68	550	0.00	0	4.56	930	0.00	0	7.26	1,480
A10-10-294.00	Camp 8 Access Road; Road surfacing	1,152. m2	0.05	1.30	74.88	103.68	7,764	0.00	0	4.03	4,645	0.00	0	10.77	12,408
A10-10-295.00	Camp 9a Access Road; Clear and grub	.89 ha	72.00	1.30	83.73	103.68	8,681	0.00	0	4,377.60	3,916	0.00	0	14,082.05	12,596
A10-10-296.00	Camp 9a Access Road; Excavate and remove top soil 300mm	2,684. m3	0.03	1.30	104.68	103.68	10,853	0.00	0	4.08	10,951	0.00	0	8.12	21,804



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A10-10-297.00	Camp 9a Access Road; Rock excavation - rippable rock	202. m3	0.03	1.30	7.88	103.68	817	0.00	0	5.28	1,067	0.00	0	9.32	1,883
A10-10-298.00	Camp 9a Access Road; Rock excavation - drill and blast	1,814. m3	0.08	1.30	188.66	103.68	19,560	2.88	5,224	4.32	7,836	0.00	0	17.98	32,621
A10-10-299.00	Camp 9a Access Road; Excavate and remove unsuitable material	1,008. m3	0.03	1.30	39.31	103.68	4,076	0.00	0	4.08	4,113	0.00	0	8.12	8,189
A10-10-300.00	Camp 9a Access Road; Compacted Fill from temporary stockpile (not exceeding 2km haul)	1,524. m3	0.02	1.30	39.62	103.68	4,108	0.00	0	4.56	6,949	0.00	0	7.26	11,058
A10-10-301.00	Camp 9a Access Road; Road surfacing	1,920. m2	0.05	1.30	124.80	103.68	12,939	0.00	0	4.03	7,741	0.00	0	10.77	20,681
A10-10-302.00	Camp 9b Access Road; Clear and grub	1.89 ha	72.00	1.30	177.10	103.68	18,362	0.00	0	4,377.60	8,283	0.00	0	14,082.05	26,645
A10-10-303.00	Camp 9b Access Road; Excavate and remove top soil 300mm	5,676. m3	0.03	1.30	221.36	103.68	22,951	0.00	0	4.08	23,158	0.00	0	8.12	46,109
A10-10-304.00	Camp 9b Access Road; Rock excavation - rippable rock	714. m3	0.03	1.30	27.85	103.68	2,887	0.00	0	5.28	3,770	0.00	0	9.32	6,657
A10-10-305.00	Camp 9b Access Road; Rock excavation - drill and blast	6,422. m3	0.08	1.30	667.89	103.68	69,247	2.88	18,495	4.32	27,743	0.00	0	17.98	115,485
A10-10-306.00	Camp 9b Access Road; Excavate and remove unsuitable material	3,568. m3	0.03	1.30	139.15	103.68	14,427	0.00	0	4.08	14,557	0.00	0	8.12	28,985
A10-10-307.00	Camp 9b Access Road; Compacted Fill from temporary stockpile (not exceeding 2km haul)	3,055. m3	0.02	1.30	79.43	103.68	8,235	0.00	0	4.56	13,931	0.00	0	7.26	22,166
A10-10-308.00	Camp 9b Access Road; Road surfacing	5,988. m2	0.05	1.30	389.22	103.68	40,354	0.00	0	4.03	24,144	0.00	0	10.77	64,498
A10-10-309.00	Camp 11 Access Road; Clear and grub	.5 ha	72.00	1.30	46.52	103.68	4,823	0.00	0	4,377.60	2,176	0.00	0	14,082.05	6,999
A10-10-310.00	Camp 11 Access Road; Excavate and remove top soil 300mm	1,491. m3	0.03	1.30	58.15	103.68	6,029	0.00	0	4.08	6,083	0.00	0	8.12	12,112
A10-10-311.00	Camp 11 Access Road; Rock excavation - rippable rock	172. m3	0.03	1.30	6.71	103.68	695	0.00	0	5.28	908	0.00	0	9.32	1,604
A10-10-312.00	Camp 11 Access Road; Rock excavation - drill and blast	1,544. m3	0.08	1.30	160.58	103.68	16,649	2.88	4,447	4.32	6,670	0.00	0	17.98	27,765



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A10-10-313.00	Camp 11 Access Road; Excavate and remove unsuitable material	858. m3	0.03	1.30	33.46	103.68	3,469	0.00	0	4.08	3,501	0.00	0	8.12	6,970
A10-10-314.00	Camp 11 Access Road; Compacted Fill from temporary stockpile (not exceeding 2km haul)	1,568. m3	0.02	1.30	40.77	103.68	4,227	0.00	0	4.56	7,150	0.00	0	7.26	11,377
A10-10-315.00	Camp 11 Access Road; Road surfacing	1,950. m2	0.05	1.30	126.75	103.68	13,141	0.00	0	4.03	7,862	0.00	0	10.77	21,004
A10-10-316.00	Overall Mine Site Bulk Earthworks (By MMTS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A10 - Plantsite and Roads Subtotal					92,815.57		9,623,118		1,521,346		6,776,755		0		17,921,219
<u>A11 - Pioneering Work</u>															
A11-8-318.00	Open Pit - Pioneering Work (excluding fuel requirement)	1. lot	310,333.84	1.00	310,333.84	103.68	32,175,412	5,850,074.83	5,850,075	20,475,261.90	20,475,262	0.00	0	58,500,748.28	58,500,748
A11 - Pioneering Work Subtotal					310,333.84		32,175,412		5,850,075		20,475,262		0		58,500,748
<u>A20 - Mitchell Pit Power Supply & Distribution</u>															
A20-70-320.00	Mitchell Pit Substation	1. lot	9,017.09	1.30	11,722.22	103.68	1,215,360	2,025,599.95	2,025,600	202,560.00	202,560	607,679.99	607,680	4,051,199.91	4,051,200
A20-70-321.00	25kV OH 477,000 ASCR (HAWK) (Total 23100m)	1. lot	12,841.88	1.30	16,694.44	103.68	1,730,880	721,199.98	721,200	432,719.99	432,720	0.00	0	2,884,799.94	2,884,800
A20-70-322.00	25kV Mitchell -Teigen Tunnel Cable	1. lot	6,464.77	1.30	8,404.20	103.68	871,347	871,347.44	871,347	193,632.76	193,633	0.00	0	1,936,327.64	1,936,328
A20-70-323.00	Transformers (Including Grounding Resistors)	1. lot	4,964.86	1.30	6,454.32	103.68	669,184	2,425.92	2,426	35,713.92	35,714	2,091,199.85	2,091,200	2,798,523.64	2,798,524
A20-70-324.00	Bus/Cable Duct From Transformer Secondaries	1. lot	2,634.97	1.30	3,425.46	103.68	355,152	1,617,914.22	1,617,914	4,800.00	4,800	0.00	0	1,977,866.12	1,977,866
A20-70-325.00	Cable Terminations From Transformer Secondaries	1. lot	113.94	1.30	148.12	103.68	15,357	3,839.23	3,839	72.00	72	0.00	0	19,268.16	19,268
A20-70-326.00	4kV MCCs (Per Section - With Starter)	1. lot	1,603.60	1.30	2,084.68	103.68	216,140	264,171.24	264,171	960.00	960	0.00	0	481,271.34	481,271
A20-70-327.00	600 V PDCs (4 Bkr Sections)	1. lot	2,196.59	1.30	2,855.57	103.68	296,065	361,857.40	361,857	960.00	960	0.00	0	658,882.55	658,883
A20-70-328.00	Cable From 600V PDC to 600V MCC	1. lot	64.74	1.30	84.16	103.68	8,726	10,276.95	10,277	480.00	480	0.00	0	19,482.65	19,483



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A20-70-329.00	Cable Terminations From 600V PDC to 600V MCC	1. lot	28.33	1.30	36.82	103.68	3,818	1,090.86	1,091	48.00	48	0.00	0	4,956.85	4,957
A20-70-330.00	600 V MCC (Per Section - Without Starters, includes HVAC)	1. lot	1,321.69	1.30	1,718.19	103.68	178,142	185,887.45	185,887	23,040.00	23,040	0.00	0	387,069.60	387,070
A20-70-331.00	Mine site Area Motor Wiring	1. lot	11,825.92	1.30	15,373.70	103.68	1,593,945	796,972.55	796,973	34,603.20	34,603	0.00	0	2,425,520.86	2,425,521
A20-70-332.00	Building/Area Grounding (Fuel Stations)	1. lot	247.46	1.30	321.70	103.68	33,354	34,743.36	34,743	1,286.40	1,286	0.00	0	69,383.38	69,383
A20-70-333.00	Outdoor Lighting (Fuel Stations)	1. lot	525.47	1.30	683.11	103.68	70,825	44,120.55	44,121	960.00	960	0.00	0	115,905.65	115,906
A20-70-334.00	Cable Tray (Total For Mine site Areas)	1. lot	6,352.17	1.30	8,257.82	103.68	856,171	352,541.00	352,541	48,000.00	48,000	0.00	0	1,256,712.01	1,256,712
A20-70-335.00	Indoor Power/Light/Welding	1. lot	5,818.17	1.30	7,563.62	103.68	784,196	87,132.86	87,133	1,920.00	1,920	0.00	0	873,248.62	873,249
A20-70-336.00	Mine site Fire Alarm System	1. lot	951.93	1.30	1,237.51	103.68	128,305	960.00	960	960.00	960	384,915.59	384,916	515,140.79	515,141
A20-70-337.00	Allowance For HVAC	1. lot	1,139.25	1.30	1,481.02	103.68	153,552	285,167.99	285,168	960.00	960	0.00	0	439,679.99	439,680
A20-70-338.00	Allowance For Heat Trace	1. lot	845.09	1.30	1,098.62	103.68	113,905	341,715.59	341,716	1,920.00	1,920	0.00	0	457,540.79	457,541
A20-70-339.00	Trailing Cables In Pit	1. lot	367.18	1.30	477.33	103.68	49,490	445,410.13	445,410	960.00	960	0.00	0	495,860.15	495,860
A20-70-340.00	Temp Construction Power (incl Temp Power Generator/Camp Power Req'Ments)	2. lot	5,076.41	1.30	13,198.67	103.68	1,368,438	960.00	1,920	1,920.00	3,840	836,267.50	1,672,535	1,523,366.37	3,046,733
A20-70-341.00	Duct Banks (Substation To Xfrms and Xfrms to PDC)	1. lot	12,297.54	1.30	15,986.81	103.68	1,657,512	442,003.19	442,003	110,500.80	110,501	0.00	0	2,210,015.95	2,210,016
A20-70-342.00	[Y2] - Portable unit substation, 25 kV to 7200 volts, 25 kV primary circuit breaker, 7.5 MVS transformer 25 - 7.2 kV, delta-wye, neutral grounding resistor, 3 feeder corcuit breakers with ground fault and pilot wire check protection, mounted on used highway tra, (Sustaining Capital CAD\$2,296,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20-70-343.00	[Y2] - Portable unit substation, 7.2 kV to 600 volts,500 kVA c/w neutral grounding resisotr, cable ground fault and pilot wire protection, secondary contactors and circuit brealers, mounted on 2 axel trailer suitable for towing by Supoer Duty pickup, to power lo, (Sustaining Capital CAD\$504,004)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20-70-344.00	[Y2] - Trailing cable couplers, 8kV, 400 A cable mount plug c/w entrance fitting gasket kit, (Sustaining Capital CAD\$25,140)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A20-70-345.00	[Y2] - 8kV, 400 A cable mount male coupler c/w entrance fitting gasket kit, (Sustaining Capital CAD\$41,306)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20-70-346.00	[Y2] - 8kV, 250 A cable mount male coupler c/w entrance fitting gasket kit, (Sustaining Capital CAD\$21,400)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20-70-347.00	[Y2] - 8kV, 400 A equipment (panel) mount female coupler, (Sustaining Capital CAD\$7,524)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20-70-348.00	[Y2] - 8kV, 250 A equipment (panel) mount female coupler, (Sustaining Capital CAD\$10,899)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20-70-349.00	[Y2] - Skid mount cable coupler couple (female), 8 kV, 400 amp, to join trailng cable, (Sustaining Capital CAD\$25,800)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20-70-350.00	[Y2] - Skid mount cable coupler coupler (female) , 8 kV, 250 amp, to join trailing cable, (Sustaining Capital CAD\$32,800)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20-70-351.00	[Y2] - 600 volt cable connectors, cable and equipment mount, (Sustaining Capital CAD\$10,560)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20-70-352.00	[Y2] - Factory installation of 400 Amp couplers on cable (cable by others) c/w potting compound, (Sustaining Capital CAD\$9,380)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20-70-353.00	[Y2] - Factory installation of 250 Amp couplers on cable (cable by others) c/w potting compound, (Sustaining Capital CAD\$13,400)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20-70-354.00	[Y2] - Misc. fittings, gaskets, compound, etc. factory installed, (Sustaining Capital CAD\$11,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20-70-355.00	[Y2] - 25 kV, pole mount vacuum recloser to protect 25 kV cable to portable switch houses c/w sensitive (zero sequence) earth fault protection, over current protection and pilot wire protection, all self contained., (Sustaining Capital CAD\$128,400)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20-70-356.00	[Y2] - 25 kV manual air break switch to be used with reclosers above. C/W operating handle, ground mat, etc., (Sustaining Capital CAD\$64,200)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20-70-357.00	[Y2] - Set of three 25 kV distribution class lightning arresters, (Sustaining Capital CAD\$7,200)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20-70-358.00	[Y2] - 8 kV Trailing Cable, SHD-GC, 2/0 AWG, CPE Jacket, for shovels, (Sustaining Capital CAD\$229,375)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20-70-359.00	[Y2] - 8 kV Trailing Cable, SHD-GC, 2 AWG, CPE Jacket, for drills, (Sustaining Capital CAD\$288,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20-70-360.00	[Y2] - 25 kV Trailing Cable, SHD-GC, 1/0 AWG, CPE Jacket, for portable sub primary connections, (Sustaining Capital CAD\$116,500)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A20-70-361.00	[Y2] - 2 kV, Type G-GC, # 2 AWG, (600 volt use) trailing cable, SHD-GC, xx AWG, for use to supply pumps and other 600 volt loads., (Sustaining Capital CAD\$32,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20-70-362.00	[Y2] - Misc. including breakout boots, cable grips, etc., (Sustaining Capital CAD\$29,188)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20-70-363.00	[Y2] - Traing cable splice kit, 8 kV, (for futre operations repairs), (Sustaining Capital CAD\$5,200)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20-70-364.00	[Y2] - Temporary Grounding At Unit Subs - First Installation; Ground wire, 2/0 AWG, (Sustaining Capital CAD\$10,913)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20-70-365.00	[Y2] - Temporary Grounding At Unit Subs - First Installation; Ground Connectors, compression, (Sustaining Capital CAD\$6,422)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20-70-366.00	[Y2] - Spares, (Sustaining Capital CAD\$196,330)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20 - Mitchell Pit Power Supply & Distribution Subtotal					119,308.10		12,369,864		8,898,298		1,100,897		4,756,330		27,125,389
<u>A30 - Plantsite Power Supply & Distribution</u>															
A30-40-368.00	Electrical Substation (including Transformer pad); Station 1, 15m x 18m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A30-40-369.00	Electrical Substation (including Transformer pad); Station 2, 21m x 23m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A30-13-370.00	Electrical Substation (including Transformer pad); Detail Excavation	1,805. m3	0.06	1.30	140.79	103.68	14,597	0.00	0	3.60	6,498	0.00	0	11.69	21,095
A30-13-371.00	Electrical Substation (including Transformer pad); Backfill	1,167. m3	0.10	1.30	151.71	103.68	15,729	7.68	8,963	3.84	4,481	0.00	0	25.00	29,173
A30-20-372.00	Electrical Substation (including Transformer pad); Concrete work	709. m3	6.50	1.30	5,991.05	103.68	621,152	734.40	520,690	24.00	17,016	0.00	0	1,634.50	1,158,858
A30-40-373.00	Electrical Substation (including Transformer pad); Structural Steel allowance	1. lot	2,000.00	1.30	2,600.00	103.68	269,568	172,800.00	172,800	0.00	0	0.00	0	442,367.99	442,368
A30-70-374.00	Refurbishment and Installation of Diesel Generators (Emergency Generators)	1. lot	5,500.00	1.30	7,150.00	103.68	741,312	96,000.00	96,000	14,400.00	14,400	479,999.99	480,000	1,331,711.97	1,331,712
A30-70-375.00	25 kV Overhead Line (Includes Fused Cutouts) Tiegen Area	1. lot	697.44	1.30	906.67	103.68	94,003	105,753.60	105,754	35,251.20	35,251	0.00	0	235,007.99	235,008
A30-70-376.00	287 kV Underground Cable from Substation to tie in 287 OH KSM [700 m]	1. lot	527.35	1.30	685.55	103.68	71,078	199,018.71	199,019	13,440.00	13,440	0.00	0	283,536.82	283,537



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A30-70-377.00	138 kV Underground Cable from Substation to Teigen Mitchell Tunnel [500 m]	1. lot	354.32	1.30	460.62	103.68	47,757	107,042.21	107,042	9,600.00	9,600	0.00	0	164,399.50	164,399
A30-70-378.00	138 kV Teigen Mitchell Tunnel Cable [23,000 m]	1. lot	16,298.93	1.30	21,188.61	103.68	2,196,835	4,923,941.46	4,923,941	441,599.99	441,600	0.00	0	7,562,376.87	7,562,377
A30-70-379.00	25 kV Underground Cable from Substation to Teigen Mitchell Tunnel [500 m]	1. lot	269.37	1.30	350.18	103.68	36,306	40,340.16	40,340	4,034.02	4,034	0.00	0	80,680.32	80,680
A30-70-380.00	25 kV Teigen Mitchell Tunnel Cable [12,000 m]	1. lot	6,464.77	1.30	8,404.20	103.68	871,347	968,163.82	968,164	96,816.38	96,816	0.00	0	1,936,327.64	1,936,328
A30-70-381.00	4 kV VFD Without Output Contactors (2500 HP VFD 2 each per 2500 HP Motor)	8. lot	412.54	1.30	4,290.41	103.68	444,829	2,400.00	19,200	1,200.00	9,600	234,120.76	1,872,966	293,324.44	2,346,596
A30-70-382.00	Trailing Cables In Pit	1. lot	307.01	1.30	399.11	103.68	41,380	165,520.12	165,520	960.00	960	0.00	0	207,860.16	207,860
A30-70-383.00	25 kV Feeders (Teck Cables)	1. lot	1,148.52	1.30	1,493.08	103.68	154,802	464,406.15	464,406	1,680.00	1,680	0.00	0	620,888.19	620,888
A30-70-384.00	25 kV Feeders (Teck Cables) Terminations	1. lot	2,049.54	1.30	2,664.40	103.68	276,245	69,061.34	69,061	0.00	0	0.00	0	345,306.71	345,307
A30-70-385.00	Transformers (Including Grounding Resistors)	1. lot	7,671.18	1.30	9,972.53	103.68	1,033,952	4,536.00	4,536	35,136.00	35,136	3,060,498.89	3,060,499	4,134,123.22	4,134,123
A30-70-386.00	Bus/Cable Duct From Transformer Secondaries	1. lot	13,098.09	1.30	17,027.51	103.68	1,765,413	7,061,650.56	7,061,651	960.00	960	0.00	0	8,828,023.19	8,828,023
A30-70-387.00	Cable Terminations From Transformer Secondaries	1. lot	114.08	1.30	148.30	103.68	15,376	3,844.03	3,844	96.00	96	0.00	0	19,316.16	19,316
A30-70-388.00	4kV MCCs (Per Section - Without Starter)	1. lot	1,946.41	1.30	2,530.34	103.68	262,345	320,644.33	320,644	720.00	720	0.00	0	583,709.70	583,710
A30-70-389.00	600 V PDCs (4 Bkr Sections)	1. lot	4,144.65	1.30	5,388.04	103.68	558,632	670,358.58	670,359	9,600.00	9,600	0.00	0	1,238,590.72	1,238,591
A30-70-390.00	Cable From 600V PDC To 600V MCC	1. lot	56.26	1.30	73.14	103.68	7,583	11,375.08	11,375	48.00	48	0.00	0	19,006.46	19,006
A30-70-391.00	Cable Terminations From 600V PDC To 600V MCC	1. lot	119.38	1.30	155.19	103.68	16,090	5,363.29	5,363	48.00	48	0.00	0	21,501.17	21,501
A30-70-392.00	600 V MCC (Per Section - Without Starters, Includes HVAC)	1. lot	2,585.91	1.30	3,361.68	103.68	348,539	387,265.53	387,266	38,726.55	38,727	0.00	0	774,531.05	774,531



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A30-70-393.00	Equipment Feeders (Motor Starters/Feeders/Control Stations)	1. lot	73,675.24	1.30	95,777.81	103.68	9,930,244	171,067.20	171,067	527,923.19	527,923	22,508,552.11	22,508,552	33,137,786.08	33,137,786
A30-70-394.00	Building/Area Grounding	1. lot	1,672.22	1.30	2,173.89	103.68	225,389	270,466.64	270,467	7,392.00	7,392	0.00	0	503,247.51	503,248
A30-70-395.00	Outdoor Lighting	1. lot	1,563.63	1.30	2,032.72	103.68	210,752	136,988.89	136,989	4,320.00	4,320	0.00	0	352,061.02	352,061
A30-70-396.00	Cable Tray (Total For All Areas)	1. lot	29,216.23	1.30	37,981.10	103.68	3,937,880	1,687,663.06	1,687,663	14,400.00	14,400	0.00	0	5,639,943.53	5,639,944
A30-70-397.00	Indoor Power/Light/Welding	1. lot	14,183.88	1.30	18,439.05	103.68	1,911,760	337,369.45	337,369	5,376.00	5,376	0.00	0	2,254,505.69	2,254,506
A30-70-398.00	Plant Fire Alarm System	1. lot	952.36	1.30	1,238.07	103.68	128,363	960.00	960	960.00	960	385,090.43	385,090	515,373.90	515,374
A30-70-399.00	Allowance For HVAC	1. lot	943.46	1.30	1,226.50	103.68	127,163	960.00	960	960.00	960	381,490.43	381,490	510,573.90	510,574
A30-70-400.00	Allowance For Heat Trace	1. lot	1,179.27	1.30	1,533.05	103.68	158,947	635,787.12	635,787	4,800.00	4,800	0.00	0	799,533.90	799,534
A30-70-401.00	Temp Construction Power (incl temp power generator/camp power req'ments)	2. lot	4,635.82	1.30	12,053.14	103.68	1,249,670	0.00	0	1,920.00	3,840	416,556.51	833,113	1,043,311.28	2,086,623
A30-70-402.00	Duct Banks (Substation To Xfms And Xfms To PDC)	1. lot	48,225.57	1.30	62,693.24	103.68	6,500,035	1,733,342.57	1,733,343	433,335.64	433,336	0.00	0	8,666,712.85	8,666,713
A30-70-403.00	[Y7] - 5 MW of future power peaking generation Assume 14,000kW x \$1,600/kW, (Sustaining Capital CAD\$22,400,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A30 - Plantsite Power Supply & Distribution Subtotal					330,681.69		34,285,077		21,300,542		1,744,018		29,521,711		86,851,348
<u>A40 - Plant Control System</u>															
A40-80-405.00	DCS Allowance - Kerr/Mitchell - including Training	1. lot	700.00	1.30	910.00	103.68	94,349	408,575.99	408,576	9,600.00	9,600	1,199,999.97	1,200,000	1,712,524.76	1,712,525
A40-80-406.00	Fibre Optic Cable	1. lot	400.00	1.30	520.00	103.68	53,914	96,000.00	96,000	12,672.00	12,672	0.00	0	162,585.60	162,586
A40-80-407.00	Cables	1. lot	650.00	1.30	845.00	103.68	87,610	174,528.00	174,528	9,600.00	9,600	0.00	0	271,737.59	271,738
A40-80-408.00	Hardware	1. lot	350.00	1.30	455.00	103.68	47,174	57,408.00	57,408	7,680.00	7,680	144,000.00	144,000	256,262.39	256,262



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
A40-80-409.00	Software	1. lot	0.00	1.30	0.00	103.68	0	192,000.00	192,000	0.00	0	0.00	0	192,000.00	192,000
A40 - Plant Control System Subtotal					2,730.00		283,046		928,512		39,552		1,344,000		2,595,110
<u>A50 - Communication</u>															
A50-70-411.00	Surface Communication Satellite System - Kerr/Mitchell	1. lot	2,000.00	1.30	2,600.00	103.68	269,568	192,000.00	192,000	48,000.00	48,000	1,023,359.98	1,023,360	1,532,927.97	1,532,928
A50-70-412.00	Plant Communications System	1. lot	2,500.00	1.30	3,250.00	103.68	336,960	431,999.99	432,000	14,400.00	14,400	959,999.98	960,000	1,743,359.96	1,743,360
A50-70-413.00	Satellite Broadband Monthly Charges during Construction allowance	60. mth	0.00	1.30	0.00	103.68	0	24,000.00	1,440,000	0.00	0	0.00	0	24,000.00	1,440,000
A50 - Communication Subtotal					5,850.00		606,528		2,064,000		62,400		1,983,360		4,716,288
<u>A60 - Yard Lighting</u>															
A60-70-415.00	Tower Lights - 20 locations Areas not covered by Building Lighting (Includes Lighting at Portals)	20. ea	120.00	1.30	3,120.00	103.68	323,482	30,720.00	614,400	240.00	4,800	0.00	0	47,134.08	942,682
A60-70-416.00	Concrete bases	60. m3	7.00	1.30	546.00	103.68	56,609	643.20	38,592	19.20	1,152	0.00	0	1,605.89	96,353
A60 - Yard Lighting Subtotal					3,666.00		380,091		652,992		5,952		0		1,039,035
<u>A70 - Low Level Water Treatment Pipeline</u>															
A70-1.02-418.00	Buried Pipeline in Rock - Excavation 1350m*4m2 Dam to Sulphurets Creek, Phase 1	5,400. m3	0.20	1.30	1,404.00	103.68	145,567	0.00	0	3.84	20,736	0.00	0	30.80	166,303
A70-1.02-419.00	Buried Pipeline in Rock - Backfill 1350m*2.25m2, Phase 1	3,037.5 m3	0.15	1.30	592.31	103.68	61,411	4.80	14,580	3.36	10,206	0.00	0	28.38	86,197
A70-1.02-420.00	HD CS Pipe - HDPE Lined - 800mm (DR 26 Tite Liner), Phase 1	1,350. m	1.00	1.30	1,755.00	103.68	181,958	388.24	524,118	3.84	5,184	0.00	0	526.86	711,260
A70-1.02-421.00	Miscellaneous Fittings/Valves, Phase 1	1. sum	300.00	1.30	390.00	103.68	40,435	43,200.00	43,200	2,400.00	2,400	0.00	0	86,035.20	86,035
A70-1.02-422.00	Tie-ins etc, Phase 1	1. sum	100.00	1.30	130.00	103.68	13,478	4,800.00	4,800	480.00	480	0.00	0	18,758.40	18,758
A70 - Low Level Water Treatment Pipeline Subtotal					4,271.31		442,850		586,698		39,006		0		1,068,553
<u>B10 - Open Pit - Pre-production [Operating]</u>															
B10-8-424.00	[OPS] - [Y-1] Drilling, (included in Operating Capital)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
B10-8-425.00	[OPS] - [Y-1] Blasting, (included in Operating Capital)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B10-8-426.00	[OPS] - [Y-1] Loading, (included in Operating Capital)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B10-8-427.00	[OPS] - [Y-1] Hauling, (included in Operating Capital)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B10-8-428.00	[OPS] - [Y-1] Mine Maintenance, (included in Operating Capital)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B10-8-429.00	[OPS] - [Y-1] Mine Operations - Support, (included in Operating Capital)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B10-8-430.00	[OPS] - [Y-1] Snow Removal, (included in Operating Capital)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B10-8-431.00	[OPS] - [Y-1] Geotech, (included in Operating Capital)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B10-8-432.00	[OPS] - [Y-1] Unallocated Labour Cost, (included in Operating Capital)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B10-8-433.00	[OPS] - [Y-1] Mine Ops G&A - \$'S, (included in Operating Capital)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B10-8-434.00	[OPS] - [Y-1] Mine Maintenance G&A - \$'S, (included in Operating Capital)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B10-8-435.00	[OPS] - [Y-1] Mine Engineering G&A, (included in Operating Capital)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B10-8-436.00	[OPS] - [Y-1] Technical Services G&A, (included in Operating Capital)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B10 - Open Pit - Pre-production [Operating] Subtotal					0.00	0	0	0	0	0	0	0	0	0	0
<u>B12 - Open Pit - Mobile Equipment</u>															
B12-9-438.00	Drilling Secondary Drill Drill - Diesel Hydraulic - 311mm	3. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	3,801,599.92	11,404,800	3,801,599.92	11,404,800
B12-9-439.00	Drilling Highwall Drill Drill - Diesel Hydraulic - 150mm	4. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	1,048,319.98	4,193,280	1,048,319.98	4,193,280
B12-9-440.00	Blasting Blast hole stemmer FEL Blast Hole Stemmer - 111kW -	2. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	240,455.99	480,912	240,455.99	480,912



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
B12-9-441.00	Loading: Major Loading Ore & Waste Hydraulic Shovel - 40m3 -	2. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	14,615,999.67	29,231,999	14,615,999.67	29,231,999
B12-9-442.00	Loading: Support Shovel Support Dozer - 433kW -	6. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	1,562,629.57	9,375,777	1,562,629.57	9,375,777
B12-9-443.00	Loading: Support Pit Clean Up Wheel Dozer - 372kW -	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	1,223,985.94	1,223,986	1,223,985.94	1,223,986
B12-9-444.00	Loading: Support Shovel Fueling & Lube Fuel / Lube Truck - 4000gal -	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	1,027,373.40	1,027,373	1,027,373.40	1,027,373
B12-9-445.00	Loading: Support Pit clean up FEL - 373kW -	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	1,087,349.11	1,087,349	1,087,349.11	1,087,349
B12-9-446.00	Hauling: Major Rental - Hauling Ore/Waste Haul Truck - 363t -	18. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	0.00	0	0.00	0
B12-9-447.00	Hauling: Support Haul Roads Water Truck Water Truck - 20 000gal -	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	2,072,319.10	2,072,319	2,072,319.10	2,072,319
B12-9-448.00	Hauling: Support Dump Maintenance Dozer - 433kW -	3. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	1,562,629.57	4,687,889	1,562,629.57	4,687,889
B12-9-449.00	Hauling: Support Road Grading Grader - 397kW -	2. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	1,899,215.96	3,798,432	1,899,215.96	3,798,432
B12-9-450.00	Hauling: Support Tires 373 kW FEL - Tire Manipulator -	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	1,058,399.98	1,058,400	1,058,399.98	1,058,400
B12-9-451.00	Pit Maintenance Pit Support Dozer - 433kW -	2. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	1,562,629.57	3,125,259	1,562,629.57	3,125,259
B12-9-452.00	Pit Maintenance Float tractor & trailer Tractor/Trailer - 170t -	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	3,712,046.69	3,712,047	3,712,046.69	3,712,047
B12-9-453.00	Pit Maintenance Utility Excavator Excavator - 390kW -	2. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	1,174,650.55	2,349,301	1,174,650.55	2,349,301
B12-9-454.00	Pit Maintenance Pit Sump Dewatering Water Pump - 1400 gal/min -	3. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	46,166.40	138,499	46,166.40	138,499
B12-9-455.00	Pit Maintenance Lighting plant Light Plant - 20kW -	4. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	25,113.60	100,454	25,113.60	100,454
B12-9-456.00	Pit Maintenance Utility Crane Crane - 250t -	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	2,695,679.94	2,695,680	2,695,679.94	2,695,680



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
B12-9-457.00	Pit Maintenance Supervision and Crew transportation Crew Cab Pickup -	15. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	36,480.00	547,200	36,480.00	547,200
B12-9-458.00	Pit Maintenance Ambulance Ambulance -	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	67,200.00	67,200	67,200.00	67,200
B12-9-459.00	Pit Maintenance Utility Excavator Excavator - 283kW -	7. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	558,729.59	3,911,107	558,729.59	3,911,107
B12-9-460.00	Pit Maintenance Rescue Truck Mine Rescue Truck -	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	86,400.00	86,400	86,400.00	86,400
B12-9-461.00	Pit Maintenance Crew Bus 47 passenger -	3. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	91,200.00	273,600	91,200.00	273,600
B12-9-462.00	Pit Maintenance Service truck Maintenance Truck - 1t -	3. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	53,760.00	161,280	53,760.00	161,280
B12-9-463.00	Pit Maintenance Fire Truck Fire Truck -	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	316,799.99	316,800	316,799.99	316,800
B12-9-464.00	Pit Maintenance Road Crush & Stemming Mobile Screening Plant -	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	344,759.99	344,760	344,759.99	344,760
B12-9-465.00	Pit Maintenance maintenance + overhauls Picker Truck -	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	287,999.99	288,000	287,999.99	288,000
B12-9-466.00	Pit Maintenance crush haul for winter roads, ice mining, drill steels etc. Scraper - 345kW -	3. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	1,370,687.97	4,112,064	1,370,687.97	4,112,064
B12-9-467.00	Pit Maintenance Utility Crane Crane - 100t -	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	1,995,839.96	1,995,840	1,995,839.96	1,995,840
B12-9-468.00	Pit Maintenance crusher (road crush) loader FEL - 373kW -	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	1,087,349.11	1,087,349	1,087,349.11	1,087,349
B12-9-469.00	Pit Maintenance 0 Snow Cat - 8 passenger -	3. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	190,080.00	570,240	190,080.00	570,240
B12-9-470.00	Pit Maintenance Utility Crane Crane - 40t -	2. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	921,023.98	1,842,048	921,023.98	1,842,048
B12-9-471.00	Pit Maintenance Forklift Forklift - 30t -	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	562,732.79	562,733	562,732.79	562,733
B12-9-472.00	Pit Maintenance Forklift Forklift - 10t -	2. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	162,816.00	325,632	162,816.00	325,632



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
B12-9-473.00	Pit Maintenance Service Truck Service Truck -	2. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	136,320.00	272,640	136,320.00	272,640
B12-9-474.00	Pit Maintenance Welding Truck Welding Truck -	2. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	120,000.00	240,000	120,000.00	240,000
B12-9-475.00	Pit Maintenance Powerline Maintenance Powerline Truck -	2. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	134,400.00	268,800	134,400.00	268,800
B12-9-476.00	Additional Assembly During Ice Road Delivery	1. lot	0.00	1.30	0.00	103.68	0	1,998,246.57	1,998,247	0.00	0	0.00	0	1,998,246.57	1,998,247
B12-9-477.00	Preproduction Replacement Capital	1. lot	0.00	1.30	0.00	103.68	0	629,932.79	629,933	0.00	0	0.00	0	629,932.79	629,933
B12-9-478.00	Drilling Primary Drill Drill - Electric - 311mm, (10% in [Y-1] and 90% in [Y1])	3. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	534,868.31	1,604,605	534,868.31	1,604,605
B12-9-479.00	Loading: Major Loading Ore & Waste Electric Shovel - 56m3 -, (10% in [Y-1] and 90% in [Y1])	3. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	3,067,143.97	9,201,432	3,067,143.97	9,201,432
B12-9-480.00	Loading: Support Pit Clean Up Wheel Dozer - 372kW -, (10% in [Y-1] and 90% in [Y1])	2. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	122,398.59	244,797	122,398.59	244,797
B12-9-481.00	Loading: Support Shovel Fueling & Lube Fuel / Lube Truck - 4000gal -, (10% in [Y-1] and 90% in [Y1])	2. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	102,737.34	205,475	102,737.34	205,475
B12-9-482.00	Loading: Support Pit clean up FEL - 373kW -, (10% in [Y-1] and 90% in [Y1])	2. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	108,734.91	217,470	108,734.91	217,470
B12-9-483.00	Hauling: Major Hauling Ore/Waste Haul Truck - 363t -, (10% in [Y-1] and 90% in [Y1])	31. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	765,607.86	23,733,844	765,607.86	23,733,844
B12-9-484.00	Hauling: Major Rental - Hauling Ore/Waste Haul Truck - 363t -, (10% in [Y-1] and 90% in [Y1])	4. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	0.00	0	0.00	0
B12-9-485.00	Hauling: Support Haul Roads Water Truck Water Truck - 20 000gal -, (10% in [Y-1] and 90% in [Y1])	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	207,231.91	207,232	207,231.91	207,232
B12-9-486.00	Hauling: Support Dump Maintenance Dozer - 433kW -, (10% in [Y-1] and 90% in [Y1])	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	156,262.96	156,263	156,262.96	156,263
B12-9-487.00	Hauling: Support Road Grading Grader - 397kW -, (10% in [Y-1] and 90% in [Y1])	2. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	189,921.60	379,843	189,921.60	379,843
B12-9-488.00	Hauling: Support Tires 373 kW FEL - Tire Manipulator -, (10% in [Y-1] and 90% in [Y1])	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	105,840.00	105,840	105,840.00	105,840



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
B12-9-489.00	Pit Maintenance Pit Sump Dewatering Water Pump - 1400 gal/min -, (10% in [Y-1] and 90% in [Y1])	3. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	4,616.64	13,850	4,616.64	13,850
B12-9-490.00	Pit Maintenance Lighting plant Light Plant - 20kW -, (10% in [Y-1] and 90% in [Y1])	2. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	2,511.36	5,023	2,511.36	5,023
B12-9-491.00	Pit Maintenance Utility Crane Crane - 250t -, (10% in [Y-1] and 90% in [Y1])	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	269,567.99	269,568	269,567.99	269,568
B12-9-492.00	Pit Maintenance Supervision and Crew transportation Crew Cab Pickup -, (10% in [Y-1] and 90% in [Y1])	3. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	3,648.00	10,944	3,648.00	10,944
B12-9-493.00	Pit Maintenance Crew Bus 47 passenger -, (10% in [Y-1] and 90% in [Y1])	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	9,120.00	9,120	9,120.00	9,120
B12-9-494.00	Pit Maintenance Service truck Maintenance Truck - 1t -, (10% in [Y-1] and 90% in [Y1])	2. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	5,376.00	10,752	5,376.00	10,752
B12-9-495.00	Pit Maintenance maintenance + overhauls Picker Truck -, (10% in [Y-1] and 90% in [Y1])	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	28,800.00	28,800	28,800.00	28,800
B12-9-496.00	Pit Maintenance crush haul for winter roads, ice mining, drill steels etc. Scraper - 345kW -, (10% in [Y-1] and 90% in [Y1])	2. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	137,068.80	274,138	137,068.80	274,138
B12-9-497.00	Pit Maintenance Utility Crane Crane - 100t -, (10% in [Y-1] and 90% in [Y1])	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	199,584.00	199,584	199,584.00	199,584
B12-9-498.00	Pit Maintenance Snow Cat - 8 passenger -, (10% in [Y-1] and 90% in [Y1])	3. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	19,008.00	57,024	19,008.00	57,024
B12-9-499.00	Pit Maintenance Service Truck Service Truck -, (10% in [Y-1] and 90% in [Y1])	3. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	13,632.00	40,896	13,632.00	40,896
B12-9-500.00	Pit Maintenance Welding Truck Welding Truck -, (10% in [Y-1] and 90% in [Y1])	2. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	12,000.00	24,000	12,000.00	24,000
B12-9-501.00	[Y1] - Sustaining Capital, (90% in [Y1] Sustaining Capital CAD\$347,349,481)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B12-9-502.00	[Y2] - Sustaining Capital, (Sustaining Capital CAD\$78,480)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B12-9-503.00	[Y3] - Sustaining Capital, (Sustaining Capital CAD\$8,381,262)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B12-9-504.00	[Y4] - Sustaining Capital, (Sustaining Capital CAD\$2,745,279)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
B12-9-505.00	[Y5] - Sustaining Capital, (Sustaining Capital CAD\$19,413,275)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B12-9-506.00	[Y6-10] - Sustaining Capital, (Sustaining Capital CAD\$42,915,529)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B12-9-507.00	[Y11-20] - Sustaining Capital, (Sustaining Capital CAD\$20,111,012)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B12-9-508.00	[Y21-30] - Sustaining Capital, (Sustaining Capital CAD\$82,421,125)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B12-9-512.00	Assembly of Mobile Equipment, included in unit rates	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B12-9-513.00	Initial Servicing of Mobile Equipment, included in unit rates	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B12 - Open Pit - Mobile Equipment Subtotal					0.00		0		2,628,179		0		136,037,948		138,666,128
<u>B14 - Open Pit - Explosive Storage</u>															
B14-8-515.00	Open Pit - Explosive Storage c/w buildings and equipment	1. lot	3,000.00	1.30	3,900.00	103.68	404,352	1,175,999.97	1,176,000	48,000.00	48,000	8,159,999.82	8,160,000	9,788,351.78	9,788,352
B14 - Open Pit - Explosive Storage Subtotal					3,900.00		404,352		1,176,000		48,000		8,160,000		9,788,352
<u>B16 - Open Pit - Dewatering including vert and horizontal wells</u>															
B16-8-517.00	Mitchell site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system	50. ea	583.33	1.00	29,166.67	103.68	3,024,000	8,640.00	432,000	25,920.00	1,296,000	77,760.00	3,888,000	172,800.00	8,640,000
B16-8-518.00	[Y1] - Mitchell site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$3,600,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-519.00	[Y2] - Mitchell site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$4,680,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-520.00	[Y3] - Mitchell site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$4,680,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-521.00	[Y4] - Mitchell site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$4,680,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-522.00	[Y5] - Mitchell site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$4,680,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-523.00	[Y6] - Mitchell site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$4,680,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
B16-8-524.00	[Y7] - Mitchell site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$4,680,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-525.00	[Y8] - Mitchell site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$6,840,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-526.00	[Y9] - Mitchell site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$6,840,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-527.00	[Y10] - Mitchell site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$6,840,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-528.00	[Y11] - Mitchell site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$6,840,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-529.00	[Y12] - Mitchell site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$6,840,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-530.00	[Y13] - Mitchell site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$6,840,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-531.00	[Y14] - Mitchell site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$6,840,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-532.00	[Y15] - Mitchell site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$6,840,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-533.00	[Y16] - Mitchell site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$6,840,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-534.00	[Y17] - Mitchell site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$6,840,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-535.00	[Y18] - Mitchell site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$6,840,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-536.00	[Y19] - Mitchell site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$6,840,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-537.00	[Y20] - Mitchell site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$6,840,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-538.00	[Y21] - Mitchell site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$6,840,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-539.00	[Y22] - Mitchell site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$6,840,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
B16-8-540.00	Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system	20. ea	583.33	1.00	11,666.67	103.68	1,209,600	8,640.00	172,800	25,920.00	518,400	77,760.00	1,555,200	172,800.00	3,456,000
B16-8-541.00	[Y1] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$1,440,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-542.00	[Y2] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,160,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-543.00	[Y3] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,160,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-544.00	[Y4] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,160,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-545.00	[Y5] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,160,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-546.00	[Y6] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,160,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-547.00	[Y7] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,160,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-548.00	[Y8] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,160,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-549.00	[Y9] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,160,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-550.00	[Y10] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,160,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-551.00	[Y11] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,160,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-552.00	[Y12] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,160,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-553.00	[Y13] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,160,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-554.00	[Y14] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,160,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-555.00	[Y15] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,160,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
B16-8-556.00	[Y16] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,160,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-557.00	[Y17] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,160,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-558.00	[Y18] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,160,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-559.00	[Y19] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,700,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-560.00	[Y20] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,700,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-561.00	[Y21] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,700,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-562.00	[Y22] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,700,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-563.00	[Y23] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,700,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-564.00	[Y24] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,700,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-565.00	[Y25] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,700,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-566.00	[Y26] - Sulphurets site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,700,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-567.00	[Y24] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$1,260,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-568.00	[Y25] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$1,260,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-569.00	[Y26] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$1,260,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-570.00	[Y27] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$1,260,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-571.00	[Y28] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$1,260,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
B16-8-572.00	[Y29] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$1,260,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-573.00	[Y30] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$1,260,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-574.00	[Y31] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$1,260,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-575.00	[Y32] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$1,260,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-576.00	[Y33] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,340,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-577.00	[Y34] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,340,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-578.00	[Y35] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,340,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-579.00	[Y36] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,340,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-580.00	[Y37] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,340,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-581.00	[Y38] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,340,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-582.00	[Y39] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,340,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-583.00	[Y40] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,340,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-584.00	[Y41] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,340,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-585.00	[Y42] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$2,340,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-586.00	[Y43] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$3,240,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-587.00	[Y44] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$3,240,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
B16-8-588.00	[Y45] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$3,240,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-589.00	[Y46] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$3,240,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-590.00	[Y47] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$3,240,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-591.00	[Y48] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$3,240,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-592.00	[Y49] - Kerr site - Vertical Wells (200m each) based on Barber Dual Rotary c/w casing / HDD Hammer c/w steel casing, and pumping system, (Sustaining Capital CAD\$3,240,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16-8-596.00	Horizontal Wells/Drains (included in Mining)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B16 - Open Pit - Dewatering including vert and horizontal wells Subtotal					40,833.33		4,233,600		604,800		1,814,400		5,443,200		12,096,000
B17 - Open Pit - Electrical															
B17-70-598.00	25 kV Overhead Line (Includes Fused Cutouts)	1. lot	3,692.31	1.30	4,800.00	103.68	497,664	633,599.99	633,600	230,399.99	230,400	0.00	0	1,361,663.97	1,361,664
B17-70-599.00	25 kV Feeders (Teck Cables)	1. lot	346.15	1.30	450.00	103.68	46,656	282,153.59	282,154	960.00	960	8,726.40	8,726	338,495.99	338,496
B17-70-600.00	25 kV Feeders (Teck Cables) Terminations	1. lot	43.08	1.30	56.00	103.68	5,806	2,544.00	2,544	51.84	52	0.00	0	8,401.92	8,402
B17-70-601.00	Transformers (Including Grounding Resistors)	1. lot	707.69	1.30	920.00	103.68	95,386	163,814.40	163,814	4,992.00	4,992	1,474,329.57	1,474,330	1,738,521.56	1,738,522
B17-70-602.00	Bus/Cable Duct From Transformer Secondaries	1. lot	76.92	1.30	100.00	103.68	10,368	73,920.00	73,920	4.80	5	0.00	0	84,292.80	84,293
B17-70-603.00	Cable Terminations From Transformer Secondaries	1. lot	344.62	1.30	448.00	103.68	46,449	23,616.00	23,616	69.12	69	0.00	0	70,133.76	70,134
B17-70-604.00	7.2 kV S/G	1. lot	1,891.40	1.30	2,458.82	103.68	254,931	642,239.99	642,240	11,520.00	11,520	0.00	0	908,690.80	908,691
B17-70-605.00	600 V PDCs (4 Bkr Sections)	1. lot	123.08	1.30	160.00	103.68	16,589	47,040.00	47,040	576.00	576	0.00	0	64,204.80	64,205
B17-70-606.00	Cable From 600V PDC To 600V MCC	1. lot	40.00	1.30	52.00	103.68	5,391	19,488.00	19,488	65.28	65	0.00	0	24,944.64	24,945



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
B17-70-607.00	Cable Terminations From 600V PDC To 600V MCC	1. lot	12.31	1.30	16.00	103.68	1,659	1,137.60	1,138	6.72	7	0.00	0	2,803.20	2,803
B17-70-608.00	600 V MCC (Per Section - Without Starters, Includes HVAC)	1. lot	98.46	1.30	128.00	103.68	13,271	1,920.00	1,920	3,072.00	3,072	31,872.00	31,872	50,135.04	50,135
B17-70-609.00	Motor Starters/Feeders/Control Stations	1. lot	127.69	1.30	166.00	103.68	17,211	101,025.60	101,026	4,262.40	4,262	54,398.40	54,398	176,897.28	176,897
B17-70-610.00	Trailing Cables In Pit	1. lot	923.08	1.30	1,200.00	103.68	124,416	1,742,399.96	1,742,400	11,520.00	11,520	0.00	0	1,878,335.96	1,878,336
B17-70-611.00	[Y22] - Portable unit substation, 25 kV to 7200 volts, 25 kV primary circuit breaker, 7.5 MVS transformer 25 - 7.2 kV, delta-wye, neutral grounding resistor, each with 3 feeder circuit breakers with ground fault and pilot wire check protection, mounted on used h, (Sustaining Capital CAD\$1,148,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-612.00	[Y22] - Portable unit substation, 7.2 kV to 600 volts, 500 kVA c/w neutral grounding resistor, cable ground fault and pilot wire protection, secondary contactors and circuit breakers, mounted on 2 axel trailer suitable for towing by Super Duty pickup, to power low, (Sustaining Capital CAD\$252,002)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-613.00	[Y22] - Trailing cable couplers, 8kV, 400 A cable mount plug c/w entrance fitting gasket kit, (Sustaining Capital CAD\$20,396)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-614.00	[Y22] - 8kV, 400 A cable mount male coupler c/w entrance fitting gasket kit, (Sustaining Capital CAD\$21,400)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-615.00	[Y22] - 8kV, 250 A cable mount male coupler c/w entrance fitting gasket kit, (Sustaining Capital CAD\$11,446)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-616.00	[Y22] - 8kV, 400 A equipment (panel) mount female coupler, (Sustaining Capital CAD\$7,524)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-617.00	[Y22] - 8kV, 250 A equipment (panel) mount female coupler, (Sustaining Capital CAD\$10,899)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-618.00	[Y22] - Skid mount cable coupler couple (female), 8 kV, 400 amp, to join trailing cable, (Sustaining Capital CAD\$25,800)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-619.00	[Y22] - Skid mount cable coupler (female), 8 kV, 250 amp, to join trailing cable, (Sustaining Capital CAD\$32,800)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-620.00	[Y22] - 600 volt cable connectors, cable and equipment mount, (Sustaining Capital CAD\$10,560)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-621.00	[Y22] - Factory installation of 400 Amp couplers on cable (cable by others) c/w potting compound, (Sustaining Capital CAD\$9,380)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-622.00	[Y22] - Factory installation of 250 Amp couplers on cable (cable by others) c/w potting compound, (Sustaining Capital CAD\$13,400)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
B17-70-623.00	[Y22] - Misc. fittings, gaskets, compound, etc. factory installed, (Sustaining Capital CAD\$11,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-624.00	[Y22] - 25 kV, pole mount vacuum recloser to protect 25 kV cable to portable switch houses c/w sensitive (zero sequence) earth fault protection, over current protection and pilot wire protection, all self contained., (Sustaining Capital CAD\$128,400)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-625.00	[Y22] - 25 kV manual air break switch to be used with reclosers above. C/W operating handle, ground mat, etc., (Sustaining Capital CAD\$64,200)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-626.00	[Y22] - Set of three 25 kV distribution class lightning arresters, (Sustaining Capital CAD\$7,200)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-627.00	[Y22] - 8 kV Trailing Cable, SHD-GC, 2/0 AWG, CPE Jacket, for 7200 V shovels, (Sustaining Capital CAD\$183,500)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-628.00	[Y22] - 8 kV Trailing Cable, SHD-GC, 2 AWG, CPE Jacket, for drills, (Sustaining Capital CAD\$144,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-629.00	[Y22] - 25 kV Trailing Cable, SHD-GC, 1/0 AWG, CPE Jacket, for portable sub primary connections, (Sustaining Capital CAD\$69,900)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-630.00	[Y22] - 2 kV, Type G-GC, # 2 AWG, (600 volt use) trailing cable, SHD-GC, xx AWG, for use to supply pumps and other 600 volt loads., (Sustaining Capital CAD\$19,200)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-631.00	[Y22] - Misc. including breakout boots, cable grips, etc., (Sustaining Capital CAD\$28,188)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-632.00	[Y22] - Trailing cable splice kit, 8 kV, (for future operations repairs), (Sustaining Capital CAD\$5,200)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-633.00	[Y22] - Temporary Grounding At Unit Subs - First Installation; Ground wire, 2/0 AWG, (Sustaining Capital CAD\$10,913)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-634.00	[Y22] - Temporary Grounding At Unit Subs - First Installation; Ground Connectors, compression, (Sustaining Capital CAD\$6,422)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-635.00	[Y22] - 25 kV Pit Pole line, 466 MCM with same size overhead ground wire,, (Sustaining Capital CAD\$740,500)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-636.00	[Y22] - Pole line c/w air switches, reclosers, lightning arresters, road crossings, etc., (Sustaining Capital CAD\$147,063)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-637.00	[Y26] - Portable unit substation, 25 kV to 7200 volts, 25 kV primary circuit breaker, 7.5 MVS transformer 25 - 7.2 kV, delta-wye, neutral grounding resistor, each with 3 feeder circuit breakers with ground fault and pilot wire check protection, mounted on used h, (Sustaining Capital CAD\$1,722,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
B17-70-638.00	[Y26] - Portable unit substation, 7.2 kV to 600 volts,500 kVA c/w neutral grounding resistor, cable ground fault and pilot wire protection, secondary contactors and circuit breakers, mounted on 2 axel trailer suitable for towing by Super Duty pickup, to power low, (Sustaining Capital CAD\$504,004)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-639.00	[Y26] - Trailing cable couplers, 8kV, 400 A cable mount plug c/w entrance fitting gasket kit, (Sustaining Capital CAD\$29,883)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-640.00	[Y26] - 8kV, 400 A cable mount male coupler c/w entrance fitting gasket kit, (Sustaining Capital CAD\$31,353)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-641.00	[Y26] - 8kV, 250 A cable mount male coupler c/w entrance fitting gasket kit, (Sustaining Capital CAD\$16,423)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-642.00	[Y26] - 8kV, 400 A equipment (panel) mount female coupler, (Sustaining Capital CAD\$7,524)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-643.00	[Y26] - 8kV, 250 A equipment (panel) mount female coupler, (Sustaining Capital CAD\$10,899)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-644.00	[Y26] - Skid mount cable coupler couple (female), 8 kV, 400 amp, to join trailing cable, (Sustaining Capital CAD\$25,800)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-645.00	[Y26] - Skid mount cable coupler (female) , 8 kV, 250 amp, to join trailing cable, (Sustaining Capital CAD\$32,800)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-646.00	[Y26] - 600 volt cable connectors, cable and equipment mount, (Sustaining Capital CAD\$10,560)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-647.00	[Y26] - Factory installation of 400 Amp couplers on cable (cable by others) c/w potting compound, (Sustaining Capital CAD\$9,380)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-648.00	[Y26] - Factory installation of 250 Amp couplers on cable (cable by others) c/w potting compound, (Sustaining Capital CAD\$13,400)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-649.00	[Y26] - Misc. fittings, gaskets, compound, etc. factory installed, (Sustaining Capital CAD\$11,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-650.00	[Y26] - 25 kV, pole mount vacuum recloser to protect 25 kV cable to portable switch houses c/w sensitive (zero sequence) earth fault protection, over current protection and pilot wire protection, all self contained., (Sustaining Capital CAD\$128,400)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-651.00	[Y26] - 25 kV manual air break switch to be used with reclosers above. C/W operating handle, ground mat, etc., (Sustaining Capital CAD\$64,200)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-652.00	[Y26] - Set of three 25 kV distribution class lightning arresters, (Sustaining Capital CAD\$7,200)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-653.00	[Y26] - 8 kV Trailing Cable, SHD-GC, 2/0 AWG, CPE Jacket, for 7200 V shovels, (Sustaining Capital CAD\$275,250)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
B17-70-654.00	[Y26] - 8 kV Trailing Cable, SHD-GC, 2 AWG, CPE Jacket, for drills, (Sustaining Capital CAD\$216,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-655.00	[Y26] - 25 kV Trailing Cable, SHD-GC, 1/0 AWG, CPE Jacket, for portable sub primary connections, (Sustaining Capital CAD\$104,850)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-656.00	[Y26] - 2 kV, Type G-GC, # 2 AWG, (600 volt use) trailing cable, SHD-GC, xx AWG, for use to supply pumps and other 600 volt loads., (Sustaining Capital CAD\$38,400)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-657.00	[Y26] - Misc. including breakout boots, cable grips, etc., (Sustaining Capital CAD\$37,750)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-658.00	[Y26] - Trailing cable splice kit, 8 kV, (for future operations repairs), (Sustaining Capital CAD\$7,800)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-659.00	[Y26] - Temporary Grounding At Unit Subs - First Installation; Ground wire, 2/0 AWG, (Sustaining Capital CAD\$18,188)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-660.00	[Y26] - Temporary Grounding At Unit Subs - First Installation; Ground Connectors, compression, (Sustaining Capital CAD\$9,633)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-661.00	[Y26] - 25 kV Pit Pole line, 466 MCM with same size overhead ground wire,, (Sustaining Capital CAD\$1,018,188)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17-70-662.00	[Y26] - Pole line c/w air switches, reclosers, lightning arresters, road crossings, etc., (Sustaining Capital CAD\$181,588)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B17 - Open Pit - Electrical Subtotal					10,954.82		1,135,796		3,734,899		267,500		1,569,326		6,707,522
<u>B18 - Open Pit - Communication</u>															
B18-8-664.00	Communication System	1. lot	0.00	1.30	0.00	103.68	0	383,999.99	384,000	0.00	0	0.00	0	383,999.99	384,000
B18-8-665.00	[Y1-55] - Communication System, (Sustaining Capital CAD\$400,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B18 - Open Pit - Communication Subtotal					0.00		0		384,000		0		0		384,000
<u>B19 - Open Pit - Safety</u>															
B19-8-667.00	Open Pit - Safety allowance (allowed \$500 per person)	1. lot	0.00	1.30	0.00	103.68	0	144,000.00	144,000	0.00	0	0.00	0	144,000.00	144,000
B19 - Open Pit - Safety Subtotal					0.00		0		144,000		0		0		144,000
<u>B20 - Open Pit - Engineering Equipment</u>															
B20-8-669.00	Groundprobe SSRXT Slope Stability Radar monitoring units	1. ea	0.00	1.30	0.00	103.68	0	911,999.98	912,000	0.00	0	0.00	0	911,999.98	912,000



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
B20-8-670.00	[Y22] - Sulphurets Pit - Groundprobe SSRXT Slope Stability Radar monitoring units (1 unit), (Sustaining Capital CAD\$950,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B20-8-671.00	[Y26] - Kerr Pit - Groundprobe SSRXT Slope Stability Radar monitoring units (1 units), (Sustaining Capital CAD\$950,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B20 - Open Pit - Engineering Equipment Subtotal					0.00	0	0	912,000	0	0	0	0	0	912,000	912,000
<u>B21 - Open Pit - Dispatch Offices</u>															
B21-8-673.00	Open Pit - Dispatch Offices	1. lot	1,500.00	1.00	1,500.00	103.68	155,520	479,999.99	480,000	9,600.00	9,600	0.00	0	645,119.99	645,120
B21 - Open Pit - Dispatch Offices Subtotal					1,500.00	155,520	480,000	9,600	0	645,119.99	645,120	0	0	645,119.99	645,120
<u>B22 - Open Pit - Other Mining Costs</u>															
B22-8-675.00	Drill Monitoring System Aquilla for 5 Drills	1. lot	0.00	1.30	0.00	103.68	0	787,199.98	787,200	0.00	0	0.00	0	787,199.98	787,200
B22-8-676.00	Fleet Management (Wenco) Base System + 32 Trucks & 5 Shovels	1. lot	0.00	1.30	0.00	103.68	0	1,775,999.96	1,776,000	0.00	0	0.00	0	1,775,999.96	1,776,000
B22 - Open Pit - Other Mining Costs Subtotal					0.00	0	2,563,200	0	0	1,775,999.96	1,776,000	0	0	1,775,999.96	1,776,000
<u>B23 - Open Pit - Haul Roads</u>															
B23-8-678.00	Bailey Bridges	1. lot	0.00	1.30	0.00	103.68	0	10,751,999.76	10,752,000	0.00	0	0.00	0	10,751,999.76	10,752,000
B23-8-679.00	Culvert Bridge	1. lot	0.00	1.30	0.00	103.68	0	3,167,999.93	3,168,000	0.00	0	0.00	0	3,167,999.93	3,168,000
B23 - Open Pit - Haul Roads Subtotal					0.00	0	13,920,000	0	0	3,167,999.93	3,168,000	0	0	3,167,999.93	3,168,000
<u>B30 - Mine Development</u>															
B30-1.31-681.00	[Y20] - Mitchell Block Caving, (Sustaining Capital CAD\$61,120,964)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-682.00	[Y21] - Mitchell Block Caving, (Sustaining Capital CAD\$68,046,384)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-683.00	[Y22] - Mitchell Block Caving, (Sustaining Capital CAD\$79,553,549)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-684.00	[Y23] - Mitchell Block Caving, (Sustaining Capital CAD\$151,878,111)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-685.00	[Y24] - Mitchell Block Caving, (Sustaining Capital CAD\$250,266,823)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
B30-1.31-686.00	[Y25] - Mitchell Block Caving, (Sustaining Capital CAD\$189,102,031)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-687.00	[Y26] - Mitchell Block Caving, (Sustaining Capital CAD\$168,080,689)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-688.00	[Y27] - Mitchell Block Caving, (Sustaining Capital CAD\$208,904,412)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-689.00	[Y28] - Mitchell Block Caving, (Sustaining Capital CAD\$111,882,635)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-690.00	[Y29] - Mitchell Block Caving, (Sustaining Capital CAD\$127,179,126)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-691.00	[Y30] - Mitchell Block Caving, (Sustaining Capital CAD\$130,521,059)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-692.00	[Y31] - Mitchell Block Caving, (Sustaining Capital CAD\$118,554,365)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-693.00	[Y32] - Mitchell Block Caving, (Sustaining Capital CAD\$110,276,085)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-694.00	[Y33] - Mitchell Block Caving, (Sustaining Capital CAD\$109,585,908)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-695.00	[Y34] - Mitchell Block Caving, (Sustaining Capital CAD\$122,224,240)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-696.00	[Y35] - Mitchell Block Caving, (Sustaining Capital CAD\$102,724,067)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-697.00	[Y36] - Mitchell Block Caving, (Sustaining Capital CAD\$118,750,178)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-698.00	[Y37] - Mitchell Block Caving, (Sustaining Capital CAD\$83,322,049)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-699.00	[Y38] - Mitchell Block Caving, (Sustaining Capital CAD\$83,658,531)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-700.00	[Y39] - Mitchell Block Caving, (Sustaining Capital CAD\$76,197,062)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-701.00	[Y40] - Mitchell Block Caving, (Sustaining Capital CAD\$143,449,259)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
B30-1.31-702.00	[Y41] - Mitchell Block Caving, (Sustaining Capital CAD\$65,670,750)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-703.00	[Y42] - Mitchell Block Caving, (Sustaining Capital CAD\$30,763,491)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-704.00	[Y43] - Mitchell Block Caving, (Sustaining Capital CAD\$28,016,303)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-705.00	[Y44] - Mitchell Block Caving, (Sustaining Capital CAD\$35,565,922)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-706.00	[Y45] - Mitchell Block Caving, (Sustaining Capital CAD\$33,608,193)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-707.00	[Y46] - Mitchell Block Caving, (Sustaining Capital CAD\$98,287,333)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-708.00	[Y47] - Mitchell Block Caving, (Sustaining Capital CAD\$27,496,217)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-709.00	[Y48] - Mitchell Block Caving, (Sustaining Capital CAD\$28,274,740)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-710.00	[Y49] - Mitchell Block Caving, (Sustaining Capital CAD\$31,694,101)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-711.00	[Y50] - Mitchell Block Caving, (Sustaining Capital CAD\$76,021,371)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-712.00	[Y51] - Mitchell Block Caving, (Sustaining Capital CAD\$12,565,531)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-713.00	[Y52] - Mitchell Block Caving, (Sustaining Capital CAD\$7,188,293)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-714.00	[Y53] - Mitchell Block Caving, (Sustaining Capital CAD\$3,741,436)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-715.00	[Y54] - Mitchell Block Caving, (Sustaining Capital CAD\$1,253,362)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-716.00	[Y55] - Mitchell Block Caving, (Sustaining Capital CAD\$215,916)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30-1.31-717.00	[Y56] - Mitchell Block Caving, (Sustaining Capital CAD\$12,283,211)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B30 - Mine Development Subtotal					0.00		0		0		0		0		0



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
<u>B50 - Mine Development</u>															
B50-1.32-735.00	[Y27] - Iron Cap Block Caving, (Sustaining Capital CAD\$109,166,577)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-736.00	[Y28] - Iron Cap Block Caving, (Sustaining Capital CAD\$62,556,632)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-737.00	[Y29] - Iron Cap Block Caving, (Sustaining Capital CAD\$104,905,764)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-738.00	[Y30] - Iron Cap Block Caving, (Sustaining Capital CAD\$103,133,808)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-739.00	[Y31] - Iron Cap Block Caving, (Sustaining Capital CAD\$129,733,903)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-740.00	[Y32] - Iron Cap Block Caving, (Sustaining Capital CAD\$119,832,337)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-741.00	[Y33] - Iron Cap Block Caving, (Sustaining Capital CAD\$146,496,902)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-742.00	[Y34] - Iron Cap Block Caving, (Sustaining Capital CAD\$147,004,579)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-743.00	[Y35] - Iron Cap Block Caving, (Sustaining Capital CAD\$50,679,318)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-744.00	[Y36] - Iron Cap Block Caving, (Sustaining Capital CAD\$53,979,814)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-745.00	[Y37] - Iron Cap Block Caving, (Sustaining Capital CAD\$48,283,023)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-746.00	[Y38] - Iron Cap Block Caving, (Sustaining Capital CAD\$54,270,971)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-747.00	[Y39] - Iron Cap Block Caving, (Sustaining Capital CAD\$86,726,172)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-748.00	[Y40] - Iron Cap Block Caving, (Sustaining Capital CAD\$73,345,041)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-749.00	[Y41] - Iron Cap Block Caving, (Sustaining Capital CAD\$23,678,166)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-750.00	[Y42] - Iron Cap Block Caving, (Sustaining Capital CAD\$20,123,838)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
B50-1.32-751.00	[Y43] - Iron Cap Block Caving, (Sustaining Capital CAD\$23,217,765)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-752.00	[Y44] - Iron Cap Block Caving, (Sustaining Capital CAD\$33,797,362)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-753.00	[Y45] - Iron Cap Block Caving, (Sustaining Capital CAD\$26,767,326)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-754.00	[Y46] - Iron Cap Block Caving, (Sustaining Capital CAD\$21,185,069)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-755.00	[Y47] - Iron Cap Block Caving, (Sustaining Capital CAD\$11,631,394)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-756.00	[Y48] - Iron Cap Block Caving, (Sustaining Capital CAD\$10,270,509)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-757.00	[Y49] - Iron Cap Block Caving, (Sustaining Capital CAD\$8,513,751)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-758.00	[Y50] - Iron Cap Block Caving, (Sustaining Capital CAD\$1,203,692)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-759.00	[Y51] - Iron Cap Block Caving, (Sustaining Capital CAD\$295,362)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50-1.32-760.00	[Y52] - Iron Cap Block Caving, (Sustaining Capital CAD\$12,385,639)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B50 - Mine Development Subtotal					0.00		0		0		0		0		0
<u>C10 - Kerr Primary Crushing [Sustaining]</u>															
C10-13-778.00	[Y26] - Kerr Primary Crushing; Section A, 12m x 29m x 45m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-13-779.00	[Y26] - Kerr Primary Crushing; Section B, 15m x 19m x 10m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-13-780.00	[Y26] - Kerr Primary Crushing; Detail Excavation, (Sustaining Capital CAD\$121,983)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-13-781.00	[Y26] - Kerr Primary Crushing; Structural Backfill, (Sustaining Capital CAD\$121,867)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-20-782.00	[Y26] - Kerr Primary Crushing; Concrete work, (Sustaining Capital CAD\$10,096,418)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C10-30-783.00	[Y26] - Kerr Primary Crushing; Structural Steel, (Sustaining Capital CAD\$2,563,722)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-40-784.00	[Y26] - Kerr Primary Crushing; Wall cladding, (Sustaining Capital CAD\$278,889)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-40-785.00	[Y26] - Kerr Primary Crushing; Roof cladding, (Sustaining Capital CAD\$222,878)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-10-786.00	[Y26] - Primary Crusher; MSE Wall; Welded Wire Wall, (Sustaining Capital CAD\$2,409,810)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-10-787.00	[Y26] - Primary Crusher; MSE Wall; Common Backfill, (Sustaining Capital CAD\$311,649)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-10-788.00	[Y26] - Primary Crusher; MSE Wall; Structural Fill (to Face of Wall) - selected material, (Sustaining Capital CAD\$63,005)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-13-789.00	[Y26] - Conveyor; Detail Excavation (Rock Excavation), (Sustaining Capital CAD\$97,700)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-13-790.00	[Y26] - Conveyor; Structural Backfill, (Sustaining Capital CAD\$118,482)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-20-791.00	[Y26] - Conveyor; Concrete work, (Sustaining Capital CAD\$851,300)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-40-792.00	[Y26] - Exterior Doors and louvers, (Sustaining Capital CAD\$24,262)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-40-793.00	[Y26] - Control Room including windows, (Sustaining Capital CAD\$25,630)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-794.00	[Y26] - Kerr Primary Crushing Rock Breaker No.1, (Sustaining Capital CAD\$589,350) [C10-RKB-051]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-795.00	[Y26] - Kerr Rock Breaker Hydraulic Power Pack No.1, included [C10-PPK-055]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-796.00	[Y26] - Kerr Primary Crushing Rock Breaker No.2, (Sustaining Capital CAD\$589,350) [C10-RKB-052]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-797.00	[Y26] - Kerr Rock Breaker Hydraulic Power Pack No.2, included [C10-PPK-056]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-798.00	[Y26] - Kerr Pit Primary Crusher No.1, 1524 x 2261, (Sustaining Capital CAD\$6,593,305) [C10-CRU-001]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C10-50-799.00	[Y26] - Kerr Primary Crusher Lub/Hydroset No.1 [C10-EQP-071]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-800.00	[Y26] - Kerr Primary Crusher Spider Lube Unit No.1 [C10-LUB-073]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-801.00	[Y26] - Kerr Primary Crusher Lubrication Cooler No.1 [C10-COO-075]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-802.00	[Y26] - Kerr Pit Primary Crusher No.2, 1524 x 2261, (Sustaining Capital CAD\$6,593,305) [C10-CRU-002]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-803.00	[Y26] - Kerr Primary Crusher Lub/Hydroset No.2 [C10-EQP-072]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-804.00	[Y26] - Kerr Primary Crusher Spider Lube Unit No.2 [C10-LUB-074]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-805.00	[Y26] - Kerr Primary Crusher Lubrication Cooler No.2 [C10-COO-076]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-55-806.00	[Y26] - Kerr Pit Primary Crusher Apron Feeder No.1 Feed Chute, (Sustaining Capital CAD\$177,109)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-55-807.00	[Y26] - Kerr Pit Primary Crusher Apron Feeder No.1 Feed Chute AR Liner, (Sustaining Capital CAD\$126,078)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-808.00	[Y26] - Kerr Pit Primary Crusher Apron Feeder No.1, 1829 W x 9200 L, (Sustaining Capital CAD\$372,275) [C10-FDR-011]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-55-809.00	[Y26] - Kerr Pit Primary Crusher Apron Feeder No.1 Dribbles Chute, (Sustaining Capital CAD\$177,109)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-55-810.00	[Y26] - Kerr Pit Primary Crusher Apron Feeder No.1 Dribbles Chute AR Liner, (Sustaining Capital CAD\$126,078)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-55-811.00	[Y26] - Kerr Pit Primary Crusher Apron Feeder No.1 Discharge Chute, (Sustaining Capital CAD\$52,487)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-55-812.00	[Y26] - Kerr Pit Primary Crusher Apron Feeder No.1 Discharge Chute AR Liner, (Sustaining Capital CAD\$10,945)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-813.00	[Y26] - Kerr Pit Stockpile Feed Conveyor No.1, 1829 W x 40000 L, (Sustaining Capital CAD\$821,481) [C10-CNV-021]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-55-814.00	[Y26] - Kerr Pit Stockpile Feed Conveyor No.1 Head Chute, (Sustaining Capital CAD\$14,315)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C10-55-815.00	[Y26] - Kerr Pit Stockpile Feed Conveyor No.1 Head Chute AR Liner, (Sustaining Capital CAD\$8,840)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-816.00	[Y26] - Kerr Pit Stockpile Feed Conveyor Belt Scale No.1, (Sustaining Capital CAD\$46,545) [C10-SCB-031]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-817.00	[Y26] - Kerr Pit Stockpile Feed Conveyor Self Cleaner Magnet No.1, (Sustaining Capital CAD\$33,333) [C10-MGT-029]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-55-818.00	[Y26] - Kerr Pit Primary Crusher Apron Feeder No.1 Feed Chute, (Sustaining Capital CAD\$177,109)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-55-819.00	[Y26] - Kerr Pit Primary Crusher Apron Feeder No.1 Feed Chute AR Liner, (Sustaining Capital CAD\$126,078)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-820.00	[Y26] - Kerr Pit Primary Crusher Apron Feeder No.2, 1829 W x 9200 L, (Sustaining Capital CAD\$372,275) [C10-FDR-012]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-55-821.00	[Y26] - Kerr Pit Primary Crusher Apron Feeder No.1 Dribbles Chute, (Sustaining Capital CAD\$177,109)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-55-822.00	[Y26] - Kerr Pit Primary Crusher Apron Feeder No.1 Dribbles Chute AR Liner, (Sustaining Capital CAD\$126,078)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-55-823.00	[Y26] - Kerr Pit Primary Crusher Apron Feeder No.1 Discharge Chute, (Sustaining Capital CAD\$52,487)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-55-824.00	[Y26] - Kerr Pit Primary Crusher Apron Feeder No.1 Discharge Chute AR Liner, (Sustaining Capital CAD\$10,945)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-825.00	[Y26] - Kerr Pit Stockpile Feed Conveyor No.2, 1829 W x 40000 L, (Sustaining Capital CAD\$821,481) [C10-CNV-022]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-55-826.00	[Y26] - Kerr Pit Stockpile Feed Conveyor No.2 Head Chute, (Sustaining Capital CAD\$14,315)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-55-827.00	[Y26] - Kerr Pit Stockpile Feed Conveyor No.2 Head Chute AR Liner, (Sustaining Capital CAD\$8,840)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-828.00	[Y26] - Kerr Pit Stockpile Feed Conveyor Belt Scale No.2, (Sustaining Capital CAD\$46,545) [C10-SCB-032]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-829.00	[Y26] - Kerr Pit Stockpile Feed Conveyor Self Cleaner Magnet No.2, (Sustaining Capital CAD\$33,333) [C10-MGT-030]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-830.00	[Y26] - Kerr Pit Stockpile Feed Conveyor No.3, 1829 W x 105000 L, (Sustaining Capital CAD\$2,112,162) [C10-CNV-023]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C10-55-831.00	[Y26] - Kerr Pit Stockpile Feed Conveyor No.3 Head Chute, (Sustaining Capital CAD\$14,315)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-55-832.00	[Y26] - Kerr Pit Stockpile Feed Conveyor No.3 Head Chute AR Liner, (Sustaining Capital CAD\$8,840)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-833.00	[Y26] - Kerr Pit Primary Crushing Crane (11m span, 40m lift), 75/20T, (Sustaining Capital CAD\$452,690) [C10-CRN-041]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-834.00	[Y26] - Kerr Primary Crusher Drive Hoist No.1, 10T, (Sustaining Capital CAD\$53,624) [C10-HOI-042]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-835.00	[Y26] - Kerr Primary Crusher Drive Hoist No.2, 10T, (Sustaining Capital CAD\$53,624) [C10-HOI-043]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-836.00	[Y26] - Kerr Primary Crusher Apron Feeder Hoist No.1, 5T, (Sustaining Capital CAD\$40,791) [C10-HOI-044]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-837.00	[Y26] - Kerr Primary Crusher Apron Feeder Hoist No.2, 5T, (Sustaining Capital CAD\$40,791) [C10-HOI-045]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-838.00	[Y26] - Kerr Primary Crushing Dust Suppression System, (Sustaining Capital CAD\$246,180) [C10-SYS-061]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-839.00	[Y26] - Kerr Primary Crusher Dust Collector Baghouse, (Sustaining Capital CAD\$146,537)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-840.00	[Y26] - Kerr Primary Crusher Dust Collector With Exhaust Fan, included [C10-COL-081]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-841.00	[Y26] - Kerr Primary Crusher Dust Collector Screw Conveyor, included [C10-CNV-082]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-50-842.00	[Y26] - Kerr Primary Crusher Dust Collector Rotary Valve, included [C10-VLV-083]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-55-843.00	[Y26] - Fire Protection; Auto Sprinklers @ Rock Breaker Hydraulic Pack, (Sustaining Capital CAD\$14,099)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-55-844.00	[Y26] - Fire Protection; Auto Sprinklers @ Air Compressor, (Sustaining Capital CAD\$14,099)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-55-845.00	[Y26] - Fire Protection; Auto Sprinklers @ Conveyor within Structure, (Sustaining Capital CAD\$12,533)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-55-846.00	[Y26] - Fire Protection; Auto Sprinklers @ Spider Lube Unit, (Sustaining Capital CAD\$14,099)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C10-55-847.00	[Y26] - Fire Protection; Fire Extinguishers, (Sustaining Capital CAD\$25,532)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-55-848.00	[Y26] - Fire Protection; Fire Hose System, (Sustaining Capital CAD\$17,328)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-58-849.00	[Y26] - Building Services; Dust Ducting, 12,500 CFM, (Sustaining Capital CAD\$223,396) [C10-DUC-001]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-58-850.00	[Y26] - HVAC Allowance, (Sustaining Capital CAD\$221,660)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-60-881.00	[Y26] - Piping Allowance, (Sustaining Capital CAD\$323,486)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-80-882.00	[Y26] - Field Instrumentation & Bulks Allowance, (Sustaining Capital CAD\$526,508)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10-70-883.00	[Y26] - Electrical Motor Wiring Allowance, included Area B17	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10 - Kerr Primary Crushing [Sustaining] Subtotal					0.00		0		0		0		0		0
<u>C12 - Sulphurets Primary Crushing [Sustaining]</u>															
C12-40-885.00	[Y22] - Sulphurets Primary Crushing; Section A, 12m x 22m x 40m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-40-886.00	[Y22] - Sulphurets Primary Crushing; Section B, 15m x 19m x 10m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-13-887.00	[Y22] - Sulphurets Primary Crushing; Detail Excavation, (Sustaining Capital CAD\$94,653)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-13-888.00	[Y22] - Sulphurets Primary Crushing; Structural Backfill, (Sustaining Capital CAD\$97,520)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-20-889.00	[Y22] - Sulphurets Primary Crushing; Concrete work, (Sustaining Capital CAD\$7,619,135)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-30-890.00	[Y22] - Sulphurets Primary Crushing; Structural Steel, (Sustaining Capital CAD\$1,627,760)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-40-891.00	[Y22] - Sulphurets Primary Crushing; Wall cladding, (Sustaining Capital CAD\$144,696)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-40-892.00	[Y22] - Sulphurets Primary Crushing; Roof cladding, (Sustaining Capital CAD\$189,038)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C12-10-893.00	[Y22] - Primary Crusher; MSE Wall; Welded Wire Wall, (Sustaining Capital CAD\$1,452,065)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-10-894.00	[Y22] - Primary Crusher; MSE Wall; Common Backfill, (Sustaining Capital CAD\$187,789)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-10-895.00	[Y22] - Primary Crusher; MSE Wall; Structural Fill (to Face of Wall) - selected material, (Sustaining Capital CAD\$37,964)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-13-896.00	[Y22] - Conveyor; Detail Excavation (Rock Excavation), (Sustaining Capital CAD\$97,700)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-13-897.00	[Y22] - Conveyor; Structural Backfill, (Sustaining Capital CAD\$118,482)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-20-898.00	[Y22] - Conveyor; Concrete work, (Sustaining Capital CAD\$851,300)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-40-899.00	[Y22] - Exterior Doors and louvers, (Sustaining Capital CAD\$22,762)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-40-900.00	[Y22] - Control Room including windows, (Sustaining Capital CAD\$23,130)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-901.00	[Y22] - Sulphurets Primary Crushing Rock Breaker, (Sustaining Capital CAD\$589,350) [C12-RKB-051]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-902.00	[Y22] - Sulphurets Rock Breaker Hydraulic Power Pack, included [C12-PPK-055]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-903.00	[Y22] - Sulphurets Pit Primary Crusher, 1524 x 2261, (Sustaining Capital CAD\$6,593,305) [C12-CRU-001]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-904.00	[Y22] - Sulphurets Primary Crusher Lub/Hydroset, included [C12-EQP-071]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-905.00	[Y22] - Sulphurets Primary Crusher Spider Lube Unit, included [C12-LUB-072]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-906.00	[Y22] - Sulphurets Primary Crusher Lubrication Cooler, included [C12-COO-073]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-907.00	[Y22] - Sulphurets Pit Primary Crusher Apron Feeder Feed Chute, (Sustaining Capital CAD\$164,489)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-908.00	[Y22] - Sulphurets Pit Primary Crusher Apron Feeder Feed Chute AR Liner, (Sustaining Capital CAD\$126,078)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C12-50-909.00	[Y22] - Sulphurets Pit Primary Crusher Apron Feeder, 1829 W x 9200 L, (Sustaining Capital CAD\$372,275) [C12-FDR-011]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-910.00	[Y22] - Sulphurets Pit Primary Crusher Apron Feeder Dribbles Chute, (Sustaining Capital CAD\$164,489)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-911.00	[Y22] - Sulphurets Pit Primary Crusher Apron Feeder Dribbles Chute AR Liner, (Sustaining Capital CAD\$126,078)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-912.00	[Y22] - Sulphurets Pit Primary Crusher Apron Feeder Discharge Chute, (Sustaining Capital CAD\$48,747)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-913.00	[Y22] - Sulphurets Pit Primary Crusher Apron Feeder Discharge Chute AR Liner, (Sustaining Capital CAD\$10,945)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-914.00	[Y22] - Sulphurets Pit Stockpile Feed Conveyor, 1829 W x 280000 L, (Sustaining Capital CAD\$5,632,431) [C12-CNV-021]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-915.00	[Y22] - Sulphurets Pit Stockpile Feed Conveyor Head Chute, (Sustaining Capital CAD\$13,295)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-916.00	[Y22] - Sulphurets Pit Stockpile Feed Conveyor Head Chute AR Liner, (Sustaining Capital CAD\$8,840)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-917.00	[Y22] - Sulphurets Pit Stockpile Feed Conveyor Belt Scale, (Sustaining Capital CAD\$46,545) [C12-SCB-031]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-918.00	[Y22] - Sulphurets Pit Stockpile Feed Conveyor Self Cleaner Magnet, (Sustaining Capital CAD\$33,333) [C12-MGT-029]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-919.00	[Y22] - Sulphurets Pit Primary Crushing Crane (11m span, 40m lift), 75/20T, (Sustaining Capital CAD\$452,690) [C12-CRN-041]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-920.00	[Y22] - Sulphurets Primary Crusher Drive Hoist, 10T, (Sustaining Capital CAD\$53,624) [C12-HOI-042]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-921.00	[Y22] - Sulphurets Primary Crusher Apron Feeder Hoist, 5T, (Sustaining Capital CAD\$40,791) [C12-HOI-043]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-922.00	[Y22] - Sulphurets Primary Crushing Dust Suppression System, (Sustaining Capital CAD\$246,180) [C12-SYS-061]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-923.00	[Y22] - Sulphurets Primary Crusher Dust Collector Baghouse, (Sustaining Capital CAD\$141,732)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-924.00	[Y22] - Sulphurets Primary Crusher Dust Collector With Exhaust Fan, included [C12-COL-081]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C12-50-925.00	[Y22] - Sulphurets Primary Crusher Dust Collector Screw Conveyor, included [C12-CNV-082]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-50-926.00	[Y22] - Sulphurets Primary Crusher Dust Collector Rotary Valve, included [C12-VLV-083]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-55-927.00	[Y22] - Sulphurets Primary Crusher Dust Ducting, 12,500 CFM, (Sustaining Capital CAD\$217,420) [C12-DUC-001]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-58-928.00	[Y22] - Fire Protection; Auto Sprinklers @ Rock Breaker Hydraulic Pack, (Sustaining Capital CAD\$14,099)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-58-929.00	[Y22] - Fire Protection; Auto Sprinklers @ Air Compressor, (Sustaining Capital CAD\$14,099)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-58-930.00	[Y22] - Fire Protection; Auto Sprinklers @ Conveyor within Structure, (Sustaining Capital CAD\$12,533)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-58-931.00	[Y22] - Fire Protection; Auto Sprinklers @ Spider Lube Unit, (Sustaining Capital CAD\$14,099)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-58-932.00	[Y22] - Fire Protection; Fire Extinguishers, (Sustaining Capital CAD\$5,932)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-58-933.00	[Y22] - Fire Protection; Fire Hose System, (Sustaining Capital CAD\$1,128)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-58-934.00	[Y22] - HVAC Allowance, (Sustaining Capital CAD\$221,665)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-60-965.00	[Y22] - Piping Allowance, (Sustaining Capital CAD\$226,240)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-80-966.00	[Y22] - Field Instrumentation & Bulks Allowance, (Sustaining Capital CAD\$315,905)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-70-967.00	[Y22] - Electrical Motor Wiring Allowance, included Area B17	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C12 - Sulphurets Primary Crushing [Sustaining] Subtotal				0.00		0		0		0		0		0
C14 - Mitchell Primary Crushing															
C14-13-969.00	Mitchell Primary Crushing; Section A, 13m x 22m x 42m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C14-13-970.00	Mitchell Primary Crushing; Section B, 15m x 19m x 15m	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C14-13-971.00	Mitchell Primary Crushing; Section C, 13m x 22m x 42m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C14-13-972.00	Mitchell Primary Crushing; Detail Excavation	61,045. m3	0.06	1.30	4,761.51	103.68	493,673	0.00	0	3.60	219,762	0.00	0	11.69	713,435
C14-13-973.00	Mitchell Primary Crushing; Structural Backfill	54,100. m3	0.10	1.30	7,033.00	103.68	729,181	7.68	415,488	3.84	207,744	0.00	0	25.00	1,352,413
C14-20-974.00	Mitchell Primary Crushing; Concrete work	7,720. m3	7.00	1.30	70,252.00	103.68	7,283,727	643.20	4,965,504	19.20	148,224	0.00	0	1,605.89	12,397,455
C14-30-975.00	Mitchell Primary Crushing; Structural Steel	425. t	22.00	1.30	12,155.00	103.68	1,260,230	4,608.00	1,958,400	240.00	102,000	0.00	0	7,813.25	3,320,630
C14-40-976.00	Mitchell Primary Crushing; Wall cladding	1,350. m2	0.95	1.30	1,667.25	103.68	172,860	81.60	110,160	14.40	19,440	0.00	0	224.04	302,460
C14-40-977.00	Mitchell Primary Crushing; Roof cladding	860. m2	0.95	1.30	1,062.10	103.68	110,119	81.60	70,176	14.40	12,384	0.00	0	224.04	192,679
C14-10-978.00	Primary Crusher; MSE Wall, 230m x 30m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C14-10-979.00	Primary Crusher; MSE Wall; Welded Wire Wall	6,900. m2	1.00	1.30	8,970.00	103.68	930,010	444.00	3,063,600	14.40	99,360	0.00	0	593.18	4,092,970
C14-10-980.00	Primary Crusher; MSE Wall; Common Backfill	34,500. m3	0.08	1.30	3,588.00	103.68	372,004	0.00	0	4.56	157,320	0.00	0	15.34	529,324
C14-10-981.00	Primary Crusher; MSE Wall; Structural Fill (to Face of Wall) - selected material	8,625. m3	0.06	1.30	672.75	103.68	69,751	0.00	0	4.32	37,260	0.00	0	12.41	107,011
C14-13-982.00	Conveyor Covers (x2) Detail Excavation	1,655. m3	0.06	1.30	129.09	103.68	13,384	0.00	0	3.60	5,958	0.00	0	11.69	19,342
C14-13-983.00	Conveyor Covers (x2) Structural Backfill	1,010. m3	0.10	1.30	131.30	103.68	13,613	7.68	7,757	3.84	3,878	0.00	0	25.00	25,248
C14-20-984.00	Conveyor Covers (x2) Concrete work	720. m3	7.00	1.30	6,552.00	103.68	679,311	643.20	463,104	19.20	13,824	0.00	0	1,605.89	1,156,239
C14-40-985.00	Conveyor Covers (x2) Roof cladding	360. m2	0.95	1.30	444.60	103.68	46,096	81.60	29,376	14.40	5,184	0.00	0	224.04	80,656
C14-13-986.00	Conveyors Detail Excavation	11,500. m3	0.06	1.30	897.00	103.68	93,001	0.00	0	3.60	41,400	0.00	0	11.69	134,401



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C14-13-987.00	Conveyors Structural Backfill	10,465. m3	0.10	1.30	1,360.45	103.68	141,051	7.68	80,371	3.84	40,186	0.00	0	25.00	261,608
C14-20-988.00	Conveyors Concrete work	1,150. m3	7.00	1.30	10,465.00	103.68	1,085,011	643.20	739,680	19.20	22,080	0.00	0	1,605.89	1,846,771
C14-13-989.00	Crusher & Transformer Pads (x4); Detail Excavation	2,475. m3	0.06	1.30	193.05	103.68	20,015	0.00	0	3.60	8,910	0.00	0	11.69	28,925
C14-13-990.00	Crusher & Transformer Pads (x4); Structural Backfill	2,045. m3	0.10	1.30	265.85	103.68	27,563	7.68	15,706	3.84	7,853	0.00	0	25.00	51,122
C14-20-991.00	Crusher & Transformer Pads (x4); Concrete work	475. m3	7.00	1.30	4,322.50	103.68	448,157	643.20	305,520	19.20	9,120	0.00	0	1,605.89	762,797
C14-58-992.00	Exterior Doors and louvers	1. lot	60.00	1.30	78.00	103.68	8,087	34,560.00	34,560	96.00	96	0.00	0	42,743.04	42,743
C14-58-993.00	Control Room including windows	1. lot	150.00	1.30	195.00	103.68	20,218	24,000.00	24,000	192.00	192	0.00	0	44,409.60	44,410
C14-50-994.00	Mitchell Primary Crushing Rock Breaker No.1 [C14-RKB-051]	1. ea	250.00	1.30	325.00	103.68	33,696	0.00	0	2,880.00	2,880	529,199.99	529,200	565,775.99	565,776
C14-50-995.00	Mitchell Rock Breaker Hydraulic Power Pack No.1, included [C14-PPK-055]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C14-50-996.00	Mitchell Primary Crushing Rock Breaker No.2 [C14-RKB-052]	1. ea	250.00	1.30	325.00	103.68	33,696	0.00	0	2,880.00	2,880	529,199.99	529,200	565,775.99	565,776
C14-50-997.00	Mitchell Rock Breaker Hydraulic Power Pack No.2, included [C14-PPK-056]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C14-50-998.00	Mitchell Pit Primary Crusher No.1, 1524 x 2261 [C14-CRU-002]	1. ea	7,280.00	1.30	9,464.00	103.68	981,227	9,600.00	9,600	9,600.00	9,600	5,329,144.88	5,329,145	6,329,572.38	6,329,572
C14-50-999.00	Mitchell Primary Crushing Lub/Hydroset No.1, included [C14-EQP-071]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C14-50-1000.00	Mitchell Primary Crushing Spider Lube Unit No.1, included [C14-LUB-073]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C14-50-1001.00	Mitchell Primary Crushing Lubrication Cooler No.1, included [C14-COO-075]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C14-50-1002.00	Mitchell Pit Primary Crusher No.2, 1524 x 2261 [C14-CRU-003]	1. ea	7,280.00	1.30	9,464.00	103.68	981,227	9,600.00	9,600	9,600.00	9,600	5,329,144.88	5,329,145	6,329,572.38	6,329,572



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C14-50-1003.00	Mitchell Primary Crushing Lub/Hydroset No.2, included [C14-EQP-072]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C14-50-1004.00	Mitchell Primary Crushing Spider Lube Unit No.2, included [C14-LUB-074]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C14-50-1005.00	Mitchell Primary Crushing Lubrication Cooler No.2, included [C14-COO-076]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C14-55-1006.00	Primary Crusher No.1 Apron Feeder Feed Chute	12,620. kg	0.06	1.30	984.36	103.68	102,058	0.08	969	0.03	363	5.28	66,634	13.47	170,025
C14-55-1007.00	Primary Crusher No.1 Apron Feeder Feed Chute AR Liner	11,980. kg	0.04	1.30	545.09	103.68	56,515	0.08	920	0.03	345	5.28	63,254	10.10	121,034
C14-50-1008.00	Primary Crusher No.1 Apron Feeder, 2134 W x 10000 L [C14-FDR-004]	1. ea	750.00	1.30	975.00	103.68	101,088	240.00	240	5,760.00	5,760	449,524.31	449,524	556,612.31	556,612
C14-55-1009.00	Primary Crusher No.1 Apron Feeder Dribbles Chute	12,620. kg	0.06	1.30	984.36	103.68	102,058	0.08	969	0.03	363	5.28	66,634	13.47	170,025
C14-55-1010.00	Primary Crusher No.1 Apron Feeder Dribbles Chute AR Liner	11,980. kg	0.04	1.30	545.09	103.68	56,515	0.08	920	0.03	345	5.28	63,254	10.10	121,034
C14-55-1011.00	Primary Crusher No.1 Apron Feeder Discharge Chute	3,740. kg	0.06	1.30	291.72	103.68	30,246	0.08	287	0.03	108	5.28	19,747	13.47	50,388
C14-55-1012.00	Primary Crusher No.1 Apron Feeder Discharge Chute AR Liner	1,040. kg	0.04	1.30	47.32	103.68	4,906	0.08	80	0.03	30	5.28	5,491	10.10	10,507
C14-50-1013.00	Mitchell Primary Crusher Discharge Conveyor No.1, 1829 W x 40000 L [C14-CNV-006]	40. m	23.00	1.30	1,196.00	103.68	124,001	48.00	1,920	144.00	5,760	16,423.51	656,940	19,715.54	788,622
C14-55-1014.00	Mitchell Primary Crusher Discharge Conveyor No.1 Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
C14-55-1015.00	Mitchell Primary Crusher Discharge Conveyor No.1 Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
C14-50-1016.00	Mitchell Primary Crusher Discharge Conveyor No.1 Self Cleaner Magnet [C14-MGT-027]	1. ea	20.00	1.30	26.00	103.68	2,696	24.00	24	480.00	480	28,800.00	28,800	31,999.68	32,000
C14-50-1017.00	Mitchell Primary Crusher Discharge Conveyor No.1 Belt Scale [C14-SCB-029]	1. ea	50.00	1.30	65.00	103.68	6,739	24.00	24	480.00	480	37,440.00	37,440	44,683.20	44,683
C14-55-1018.00	Primary Crusher No.2 Apron Feeder Feed Chute	12,620. kg	0.06	1.30	984.36	103.68	102,058	0.08	969	0.03	363	5.28	66,634	13.47	170,025



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C14-55-1019.00	Primary Crusher No.2 Apron Feeder Feed Chute AR Liner	11,980. kg	0.04	1.30	545.09	103.68	56,515	0.08	920	0.03	345	5.28	63,254	10.10	121,034
C14-50-1020.00	Primary Crusher No.2 Apron Feeder, 2134 W x 10000 L [C14-FDR-005]	1. ea	750.00	1.30	975.00	103.68	101,088	240.00	240	5,760.00	5,760	449,524.31	449,524	556,612.31	556,612
C14-55-1021.00	Primary Crusher No.2 Apron Feeder Dribbles Chute	12,620. kg	0.06	1.30	984.36	103.68	102,058	0.08	969	0.03	363	5.28	66,634	13.47	170,025
C14-55-1022.00	Primary Crusher No.2 Apron Feeder Dribbles Chute AR Liner	11,980. kg	0.04	1.30	545.09	103.68	56,515	0.08	920	0.03	345	5.28	63,254	10.10	121,034
C14-55-1023.00	Primary Crusher No.2 Apron Feeder Discharge Chute	3,740. kg	0.06	1.30	291.72	103.68	30,246	0.08	287	0.03	108	5.28	19,747	13.47	50,388
C14-55-1024.00	Primary Crusher No.2 Apron Feeder Discharge Chute AR Liner	1,040. kg	0.04	1.30	47.32	103.68	4,906	0.08	80	0.03	30	5.28	5,491	10.10	10,507
C14-50-1025.00	Mitchell Primary Crusher Discharge Conveyor No.2, 1829 W x 40000 L [C14-CNV-007]	40. m	23.00	1.30	1,196.00	103.68	124,001	48.00	1,920	144.00	5,760	16,423.51	656,940	19,715.54	788,622
C14-55-1026.00	Mitchell Primary Crusher Discharge Conveyor No.2 Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
C14-55-1027.00	Mitchell Primary Crusher Discharge Conveyor No.2 Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
C14-50-1028.00	Mitchell Primary Crusher Discharge Conveyor No.2 Self Cleaner Magnet [C14-MGT-028]	1. ea	20.00	1.30	26.00	103.68	2,696	24.00	24	480.00	480	28,800.00	28,800	31,999.68	32,000
C14-50-1029.00	Mitchell Primary Crusher Discharge Conveyor No.2 Belt Scale [C14-SCB-030]	1. ea	50.00	1.30	65.00	103.68	6,739	24.00	24	480.00	480	37,440.00	37,440	44,683.20	44,683
C14-50-1030.00	Mitchell Pit Coarse Ore Stockpile Feed Conveyor, 2134 W x 500000 L [C14-CNV-010]	500. m	18.00	1.30	11,700.00	103.68	1,213,056	48.00	24,000	192.00	96,000	18,002.18	9,001,091	20,668.29	10,334,147
C14-50-1031.00	Mitchell Pit Coarse Ore Stockpile Feed Conveyor Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	4.32	4,406	12.51	12,763
C14-50-1032.00	Mitchell Pit Coarse Ore Stockpile Feed Conveyor Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
C14-50-1033.00	Mitchell Pit Coarse Ore Stockpile Feed Conveyor No.1, 2134 W x 8100 L [C14-CNV-009]	8.1 m	25.00	1.30	263.25	103.68	27,294	48.00	389	192.00	1,555	18,002.18	145,818	21,611.78	175,055
C14-50-1034.00	Primary Crusher Sump Pump c/w motor 24kW, 150 [C14-PSU-012]	1. ea	90.00	1.30	117.00	103.68	12,131	48.00	48	72.00	72	36,480.00	36,480	48,730.56	48,731



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C14-50-1035.00	Crushing Area Water Pump c/w motor 30kW, 100 x 75 [C14-PSO-013]	1. ea	60.00	1.30	78.00	103.68	8,087	28.80	29	24.00	24	9,120.00	9,120	17,259.84	17,260
C14-50-1036.00	Mitchell Primary Crushing Crane (11m span, 40m lift), 75/20T [C14-CRN-041]	1. ea	350.00	1.30	455.00	103.68	47,174	528.00	528	2,880.00	2,880	383,999.99	384,000	434,582.39	434,582
C14-50-1037.00	Mitchell Primary Crushing Drive Hoist No.1 (20m lift), 10T [C14-HOI-043]	1. ea	60.00	1.30	78.00	103.68	8,087	120.00	120	72.00	72	43,200.00	43,200	51,479.04	51,479
C14-50-1038.00	Mitchell Primary Crushing Drive Hoist No.2 (20m lift), 10T [C14-HOI-044]	1. ea	60.00	1.30	78.00	103.68	8,087	120.00	120	72.00	72	43,200.00	43,200	51,479.04	51,479
C14-50-1039.00	Mitchell Primary Crushing Apron Feeder Hoist No.1 (20m lift), 5T [C14-HOI-045]	1. ea	40.00	1.30	52.00	103.68	5,391	120.00	120	48.00	48	33,600.00	33,600	39,159.36	39,159
C14-50-1040.00	Mitchell Primary Crushing Apron Feeder Hoist No.2 (20m lift), 5T [C14-HOI-046]	1. ea	40.00	1.30	52.00	103.68	5,391	120.00	120	48.00	48	33,600.00	33,600	39,159.36	39,159
C14-50-1041.00	Mitchell Primary Crushing Dust Suppression System [C14-SYS-061]	1. ea	450.00	1.30	585.00	103.68	60,653	0.00	0	2,880.00	2,880	172,800.00	172,800	236,332.79	236,333
C14-50-1042.00	Mitchell Primary Crushing Dust Collector Baghouse	1. lot	320.00	1.30	416.00	103.68	43,131	240.00	240	288.00	288	96,872.83	96,873	140,531.71	140,532
C14-50-1043.00	Mitchell Primary Crushing Dust Collector With Exhaust Fan, included [C14-COL-081]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C14-50-1044.00	Mitchell Primary Crushing Dust Collector Screw Conveyor, included [C14-CNV-082]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C14-50-1045.00	Mitchell Primary Crushing Dust Collector Rotary Valve, included [C14-VLV-083]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C14-50-1046.00	Mitchell Primary Crushing Dust Ducting, 45,000 CFM [C14-DUC-001]	1. lot	800.00	1.30	1,040.00	103.68	107,827	101,352.96	101,353	5,280.00	5,280	0.00	0	214,460.16	214,460
C14-58-1047.00	Fire Protection; Auto Sprinklers @ Rock Breaker Hydraulic Pack	18. ea	4.00	1.30	93.60	103.68	9,704	960.00	17,280	4.80	86	0.00	0	1,503.94	27,071
C14-58-1048.00	Fire Protection; Auto Sprinklers @ Air Compressor	18. ea	4.00	1.30	93.60	103.68	9,704	960.00	17,280	4.80	86	0.00	0	1,503.94	27,071
C14-58-1049.00	Fire Protection; Auto Sprinklers @ Conveyor within Structure	17. ea	4.00	1.30	88.40	103.68	9,165	960.00	16,320	4.80	82	0.00	0	1,503.94	25,567
C14-58-1050.00	Fire Protection; Auto Sprinklers @ Spider Lube Unit	18. ea	4.00	1.30	93.60	103.68	9,704	960.00	17,280	4.80	86	0.00	0	1,503.94	27,071



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C14-58-1051.00	Fire Protection; Fire Extinguishers	1. lot	6.00	1.30	7.80	103.68	809	1,170.72	1,171	4.80	5	0.00	0	1,984.22	1,984
C14-58-1052.00	Fire Protection; Fire Hose System	1. lot	8.00	1.30	10.40	103.68	1,078	15,609.60	15,610	4.80	5	0.00	0	16,692.67	16,693
C14-58-1053.00	HVAC Allowance	1. lot	690.00	1.00	690.00	103.68	71,539	710.40	710	21,744.00	21,744	481,180.79	481,181	575,174.39	575,174
C14-60-1114.00	Piping Allowance 1.50%	1. lot	692.48	1.00	692.48	103.68	71,797	372,296.93	372,297	2,436.14	2,436	0.00	0	446,529.61	446,530
C14-80-1115.00	Field Instrumentation & Bulks Allowance	1. lot	1,596.00	1.30	2,074.80	103.68	215,115	43,324.80	43,325	7,128.00	7,128	259,199.99	259,200	524,768.05	524,768
C14-70-1116.00	Electrical Motor Wiring Allowance, included in A20/A30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C14 - Mitchell Primary Crushing Subtotal					185,205.60		19,202,116		12,944,076		1,356,242		25,400,774		58,903,209
<u>C20 - Kerr Coarse Ore Stockpile [Sustaining]</u>															
C20-40-1118.00	[Y26] - Coarse Ore Stockpile & Overall Site Plan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-13-1119.00	[Y26] - Coarse Ore Stockpile & Overall Site Plan; Detail Excavation, (Sustaining Capital CAD\$292,176)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-13-1120.00	[Y26] - Coarse Ore Stockpile & Overall Site Plan; Structural Backfill, (Sustaining Capital CAD\$519,498)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-20-1121.00	[Y26] - Coarse Ore Stockpile & Overall Site Plan; Concrete work, (Sustaining Capital CAD\$7,661,700)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-30-1122.00	[Y26] - Coarse Ore Stockpile & Overall Site Plan; Structural Steel, (Sustaining Capital CAD\$54,936,900)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-40-1123.00	[Y26] - Coarse Ore Stockpile & Overall Site Plan; Wall cladding, (Sustaining Capital CAD\$2,100,420)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-40-1124.00	[Y26] - Coarse Ore Stockpile & Overall Site Plan; Roof cladding, (Sustaining Capital CAD\$6,724,845)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-13-1125.00	[Y26] - Stockpile Reclaim - Main Tunnel Detail Excavation (Rock Excavation), (Sustaining Capital CAD\$225,199)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-13-1126.00	[Y26] - Stockpile Reclaim - Main Tunnel Structural Backfill, (Sustaining Capital CAD\$490,333)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C20-20-1127.00	[Y26] - Stockpile Reclaim - Main Tunnel Concrete work, (Sustaining Capital CAD\$4,171,370)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-30-1128.00	[Y26] - Stockpile Reclaim - Main Tunnel Structural Steel, (Sustaining Capital CAD\$529,022)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-40-1129.00	[Y26] - Stockpile Reclaim - Main Tunnel Armco Tunnel, (4.5m D), (Sustaining Capital CAD\$10,502)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-13-1130.00	[Y26] - Stacker Conveyor; Detail Excavation, (Sustaining Capital CAD\$36,522)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-13-1131.00	[Y26] - Stacker Conveyor; Structural Backfill, (Sustaining Capital CAD\$67,574)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-20-1132.00	[Y26] - Stacker Conveyor; Concrete work, (Sustaining Capital CAD\$766,170)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-30-1133.00	[Y26] - Stacker Conveyor; Structural Steel, (Sustaining Capital CAD\$406,940)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-55-1134.00	[Y26] - Kerr Pit Coarse Ore Reclaim Apron Feeder Stockpile Inserts, (Sustaining Capital CAD\$57,232)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-55-1135.00	[Y26] - Kerr Pit Coarse Ore Reclaim Apron Feeder Feed Chutes, (Sustaining Capital CAD\$315,877)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-55-1136.00	[Y26] - Kerr Pit Coarse Ore Reclaim Apron Feeder Feed Chute AR Liner, (Sustaining Capital CAD\$224,856)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-50-1137.00	[Y26] - Kerr Pit Coarse Ore Reclaim Apron Feeder No.1, 1829 W x 7600 L, (Sustaining Capital CAD\$335,390) [C20-FDR-001]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-50-1138.00	[Y26] - Kerr Pit Coarse Ore Reclaim Apron Feeder No.2, 1829 W x 7600 L, (Sustaining Capital CAD\$335,390) [C20-FDR-002]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-55-1139.00	[Y26] - Kerr Pit Coarse Ore Reclaim Apron Feeder Dribbles Chutes, (Sustaining Capital CAD\$315,877)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-55-1140.00	[Y26] - Kerr Pit Coarse Ore Reclaim Apron Feeder Dribbles Chute AR Liner, (Sustaining Capital CAD\$224,856)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-55-1141.00	[Y26] - Kerr Pit Coarse Ore Reclaim Apron Feeder Discharge Chutes, (Sustaining Capital CAD\$52,487)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-55-1142.00	[Y26] - Kerr Pit Coarse Ore Reclaim Apron Feeder Discharge Chute AR Liner, (Sustaining Capital CAD\$10,945)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C20-50-1143.00	[Y26] - Kerr Pit Apron Feeder Discharge Conveyor, 1829 W x 165000 L, (Sustaining Capital CAD\$3,319,111) [C20-CNV-011]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-55-1144.00	[Y26] - Kerr Pit Apron Feeder Discharge Conveyor Head Chute, (Sustaining Capital CAD\$14,315)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-55-1145.00	[Y26] - Kerr Pit Apron Feeder Discharge Conveyor Head Chute AR Liner, (Sustaining Capital CAD\$8,840)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-50-1146.00	[Y26] - Kerr Apron Feeder Discharge Conveyor Belt Scale, (Sustaining Capital CAD\$46,545) [C20-SCB-015]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-50-1147.00	[Y26] - Kerr Coarse Ore Reclaim Baghouse, (Sustaining Capital CAD\$125,478)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-50-1148.00	[Y26] - Kerr Coarse Ore Reclaim Dust Collector With Exhaust Fan 14,000 CFM, included [C20-COL-031]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-50-1149.00	[Y26] - Kerr Coarse Ore Reclaim Dust Collector Screw Conveyor, included [C20-CNV-032]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-50-1150.00	[Y26] - Kerr Coarse Ore Reclaim Dust Collector Rotary Valve, included [C20-VLV-033]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-50-1151.00	[Y26] - Kerr Coarse Ore Reclaim Dust Ducting Coarse Ore Stockpile, 14,000 CFM, (Sustaining Capital CAD\$267,960) [C20-DUC-001]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-50-1152.00	[Y26] - Kerr Coarse Ore Reclaim Hoist, 2T, (Sustaining Capital CAD\$30,791) [C20-HOI-042]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-58-1154.00	[Y26] - HVAC Allowance, (Sustaining Capital CAD\$155,931)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-60-1174.00	[Y26] - Piping Allowance 0.75%, (Sustaining Capital CAD\$42,645)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-80-1175.00	[Y26] - Field Instrumentation & Bulks Allowance, (Sustaining Capital CAD\$130,361)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20-70-1176.00	[Y26] - Electrical Motor Wiring Allowance, included in B17	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C20 - Kerr Coarse Ore Stockpile [Sustaining] Subtotal					0.00		0		0		0		0		0
<u>C22 - Sulphurets Coarse Ore Stockpile [Sustaining]</u>															
C22-40-1178.00	[Y22] - Coarse Ore Stockpile & Overall Site Plan	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C22-13-1179.00	[Y22] - Coarse Ore Stockpile & Overall Site Plan; Detail Excavation, (Sustaining Capital CAD\$136,349)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-13-1180.00	[Y22] - Coarse Ore Stockpile & Overall Site Plan; Structural Backfill, (Sustaining Capital CAD\$268,733)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-20-1181.00	[Y22] - Coarse Ore Stockpile & Overall Site Plan; Concrete work, (Sustaining Capital CAD\$1,668,548)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-30-1182.00	[Y22] - Coarse Ore Stockpile & Overall Site Plan; Structural Steel, (Sustaining Capital CAD\$5,005,362)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-40-1183.00	[Y22] - Coarse Ore Stockpile & Overall Site Plan; Wall cladding, (Sustaining Capital CAD\$408,415)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-40-1184.00	[Y22] - Coarse Ore Stockpile & Overall Site Plan; Roof cladding, (Sustaining Capital CAD\$1,404,948)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-13-1185.00	[Y22] - Stockpile Reclaim - Main Tunnel, 7.5m x 35m x 10m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-13-1186.00	[Y22] - Stockpile Reclaim - Main Tunnel; Detail Excavation (Rock Excavation), (Sustaining Capital CAD\$196,084)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-13-1187.00	[Y22] - Stockpile Reclaim - Main Tunnel; Structural Backfill, (Sustaining Capital CAD\$429,400)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-20-1188.00	[Y22] - Stockpile Reclaim - Main Tunnel; Concrete work, (Sustaining Capital CAD\$3,132,784)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-30-1189.00	[Y22] - Stockpile Reclaim - Main Tunnel; Structural Steel, (Sustaining Capital CAD\$366,246)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-40-1190.00	[Y22] - Stockpile Reclaim - Main Tunnel; Armco Tunnel, (4.5m D), (Sustaining Capital CAD\$14,003)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-13-1191.00	[Y22] - Stacker Conveyor; Detail Excavation, (Sustaining Capital CAD\$36,522)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-13-1192.00	[Y22] - Stacker Conveyor; Structural Backfill, (Sustaining Capital CAD\$67,574)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-20-1193.00	[Y22] - Stacker Conveyor; Concrete work, (Sustaining Capital CAD\$766,170)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-30-1194.00	[Y22] - Stacker Conveyor; Structural Steel, (Sustaining Capital CAD\$406,940)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C22-55-1195.00	[Y22] - Sulphurets Pit Coarse Ore Reclaim Apron Feeder Stockpile Inserts, (Sustaining Capital CAD\$57,232)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-55-1196.00	[Y22] - Sulphurets Pit Coarse Ore Reclaim Apron Feeder Feed Chutes, (Sustaining Capital CAD\$315,877)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-55-1197.00	[Y22] - Sulphurets Pit Coarse Ore Reclaim Apron Feeder Feed Chute AR Liners, (Sustaining Capital CAD\$224,856)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-50-1198.00	[Y22] - Sulphurets Pit Coarse Ore Reclaim Apron Feeder No.1, 1524 W x 7600 L, (Sustaining Capital CAD\$309,890) [C22-FDR-001]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-50-1199.00	[Y22] - Sulphurets Pit Coarse Ore Reclaim Apron Feeder No.2, 1524 W x 7600 L, (Sustaining Capital CAD\$309,890) [C22-FDR-002]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-55-1200.00	[Y22] - Sulphurets Pit Coarse Ore Reclaim Apron Feeder Dribbles Chutes, (Sustaining Capital CAD\$315,877)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-55-1201.00	[Y22] - Sulphurets Pit Coarse Ore Reclaim Apron Feeder Dribbles Chute AR Liners, (Sustaining Capital CAD\$224,856)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-55-1202.00	[Y22] - Sulphurets Pit Coarse Ore Reclaim Apron Feeder Discharge Chutes, (Sustaining Capital CAD\$52,487)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-55-1203.00	[Y22] - Sulphurets Pit Coarse Ore Reclaim Apron Feeder Discharge Chute AR Liners, (Sustaining Capital CAD\$10,945)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-50-1204.00	[Y22] - Sulphurets Coarse Ore Stockpile Discharge Conveyor, 1524 W x 30500 L, (Sustaining Capital CAD\$356,000) [C22-CNV-011]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-55-1205.00	[Y22] - Sulphurets Coarse Ore Stockpile Discharge Conveyor Head Chute, (Sustaining Capital CAD\$14,315)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-55-1206.00	[Y22] - Sulphurets Coarse Ore Stockpile Discharge Conveyor Head Chute AR Liner, (Sustaining Capital CAD\$8,840)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-50-1207.00	[Y22] - Sulphurets-Mitchell Tunnel Conveyor, 1829 W x 2960000 L, (Sustaining Capital CAD\$38,503,680) [C22-CNV-012]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-55-1208.00	[Y22] - Sulphurets-Mitchell Tunnel Conveyor Head Chute, (Sustaining Capital CAD\$14,315)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-55-1209.00	[Y22] - Sulphurets-Mitchell Tunnel Conveyor Head Chute AR Liner, (Sustaining Capital CAD\$8,840)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-50-1210.00	[Y22] - Sulphurets-Mitchell Tunnel Conveyor Belt Scale, (Sustaining Capital CAD\$46,545) [C22-SCB-015]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C22-55-1211.00	[Y22] - Sulphurets-Mitchell Ore Transfer Conveyor Bypass Chute, (Sustaining Capital CAD\$140,340)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-50-1212.00	[Y22] - Sulphurets-Mitchell Ore Transfer Conveyor, (Sustaining Capital CAD\$4,403,200) [C22-CNV-151]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-55-1213.00	[Y22] - Sulphurets-Mitchell Ore Transfer Conveyor Head Chute, (Sustaining Capital CAD\$14,315)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-55-1214.00	[Y22] - Sulphurets-Mitchell Ore Transfer Conveyor Head Chute AR Liner, (Sustaining Capital CAD\$8,840)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-50-1215.00	[Y22] - Sulphurets Coarse Ore Reclaim Hoist, 2T, (Sustaining Capital CAD\$30,791) [C22-HOI-042]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-50-1216.00	[Y22] - Sulphurets Coarse Ore Reclaim Dust Collector Badhouse, (Sustaining Capital CAD\$130,478)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-50-1217.00	[Y22] - Sulphurets Coarse Ore Reclaim Dust Collector With Exhaust Fan, 14,000 CFM, included [C22-COL-031]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-50-1218.00	[Y22] - Sulphurets Coarse Ore Reclaim Dust Collector Screw Conveyor, included [C22-CNV-032]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-50-1219.00	[Y22] - Sulphurets Coarse Ore Reclaim Dust Collector Rotary Valve, included [C22-VLV-033]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-58-1221.00	[Y22] - Sulphurets Coarse Ore Dust Ducting, 14,000 CFM [C22-DUC-001]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-58-1222.00	[Y22] - HVAC Allowance	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-60-1242.00	[Y22] - Piping Allowance 0.75%, (Sustaining Capital CAD\$341,268)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-80-1243.00	[Y22] - Field Instrumentation & Bulks Allowance, (Sustaining Capital CAD\$130,361)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22-70-1244.00	[Y22] - Electrical Motor Wiring Allowance, included in B17	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22 - Sulphurets Coarse Ore Stockpile [Sustaining] Subtotal					0.00		0		0		0		0		0
<u>C24 - Mitchell Coarse Ore Stockpile</u>															
C24-13-1246.00	Coarse Ore Stockpile & Overall Site Plan, 1.5m x 80m	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C24-13-1247.00	Coarse Ore Stockpile & Overall Site Plan; Detail Excavation	11,760. m3	0.03	1.30	458.64	103.68	47,552	0.00	0	5.28	62,093	0.00	0	9.32	109,645
C24-13-1248.00	Coarse Ore Stockpile & Overall Site Plan; Structural Backfill	7,305. m3	0.10	1.30	949.65	103.68	98,460	7.68	56,102	3.84	28,051	0.00	0	25.00	182,613
C24-20-1249.00	Coarse Ore Stockpile & Overall Site Plan; Concrete work	16,940. m3	7.00	1.30	154,154.00	103.68	15,982,686	643.20	10,895,808	19.20	325,248	0.00	0	1,605.89	27,203,742
C24-30-1250.00	Coarse Ore Stockpile & Overall Site Plan; Structural Steel	3,345. t	22.00	1.30	95,667.00	103.68	9,918,754	4,608.00	15,413,760	240.00	802,800	0.00	0	7,813.25	26,135,314
C24-40-1251.00	Coarse Ore Stockpile & Overall Site Plan; Wall Cladding	4,950. m2	0.95	1.30	6,113.25	103.68	633,822	81.60	403,920	14.40	71,280	0.00	0	224.04	1,109,022
C24-40-1252.00	Coarse Ore Stockpile & Overall Site Plan; Roof Cladding	19,185. m2	0.95	1.30	23,693.48	103.68	2,456,539	81.60	1,565,496	14.40	276,264	0.00	0	224.04	4,298,299
C24-13-1253.00	Coarse Ore Stockpile Tunnels; Main Conveyor Tunnel, 7m x 80m x 13m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C24-13-1254.00	Coarse Ore Stockpile Tunnels; Drawdown Tunnels, 7.5m x 160m x 9m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C24-13-1255.00	Coarse Ore Stockpile Tunnels; Connecting Tunnels, 4.5m x 55m x 5m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C24-13-1256.00	Coarse Ore Stockpile Tunnels; Detail Excavation	20,520. m3	0.06	1.30	1,600.56	103.68	165,946	0.00	0	3.60	73,872	0.00	0	11.69	239,818
C24-13-1257.00	Coarse Ore Stockpile Tunnels; Structural Backfill	9,600. m3	0.10	1.30	1,248.00	103.68	129,393	7.68	73,728	3.84	36,864	0.00	0	25.00	239,985
C24-20-1258.00	Coarse Ore Stockpile Tunnels; Concrete work	13,235. m3	7.00	1.30	120,438.50	103.68	12,487,063	643.20	8,512,752	19.20	254,112	0.00	0	1,605.89	21,253,927
C24-30-1259.00	Coarse Ore Stockpile Tunnels; Structural Steel	420. t	22.00	1.30	12,012.00	103.68	1,245,404	4,608.00	1,935,360	240.00	100,800	0.00	0	7,813.25	3,281,564
C24-13-1261.00	Stacker Conveyors; Detail Excavation	6,755. m3	0.06	1.30	526.89	103.68	54,628	0.00	0	3.60	24,318	0.00	0	11.69	78,946
C24-13-1262.00	Stacker Conveyors; Structural Backfill	6,160. m3	0.10	1.30	800.80	103.68	83,027	7.68	47,309	3.84	23,654	0.00	0	25.00	153,990
C24-20-1263.00	Stacker Conveyors; Concrete work	727. m3	7.00	1.30	6,615.70	103.68	685,916	643.20	467,606	19.20	13,958	0.00	0	1,605.89	1,167,481



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C24-30-1264.00	Stacker Conveyors; Structural Steel	90. t	22.00	1.30	2,574.00	103.68	266,872	4,608.00	414,720	240.00	21,600	0.00	0	7,813.25	703,192
C24-55-1269.00	Mitchell Coarse Ore Reclaim Apron Feeder Stockpile Inserts	6. ea	40.00	1.30	312.00	103.68	32,348	19,200.00	115,200	2,880.00	17,280	0.00	0	27,471.36	164,828
C24-55-1270.00	Mitchell Coarse Ore Reclaim Apron Feeder Feed Chutes (6x)	75,720. kg	0.06	1.30	5,906.16	103.68	612,351	0.08	5,815	0.03	2,181	5.28	399,802	13.47	1,020,148
C24-55-1271.00	Mitchell Coarse Ore Reclaim Apron Feeder Feed Chute AR Liners (6x)	71,880. kg	0.04	1.30	3,270.54	103.68	339,090	0.08	5,520	0.03	2,070	5.28	379,526	10.10	726,206
C24-50-1272.00	Mitchell Coarse Ore Reclaim Apron Feeder No.1, 1829 W x 8500 L [C24-FDR-001]	1. ea	625.00	1.30	812.50	103.68	84,240	192.00	192	5,280.00	5,280	252,504.47	252,504	342,216.47	342,216
C24-50-1273.00	Mitchell Coarse Ore Reclaim Apron Feeder No.2, 1829 W x 8500 L [C24-FDR-002]	1. ea	625.00	1.30	812.50	103.68	84,240	192.00	192	5,280.00	5,280	252,504.47	252,504	342,216.47	342,216
C24-50-1274.00	Mitchell Coarse Ore Reclaim Apron Feeder No.3, 1829 W x 8500 L [C24-FDR-003]	1. ea	625.00	1.30	812.50	103.68	84,240	192.00	192	5,280.00	5,280	252,504.47	252,504	342,216.47	342,216
C24-50-1275.00	Mitchell Coarse Ore Reclaim Apron Feeder No.4, 1829 W x 8500 L [C24-FDR-004]	1. ea	625.00	1.30	812.50	103.68	84,240	192.00	192	5,280.00	5,280	252,504.47	252,504	342,216.47	342,216
C24-50-1276.00	Mitchell Coarse Ore Reclaim Apron Feeder No.5, 1829 W x 8500 L [C24-FDR-005]	1. ea	625.00	1.30	812.50	103.68	84,240	192.00	192	5,280.00	5,280	252,504.47	252,504	342,216.47	342,216
C24-50-1277.00	Mitchell Coarse Ore Reclaim Apron Feeder No.6, 1829 W x 8500 L [C24-FDR-006]	1. ea	625.00	1.30	812.50	103.68	84,240	192.00	192	5,280.00	5,280	252,504.47	252,504	342,216.47	342,216
C24-55-1278.00	Mitchell Coarse Ore Reclaim Apron Feeder Dribbles Chute	75,720. kg	0.06	1.30	5,906.16	103.68	612,351	0.08	5,815	0.03	2,181	5.28	399,802	13.47	1,020,148
C24-55-1279.00	Mitchell Coarse Ore Reclaim Apron Feeder Dribbles Chute AR Liners (6x)	71,880. kg	0.04	1.30	3,270.54	103.68	339,090	0.08	5,520	0.03	2,070	5.28	379,526	10.10	726,206
C24-55-1280.00	Mitchell Coarse Ore Reclaim Apron Feeder Discharge Chute	6,120. kg	0.06	1.30	477.36	103.68	49,493	0.08	470	0.03	176	5.28	32,314	13.47	82,453
C24-55-1281.00	Mitchell Coarse Ore Reclaim Apron Feeder Discharge Chute AR Liners (6x)	5,040. kg	0.04	1.30	229.32	103.68	23,776	0.08	387	0.03	145	5.28	26,611	10.10	50,919
C24-50-1282.00	Coarse Ore Discharge Conveyor No.1, 1580 W x 25000 L [C24-FDR-031]	25. m	22.00	1.30	715.00	103.68	74,131	48.00	1,200	144.00	3,600	11,157.76	278,944	14,315.01	357,875
C24-50-1283.00	Coarse Ore Discharge Conveyor No.2, 1580 W x 25000 L [C24-FDR-032]	25. m	22.00	1.30	715.00	103.68	74,131	48.00	1,200	144.00	3,600	11,157.76	278,944	14,315.01	357,875



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C24-50-1284.00	Coarse Ore Discharge Conveyor No.3, 1580 W x 25000 L [C24-FDR-033]	25. m	22.00	1.30	715.00	103.68	74,131	48.00	1,200	144.00	3,600	11,157.76	278,944	14,315.01	357,875
C24-50-1285.00	Coarse Ore Discharge Conveyor No.4, 1580 W x 25000 L [C24-FDR-034]	25. m	22.00	1.30	715.00	103.68	74,131	48.00	1,200	144.00	3,600	11,157.76	278,944	14,315.01	357,875
C24-50-1286.00	Coarse Ore Discharge Conveyor No.5, 1580 W x 25000 L [C24-FDR-035]	25. m	22.00	1.30	715.00	103.68	74,131	48.00	1,200	144.00	3,600	11,157.76	278,944	14,315.01	357,875
C24-50-1287.00	Coarse Ore Discharge Conveyor No.6, 1580 W x 25000 L [C24-FDR-036]	25. m	22.00	1.30	715.00	103.68	74,131	48.00	1,200	144.00	3,600	11,157.76	278,944	14,315.01	357,875
C24-55-1288.00	Coarse Ore Discharge Conveyor Head Chutes (6x)	6,120. kg	0.06	1.30	477.36	103.68	49,493	0.08	470	0.03	176	5.28	32,314	13.47	82,453
C24-55-1289.00	Coarse Ore Discharge Conveyor Head Chute AR Liners (6x)	5,040. kg	0.04	1.30	229.32	103.68	23,776	0.08	387	0.03	145	5.28	26,611	10.10	50,919
C24-50-1290.00	Coarse Ore Stockpile Transfer Conveyor, 1829 W x 100000 L [C24-CNV-021]	100. m	20.00	1.30	2,600.00	103.68	269,568	48.00	4,800	144.00	14,400	16,423.51	1,642,351	19,311.19	1,931,119
C24-55-1291.00	Coarse Ore Stockpile Transfer Conveyor Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
C24-55-1292.00	Coarse Ore Stockpile Transfer Conveyor Head Chute AR Liners (6x)	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
C24-50-1293.00	Coarse Ore Stockpile Discharge Conveyor Self Cleaner Magnet [C24-MGT-027]	1. ea	20.00	1.30	26.00	103.68	2,696	24.00	24	480.00	480	28,800.00	28,800	31,999.68	32,000
C24-50-1294.00	Mitchell Coarse Ore Stockpile Hoist No.1 (20m lift), 2T [C24-HOI-041]	1. ea	40.00	1.30	52.00	103.68	5,391	120.00	120	48.00	48	24,000.00	24,000	29,559.36	29,559
C24-50-1295.00	Mitchell Coarse Ore Stockpile Hoist No.2 (20m lift), 2T [C24-HOI-042]	1. ea	40.00	1.30	52.00	103.68	5,391	120.00	120	48.00	48	24,000.00	24,000	29,559.36	29,559
C24-50-1296.00	Mitchell Coarse Ore Reclaim Dust Collector Baghouse	1. lot	320.00	1.30	416.00	103.68	43,131	240.00	240	384.00	384	146,976.00	146,976	190,730.88	190,731
C24-50-1297.00	Mitchell Coarse Ore Reclaim Dust Collector With Exhaust Fan, included [C24-COL-051]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C24-50-1298.00	Mitchell Coarse Ore Reclaim Dust Collector Screw Conveyor, included [C24-CNV-052]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C24-50-1299.00	Mitchell Coarse Ore Reclaim Dust Collector Rotary Valve, included [C24-VLV-053]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C24-50-1300.00	Mitchell Coarse Ore Dust Ducting, 36,000 CFM [C24-DUC-001]	1. lot	1,200.00	1.30	1,560.00	103.68	161,741	105,600.00	105,600	6,912.00	6,912	0.00	0	274,252.79	274,253
C24-50-1301.00	Mine Site Transportation Tunnel Ventilation No.1, included in Area D24 - Tunnel Conveyance [C24-FAN-001]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C24-50-1302.00	Mine Site Conveying Tunnel Ventilation No.2, included in Area D24 - Tunnel Conveyance [C24-FAN-002]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C24-50-1303.00	Plant Site Transportation Tunnel Ventilation No.3, included in Area D24 - Tunnel Conveyance [C24-FAN-003]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C24-50-1304.00	Plant Site Conveying Tunnel Ventilation No.4, included in Area D24 - Tunnel Conveyance [C24-FAN-004]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C24-58-1306.00	Fire Protection; Auto Sprinklers @ Reclaim Tunnel Conveyor	252. ea	4.00	1.30	1,310.40	103.68	135,862	960.00	241,920	4.80	1,210	0.00	0	1,503.94	378,992
C24-58-1307.00	Fire Protection; Auto Sprinklers @ Apron Feeders	168. ea	4.00	1.30	873.60	103.68	90,575	960.00	161,280	4.80	806	0.00	0	1,503.94	252,661
C24-58-1308.00	Fire Protection; Fire Extinguishers	1. lot	4.00	1.30	5.20	103.68	539	384.00	384	4.80	5	0.00	0	927.94	928
C24-58-1309.00	HVAC Allowance	1. lot	145.00	1.00	145.00	103.68	15,034	1,056.00	1,056	5,553.60	5,554	130,435.20	130,435	152,078.40	152,078
C24-60-1329.00	Piping Allowance 1.00%	1. lot	340.68	1.00	340.68	103.68	35,321	70,001.29	70,001	1,020.30	1,020	0.00	0	106,342.81	106,343
C24-80-1330.00	Field Instrumentation & Bulks Allowance	1. lot	792.00	1.30	1,029.60	103.68	106,749	23,644.80	23,645	3,532.80	3,533	124,800.00	124,800	258,726.52	258,727
C24-70-1331.00	Electrical Motor Wiring Allowance, included in A20/A30	1. lot	250.00	1.00	250.00	103.68	25,920	24,000.00	24,000	4,800.00	4,800	0.00	0	54,720.00	54,720
C24 - Mitchell Coarse Ore Stockpile Subtotal					464,874.48		48,198,185		40,567,831		2,233,872		6,996,380		97,996,268

C34 - Mitchell Rock Stockpile [Sustaining]

C34-13-1333.00	[Y26] - Stacker Conveyors; Detail Excavation, (Sustaining Capital CAD\$82,235)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C34-13-1334.00	[Y26] - Stacker Conveyors; Structural Backfill, (Sustaining Capital CAD\$160,406)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C34-20-1335.00	[Y26] - Stacker Conveyors; Concrete work, (Sustaining Capital CAD\$1,212,780)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
C34-30-1336.00	[Y26] - Stacker Conveyors; Structural Steel, (Sustaining Capital CAD\$732,492)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C34-50-1337.00	[Y26] - Mitchell Pit Rock Pile Conveyor, 1829 W x 1200000 L, (Sustaining Capital CAD\$13,267,212) [C34-CNV-111]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C34-55-1338.00	[Y26] - Mitchell Pit Rock Pile Conveyor Head Chute, (Sustaining Capital CAD\$14,315)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C34-55-1339.00	[Y26] - Mitchell Pit Rock Pile Conveyor Head Chute AR Liner, (Sustaining Capital CAD\$8,840)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C34-50-1340.00	[Y26] - Kerr Rock Conveyor No.2, 1829 W x 1660000 L, (Sustaining Capital CAD\$18,352,977) [C34-CNV-112]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C34-55-1341.00	[Y26] - Kerr Rock Conveyor No.2 Head Chute, (Sustaining Capital CAD\$14,315)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C34-55-1342.00	[Y26] - Kerr Rock Conveyor No.2 Head Chute AR Liner, (Sustaining Capital CAD\$8,840)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C34-50-1343.00	[Y26] - Kerr Rock Conveyor No.3, 1829 W x 700000 L, (Sustaining Capital CAD\$7,739,207) [C34-CNV-113]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C34-55-1344.00	[Y26] - Kerr Rock Conveyor No.3 Head Chute, (Sustaining Capital CAD\$14,315)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C34-55-1345.00	[Y26] - Kerr Rock Conveyor No.3 Head Chute AR Liner, (Sustaining Capital CAD\$8,840)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C34-50-1346.00	[Y26] - Kerr Rock Stacker Conveyor, 1829 W x 30000 L, (Sustaining Capital CAD\$340,104) [C34-CNV-113]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C34-55-1347.00	[Y26] - Kerr Rock Stacker Conveyor Head Chute, (Sustaining Capital CAD\$14,315)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C34-55-1348.00	[Y26] - Kerr Rock Stacker Conveyor Head Chute AR Liner, (Sustaining Capital CAD\$8,840)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C34 - Mitchell Rock Stockpile [Sustaining] Subtotal					0.00		0		0		0		0		0
<u>D10 - Sulphurets-Mitchell Tunnel [Sustaining] (SMCT)</u>															
D10-1.05-1350.00	[Y20] - Sulphurets-Mitchell Conveyor Tunnel, (Sustaining Capital CAD\$26,212,872) [260-1]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D10 - Sulphurets-Mitchell Tunnel [Sustaining] (SMCT) Subtotal					0.00		0		0		0		0		0
<u>D12 - Mitchell-Tiegen Tunnel (MTT)</u>															



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D12-1.05-1352.00	Overall Indirects Mobilization [00-1]	1. LS	2,100.00	1.00	2,100.00	101.88	213,944	409,138.93	409,139	0.00	0	0.00	0	623,083.42	623,083
D12-1.05-1353.00	MTT1 WP - Set-up [10-2]	14. DY	40.00	1.00	560.00	91.61	51,304	3,793.17	53,104	0.00	0	0.00	0	7,457.76	104,409
D12-1.05-1354.00	MTT1 WP - Portal Construction [10-4]	14. DY	80.00	1.00	1,120.00	91.61	102,608	15,374.13	215,238	0.00	0	0.00	0	22,703.31	317,846
D12-1.05-1355.00	MTT1 WP - Mining Crew Support [10-11]	1,188. DY	120.00	1.00	142,560.00	87.40	12,459,122	1,461.20	1,735,902	1,021.92	1,214,041	0.00	0	12,970.59	15,409,064
D12-1.05-1356.00	MTT1 WP - U/G Equipment [10-12]	1,188. DY	0.00	1.00	0.00	0.00	0	0.00	0	5,289.60	6,284,045	0.00	0	5,289.60	6,284,045
D12-1.05-1357.00	MTT1 WP - Teardown [10-13]	10. DY	40.00	1.00	400.00	91.61	36,646	487.07	4,871	0.00	0	0.00	0	4,151.65	41,517
D12-1.05-1358.00	MTT1 UTA WP - Mining Crew Support [15-11]	1,287. DY	120.00	1.00	154,440.00	87.40	13,497,382	1,461.20	1,880,560	1,021.92	1,315,211	0.00	0	12,970.59	16,693,153
D12-1.05-1359.00	MTT1 UTA WP- U/G Equipment [15-12]	1,287. DY	0.00	1.00	0.00	0.00	0	0.00	0	5,289.60	6,807,715	0.00	0	5,289.60	6,807,715
D12-1.05-1360.00	MTT1 UTA WP - Teardown [15-13]	10. DY	40.00	1.00	400.00	91.61	36,646	487.07	4,871	0.00	0	0.00	0	4,151.65	41,517
D12-1.05-1361.00	MTT2 UTA Saddle - Mining Crew Support [20-11]	301. DY	120.00	1.00	36,120.00	87.40	3,156,730	1,461.20	439,820	1,021.92	307,598	0.00	0	12,970.59	3,904,148
D12-1.05-1362.00	MTT2 UTA Saddle - U/G Equipment [20-12]	301. DY	0.00	1.00	0.00	0.00	0	0.00	0	5,289.60	1,592,170	0.00	0	5,289.60	1,592,170
D12-1.05-1363.00	MTT2 UTA Saddle - Teardown [20-13]	10. DY	40.00	1.00	400.00	91.61	36,646	487.07	4,871	0.00	0	0.00	0	4,151.65	41,517
D12-1.05-1364.00	MTT2 Saddle UTA - Set-up [21-2]	14. DY	40.00	1.00	560.00	91.61	51,304	3,793.17	53,104	0.00	0	0.00	0	7,457.76	104,409
D12-1.05-1365.00	MTT2 Saddle UTA - Portal Construction [21-4]	14. DY	80.00	1.00	1,120.00	91.61	102,608	15,374.13	215,238	0.00	0	0.00	0	22,703.31	317,846
D12-1.05-1366.00	MTT2 Saddle UTA - Mining Crew Support [21-11]	327. DY	120.00	1.00	39,240.00	87.40	3,429,405	1,461.20	477,811	1,021.92	334,168	0.00	0	12,970.59	4,241,384
D12-1.05-1367.00	MTT2 Saddle UTA - U/G Equipment [21-12]	327. DY	0.00	1.00	0.00	0.00	0	0.00	0	5,289.60	1,729,699	0.00	0	5,289.60	1,729,699



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D12-1.05-1368.00	MTT2 Saddle UTA - Teardown [21-13]	10. DY	40.00	1.00	400.00	91.61	36,646	487.07	4,871	0.00	0	0.00	0	4,151.65	41,517
D12-1.05-1369.00	MTT2 Saddle EP - Set-up [30-2]	14. DY	40.00	1.00	560.00	91.61	51,304	3,793.17	53,104	0.00	0	0.00	0	7,457.76	104,409
D12-1.05-1370.00	MTT2 Saddle EP - Portal Construction [30-4]	14. DY	80.00	1.00	1,120.00	91.61	102,608	15,374.13	215,238	0.00	0	0.00	0	22,703.31	317,846
D12-1.05-1371.00	MTT3 Saddle EP - Mining Crew Support [30-11]	591. DY	120.00	1.00	70,920.00	87.40	6,198,098	1,461.20	863,567	1,021.92	603,955	0.00	0	12,970.59	7,665,620
D12-1.05-1372.00	MTT3 Saddle EP - U/G Equipment [30-12]	591. DY	0.00	1.00	0.00	0.00	0	0.00	0	5,289.60	3,126,154	0.00	0	5,289.60	3,126,154
D12-1.05-1373.00	MTT3 Saddle EP - Teardown [30-13]	10. DY	40.00	1.00	400.00	91.61	36,646	487.07	4,871	0.00	0	0.00	0	4,151.65	41,517
D12-1.05-1374.00	MTT3 EP - Set-up [35-2]	14. DY	40.00	1.00	560.00	91.61	51,304	3,793.17	53,104	0.00	0	0.00	0	7,457.76	104,409
D12-1.05-1375.00	MTT3 EP - Portal Construction [35-4]	14. DY	80.00	1.00	1,120.00	91.61	102,608	15,374.13	215,238	0.00	0	0.00	0	22,703.31	317,846
D12-1.05-1376.00	MTT3 EP - Mining Crew Support [35-11]	638. DY	120.00	1.00	76,560.00	87.40	6,691,010	1,461.20	932,244	1,021.92	651,985	0.00	0	12,970.59	8,275,238
D12-1.05-1377.00	MTT3 EP - U/G Equipment [35-12]	638. DY	0.00	1.00	0.00	0.00	0	0.00	0	5,289.60	3,374,765	0.00	0	5,289.60	3,374,765
D12-1.05-1378.00	MTT3 EP - Teardown [35-13]	10. DY	40.00	1.00	400.00	91.61	36,646	487.07	4,871	0.00	0	0.00	0	4,151.65	41,517
D12-1.05-1379.00	MTT4 UTA Access - Set-up [40-2]	14. DY	40.00	1.00	560.00	91.61	51,304	3,793.17	53,104	0.00	0	0.00	0	7,457.76	104,409
D12-1.05-1380.00	MTT4 UTA Access - Portal Construction [40-4]	14. DY	80.00	1.00	1,120.00	91.61	102,608	15,374.13	215,238	0.00	0	0.00	0	22,703.31	317,846
D12-1.05-1381.00	MTT4 UTA Access - Mining Crew Support [40-11]	47. DY	120.00	1.00	5,640.00	87.40	492,911	1,461.20	68,676	1,021.92	48,030	0.00	0	12,970.59	609,618
D12-1.05-1382.00	MTT4 UTA Access - U/G Equipment [40-12]	47. DY	0.00	1.00	0.00	0.00	0	0.00	0	5,289.60	248,611	0.00	0	5,289.60	248,611
D12-1.05-1383.00	MTT1 WP - Mobilization [10-1]	1. LS	600.00	1.00	600.00	89.00	53,398	193,631.00	193,631	0.00	0	0.00	0	247,028.78	247,029



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D12-1.05-1384.00	MTT2 Saddle UTA - Mobilization [21-1]	1. LS	600.00	1.00	600.00	89.00	53,398	193,631.00	193,631	0.00	0	0.00	0	247,028.78	247,029
D12-1.05-1385.00	MTT2 Saddle EP - Mobilization [30-1]	1. LS	600.00	1.00	600.00	89.00	53,398	193,631.00	193,631	0.00	0	0.00	0	247,028.78	247,029
D12-1.05-1386.00	MTT3 EP - Mobilization [35-1]	1. LS	600.00	1.00	600.00	89.00	53,398	193,631.00	193,631	0.00	0	0.00	0	247,028.78	247,029
D12-1.05-1387.00	MTT4 UTA Access - Mobilization [40-1]	1. LS	600.00	1.00	600.00	89.00	53,398	193,631.00	193,631	0.00	0	0.00	0	247,028.78	247,029
D12-1.05-1388.00	MTT1 WP - Portal Excavation [10-3]	100. m	9.60	1.00	960.00	91.61	87,950	2,476.59	247,656	65.47	6,547	0.00	0	3,421.58	342,153
D12-1.05-1389.00	MTT1 WP - CL1-Tunnels Excavation [10-5]	2,134. m	12.40	1.00	26,451.67	91.61	2,423,362	2,786.11	5,945,547	122.44	261,290	0.00	0	4,044.14	8,630,200
D12-1.05-1390.00	MTT1 WP - CL2-Tunnels Excavation [10-6]	1,293.6 m	13.99	1.00	18,100.60	91.61	1,658,282	3,162.13	4,090,527	140.77	182,100	0.00	0	4,584.81	5,930,910
D12-1.05-1391.00	MTT1 WP - CL3-Tunnels Excavation [10-7]	2,651.88 m	14.79	1.00	39,220.24	91.61	3,593,151	3,314.28	8,789,068	426.25	1,130,365	0.00	0	5,095.48	13,512,585
D12-1.05-1392.00	MTT1 WP - CL4-Tunnels Excavation [10-8]	194.04 m	20.81	1.00	4,038.27	91.61	369,965	5,029.98	976,011	426.25	82,709	0.00	0	7,362.89	1,428,685
D12-1.05-1393.00	MTT1 WP - CL5-Tunnels Excavation [10-9]	194.4 m	26.61	1.00	5,173.35	91.61	473,955	17,650.47	3,431,278	564.83	109,804	0.00	0	20,653.33	4,015,037
D12-1.05-1394.00	MTT1 WP - Tunnels Services [10-10]	6,518. m	0.00	1.00	0.00	0.00	0	412.23	2,686,924	0.00	0	0.00	0	412.23	2,686,924
D12-1.05-1395.00	MTT1 UTA WP - CL1-Tunnels Excavation [15-5]	2,134. m	12.40	1.00	26,451.67	91.61	2,423,362	2,786.11	5,945,547	140.77	300,404	0.00	0	4,062.47	8,669,314
D12-1.05-1396.00	MTT1 UTA WP - CL2-Tunnels Excavation [15-6]	1,294. m	13.99	1.00	18,100.60	91.61	1,658,282	3,162.08	4,091,731	140.77	182,157	0.00	0	4,584.36	5,932,170
D12-1.05-1397.00	MTT1 UTA WP - CL3-Tunnels Excavation [15-7]	2,651.88 m	14.79	1.00	39,220.24	91.61	3,593,151	3,314.28	8,789,068	426.25	1,130,365	0.00	0	5,095.48	13,512,585
D12-1.05-1398.00	MTT1 UTA WP - CL4-Tunnels Excavation [15-8]	194.04 m	20.81	1.00	4,038.27	91.61	369,965	5,029.98	976,011	426.25	82,709	0.00	0	7,362.89	1,428,685
D12-1.05-1399.00	MTT1 UTA WP - CL5-Tunnels Excavation [15-9]	194.04 m	26.66	1.00	5,173.35	91.61	473,955	17,651.08	3,424,993	564.83	109,600	0.00	0	20,658.49	4,008,547



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D12-1.05-1400.00	MTT1 UTA WP - Tunnels Services [15-10]	6,518. m	0.00	1.00	0.00	0.00	0	412.23	2,686,924	0.00	0	0.00	0	412.23	2,686,924
D12-1.05-1401.00	MTT2 UTA Saddle - CL1-Tunnels Excavation [20-5]	553.1 m	12.39	1.00	6,854.20	91.61	627,946	2,786.07	1,540,973	140.77	77,860	0.00	0	4,062.16	2,246,779
D12-1.05-1402.00	MTT2 UTA Saddle - CL2-Tunnels Excavation [20-6]	335.2 m	13.99	1.00	4,690.26	91.61	429,697	3,162.13	1,059,948	140.77	47,186	0.00	0	4,584.81	1,536,832
D12-1.05-1403.00	MTT2 UTA Saddle - CL3-Tunnels Excavation [20-7]	687.16 m	14.79	1.00	10,162.82	91.61	931,064	3,314.28	2,277,439	426.25	292,902	0.00	0	5,095.48	3,501,405
D12-1.05-1404.00	MTT2 UTA Saddle - CL4-Tunnels Excavation [20-8]	50.28 m	20.81	1.00	1,046.40	91.61	95,866	5,029.98	252,906	426.25	21,432	0.00	0	7,362.88	370,204
D12-1.05-1405.00	MTT2 UTA Saddle - CL5-Tunnels Excavation [20-9]	50.28 m	26.66	1.00	1,340.53	91.61	122,812	17,651.08	887,493	564.83	28,400	0.00	0	20,658.48	1,038,705
D12-1.05-1406.00	MTT2 UTA Saddle - Tunnels Services [20-10]	1,726. m	0.00	1.00	0.00	0.00	0	420.82	726,331	0.00	0	0.00	0	420.82	726,331
D12-1.05-1407.00	MTT2 Saddle UTA - Portal Excavation [21-3]	100. m	9.60	1.00	960.00	91.61	87,950	2,476.59	247,656	65.47	6,547	0.00	0	3,421.58	342,153
D12-1.05-1408.00	MTT2 Saddle UTA - CL1-Tunnels Excavation [21-5]	553.1 m	12.39	1.00	6,854.20	91.61	627,946	2,786.07	1,540,973	140.77	77,860	0.00	0	4,062.16	2,246,779
D12-1.05-1409.00	MTT2 Saddle UTA - CL2-Tunnels Excavation [21-6]	335.2 m	13.99	1.00	4,690.26	91.61	429,697	3,162.13	1,059,948	140.77	47,186	0.00	0	4,584.81	1,536,832
D12-1.05-1410.00	MTT2 Saddle UTA - CL3-Tunnels Excavation [21-7]	687.16 m	14.79	1.00	10,162.82	91.61	931,064	3,314.28	2,277,439	426.25	292,902	0.00	0	5,095.48	3,501,405
D12-1.05-1411.00	MTT2 Saddle UTA - CL4-Tunnels Excavation [21-8]	50.28 m	20.81	1.00	1,046.40	91.61	95,866	5,029.98	252,906	426.25	21,432	0.00	0	7,362.88	370,204
D12-1.05-1412.00	MTT2 Saddle UTA - CL5-Tunnels Excavation [21-9]	50.28 m	26.66	1.00	1,340.53	91.61	122,812	17,651.08	887,493	564.83	28,400	0.00	0	20,658.48	1,038,705
D12-1.05-1413.00	MTT2 Saddle UTA - Tunnels Services [21-10]	1,726. m	0.00	1.00	0.00	0.00	0	420.82	726,331	0.00	0	0.00	0	420.82	726,331
D12-1.05-1414.00	MTT2 Saddle EP - Portal Excavation [30-3]	100. m	9.60	1.00	960.00	91.61	87,950	2,476.59	247,656	65.47	6,547	0.00	0	3,421.58	342,153
D12-1.05-1415.00	MTT3 Saddle EP - CL1-Tunnels Excavation [30-5]	1,016.75 m	12.39	1.00	12,600.12	91.61	1,154,357	2,786.07	2,832,735	140.77	143,128	0.00	0	4,062.18	4,130,220



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D12-1.05-1416.00	MTT3 Saddle EP - CL2-Tunnels Excavation [30-6]	612.2 m	14.08	1.00	8,622.13	91.61	789,914	3,163.24	1,936,537	140.77	86,180	0.00	0	4,594.30	2,812,631
D12-1.05-1417.00	MTT3 Saddle EP - CL3-Tunnels Excavation [30-7]	1,263.21 m	14.79	1.00	18,682.37	91.61	1,711,580	3,314.28	4,186,631	426.25	538,444	0.00	0	5,095.48	6,436,655
D12-1.05-1418.00	MTT3 Saddle EP - CL4-Tunnels Excavation [30-8]	92.43 m	20.81	1.00	1,923.61	91.61	176,231	5,029.98	464,924	426.25	39,399	0.00	0	7,362.86	680,553
D12-1.05-1419.00	MTT3 Saddle EP - CL5-Tunnels Excavation [30-9]	92.43 m	26.66	1.00	2,464.30	91.61	225,766	17,651.08	1,631,499	564.83	52,208	0.00	0	20,658.46	1,909,473
D12-1.05-1420.00	MTT3 Saddle EP - Tunnels Services [30-10]	3,181. m	0.00	1.00	0.00	0.00	0	415.48	1,321,628	0.00	0	0.00	0	415.48	1,321,628
D12-1.05-1421.00	MTT3 EP - Portal Excavation [35-3]	100. m	9.60	1.00	960.00	91.61	87,950	2,476.59	247,656	65.47	6,547	0.00	0	3,421.58	342,153
D12-1.05-1422.00	MTT3 EP - CL1-Tunnels Excavation [35-5]	1,016.75 m	12.39	1.00	12,600.12	91.61	1,154,357	2,786.07	2,832,735	140.77	143,128	0.00	0	4,062.18	4,130,220
D12-1.05-1423.00	MTT3 EP - CL2-Tunnels Excavation [35-6]	612.2 m	14.08	1.00	8,622.13	91.61	789,914	3,163.24	1,936,537	140.77	86,180	0.00	0	4,594.30	2,812,631
D12-1.05-1424.00	MTT3 EP - CL3-Tunnels Excavation [35-7]	1,263.21 m	14.79	1.00	18,682.37	91.61	1,711,580	3,314.28	4,186,631	426.25	538,444	0.00	0	5,095.48	6,436,655
D12-1.05-1425.00	MTT3 EP - CL4-Tunnels Excavation [35-8]	92.43 m	20.81	1.00	1,923.61	91.61	176,231	5,029.98	464,924	426.25	39,399	0.00	0	7,362.86	680,553
D12-1.05-1426.00	MTT3 EP - CL5-Tunnels Excavation [35-9]	92.43 m	26.66	1.00	2,464.30	91.61	225,766	17,651.08	1,631,499	564.83	52,208	0.00	0	20,658.46	1,909,473
D12-1.05-1427.00	MTT3 EP - Tunnels Services [35-10]	3,181. m	0.00	1.00	0.00	0.00	0	415.48	1,321,628	0.00	0	0.00	0	415.48	1,321,628
D12-1.05-1428.00	MTT4 UTA Access - Portal Excavation [40-3]	100. m	9.60	1.00	960.00	91.61	87,950	2,476.59	247,656	65.47	6,547	0.00	0	3,421.58	342,153
D12-1.05-1429.00	MTT4 UTA Access - CL1-Tunnels Excavation [40-5]	254. m	6.20	1.00	1,573.88	91.61	144,191	2,435.14	618,524	140.77	35,756	0.00	0	3,143.60	798,471
D12-1.05-1430.00	MTT4 UTA Access - Tunnels Services [40-10]	354. m	0.00	1.00	0.00	0.00	0	466.08	164,993	0.00	0	0.00	0	466.08	164,993
D12-1.05-1431.00	MTT Conveyor Transfer Chamber- 4236m [50-01]	7,238.1 m3	0.73	1.00	5,250.05	91.61	480,982	108.04	781,993	4.16	30,089	0.00	0	178.65	1,293,065



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D12-1.05-1432.00	MTT Conveyor Transfer Chamber- 8493m [50-02]	7,238.1 m3	0.73	1.00	5,250.05	91.61	480,982	108.04	781,993	4.16	30,089	0.00	0	178.65	1,293,065
D12-1.05-1433.00	MTT Conveyor Transfer Chamber- 12730m [50-03]	7,238.1 m3	0.73	1.00	5,250.05	91.61	480,982	96.43	697,973	4.16	30,089	0.00	0	167.04	1,209,044
D12-1.05-1434.00	MTT Temporary Ventilation Fan and Interconnecting Ducting during Construction (Location @ Cross Overs) - 1 set only; to be moved progressively from one cross over to next	1. lot	120.00	1.70	204.00	103.68	21,151	144,000.00	144,000	0.00	0	0.00	0	165,150.72	165,151
D12-13-1435.00	Diesel Line - drill and blast trench; 600mm wide x 1200mm deep, (Included in TMCC scope)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D12-13-1436.00	NAG Drainage Line - drill and blast trench; 600mm wide x 750mm deep, (Included in TMCC scope)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D12-13-1437.00	PAG Drainage Line - drill and blast trench; 600mm wide x 750mm deep, (Included in TMCC scope)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D12-50-1438.00	Air locks including masonry walls and doors, (Included in TMCC scope)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D12 - Mitchell-Tiegen Tunnel (MTT) Subtotal					886,449.80		79,010,967		103,646,289		34,022,684		0		216,679,940
<u>D14 - Mitchell Diversion Tunnel (MDT)</u>															
D14-1.06-1441.00	[Y5] - MDT1; MDT - Stage 1 Inlet Tunnels to North pit wall dewatering and ARD drainage tunnel, (Sustaining Capital CAD\$2,419,060)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.06-1442.00	[Y5] - MDT2; MDT - Ultimate Inlet Tunnels to North pit wall dewatering and ARD drainage tunnel, (Sustaining Capital CAD\$792,568)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.06-1443.00	MDT3; MDT - Ultimate Inlet Tunnels to O/P Diversion tunnel	1. sum	5,591.71	1.00	5,591.71	103.68	579,748	911,032.97	911,033	165,642.36	165,642	0.00	0	1,656,423.59	1,656,424
D14-1.06-1444.00	[Y5] - MDT4; MDT - North pit wall dewatering adit and ARD drainage tunnel, (Sustaining Capital CAD\$26,199,142)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.06-1445.00	[Y5] - MDT4; MDT - North pit wall Stilling Pond, (Sustaining Capital CAD\$144,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.06-1446.00	[Y5] - MDT4; MDT - North pit wall fully concrete lined sections, (Sustaining Capital CAD\$1,175,213)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.06-1447.00	[Y5] - MDT4; MDT - North pit wall Gate chambers, (Sustaining Capital CAD\$1,344,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.06-1448.00	[Y5] - Gates (gate slides, gate panel, gate actuators, electrical/mechanical), (Sustaining Capital CAD\$2,168,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D14-1.06-1449.00	[Y5] - MDT5; MDT - Raise bore inlets for North pit wall adit and ARD drainage tunnel, (Sustaining Capital CAD\$112,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.06-1450.00	[Y5] - MDT5; 1.5 m dia. raise bore with 10 pre-raise grout holes, (Sustaining Capital CAD\$336,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.06-1451.00	[Y5] - MDT5; Raise Bore Grouting: Drilling (tricone or percussion) 3, (Sustaining Capital CAD\$143,784)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.06-1452.00	[Y5] - MDT5; Raise Bore Grouting: Crew and Equipment 3, (Sustaining Capital CAD\$25,669,047)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.06-1453.00	[Y5] - MDT5; Raise Bore Grouting: Cement 3, (Sustaining Capital CAD\$36,234)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.06-1454.00	[Y5] - MDT5; Raise Bore Grouting: Bentonite 3, (Sustaining Capital CAD\$2,147)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.06-1455.00	MDT6; MDT - Access tunnel for O/P Diversion Tunnels (Year -2)	1. sum	6,144.37	1.00	6,144.37	103.68	637,049	1,001,076.22	1,001,076	182,013.86	182,014	0.00	0	1,820,138.58	1,820,139
D14-1.06-1456.00	MDT7; MDT - Raise bore Inlet Tunnel (Year -2 diversion tunnels)	1. sum	6,985.13	1.00	6,985.13	103.68	724,218	1,138,056.45	1,138,056	206,919.36	206,919	0.00	0	2,069,193.55	2,069,194
D14-1.06-1457.00	MDT8; MDT - Raise bore inlets (Year -2 diversion tunnels)	1. sum	907.41	1.00	907.41	103.68	94,080	147,840.00	147,840	26,880.00	26,880	0.00	0	268,799.99	268,800
D14-1.06-1458.00	MDT8; 1.5 m dia. upream raise bore with 10 pre-raise grout holes	1. sum	4,375.00	1.00	4,375.00	103.68	453,600	503,999.99	504,000	50,400.00	50,400	0.00	0	1,007,999.98	1,008,000
D14-1.06-1459.00	MDT8; Raise Bore Grouting: Drilling (tricone or percussion) 3	1. sum	599.10	1.00	599.10	103.68	62,115	69,016.32	69,016	6,901.63	6,902	0.00	0	138,032.64	138,033
D14-1.06-1460.00	MDT8; Raise Bore Grouting: Crew and Equipment 3	1. sum	6,313.28	1.00	6,313.28	103.68	654,561	61,605.71	61,606	53,905.00	53,905	0.00	0	770,071.40	770,071
D14-1.06-1461.00	MDT8; Raise Bore Grouting: Cement 3	1. sum	629.06	1.00	629.06	103.68	65,221	38,045.70	38,046	5,435.10	5,435	0.00	0	108,702.00	108,702
D14-1.06-1462.00	MDT8; Raise Bore Grouting: Bentonite 3	1. sum	37.28	1.00	37.28	103.68	3,865	2,254.73	2,255	322.10	322	0.00	0	6,442.09	6,442
D14-1.06-1463.00	MDT9; MDT - Main Diversion tunnel (Year -2)	1. sum	156,644.74	1.00	156,644.74	103.68	16,240,927	25,521,456.08	25,521,456	4,640,264.74	4,640,265	0.00	0	46,402,647.42	46,402,647
D14-1.06-1464.00	MDT9; MDT - Main Diversion tunnel (Year -2) Stilling Pond	1. sum	1,150.57	1.00	1,150.57	103.68	119,291	69,586.51	69,587	9,940.93	9,941	0.00	0	198,818.61	198,819



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D14-1.06-1465.00	MDT9; MDT - Main Diversion tunnel (Year -2) fully concrete lined sections	1. sum	15,234.24	1.00	15,234.24	103.68	1,579,486	2,482,050.17	2,482,050	451,281.85	451,282	0.00	0	4,512,818.48	4,512,818
D14-1.06-1466.00	MDT10; MDT - Main Diversion tunnel (Year -2) cross-connect tunnels	1. sum	10,418.18	1.00	10,418.18	103.68	1,080,157	1,697,389.00	1,697,389	308,616.18	308,616	0.00	0	3,086,161.82	3,086,162
D14-1.06-1467.00	MDT11; MDT - Main Diversion tunnel (Year -2) Gate chambers	1. sum	6,264.22	1.00	6,264.22	103.68	649,474	1,020,602.18	1,020,602	185,564.03	185,564	0.00	0	1,855,640.33	1,855,640
D14-1.06-1468.00	Gates (gate slides, gate panel, gate actuators, electrical/mechanical)	1. sum	14,051.85	1.00	14,051.85	103.68	1,456,896	2,289,407.95	2,289,408	416,255.99	416,256	0.00	0	4,162,559.91	4,162,560
D14-1.07-1469.00	[Y26] - MDT12; MDT - Access tunnel for U/G Diversion Tunnels (Year 30), (Sustaining Capital CAD\$2,590,266)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.07-1470.00	[Y26] - MDT13; MDT - Raise bore Inlet Tunnel NORTH (Year 30 diversion tunnels), (Sustaining Capital CAD\$4,431,473)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.07-1471.00	[Y26] - MDT14; MDT - Raise bore Inlet Tunnel SOUTH (Year 30 diversion tunnels), (Sustaining Capital CAD\$3,812,301)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.07-1472.00	[Y26] - MDT15; MDT - Raise bore inlets (Year 30 diversion tunnels), (Sustaining Capital CAD\$798,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.07-1473.00	[Y26] - MDT15; 1.5 m dia. upream raise bore with 10 pre-raise grout holes, (Sustaining Capital CAD\$4,189,500)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.07-1474.00	[Y26] - MDT15; Raise Bore Grouting: Drilling (tricone or percussion) 2, (Sustaining Capital CAD\$1,792,807)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.07-1475.00	[Y26] - MDT15; Raise Bore Grouting: Crew and Equipment 2, (Sustaining Capital CAD\$3,200,609)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.07-1476.00	[Y26] - MDT15; Raise Bore Grouting: Cement 2, (Sustaining Capital CAD\$451,793)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.07-1477.00	[Y26] - MDT15; Raise Bore Grouting: Bentonite 2, (Sustaining Capital CAD\$17,850)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.07-1478.00	[Y26] - MDT16a; MDT - Main Diversion tunnel (Year 30) - 1000 year peak, (Sustaining Capital CAD\$87,496,412)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.07-1479.00	[Y26] - MDT16a; MDT - Main Diversion tunnel (Year 30) Stilling Pond, (Sustaining Capital CAD\$264,056)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.07-1480.00	[Y26] - MDT16a; MDT - Main Diversion tunnel (Year 30) fully concrete lined sections, (Sustaining Capital CAD\$8,772,021)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D14-1.07-1481.00	[Y26] - MDT17; MDT - Permanent road access tunnel portal section (Year 30) - 1000 years peak, (Sustaining Capital CAD\$1,248,398)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.07-1482.00	[Y26] - MDT18; MDT - Outlet steel lined decline tunnels (Year 30 diversion tunnels) steel liner, (Sustaining Capital CAD\$16,007,838)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.07-1483.00	[Y26] - MDT18; MDT - Outlet steel lined decline tunnels (Year 30 diversion tunnels) concrete backfill, (Sustaining Capital CAD\$4,134,685)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.07-1484.00	[Y26] - MDT19; MDT - Concrete plug in main diversion tunnel at junction with permanent road access, (Sustaining Capital CAD\$1,006,400)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.07-1485.00	[Y26] - MDT20; MDT - Main Diversion tunnel (Year 30) Gate chambers, (Sustaining Capital CAD\$3,654,500)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14-1.07-1486.00	[Y26] - Gates (gate slides, gate panel, gate actuators, electrical/mechanical), (Sustaining Capital CAD\$4,336,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D14 - Mitchell Diversion Tunnel (MDT) Subtotal					235,346.14		24,400,687		36,953,420		6,710,343		0		68,064,450
<u>D16 - McTagg Diversion Tunnel (MTDT)</u>															
D16-1.07-1490.00	[Y20] - MTDT - Stage 3 McTagg Tunnel; MTDT1; MTDT - East McTagg inlet at Elevation 925 to elevation 922, (Sustaining Capital CAD\$832,121)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D16-1.07-1491.00	[Y20] - MTDT - Stage 3 McTagg Tunnel; MTDT2; MTDT - Elevation 922 to Elevation 815, (Sustaining Capital CAD\$3,012,280)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D16-1.07-1492.00	[Y20] - MTDT - Stage 3 McTagg Tunnel; MTDT3; MTDT - Elevation 815 to junction with West McTagg tunnel at Elevation 811, (Sustaining Capital CAD\$2,637,825)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D16-1.07-1493.00	[Y20] - MTDT - Stage 3 McTagg Tunnel; MTDT4; MTDT - West McTagg Glacier inlet at Elevation 905 to Elevation 903, (Sustaining Capital CAD\$649,055)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D16-1.07-1494.00	[Y20] - MTDT - Stage 3 McTagg Tunnel; MTDT5; MTDT - Elevation 903 to Elevation 811, (Sustaining Capital CAD\$2,562,934)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D16-1.07-1495.00	[Y20] - MTDT - Stage 3 McTagg Tunnel; MTDT6; MTDT - Elevation 811 to Elevation 802 junction with Stage 2 tunnel, (Sustaining Capital CAD\$973,273)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D16-1.07-1496.00	[Y20] - MTDT - Stage 3 McTagg Tunnel; MTDT7; MTDT - Concrete plug in Stage 2 inlet portal, (Sustaining Capital CAD\$502,848)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D16-1.07-1497.00	[Y20] - MTDT - Stage 3 McTagg Tunnel; MTDT8; MTDT - Junction with Stage 2 at Elevation 732 to Stage 3 outlet at Elevation 840, (Sustaining Capital CAD\$4,949,418)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D16-1.07-1498.00	[Y20] - MTDT - Stage 3 McTagg Tunnel; MTDT9; MTDT - Concrete plug in Stage 2 outlet portal, (Sustaining Capital CAD\$502,848)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D16-1.07-1499.00	[Y20] - MTDT - Stage 3 McTagg Tunnel; MTDT - Stage 3 fully concrete lined sections, (Sustaining Capital CAD\$24,355,119)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D16-1.07-1500.00	[Y10] - MTDT - Stage 2 McTagg Tunnel; MTDT10; MTDT - Inlet at Elevation 805 to junction with West McTagg Glacier tunnel at Elevation 802, (Sustaining Capital CAD\$1,356,005)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D16-1.07-1501.00	[Y10] - MTDT - Stage 2 McTagg Tunnel; MTDT11; MTDT - Elevation 802 to Elevation 798, (Sustaining Capital CAD\$1,674,666)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D16-1.07-1502.00	[Y10] - MTDT - Stage 2 McTagg Tunnel; MTDT12; MTDT - Elevation 798 to Elevation 728, (Sustaining Capital CAD\$3,220,512)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D16-1.07-1503.00	[Y10] - MTDT - Stage 2 McTagg Tunnel; MTDT13; MTDT - Elevation 728 to Elevation 684, (Sustaining Capital CAD\$8,841,153)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D16-1.07-1504.00	[Y10] - MTDT - Stage 2 McTagg Tunnel; MTDT14; MTDT - Concrete plug in Stage 1 inlet portal, (Sustaining Capital CAD\$502,848)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D16-1.07-1505.00	[Y10] - MTDT - Stage 2 McTagg Tunnel; MTDT15; MTDT - Junction with Stage 1 at Elevation 661 to Elevation 732, (Sustaining Capital CAD\$3,254,412)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D16-1.07-1506.00	[Y10] - MTDT - Stage 2 McTagg Tunnel; MTDT16; MTDT - Elevation 732 to Stage 2 outlet at Elevation 759, (Sustaining Capital CAD\$4,644,317)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D16-1.07-1507.00	[Y10] - MTDT - Stage 2 McTagg Tunnel; MTDT17; MTDT - Concrete plug in Stage 1 outlet portal, (Sustaining Capital CAD\$502,848)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D16-1.07-1508.00	[Y10] - MTDT - Stage 2 McTagg Tunnel; MTDT - Stage 2 fully concrete lined sections, (Sustaining Capital CAD\$9,879,907)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D16-1.07-1509.00	MTDT - Stage 1 McTagg Tunnel; MTDT18; MTDT - Inlet at Elevation 688 to junction with Stage 2 at Elevation 684 [D-4218A, D4218B]	1. sum	11,611.85	1.00	11,611.85	103.68	1,203,916	1,891,868.39	1,891,868	343,976.07	343,976	0.00	0	3,439,760.72	3,439,761
D16-1.07-1510.00	MTDT - Stage 1 McTagg Tunnel; MTDT19; MTDT - Elevation 684 to Elevation 661 [D-4218A, D4218B]	1. sum	82,256.15	1.00	82,256.15	103.68	8,528,317	13,401,641.61	13,401,642	2,436,662.11	2,436,662	0.00	0	24,366,621.10	24,366,621
D16-1.07-1511.00	MTDT - Stage 1 McTagg Tunnel; MTDT20; MTDT - Elevation 661 to Stage 1 outlet at Elevation 651 [D-4218A, D4218B]	1. sum	31,906.96	1.00	31,906.96	103.68	3,308,114	5,198,464.55	5,198,465	945,175.37	945,175	0.00	0	9,451,753.72	9,451,754
D16-1.07-1512.00	MTDT - Stage 1 McTagg Tunnel; MTDT21; MTDT - Stage 1 outlet junction with penstock tunnel at Elevation 656 to surface penstock [D-4218A, D4218B]	1. sum	9,731.62	1.00	9,731.62	103.68	1,008,975	1,585,531.69	1,585,532	288,278.49	288,278	0.00	0	2,882,784.89	2,882,785
D16-1.07-1513.00	MTDT - Stage 1 McTagg Tunnel; MTDT22; MTDT - Concrete plug in penstock tunnel	1. sum	4,056.71	1.00	4,056.71	103.68	420,600	245,349.88	245,350	35,049.98	35,050	0.00	0	700,999.66	701,000
D16-1.07-1514.00	MTDT - Stage 1 McTagg Tunnel; MTDT - Stage 1 fully concrete lined sections	1. sum	20,910.75	1.00	20,910.75	103.68	2,168,026	1,264,681.91	1,264,682	180,668.84	180,669	0.00	0	3,613,376.88	3,613,377
D16 - McTagg Diversion Tunnel (MTDT) Subtotal					160,474.04		16,637,948	23,587,538	4,229,811	0				44,455,297	



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
<u>D18 - Construction Diversion Tunnels (CDT)</u>															
D18-1.1-1516.00	WSDT1 WSD - Construction Diversion Tunnel	1. sum	14,327.04	1.00	14,327.04	103.68	1,485,427	2,334,243.17	2,334,243	424,407.85	424,408	0.00	0	4,244,078.50	4,244,078
D18-1.1-1517.00	WSDT2 WSD - Concrete plugs in Construction Diversion Tunnel	1. sum	2,798.93	1.00	2,798.93	103.68	290,193	169,279.48	169,279	24,182.78	24,183	0.00	0	483,655.67	483,656
D18 - Construction Diversion Tunnels (CDT) Subtotal					17,125.97		1,775,621	2,503,523		448,591		0		4,727,734	
<u>D19 - East Catchment Tunnels (ECT)</u>															
D19-1.09-1519.00	ECT1 Stage 1 inlet to Elevation 1212	1. sum	14,338.90	1.00	14,338.90	103.68	1,486,657	2,336,175.02	2,336,175	424,759.09	424,759	0.00	0	4,247,590.95	4,247,591
D19-1.09-1520.00	ECT2 Elevation 1212 to Elevation 1125	1. sum	7,485.27	1.00	7,485.27	103.68	776,073	1,219,543.54	1,219,544	221,735.19	221,735	0.00	0	2,217,351.90	2,217,352
D19-1.09-1521.00	ECT3 Elevation 1125 to Stage 1 outlet at Elevation 1120	1. sum	5,342.83	1.00	5,342.83	103.68	553,945	870,485.07	870,485	158,270.01	158,270	0.00	0	1,582,700.13	1,582,700
D19-1.09-1522.00	Stage 1 fully concrete lined sections	1. sum	12,151.68	1.00	12,151.68	103.68	1,259,887	734,933.81	734,934	104,990.54	104,991	0.00	0	2,099,810.88	2,099,811
D19-1.09-1523.00	Stage 1 Stilling Pond	1. sum	466.67	1.00	466.67	103.68	48,384	76,032.00	76,032	13,824.00	13,824	0.00	0	138,240.00	138,240
D19-1.09-1524.00	[Y24] - ECT4 Stage 2 inlet (Stage 1 outlet) to Stage 2 outlet at unnamed creek draining to South Tributary Teigen Ck, (Sustaining Capital CAD\$20,506,294)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D19-1.09-1525.00	[Y24] - ECT5 Connector between Stage 1 and Stage 2 tunnels, (Sustaining Capital CAD\$947,968)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D19-1.09-1526.00	[Y24] - ECT6 Concrete plug in Stage 1 outlet, (Sustaining Capital CAD\$276,320)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D19 - East Catchment Tunnels (ECT) Subtotal					39,785.36		4,124,946	5,237,169		923,579		0		10,285,694	
<u>D24 - Tunnel Conveyance</u>															
D24-30-1528.00	Hanger; Structural Steel	370. t	22.00	1.30	10,582.00	103.68	1,097,142	4,608.00	1,704,960	240.00	88,800	0.00	0	7,813.25	2,890,902
D24-13-1529.00	[TMCC] - Diesel Line - drill and blast trench; 600mm wide x 1200mm deep, (Included in TMCC scope)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D24-13-1530.00	[TT] - Diesel Line - excavate and remove muck	16,416. m3	0.02	1.70	558.14	103.68	57,868	0.00	0	4.32	70,917	0.00	0	7.85	128,785



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D24-13-1531.00	[TT] - Diesel Line - Sandbed and surround to 100mm diesel line	4,104. m3	0.04	1.70	279.07	103.68	28,934	24.00	98,496	4.32	17,729	0.00	0	35.37	145,159
D24-13-1532.00	[TT] - Diesel Line - backfill with muck	12,312. m3	0.02	1.70	418.61	103.68	43,401	0.00	0	4.32	53,188	0.00	0	7.85	96,589
D24-13-1533.00	[TT] - Diesel Line - Dispose excess muck	4,104. m3	0.01	1.70	69.77	103.68	7,234	0.00	0	0.96	3,940	0.00	0	2.72	11,173
D24-13-1534.00	[TT] - Diesel Line - 100mm CS pipe line; yellow jacketed pipe	22,800. m	0.82	1.70	31,792.89	103.68	3,296,287	44.67	1,018,449	11.81	269,304	0.00	0	201.05	4,584,040
D24-13-1535.00	[TT] - Diesel Line - Butt welds	1,900. ea	1.50	1.70	4,845.00	103.68	502,330	0.00	0	14.40	27,360	0.00	0	278.78	529,690
D24-13-1536.00	[TMCC] - NAG Drainage Line - drill and blast trench; 600mm wide x 750mm deep, (Included in TMCC scope)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D24-13-1537.00	[TT] - NAG Drainage Line - excavate and remove muck	10,260. m3	0.02	1.70	348.84	103.68	36,168	0.00	0	4.32	44,323	0.00	0	7.85	80,491
D24-13-1538.00	[TT] - NAG Drainage Line - Sandbed and surround to 100mm diesel line	4,104. m3	0.04	1.70	279.07	103.68	28,934	24.00	98,496	4.32	17,729	0.00	0	35.37	145,159
D24-13-1539.00	[TT] - NAG Drainage Line - backfill with muck	6,156. m3	0.02	1.70	209.30	103.68	21,701	0.00	0	4.32	26,594	0.00	0	7.85	48,295
D24-13-1540.00	[TT] - NAG Drainage Line - Dispose excess muck	4,104. m3	0.01	1.70	69.77	103.68	7,234	0.00	0	0.96	3,940	0.00	0	2.72	11,173
D24-13-1541.00	[TT] - NAG Drainage Line - 350 mm HDPE pipe drainage line	22,800. m	0.57	1.70	22,000.68	103.68	2,281,030	80.45	1,834,214	8.17	186,359	0.00	0	188.67	4,301,603
D24-13-1542.00	[TT] - NAG Drainage Line - fusion joint @ 12m o.c.	1,900. ea	0.50	1.70	1,615.00	103.68	167,443	0.00	0	0.00	0	0.00	0	88.13	167,443
D24-13-1543.00	[TT] - NAG Drainage Line - 100 mm HDPE pipe perforated collection line	22,800. m	0.31	1.70	12,081.30	103.68	1,252,589	7.29	166,130	4.49	102,336	0.00	0	66.71	1,521,055
D24-13-1544.00	[TT] - NAG Drainage Line - 100 mm joint @ 12m o.c.	1,900. ea	0.25	1.70	807.50	103.68	83,722	14.40	27,360	0.96	1,824	0.00	0	59.42	112,906
D24-13-1545.00	[TMCC] - PAG Drainage Line - drill and blast trench; 600mm wide x 750mm deep, (Included in TMCC scope)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D24-13-1546.00	[TT] - PAG Drainage Line - excavate and remove muck	16,416. m3	0.02	1.70	558.14	103.68	57,868	0.00	0	4.32	70,917	0.00	0	7.85	128,785



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D24-13-1547.00	[TT] - PAG Drainage Line - Sandbed and surround to 100mm diesel line	4,104. m3	0.04	1.70	279.07	103.68	28,934	24.00	98,496	4.32	17,729	0.00	0	35.37	145,159
D24-13-1548.00	[TT] - PAG Drainage Line - backfill with muck	12,312. m3	0.02	1.70	418.61	103.68	43,401	0.00	0	4.32	53,188	0.00	0	7.85	96,589
D24-13-1549.00	[TT] - PAG Drainage Line - Dispose excess muck	4,104. m3	0.01	1.70	69.77	103.68	7,234	0.00	0	0.96	3,940	0.00	0	2.72	11,173
D24-13-1550.00	[TT] - PAG Drainage Line - 350 mm HDPE pipe drainage line	22,800. m	0.57	1.70	22,000.68	103.68	2,281,030	80.45	1,834,214	8.17	186,359	0.00	0	188.67	4,301,603
D24-13-1551.00	[TT] - PAG Drainage Line - 350 mm fusion joint @ 12m o.c.	1,900. ea	4.78	1.70	15,439.40	103.68	1,600,757	0.00	0	4.80	9,120	0.00	0	847.30	1,609,877
D24-13-1552.00	[TT] - PAG Drainage Line - 100 mm HDPE pipe perforated collection line	22,800. m	0.31	1.70	12,081.30	103.68	1,252,589	7.29	166,130	4.49	102,336	0.00	0	66.71	1,521,055
D24-13-1553.00	[TT] - PAG Drainage Line - 100 mm joint @ 12m o.c.	1,900. ea	0.25	1.70	807.50	103.68	83,722	14.40	27,360	0.96	1,824	0.00	0	59.42	112,906
D24-50-1554.00	[TMCC] - Air locks including doors and associated walls, (Included in TMCC scope)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D24-40-1555.00	[TT] - Structural Supports, floor gratings and monorails allowance (6 locations)	60. t	20.00	1.70	2,040.00	103.68	211,507	4,320.00	259,200	240.00	14,400	0.00	0	8,085.12	485,107
D24-50-1556.00	[TT] - Mitchell-Teigen Tunnel Conveyor, 1829 W x 23500000 L [D24-CNV-024]	23,500. m	20.00	1.70	799,000.00	103.68	82,840,318	48.00	1,128,000	172.80	4,060,800	4,247.69	99,820,798	7,993.61	187,849,916
D24-50-1557.00	[WNB] - Mitchell-Teigen Tunnel Conveyor Motor, drives and control system, included in Area D26 [D24-CNV-024]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D24-50-1558.00	[TT] - Mitchell-Teigen Tunnel Conveyor Transfer point No. 1, Chute [D24-CHU-XXX]	1,020. kg	0.06	1.70	104.04	103.68	10,787	0.08	78	0.03	29	5.28	5,386	15.96	16,280
D24-50-1559.00	[TT] - Mitchell-Teigen Tunnel Conveyor Transfer point No. 1, Chute, AR Liner [D24-CHU-XXXL]	840. kg	0.04	1.70	49.98	103.68	5,182	0.08	65	0.03	24	5.28	4,435	11.55	9,706
D24-50-1560.00	[TT] - Mitchell-Teigen Tunnel Conveyor Transfer point No. 2, Chute [D24-CHU-XXX]	1,020. kg	0.06	1.70	104.04	103.68	10,787	0.08	78	0.03	29	5.28	5,386	15.96	16,280
D24-50-1561.00	[TT] - Mitchell-Teigen Tunnel Conveyor Transfer point No. 2, Chute, AR Liner [D24-CHU-XXXL]	840. kg	0.04	1.70	49.98	103.68	5,182	0.08	65	0.03	24	5.28	4,435	11.55	9,706
D24-50-1562.00	[TT] - Mitchell-Teigen Tunnel Conveyor Transfer point No. 3, Chute [D24-CHU-XXX]	1,020. kg	0.06	1.70	104.04	103.68	10,787	0.08	78	0.03	29	5.28	5,386	15.96	16,280



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D24-50-1563.00	[TT] - Mitchell-Teigen Tunnel Conveyor Transfer point No. 3, Chute, AR Liner [D24-CHU-XXXXL]	840. kg	0.04	1.70	49.98	103.68	5,182	0.08	65	0.03	24	5.28	4,435	11.55	9,706
D24-50-1564.00	[TT] - Mitchell-Teigen Tunnel Conveyor Transfer point No. 4, Chute [D24-CHU-XXX]	1,020. kg	0.06	1.70	104.04	103.68	10,787	0.08	78	0.03	29	5.28	5,386	15.96	16,280
D24-50-1565.00	[TT] - Mitchell-Teigen Tunnel Conveyor Transfer point No. 4, Chute, AR Liner [D24-CHU-XXXXL]	840. kg	0.04	1.70	49.98	103.68	5,182	0.08	65	0.03	24	5.28	4,435	11.55	9,706
D24-50-1566.00	[TT] - Mitchell-Teigen Tunnel Conveyor Transfer point No. 5, Chute [D24-CHU-XXX]	1,020. kg	0.06	1.70	104.04	103.68	10,787	0.08	78	0.03	29	5.28	5,386	15.96	16,280
D24-50-1567.00	[TT] - Mitchell-Teigen Tunnel Conveyor Transfer point No. 5, Chute, AR Liner [D24-CHU-XXXXL]	840. kg	0.04	1.70	49.98	103.68	5,182	0.08	65	0.03	24	5.28	4,435	11.55	9,706
D24-50-1568.00	[TT] - Mitchell-Teigen Tunnel Conveyor, Head Chute [D24-CHU-XXX]	1,020. kg	0.06	1.70	104.04	103.68	10,787	0.08	78	0.03	29	5.28	5,386	15.96	16,280
D24-50-1569.00	[TT] - Mitchell-Teigen Tunnel Conveyor, Head Chute, AR Liner [D24-CHU-XXXXL]	840. kg	0.04	1.70	49.98	103.68	5,182	0.08	65	0.03	24	5.28	4,435	11.55	9,706
D24-58-1570.00	[TT] - Mitchell-Teigen Tunnel Dust Collection Allowance at 6 locations	6. lot	350.00	1.70	3,570.00	103.68	370,138	0.00	0	4,800.00	28,800	144,000.00	864,000	210,489.60	1,262,938
D24-58-1571.00	[MVS] - Mitchell-Teigen Tunnel Ventilation Fans c/w VFD at 6 locations	6. lot	120.00	1.70	1,224.00	103.68	126,904	0.00	0	2,400.00	14,400	31,250.00	187,500	54,800.72	328,804
D24-58-1572.00	[MVS] - Mitchell-Teigen Tunnel Ventilation Auxiliary Ducting (300m long)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D24-58-1573.00	[MVS] - Mitchell-Teigen Tunnel Portal Equipmet Doors (Mitchell x 4, Teigen x 4, Construction Access x 4)	12. ea	280.00	1.70	5,712.00	103.68	592,220	0.00	0	2,400.00	28,800	37,500.00	450,000	89,251.68	1,071,020
D24-60-1574.00	[TT] - Main water line 300mm dia CS pipe victaulic pipe	22,800. m	1.71	1.70	66,129.21	103.68	6,856,276	135.17	3,081,830	16.38	373,436	0.00	0	452.26	10,311,542
D24-60-1575.00	[TT] - Main water line 300mm victaulic couplings	1,900. ea	0.36	1.70	1,162.80	103.68	120,559	76.80	145,920	3.46	6,566	0.00	0	143.71	273,045
D24-60-1576.00	[TT] - Main water line Knee brace pipe supports c/w u-bolt at 36m o.c.	634. ea	0.50	1.70	538.90	103.68	55,873	480.00	304,320	4.80	3,043	0.00	0	572.93	363,236
D24-60-1577.00	[TMCC] - Main water line Rock anchors; 2nos per knee brace 1.8m long DWIDAG type c/w epoxy grout	1,268. ea	0.15	1.70	323.34	103.68	33,524	120.00	152,160	1.44	1,826	0.00	0	147.88	187,510
D24-60-1578.00	[TT] - Main water line Pipe clamp pipe supports 2nos between knee braces	1,268. ea	0.15	1.70	323.34	103.68	33,524	144.00	182,592	1.44	1,826	0.00	0	171.88	217,942



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D24-60-1579.00	[TMCC] - Main water line Rock anchors; 1nos per pipe clamp 1.8m long DWIDAG type c/w epoxy grout	1,268. ea	0.15	1.70	323.34	103.68	33,524	120.00	152,160	1.44	1,826	0.00	0	147.88	187,510
D24-80-1580.00	[TT] - Main water line pressure reducing vaves 300mm dia	3. ea	4.30	1.70	21.93	103.68	2,274	0.00	0	24.00	72	0.00	0	781.90	2,346
D24-60-1581.00	[TT] - Sprinklers over conveyor including distribution piping and seismic bracing	90. ea	1.00	1.70	153.00	103.68	15,863	288.00	25,920	9.60	864	0.00	0	473.86	42,647
D24-60-1582.00	[TT] - Sprinklers over conveyor pipe supports for sprinkler distribution lines; at 4m o.c.	90. ea	0.10	1.70	15.30	103.68	1,586	0.00	0	0.48	43	0.00	0	18.11	1,630
D24-60-1583.00	[TMCC] - Sprinklers over conveyor rock anchors	90. ea	0.15	1.70	22.95	103.68	2,379	120.00	10,800	0.72	65	0.00	0	147.16	13,244
D24-60-1584.00	[TT] - Fire Hose stations at 90 o.c.	254. ea	2.00	1.70	863.60	103.68	89,538	1,920.00	487,680	14.40	3,658	0.00	0	2,286.91	580,876
D24-70-1587.00	[WNB] - Mitchell-Teigen Tunnel Conveyor Drive Station No.1 2 Units @ 1372kW, included in Conveyor Installation [D24-STN-061]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D24-70-1588.00	[WNB] - Mitchell-Teigen Tunnel Conveyor Drive Station No.2 3 Units @ 1801kW, included in Conveyor Installation [D24-STN-062]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D24-70-1589.00	[WNB] - Mitchell-Teigen Tunnel Conveyor Drive Station No.3 3 Units @ 1801kW, included in Conveyor Installation [D24-STN-063]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D24-70-1590.00	[WNB] - Mitchell-Teigen Tunnel Conveyor Drive Station No.4 3 Units @ 1801kW, included in Conveyor Installation [D24-STN-064]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D24-70-1591.00	[WNB] - Mitchell-Teigen Tunnel Conveyor Drive Station No.5 3 Units @ 1801kW, included in Conveyor Installation [D24-STN-065]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D24-70-1592.00	[WNB] - Mitchell-Teigen Tunnel Conveyor Drive Station No.5 3 Units @ 1801kW, included in Conveyor Installation [D24-STN-066]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D24-80-1593.00	[WNB] - Instrumentation, included in Area D26 - Conveyor Tunnel Power Supply, Control and Communication, and Fire Detection	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D24-70-1594.00	[WNB] - Smoke Detection in Tunnel, included in Area D26 - Conveyor Tunnel Power Supply, Control and Communication, and Fire Detection	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D24 - Tunnel Conveyance Subtotal					1,019,959.25		105,749,372		13,005,744		5,900,501		101,381,223		226,036,841

D26 - Conveyor Tunnel Power Supply, Control and Communication, and Fire Dete

D26-1.21-1596.00	Civil Work for Electrical Installation; Rock Excavation In Mining Contract	-	-	-	-	-	-	-	-	-	-	-	-	-	-
------------------	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D26-1.21-1597.00	Civil Work for Electrical Installation; Electrical Equipment Foundations; Concrete including formwork, rebar, concrete cost, etc.	300. m3	10.50	1.25	3,937.50	103.68	408,240	480.00	144,000	24.00	7,200	0.00	0	1,864.80	559,440
D26-1.21-1598.00	Civil Work for Electrical Installation; Electrical Equipment Foundations; Fence in front of U/G substations and around surface substations, chainlink, 2400 high, 3 strands barbed wire, including gates, and grounding	250. m	0.40	1.25	125.00	103.68	12,960	33.60	8,400	6.72	1,680	0.00	0	92.16	23,040
D26-1.21-1599.00	Temp power at drive stations and along conveyor (This is the provision of temp construction power to the conveyor contractor. The source of power will be from the tunnel contractor power supply cables.	1. lot	3,600.00	1.25	4,500.00	103.68	466,560	335,999.99	336,000	0.00	0	0.00	0	802,559.98	802,560
D26-1.21-1600.00	Conveyor Power & Control; Grounding; Ground wire, 2/0 AWG	6,000. m	0.05	1.25	375.00	103.68	38,880	6.62	39,744	0.14	864	0.00	0	13.25	79,488
D26-1.21-1601.00	Conveyor Power & Control; Grounding; Ground Connectors, compression	250. ea	0.50	1.25	156.25	103.68	16,200	28.80	7,200	0.00	0	0.00	0	93.60	23,400
D26-1.21-1602.00	Conveyor Power & Control; Grounding; Ground wire, 4/0	25,000. m	0.15	1.25	4,687.50	103.68	486,000	10.08	252,000	0.29	7,200	0.00	0	29.81	745,200
D26-1.21-1603.00	Conveyor Power & Control; Cable Supports; Cost of messenger cable support system is all included in the power supply budget	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D26-1.21-1604.00	Conveyor Power & Control; Drive Station Lighting (At 6 drive stations and substations only, Lighting along Conveyor not included); Fixtures, 250 W HPS	156. ea	6.00	1.25	1,170.00	103.68	121,306	384.00	59,904	9.60	1,498	0.00	0	1,171.20	182,707
D26-1.21-1605.00	Conveyor Power & Control; Drive Station Lighting (At 6 drive stations and substations only, Lighting along Conveyor not included); Lighting transformer and panel	6. lot	200.00	1.25	1,500.00	103.68	155,520	5,280.00	31,680	24.00	144	11,520.00	69,120	42,744.00	256,464
D26-1.21-1606.00	Conveyor Power & Control; Drive Station Lighting (At 6 drive stations and substations only, Lighting along Conveyor not included); Lighting cable, 4c # 12	11,100. m	0.05	1.25	693.75	103.68	71,928	3.18	35,271	0.10	1,066	0.00	0	9.75	108,265
D26-1.21-1607.00	Conveyor Power & Control; Drive Station Lighting (At 6 drive stations and substations only, Lighting along Conveyor not included); Connectors, outlets and hardware	6. lot	200.00	1.25	1,500.00	103.68	155,520	10,080.00	60,480	0.00	0	0.00	0	36,000.00	216,000
D26-1.21-1608.00	Conveyor Power & Control; Drive Station Lighting (At 6 drive stations and substations only, Lighting along Conveyor not included); NEMA 4X emergency lighting battery units at 6 drive stations and at switchgear	36. ea	6.00	1.25	270.00	103.68	27,994	432.00	15,552	19.20	691	0.00	0	1,228.80	44,237
D26-1.21-1609.00	Conveyor Power & Control; Conveyor Motor Supply; 2400 HP, 4000 V, 1200 RPM, 1.0 SF, TEAC Enclosure, Design B, Class F Insulation, Class B temperature rise, premium efficiency, (Electrical Labour Connection only)	15. ea	125.00	1.25	2,343.75	103.68	243,000	7,444.80	111,672	10,800.00	162,000	148,896.00	2,233,440	183,340.80	2,750,112
D26-1.21-1610.00	Conveyor Power & Control; Conveyor Motor Supply; 1800 HP, 4000 V, 1200 RPM, 1.0 SF, TEAC Enclosure, Design B, Class F Insulation, Class B temperature rise, premium efficiency, (Electrical Labour Connection only)	2. ea	100.00	1.25	250.00	103.68	25,920	6,336.00	12,672	1,440.00	2,880	126,720.00	253,440	147,456.00	294,912
D26-1.21-1611.00	Conveyor Power & Control; Conveyor Motor Wiring (17 Motors); 15 only 2400 HP Motors, 3c 500 mcm Teck	1,500. m	0.45	1.25	843.75	103.68	87,480	187.20	280,800	0.00	0	0.00	0	245.52	368,280
D26-1.21-1612.00	Conveyor Power & Control; Conveyor Motor Wiring (17 Motors); 500 MCM terminations	30. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	0.00	0	0.00	0



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D26-1.21-1613.00	Conveyor Power & Control; Conveyor Motor Wiring (17 Motors); 2 only 1800 HP motors, 3c 350 MCM Teck	200. m	0.40	1.25	100.00	103.68	10,368	179.00	35,800	0.00	0	0.00	0	230.84	46,168
D26-1.21-1614.00	Conveyor Power & Control; Conveyor Motor Wiring (17 Motors); 350 MCM Terminations	4. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	0.00	0	0.00	0
D26-1.21-1615.00	Conveyor Power & Control; Conveyor Motor Wiring (17 Motors); Stator and bearing RTD wiring, 8 triad RTD wiring	1,700. m	0.25	1.25	531.25	103.68	55,080	16.32	27,744	0.00	0	0.00	0	48.72	82,824
D26-1.21-1616.00	Conveyor Power & Control; Conveyor Motor Wiring (17 Motors); Triad terminations	34. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	0.00	0	0.00	0
D26-1.21-1617.00	Conveyor Power & Control; Conveyor Motor Wiring (17 Motors); Vibration transducer wiring, 4 pair AIC	3,400. m	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	0.00	0	0.00	0
D26-1.21-1618.00	Conveyor Power & Control; Conveyor Motor Wiring (17 Motors); 4 pair AIC terminations	68. ea	0.20	1.25	17.00	103.68	1,763	4.03	274	0.00	0	0.00	0	29.95	2,037
D26-1.21-1619.00	Conveyor Power & Control; Conveyor Motor Wiring (17 Motors); Space heater wiring, 3c#12 Teck	1,700. m	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	0.00	0	0.00	0
D26-1.21-1620.00	Conveyor Power & Control; Conveyor Motor Wiring (17 Motors); Teck Terminations	34. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	0.00	0	0.00	0
D26-1.21-1621.00	Conveyor Power & Control; Main Feeder Power Cable (Note, messenger and hangers, rock bolts, etc. are included in Power Supply Estimate); 25 kV, 500 MCM, Teck & hangers	12,000. m	0.40	1.25	6,000.00	103.68	622,080	187.20	2,246,400	0.96	11,520	0.00	0	240.00	2,880,000
D26-1.21-1622.00	Conveyor Power & Control; Main Feeder Power Cable (Note, messenger and hangers, rock bolts, etc. are included in Power Supply Estimate); 25 kV, 350 MCM, Teck & hangers	12,000. m	0.38	1.25	5,700.00	103.68	590,976	178.56	2,142,720	0.96	11,520	0.00	0	228.77	2,745,216
D26-1.21-1623.00	Conveyor Power & Control; Main Feeder Power Cable (Note, messenger and hangers, rock bolts, etc. are included in Power Supply Estimate); Connectors, splice kits, etc.	1. lot	192.00	1.25	240.00	103.68	24,883	15,360.00	15,360	4,800.00	4,800	0.00	0	45,043.20	45,043
D26-1.21-1624.00	Conveyor Power & Control; 600 Volt Power Cable at drive stations; 600V 3C-#4 AWG, Teck 90 XLPE	2,400. m	0.20	1.25	600.00	103.68	62,208	11.52	27,648	0.00	0	0.00	0	37.44	89,856
D26-1.21-1625.00	Conveyor Power & Control; 600 Volt Power Cable at drive stations; 600V 3C-#4 AWG, Teck Termination	120. ea	1.50	1.25	225.00	103.68	23,328	17.28	2,074	0.00	0	0.00	0	211.68	25,402
D26-1.21-1626.00	Conveyor Power & Control; 600 Volt Power Cable at drive stations; 600V 2/0 AWG Teck	900. m	0.30	1.25	337.50	103.68	34,992	24.96	22,464	0.00	0	0.00	0	63.84	57,456
D26-1.21-1627.00	Conveyor Power & Control; 600 Volt Power Cable at drive stations; 600V 2/0 AWG Teck Termination	16. ea	1.00	1.25	20.00	103.68	2,074	72.00	1,152	0.00	0	0.00	0	201.60	3,226
D26-1.21-1628.00	Conveyor Power & Control; 600 Volt Power Cable at drive stations; 600V 3C # 10 Teck	4,500. m	0.13	1.25	731.25	103.68	75,816	4.70	21,168	0.00	0	0.00	0	21.55	96,984



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D26-1.21-1629.00	Conveyor Power & Control; 600 Volt Power Cable at drive stations; 600V 3C #12 Teck	12,000. m	0.05	1.25	750.00	103.68	77,760	3.18	38,131	0.00	0	0.00	0	9.66	115,891
D26-1.21-1630.00	Conveyor Power & Control; 600 Volt Power Cable at drive stations; #10 & 12 Terminations	1,101. ea	1.50	1.25	2,064.38	103.68	214,034	14.40	15,854	0.00	0	0.00	0	208.80	229,889
D26-1.21-1631.00	Conveyor Power & Control; 600 Volt Power Cable at drive stations; Misc. Hardware	1. lot	200.00	1.25	250.00	103.68	25,920	14,400.00	14,400	0.00	0	0.00	0	40,320.00	40,320
D26-1.21-1632.00	Conveyor Power & Control; Control Cable; 3c # 14 Teck	12,000. m	0.13	1.25	1,950.00	103.68	202,176	2.74	32,832	0.00	0	0.00	0	19.58	235,008
D26-1.21-1633.00	Conveyor Power & Control; Control Cable; 8c # 14 Teck	26,000. m	0.15	1.25	4,875.00	103.68	505,440	8.83	229,632	0.00	0	0.00	0	28.27	735,072
D26-1.21-1634.00	Conveyor Power & Control; Control Cable; 20c # 14 Teck	1,500. m	0.20	1.25	375.00	103.68	38,880	14.30	21,456	0.00	0	0.00	0	40.22	60,336
D26-1.21-1635.00	Conveyor Power & Control; Control Cable; Control cable terminations, main conveyor	694.33 ea	1.50	1.25	1,301.88	103.68	134,978	14.40	9,998	0.00	0	0.00	0	208.80	144,977
D26-1.21-1636.00	Conveyor Power & Control; Control Cable; Control cable terminations, drive stations	800. ea	2.00	1.25	2,000.00	103.68	207,360	17.28	13,824	0.00	0	0.00	0	276.48	221,184
D26-1.21-1637.00	Conveyor Power & Control; Control Cable; Cable supports along conveyor (not overhead messenger system)	1. lot	500.00	1.25	625.00	103.68	64,800	14,400.00	14,400	0.00	0	0.00	0	79,200.00	79,200
D26-1.21-1638.00	Conveyor Power & Control; Instrument Cable; 4 Pair AIC	1,000. m	0.30	1.25	375.00	103.68	38,880	3.94	3,936	0.00	0	0.00	0	42.82	42,816
D26-1.21-1639.00	Conveyor Power & Control; Instrument Cable; Terminations	50. m	1.00	1.25	62.50	103.68	6,480	14.40	720	0.00	0	0.00	0	144.00	7,200
D26-1.21-1640.00	Conveyor Power & Control; Cable Tray At 6 Drive Stations; Tray	1. lot	1,200.00	1.25	1,500.00	103.68	155,520	43,200.00	43,200	3,360.00	3,360	0.00	0	202,080.00	202,080
D26-1.21-1641.00	Conveyor Power & Control; Cable Tray At 6 Drive Stations; Support steel and fittings	1. ea	200.00	1.25	250.00	103.68	25,920	14,400.00	14,400	2,400.00	2,400	0.00	0	42,720.00	42,720
D26-1.21-1642.00	Conveyor Power & Control; Cable Tray At 6 Drive Stations; MV Junction Boxes	1. lot	500.00	1.25	625.00	103.68	64,800	43,200.00	43,200	0.00	0	0.00	0	108,000.00	108,000
D26-1.21-1643.00	Conveyor Power & Control; Cable Tray At 6 Drive Stations; 25 & 4.16 kV Switchgear, supply and install	1. lot	4,500.00	1.25	5,625.00	103.68	583,200	229,317.59	229,318	19,200.00	19,200	4,586,351.90	4,586,352	5,418,069.48	5,418,069
D26-1.21-1644.00	Conveyor Power & Control; Cable Tray At 6 Drive Stations; HV Junction Boxes, 11T150 (Patton and Cooke)	15. lot	30.00	1.25	562.50	103.68	58,320	480.00	7,200	0.00	0	6,153.60	92,304	10,521.60	157,824



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D26-1.21-1645.00	Conveyor Power & Control; Conveyor VFDs c/w Transformers; 2100 HP VFD with Transformer	15. ea	200.00	1.25	3,750.00	103.68	388,800	45,750.86	686,263	2,400.00	36,000	457,508.56	6,862,628	531,579.42	7,973,691
D26-1.21-1646.00	Conveyor Power & Control; Conveyor VFDs c/w Transformers; 1600 HP VFD with Transformer	2. ea	175.00	1.25	437.50	103.68	45,360	34,087.68	68,175	2,304.00	4,608	340,874.99	681,750	399,946.67	799,893
D26-1.21-1647.00	Conveyor Power & Control; PLC system; PLC Hardware as per quote	1. lot	2,000.00	1.25	2,500.00	103.68	259,200	46,065.60	46,066	14,400.00	14,400	460,655.99	460,656	780,321.58	780,322
D26-1.21-1648.00	Conveyor Power & Control; PLC system; PLC programming	1. lot	1,200.00	1.25	1,500.00	153.60	230,400	9,600.00	9,600	9,600.00	9,600	0.00	0	249,599.99	249,600
D26-1.21-1649.00	Conveyor Power & Control; PLC system; Fibre Optic cable & messenger, etc.	50,000. m	0.08	1.25	5,000.00	103.68	518,400	4.80	240,000	0.29	14,400	1.92	96,000	17.38	868,800
D26-1.21-1650.00	Conveyor Power & Control; PLC system; Pull Cord switches	640. ea	4.00	1.25	3,200.00	103.68	331,776	19.20	12,288	0.00	0	480.00	307,200	1,017.60	651,264
D26-1.21-1651.00	Conveyor Power & Control; PLC system; Belt rip detectors and misalignment switches	1. lot	225.00	1.25	281.25	103.68	29,160	23,040.00	23,040	0.00	0	0.00	0	52,200.00	52,200
D26-1.21-1652.00	Conveyor Power & Control; PLC system; Speed sensors	17. ea	4.00	1.25	85.00	103.68	8,813	144.00	2,448	0.00	0	1,152.00	19,584	1,814.40	30,845
D26-1.21-1653.00	Conveyor Power & Control; PLC system; Belt Scale	1. ea	100.00	1.25	125.00	103.68	12,960	720.00	720	960.00	960	14,400.00	14,400	29,040.00	29,040
D26-1.21-1654.00	Conveyor Power & Control; PLC system; Tramp metal detector	2. ea	50.00	1.25	125.00	103.68	12,960	1,440.00	2,880	0.00	0	11,040.00	22,080	18,960.00	37,920
D26-1.21-1655.00	Conveyor Power & Control; PLC system; Fibre Cabinets	6. ea	75.00	1.25	562.50	103.68	58,320	480.00	2,880	0.00	0	7,200.00	43,200	17,400.00	104,400
D26-1.21-1656.00	Conveyor Power & Control; Dust Collection System (Electrical Wiring Connection); Dust Collector Fan Electrical, (Cables and terminations are listed under cables, motor supply with equipment, motor installation is included under mechanical)	6. ea	25.00	1.25	187.50	103.68	19,440	480.00	2,880	0.00	0	0.00	0	3,720.00	22,320
D26-1.21-1657.00	Conveyor Power & Control; Dust Collection System (Electrical Wiring Connection); Rotary Air Lock Electrical, (Cables and terminations are listed under cables, motor supply with equipment, motor installation is included under mechanical)	6. ea	25.00	1.25	187.50	103.68	19,440	480.00	2,880	0.00	0	0.00	0	3,720.00	22,320
D26-1.21-1658.00	Conveyor Power & Control; Dust Collection System (Electrical Wiring Connection); Pug mixer drive electrical, (Cables and terminations are listed under cables, motor supply with equipment, motor installation is included under mechanical)	6. ea	25.00	1.25	187.50	103.68	19,440	480.00	2,880	0.00	0	0.00	0	3,720.00	22,320
D26-1.21-1659.00	Conveyor Power & Control; Dust Collection System (Electrical Wiring Connection); Duplex air compressor feeder, (Cables and terminations are listed under cables, motor supply with equipment, motor installation is included under mechanical)	6. ea	25.00	1.25	187.50	103.68	19,440	480.00	2,880	0.00	0	0.00	0	3,720.00	22,320



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D26-1.21-1660.00	Conveyor Power & Control; Dust Collection System (Electrical Wiring Connection); CCTV	6. lot	750.00	1.25	5,625.00	103.68	583,200	1,680.00	10,080	4,800.00	28,800	33,600.00	201,600	137,280.00	823,680
D26-1.21-1661.00	Conveyor Power & Control; Dust Collection System (Electrical Wiring Connection); Cable (to fibre converter)	1,200. m	0.15	1.25	225.00	103.68	23,328	3.84	4,608	0.00	0	0.00	0	23.28	27,936
D26-1.21-1662.00	Fire Detection System; Fire Detection Equipment Supply, includes cost of Vendor design and test labour for verification. Labour costs are in the below items.	1. lot	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	844,799.98	844,800	844,799.98	844,800
D26-1.21-1663.00	Fire Detection System; FA Panels c/w NEMA 4 enclosures connected to single mode fibre infrastructure (12 panels total), will provide addressable coverage for the length of the tunnel and interface (modbus) into the two controllers per tunnel	12. ea	30.00	1.25	450.00	103.68	46,656	0.00	0	0.00	0	0.00	0	3,888.00	46,656
D26-1.21-1664.00	Fire Detection System; Addressable X120 CO sensors per tunnel 200m spacing – these are combo heat/CO sensors so we will have the ability to confirm the temperature of the fibre system with our system at 200m intervals. They will also provide the ability for fire alarm. CO sen	115. ea	6.00	1.25	862.50	103.68	89,424	0.00	0	0.00	0	0.00	0	777.60	89,424
D26-1.21-1665.00	Fire Detection System; Addressable (IDnet) Pull stations in NEMA 3R enclosures 230 of them (one ever 100m)	230. ea	4.00	1.25	1,150.00	103.68	119,232	0.00	0	0.00	0	0.00	0	518.40	119,232
D26-1.21-1666.00	Fire Detection System; Monitoring of sprinkler system/dry hem.. Systems at six drive locations.	6. lot	50.00	1.25	375.00	103.68	38,880	0.00	0	0.00	0	0.00	0	6,480.00	38,880
D26-1.21-1667.00	Fire Detection System; Fibre coverage for the length of the tunnel split into four quadrants (each armoured fibre comes with two MM strands designed specifically for this purpose, one will be spare, no return) – FA system to monitor this via modbus. Note, cable supports are in	23,000. m	0.10	1.25	2,875.00	103.68	298,080	0.00	0	0.00	0	0.00	0	12.96	298,080
D26-1.21-1668.00	Fire Detection System; Allowance for horn/strobes	77. ea	8.00	1.25	770.00	103.68	79,834	0.00	0	0.00	0	0.00	0	1,036.80	79,834
D26-1.21-1669.00	Fire Detection System; Two different PC Based Graphical interfaces have been included, one dedicated for the Fibre system and one for the fire alarm system, located at both ends	4. ea	40.00	1.25	200.00	103.68	20,736	0.00	0	0.00	0	0.00	0	5,184.00	20,736
D26-1.21-1670.00	Fire Detection System; Network cable, Addressable system 1 pair 16 twisted (not shielded) – need to pick a low capacitance low resistance wire (limitations shown below) cable supports included in power cable estimate. Per unit labour includes termination. (.6 Micro Farads Total	23,000. m	0.10	1.25	2,875.00	103.68	298,080	0.00	0	0.00	0	0.00	0	12.96	298,080
D26-1.21-1671.00	Fire Detection System; Fire Alarm Fibre (multimode would be most economical, each FA panel will boost this signal) – single mode will work as well. Supports included in power supply estimate. Per unit labour includes termination	23,000. ea	0.05	1.25	1,437.50	103.68	149,040	0.00	0	0.00	0	0.00	0	6.48	149,040
D26-1.21-1672.00	Fire Detection System; All twelve FA/Controller locations shall require one AC circuit (15amp) Horn/strobe coverage	12. ea	10.00	1.25	150.00	103.68	15,552	0.00	0	0.00	0	0.00	0	1,296.00	15,552
D26-1.21-1673.00	Fire Detection System; Note, fire detection system cables are supported on conveyor power cable messenger system. CO detectors, c/w drip hoods, are mounted on conveyor cable support angle iron messenger brackets, located every 10 m down the tunnel.	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D26-1.21-1674.00	Fire Detection System; 2#10 AWG Teck cable for power supply at 600 volts to be stepped down to 120 volts. Cable supports included in power cable estimate. Unit rate includes terminations.	23,000. m	0.10	1.25	2,875.00	103.68	298,080	5.57	128,064	0.00	0	0.00	0	18.53	426,144
D26-1.21-1675.00	Fire Detection System; Transformers, fuses, etc. in NEMA 4X box, 600 volt to 120 volts 200 VA each for horns and strobes, etc. Located every 300 m at cross-cuts.	77. ea	10.00	1.25	962.50	103.68	99,792	480.00	36,960	0.00	0	0.00	0	1,776.00	136,752
D26-1.21-1676.00	Communication System (Leaky Feeder System); LMR -600 Cable	24,000. m	0.05	1.25	1,500.00	103.68	155,520	3.74	89,856	0.00	0	0.00	0	10.22	245,376
D26-1.21-1677.00	Communication System (Leaky Feeder System); LMR -600 Terminations	48. ea	4.00	1.25	240.00	103.68	24,883	29.76	1,428	0.00	0	0.00	0	548.16	26,312
D26-1.21-1678.00	Communication System (Leaky Feeder System); 3/8 Inch Steel Messenger, Cab Hooks, Etc.	24,000. m	0.05	1.25	1,500.00	103.68	155,520	4.80	115,200	0.00	0	0.00	0	11.28	270,720
D26-1.21-1679.00	Communication System (Leaky Feeder System); Misc. cable, etc.	1. lot	100.00	1.25	125.00	103.68	12,960	4,800.00	4,800	0.00	0	0.00	0	17,760.00	17,760
D26-1.21-1680.00	Communication System (Leaky Feeder System); Note, messenger support bolts, etc. in power supply estimate.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D26-1.21-1681.00	Communication System (Leaky Feeder System); Leaky Feeder Headend (3 channel system) VC-HEADEND	1. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	44,520.00	44,520	44,520.00	44,520
D26-1.21-1682.00	Communication System (Leaky Feeder System); Leaky Feeder Antenna System VC-ANTENNA	1. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	11,368.32	11,368	11,368.32	11,368
D26-1.21-1683.00	Communication System (Leaky Feeder System); Misc. Leaky Feeder Cable - 350m roll, V-CA75-DS	3. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	1,046.40	3,139	1,046.40	3,139
D26-1.21-1684.00	Communication System (Leaky Feeder System); Infinity II Line Amplifiers, VC-1004-INF2	60. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	1,108.80	66,528	1,108.80	66,528
D26-1.21-1685.00	Communication System (Leaky Feeder System); Infinity Line Branch 3 Way, VC-1007-INF	5. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	788.16	3,941	788.16	3,941
D26-1.21-1686.00	Communication System (Leaky Feeder System); Pilot Tone Generator - Uplink, V-1007-INF2U	1. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	374.40	374	374.40	374
D26-1.21-1687.00	Communication System (Leaky Feeder System); KS-KS Rotational Adaptor, V-KSKSR	2. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	45.12	90	45.12	90
D26-1.21-1688.00	Communication System (Leaky Feeder System); KS - N Female Adaptor, V-KSNFA	2. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	43.20	86	43.20	86
D26-1.21-1689.00	Communication System (Leaky Feeder System); Line Termination Kit, VC-1011	1. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	106.56	107	106.56	107



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D26-1.21-1690.00	Communication System (Leaky Feeder System); 32V Leaky Feeder Power Supply w/Inserter, V-LF32V-PSKIT	4. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	2,923.20	11,693	2,923.20	11,693
D26-1.21-1691.00	Communication System (Leaky Feeder System); Stope Antenna (at drive stations), STP-ANT	6. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	1,702.08	10,212	1,702.08	10,212
D26-1.21-1692.00	Communication System (Leaky Feeder System); Infinity Line Branch 3 Way (times this by number of drifts), VC-1007-INF	3. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	788.16	2,364	788.16	2,364
D26-1.21-1693.00	Communication System (Leaky Feeder System); Telephone Interconnect System (option), VC-1020	1. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	4,537.92	4,538	4,537.92	4,538
D26-1.21-1694.00	Communication System (Leaky Feeder System); VDV Amplifier Diagnostics Kit (option), VC-2000KIT	1. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	4,886.40	4,886	4,886.40	4,886
D26-1.21-1695.00	Communication System (Leaky Feeder System); UPS Backup System (option), UPS-BCKP	10. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	3,490.56	34,906	3,490.56	34,906
D26-1.21-1696.00	Communication System (Leaky Feeder System); Customer Programming Software / Cloning Cables, CLN-SFT-CBL	1. ea	0.00	1.25	0.00	103.68	0	391.68	392	0.00	0	0.00	0	391.68	392
D26-1.21-1697.00	Communication System (Leaky Feeder System); Misc. additional labour for above items	1. lot	100.00	1.25	125.00	103.68	12,960	0.00	0	0.00	0	0.00	0	12,960.00	12,960
D26-1.21-1698.00	Communication System (Leaky Feeder System); Misc. low loss cable, connectors, splices, etc.	1. lot	25.00	1.25	31.25	103.68	3,240	2,400.00	2,400	0.00	0	0.00	0	5,640.00	5,640
D26-1.21-1699.00	Communication System (Leaky Feeder System); Additional Services; Radio Licensing Administration Fee	1. ea	0.00	1.25	0.00	103.68	0	240.00	240	0.00	0	0.00	0	240.00	240
D26-1.21-1700.00	Communication System (Leaky Feeder System); Additional Services; In-Shop Setup and Configuration/Custom Cabling/Radio programming	1. ea	0.00	1.25	0.00	103.68	0	1,440.00	1,440	0.00	0	0.00	0	1,440.00	1,440
D26-1.21-1701.00	Communication System (Leaky Feeder System); Additional Services; On-site Commissioning	1. ea	0.00	1.25	0.00	103.68	0	14,400.00	14,400	0.00	0	0.00	0	14,400.00	14,400
D26-1.21-1702.00	Communication System (Leaky Feeder System); Additional Services; Leaky Feeder Training	1. ea	0.00	1.25	0.00	103.68	0	4,800.00	4,800	0.00	0	0.00	0	4,800.00	4,800
D26-1.21-1703.00	Communication System (Leaky Feeder System); Radios; FR5000 VHF Repeaters, FR-5000	2. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	2,199.36	4,399	2,199.36	4,399
D26-1.21-1704.00	Communication System (Leaky Feeder System); Radios; UR-FR5000 VHF Repeater Modules, UR-FR5000	1. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	1,675.20	1,675	1,675.20	1,675
D26-1.21-1705.00	Communication System (Leaky Feeder System); Base Stations; Icom IC-F5021 VHF 128ch Variable Power Analog Mobile, IC-F5021	4. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	492.48	1,970	492.48	1,970



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D26-1.21-1706.00	Communication System (Leaky Feeder System); Base Stations; Samplex SEC-1223 Desktop Power Supply, SEC-1223	4. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	209.28	837	209.28	837
D26-1.21-1707.00	Communication System (Leaky Feeder System); Equipment Radios For Maintenance Vehicles; Icom IC-F5021 VHF 128ch, IC-F5021 Variable Power Analog Mobile	10. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	492.48	4,925	492.48	4,925
D26-1.21-1708.00	Communication System (Leaky Feeder System); Equipment Radios For Maintenance Vehicles; Mobile Antenna Kit, WHP-ANT-KT	15. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	1,176.96	17,654	1,176.96	17,654
D26-1.21-1709.00	Communication System (Leaky Feeder System); Portable Radios (For 2 maintenance shifts); Icom IC-F3021S 8 Channel Variable Power VHF Portable Radio (For 2 shifts), IC-F3021S	20. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	387.84	7,757	387.84	7,757
D26-1.21-1710.00	Communication System (Leaky Feeder System); Portable Radios (For 2 maintenance shifts); 3021 Tunable Antenna Kit, 3021-ANT-KT	20. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	26.88	538	26.88	538
D26-1.21-1711.00	Communication System (Leaky Feeder System); Portable Radios (For 2 maintenance shifts); Spare 2000 mAh, 7.4V Li-Ion battery packs, BP-232N	6. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	83.52	501	83.52	501
D26-1.21-1712.00	Communication System (Leaky Feeder System); Portable Radios (For 2 maintenance shifts); HM-159L Noise Cancelling Speaker Microphone, HM-159L	20. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	83.52	1,670	83.52	1,670
D26-1.21-1713.00	Communication System (Leaky Feeder System); Portable Radios (For 2 maintenance shifts); 6 unit multi charger with cups and power supply whole radio or batteries, BC-197 #22	7. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	522.24	3,656	522.24	3,656
D26-1.21-1714.00	Communication System (Leaky Feeder System); Misc. additional labour for above items	1. lot	100.00	1.25	125.00	103.68	12,960	0.00	0	0.00	0	0.00	0	12,960.00	12,960
D26-1.21-1715.00	Spares	1. lot	0.00	1.25	0.00	103.68	0	719,999.98	720,000	0.00	0	0.00	0	719,999.98	720,000
D26-1.21-1716.00	System electrical and instrument design	1. lot	0.00	1.25	0.00	103.68	0	2,303,999.95	2,304,000	0.00	0	0.00	0	2,303,999.95	2,304,000
D26-1.21-1717.00	Construction Offices & Office Equipment	18. mth	0.00	1.25	0.00	103.68	0	6,720.00	120,960	7,200.00	129,600	0.00	0	13,920.00	250,560
D26-1.21-1718.00	Construction Management of Electrical & Instrumentation	18. mth	900.00	1.25	20,250.00	153.60	3,110,400	9,600.00	172,800	7,200.00	129,600	0.00	0	189,600.00	3,412,800
D26-1.21-1719.00	QA/QC Monitoring of electrical construction	18. mth	300.00	1.25	6,750.00	120.00	810,000	4,800.00	86,400	3,360.00	60,480	0.00	0	53,160.00	956,880
D26-1.21-1720.00	Commissioning personnel	3. mth	900.00	1.25	3,375.00	153.60	518,400	7,200.00	21,600	4,800.00	14,400	0.00	0	184,800.00	554,400
D26-1.21-1721.00	Vendor Reps (in addition to proposal)	1. lot	0.00	1.25	0.00	103.68	0	192,000.00	192,000	0.00	0	0.00	0	192,000.00	192,000
D26 - Conveyor Tunnel Power Supply, Control and Communication, and Fire Detection Subtotal					133,215.75		15,176,209		11,808,989		680,870		17,032,890		44,698,957



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
<u>D27 - Transport/Truck Tunnel Fire Detection and Communication</u>															
D27-1.21-1723.00	Fire Detection System; Fire Detection Equipment Supply, includes cost of Vendor design and test labour for verification. Labour costs are in the below items.	1. lot	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	844,799.98	844,800	844,799.98	844,800
D27-1.21-1724.00	Fire Detection System; FA Panels c/w NEMA 4 enclosures connected to single mode fibre infrastructure (12 panels total), will provide addressable coverage for the length of the tunnel and interface (modbus) into the two controllers per tunnel	12. ea	30.00	1.25	450.00	103.68	46,656	0.00	0	0.00	0	0.00	0	3,888.00	46,656
D27-1.21-1725.00	Fire Detection System; Addressable X120 CO sensors per tunnel 300m spacing at cross cuts – these are combo heat/CO sensors so we will have the ability to confirm the temperature of the fibre system with our system at 200m intervals. They will also provide the ability for fire	77. ea	6.00	1.25	577.50	103.68	59,875	0.00	0	0.00	0	0.00	0	777.60	59,875
D27-1.21-1726.00	Fire Detection System; Addressable (IDnet) Pull stations in NEMA 3R enclosures at cross-cuts (one every 300m). There will also be status inputs from the cross-cut doors, located every 300 m down the tunnel.	77. ea	4.00	1.25	385.00	103.68	39,917	0.00	0	0.00	0	0.00	0	518.40	39,917
D27-1.21-1727.00	Fire Detection System; Fibre coverage for the length of the tunnel split into four quadrants (each armoured fibre comes with two MM strands designed specifically for this purpose, one will be spare, no return) – FA system to monitor this via modbus. Note, cable supports are in	23,000. m	0.10	1.25	2,875.00	103.68	298,080	0.00	0	0.00	0	0.00	0	12.96	298,080
D27-1.21-1728.00	Fire Detection System; Allowance for horn/strobes (AC charging power from conveyor AC system)	77. ea	8.00	1.25	770.00	103.68	79,834	0.00	0	0.00	0	0.00	0	1,036.80	79,834
D27-1.21-1729.00	Fire Detection System; Two different PC Based Graphical interfaces have been included, one dedicated for the Fibre system and one for the fire alarm system, located at both ends	4. ea	40.00	1.25	200.00	103.68	20,736	0.00	0	0.00	0	0.00	0	5,184.00	20,736
D27-1.21-1730.00	Fire Detection System; Network cable, Addressable system 1 pair 16 twisted (not shielded) – need to pick a low capacitance low resistance wire (limitations shown below) cable supports included in power cable estimate. Per unit labour includes termination. (.6 Micro Farads Total	23,000. m	0.10	1.25	2,875.00	103.68	298,080	0.00	0	0.00	0	0.00	0	12.96	298,080
D27-1.21-1731.00	Fire Detection System; Fire Alarm Fibre (multimode would be most economical, each FA panel will boost this signal) – single mode will work as well. Supports included in power supply estimate. Per unit labour includes termination	23,000. m	0.05	1.25	1,437.50	103.68	149,040	0.00	0	0.00	0	0.00	0	6.48	149,040
D27-1.21-1732.00	Fire Detection System; All twelve FA/Controller locations shall require one AC circuit (15amp) Horn/strobe coverage	12. ea	10.00	1.25	150.00	103.68	15,552	0.00	0	0.00	0	0.00	0	1,296.00	15,552
D27-1.21-1733.00	Fire Detection System; Note, fire detection system cables are supported on conveyor power cable messenger system. CO detectors, c/w drip hoods, are mounted on conveyor cable support angle iron messenger brackets, located every 10 m down the tunnel.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D27-1.21-1734.00	Fire Detection System; Rockbolts every 20 m. 6 ft, threadbar with plate and nut, resin set	1,150. ea	0.25	1.25	359.38	103.68	37,260	23.04	26,496	7.68	8,832	0.00	0	63.12	72,588
D27-1.21-1735.00	Fire Detection System; Messenger, 5/16ths galv guy strand, c/w installation of CAB hooks, clamps, etc.	23,000. m	0.04	1.25	1,150.00	103.68	119,232	3.36	77,280	0.10	2,208	0.00	0	8.64	198,720
D27-1.21-1736.00	Communication System (Leaky Feeder System); LMR -600 Cable	24,000. m	0.05	1.25	1,500.00	103.68	155,520	3.74	89,856	0.00	0	0.00	0	10.22	245,376



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D27-1.21-1737.00	Communication System (Leaky Feeder System); LMR -600 Terminations	48. ea	4.00	1.25	240.00	103.68	24,883	29.76	1,428	0.00	0	0.00	0	548.16	26,312
D27-1.21-1738.00	Communication System (Leaky Feeder System); 3/8 Inch Steel Messenger, Cab Hooks, Etc.	24,000. m	0.05	1.25	1,500.00	103.68	155,520	4.80	115,200	0.00	0	0.00	0	11.28	270,720
D27-1.21-1739.00	Communication System (Leaky Feeder System); Misc. cable, etc.	1. lot	100.00	1.25	125.00	103.68	12,960	4,800.00	4,800	0.00	0	0.00	0	17,760.00	17,760
D27-1.21-1740.00	Communication System (Leaky Feeder System); Note, messenger support bolts, etc. in power supply estimate.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D27-1.21-1741.00	Communication System (Leaky Feeder System); Leaky Feeder Headend (3 channel system) VC-HEADEND	1. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	44,520.00	44,520	44,520.00	44,520
D27-1.21-1742.00	Communication System (Leaky Feeder System); Leaky Feeder Antenna System VC-ANTENNA	1. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	11,368.32	11,368	11,368.32	11,368
D27-1.21-1743.00	Communication System (Leaky Feeder System); Misc. Leaky Feeder Cable - 350m roll, V-CA75-DS	3. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	1,046.40	3,139	1,046.40	3,139
D27-1.21-1744.00	Communication System (Leaky Feeder System); Infinity II Line Amplifiers, VC-1004-INF2	60. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	1,108.80	66,528	1,108.80	66,528
D27-1.21-1745.00	Communication System (Leaky Feeder System); Infinity Line Branch 3 Way, VC-1007-INF	5. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	788.16	3,941	788.16	3,941
D27-1.21-1746.00	Communication System (Leaky Feeder System); Pilot Tone Generator - Uplink, V-1007-INF2U	1. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	374.40	374	374.40	374
D27-1.21-1747.00	Communication System (Leaky Feeder System); KS-KS Rotational Adaptor, V-KSKSR	2. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	45.12	90	45.12	90
D27-1.21-1748.00	Communication System (Leaky Feeder System); KS - N Female Adaptor, V-KSNFA	2. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	43.20	86	43.20	86
D27-1.21-1749.00	Communication System (Leaky Feeder System); Line Termination Kit, VC-1011	1. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	106.56	107	106.56	107
D27-1.21-1750.00	Communication System (Leaky Feeder System); 32V Leaky Feeder Power Supply w/Inserter, V-LF32V-PSKIT	4. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	2,923.20	11,693	2,923.20	11,693
D27-1.21-1751.00	Communication System (Leaky Feeder System); Stope Antenna (at drive stations), STP-ANT	6. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	1,702.08	10,212	1,702.08	10,212
D27-1.21-1752.00	Communication System (Leaky Feeder System); Infinity Line Branch 3 Way (times this by number of drifts), VC-1007-INF	3. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	788.16	2,364	788.16	2,364



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D27-1.21-1753.00	Communication System (Leaky Feeder System); Telephone Interconnect System (option), VC-1020	1. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	4,537.92	4,538	4,537.92	4,538
D27-1.21-1754.00	Communication System (Leaky Feeder System); VDV Amplifier Diagnostics Kit (option), VC-2000KIT	1. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	4,886.40	4,886	4,886.40	4,886
D27-1.21-1755.00	Communication System (Leaky Feeder System); UPS Backup System (option), UPS-BCKP	10. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	3,490.56	34,906	3,490.56	34,906
D27-1.21-1756.00	Communication System (Leaky Feeder System); Customer Programming Software / Cloning Cables, CLN-SFT-CBL	1. ea	0.00	1.25	0.00	103.68	0	391.68	392	0.00	0	0.00	0	391.68	392
D27-1.21-1757.00	Communication System (Leaky Feeder System); Misc. low loss cable, connectors, splices, etc.	1. lot	25.00	1.25	31.25	103.68	3,240	2,400.00	2,400	0.00	0	0.00	0	5,640.00	5,640
D27-1.21-1758.00	Communication System (Leaky Feeder System); Additional Services; Radio Licensing Administration Fee	1. ea	0.00	1.25	0.00	103.68	0	240.00	240	0.00	0	0.00	0	240.00	240
D27-1.21-1759.00	Communication System (Leaky Feeder System); Additional Services; In-Shop Setup and Configuration/Custom Cabling/Radio programming	1. ea	0.00	1.25	0.00	103.68	0	1,440.00	1,440	0.00	0	0.00	0	1,440.00	1,440
D27-1.21-1760.00	Communication System (Leaky Feeder System); Additional Services; On-site Commissioning	1. ea	0.00	1.25	0.00	103.68	0	14,400.00	14,400	0.00	0	0.00	0	14,400.00	14,400
D27-1.21-1761.00	Communication System (Leaky Feeder System); Additional Services; Leaky Feeder Training	1. ea	0.00	1.25	0.00	103.68	0	4,800.00	4,800	0.00	0	0.00	0	4,800.00	4,800
D27-1.21-1762.00	Communication System (Leaky Feeder System); Radios; FR5000 VHF Repeaters, FR-5000	2. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	2,199.36	4,399	2,199.36	4,399
D27-1.21-1763.00	Communication System (Leaky Feeder System); Radios; UR-FR5000 VHF Repeater Modules, UR-FR5000	1. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	1,675.20	1,675	1,675.20	1,675
D27-1.21-1764.00	Communication System (Leaky Feeder System); Base Stations; Icom IC-F5021 VHF 128ch Variable Power Analog Mobile, IC-F5021	2. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	492.48	985	492.48	985
D27-1.21-1765.00	Communication System (Leaky Feeder System); Base Stations; Samplex SEC-1223 Desktop Power Supply, SEC-1223	2. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	209.28	419	209.28	419
D27-1.21-1766.00	Communication System (Leaky Feeder System); Equipment Radios For Maintenance Vehicles; Icom IC-F5021 VHF 128ch, IC-F5021 Variable Power Analog Mobile	6. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	492.48	2,955	492.48	2,955
D27-1.21-1767.00	Communication System (Leaky Feeder System); Equipment Radios For Maintenance Vehicles; Mobile Antenna Kit, WHP-ANT-KT	6. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	1,176.96	7,062	1,176.96	7,062
D27-1.21-1768.00	Communication System (Leaky Feeder System); Portable Radios (For 2 maintenance shifts); Icom IC-F3021S 8 Channel Variable Power VHF Portable Radio (For 2 shifts), IC-F3021S	10. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	387.84	3,878	387.84	3,878



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D27-1.21-1769.00	Communication System (Leaky Feeder System); Portable Radios (For 2 maintenance shifts); 3021 Tunable Antenna Kit, 3021-ANT-KT	10. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	26.88	269	26.88	269
D27-1.21-1770.00	Communication System (Leaky Feeder System); Portable Radios (For 2 maintenance shifts); Spare 2000 mAh, 7.4V Li-Ion battery packs, BP-232N	3. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	83.52	251	83.52	251
D27-1.21-1771.00	Communication System (Leaky Feeder System); Portable Radios (For 2 maintenance shifts); HM-159L Noise Cancelling Speaker Microphone, HM-159L	10. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	83.52	835	83.52	835
D27-1.21-1772.00	Communication System (Leaky Feeder System); Portable Radios (For 2 maintenance shifts); 6 unit multi charger with cups and power supply whole radio or batteries, BC-197 #22	2. ea	0.00	1.25	0.00	103.68	0	0.00	0	0.00	0	522.24	1,044	522.24	1,044
D27-1.21-1773.00	Communication System (Leaky Feeder System); Misc. additional labour for above items	1. lot	200.00	1.25	250.00	103.68	25,920	0.00	0	0.00	0	0.00	0	25,920.00	25,920
D27 - Transport/Truck Tunnel Fire Detection and Communication Subtotal					14,875.63		1,542,305		338,732		11,040		1,067,325		2,959,402
<u>D30 - Rope Conveyance [Sustaining]</u>															
D30-1.12-1775.00	[Y26] - Rope Conveyor; Detail Excavation (Rock Excavation), (Sustaining Capital CAD\$317,525)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1776.00	[Y26] - Rope Conveyor; Structural Backfill, (Sustaining Capital CAD\$385,132)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1777.00	[Y26] - Rope Conveyor; Concrete work, (Sustaining Capital CAD\$2,766,725)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1778.00	[Y26] - Rope Conveyor 1 (Kerr Portal - Coarse Ore Storage) - Rope Conveyor (2900m long), 1829 W x 2900000 L, (Sustaining Capital CAD\$47,246,780) [D30-CNV-010]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1779.00	[Y26] - Rope Conveyor 1 (Kerr Portal - Coarse Ore Storage) - Rope Conveyor (Freight from Hamburg), (Sustaining Capital CAD\$1,480,043)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1780.00	[Y26] - Rope Conveyor 1 (Kerr Portal - Coarse Ore Storage) - Mechanical Erection Team, (Sustaining Capital CAD\$16,816,814)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1781.00	[Y26] - Rope Conveyor 1 (Kerr Portal - Coarse Ore Storage) - Electricall Erection Team, (Sustaining Capital CAD\$1,187,788)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1782.00	[Y26] - Rope Conveyor 1 (Kerr Portal - Coarse Ore Storage) - Project Manager, (Sustaining Capital CAD\$2,744,469)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1783.00	[Y26] - Rope Conveyor 1 (Kerr Portal - Coarse Ore Storage) - Erection Helpers, (Sustaining Capital CAD\$20,572,035)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1784.00	[Y26] - Rope Conveyor 1 (Kerr Portal - Coarse Ore Storage) - 150t Crane, (Sustaining Capital CAD\$814,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D30-1.12-1785.00	[Y26] - Rope Conveyor 1 (Kerr Portal - Coarse Ore Storage) - 30t Crane, (Sustaining Capital CAD\$508,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1786.00	[Y26] - Rope Conveyor 1 (Kerr Portal - Coarse Ore Storage) - 2 Trucks, (Sustaining Capital CAD\$120,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1787.00	[Y26] - Rope Conveyor 1 (Kerr Portal - Coarse Ore Storage) - Conveyor Foundations; excavation in rock, (Sustaining Capital CAD\$92,345)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1788.00	[Y26] - Rope Conveyor 1 (Kerr Portal - Coarse Ore Storage) - Conveyor Foundations; backfill, (Sustaining Capital CAD\$44,138)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1789.00	[Y26] - Rope Conveyor 1 (Kerr Portal - Coarse Ore Storage) - Conveyor Foundations; concrete, (Sustaining Capital CAD\$1,180,676)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1790.00	[Y26] - Rope Conveyor 1 (Kerr Portal - Coarse Ore Storage) - Rock Anchors, (Sustaining Capital CAD\$400,420)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1791.00	[Y26] - Rope Conveyor 1 (Kerr Portal - Coarse Ore Storage) - Piling, (Sustaining Capital CAD\$1,386,680)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1792.00	[Y26] - Rope Conveyor 1 (Kerr Portal - Coarse Ore Storage) - Grouting, (Sustaining Capital CAD\$185,210)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1793.00	[Y26] - Rope Conveyor 1 (Kerr Portal - Coarse Ore Storage) - Survey, (Sustaining Capital CAD\$189,220)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1794.00	[Y26] - Rope Conveyor 1 (Kerr Portal - Coarse Ore Storage) - Terminal Buildings incl Enclosure, (Sustaining Capital CAD\$428,025)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1795.00	[Y26] - Rope Conveyor 1 (Kerr Portal - Coarse Ore Storage) - Load/Unload Chutes, (Sustaining Capital CAD\$65,416)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1796.00	[Y26] - Rope Conveyor 1 (Kerr Portal - Coarse Ore Storage) - Bin/Feeding Systems (To & From RopeCon), (Sustaining Capital CAD\$172,210)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1797.00	[Y26] - Rope Conveyor 1 (Kerr Portal - Coarse Ore Storage) - Dedusting Unit, (Sustaining Capital CAD\$182,689)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1798.00	[Y26] - Rope Conveyor 1 (Kerr Portal - Coarse Ore Storage) - Earthing Equipment, (Sustaining Capital CAD\$35,542)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1799.00	[Y26] - Rope Conveyor 2 (Sulphurets Portal - Coarse Ore Storage (Mitchell)) - Rope Conveyor (1500m long), 1829 W x 1500000 L, (Sustaining Capital CAD\$29,550,000) [D30-CNV-020]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1800.00	[Y26] - Rope Conveyor 2 (Sulphurets Portal - Coarse Ore Storage (Mitchell)) - Rope Conveyor (Freight from Hamburg), (Sustaining Capital CAD\$420,671)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D30-1.12-1801.00	[Y26] - Rope Conveyor 2 (Sulphurets Portal - Coarse Ore Storage (Mitchell)) - Mechanical Erection Team, (Sustaining Capital CAD\$4,794,486)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1802.00	[Y26] - Rope Conveyor 2 (Sulphurets Portal - Coarse Ore Storage (Mitchell)) - Electricall Erection Team, (Sustaining Capital CAD\$347,632)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1803.00	[Y26] - Rope Conveyor 2 (Sulphurets Portal - Coarse Ore Storage (Mitchell)) - Project Manager, (Sustaining Capital CAD\$774,081)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1804.00	[Y26] - Rope Conveyor 2 (Sulphurets Portal - Coarse Ore Storage (Mitchell)) - Erection Helpers, (Sustaining Capital CAD\$5,814,805)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1805.00	[Y26] - Rope Conveyor 2 (Sulphurets Portal - Coarse Ore Storage (Mitchell)) - 150t Crane, (Sustaining Capital CAD\$323,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1806.00	[Y26] - Rope Conveyor 2 (Sulphurets Portal - Coarse Ore Storage (Mitchell)) - 30t Crane, (Sustaining Capital CAD\$175,600)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1807.00	[Y26] - Rope Conveyor 2 (Sulphurets Portal - Coarse Ore Storage (Mitchell)) - 2 Trucks, (Sustaining Capital CAD\$120,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1808.00	[Y26] - Rope Conveyor 2 (Sulphurets Portal - Coarse Ore Storage (Mitchell)) - Conveyor Foundations; excavation in rock, (Sustaining Capital CAD\$25,651)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1809.00	[Y26] - Rope Conveyor 2 (Sulphurets Portal - Coarse Ore Storage (Mitchell)) - Conveyor Foundations; backfill, (Sustaining Capital CAD\$14,713)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1810.00	[Y26] - Rope Conveyor 2 (Sulphurets Portal - Coarse Ore Storage (Mitchell)) - Conveyor Foundations; concrete, (Sustaining Capital CAD\$421,670)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1811.00	[Y26] - Rope Conveyor 2 (Sulphurets Portal - Coarse Ore Storage (Mitchell)) - Rock Anchors, (Sustaining Capital CAD\$132,126)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1812.00	[Y26] - Rope Conveyor 2 (Sulphurets Portal - Coarse Ore Storage (Mitchell)) - Piling, (Sustaining Capital CAD\$465,025)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1813.00	[Y26] - Rope Conveyor 2 (Sulphurets Portal - Coarse Ore Storage (Mitchell)) - Grouting, (Sustaining Capital CAD\$84,105)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1814.00	[Y26] - Rope Conveyor 2 (Sulphurets Portal - Coarse Ore Storage (Mitchell)) - Survey, (Sustaining Capital CAD\$83,390)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1815.00	[Y26] - Rope Conveyor 2 (Sulphurets Portal - Coarse Ore Storage (Mitchell)) - Terminal Buildings incl Enclosure, (Sustaining Capital CAD\$172,210)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1816.00	[Y26] - Rope Conveyor 2 (Sulphurets Portal - Coarse Ore Storage (Mitchell)) - Load/Unload Chutes, (Sustaining Capital CAD\$65,416)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
D30-1.12-1817.00	[Y26] - Rope Conveyor 2 (Sulphurets Portal - Coarse Ore Storage (Mitchell)) - Bin/Feeding Systems (To & From RopeCon), (Sustaining Capital CAD\$172,210)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1818.00	[Y26] - Rope Conveyor 2 (Sulphurets Portal - Coarse Ore Storage (Mitchell)) - Dedusting Unit, (Sustaining Capital CAD\$130,326)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30-1.12-1819.00	[Y26] - Rope Conveyor 2 (Sulphurets Portal - Coarse Ore Storage (Mitchell)) - Earthing Equipment, (Sustaining Capital CAD\$26,132)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D30 - Rope Conveyance [Sustaining] Subtotal					0.00	0	0	0	0	0	0	0	0	0	0
<u>E05 - Teigen Coarse Ore Stockpile</u>															
E05-40-1821.00	Stockpile Reclaim A-frame Enclousre and Overall Site Plan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E05-13-1822.00	Stockpile Reclaim A-frame Enclousre and Overall Site Plan; Detail Excavation	9,120. m3	0.06	1.30	711.36	103.68	73,754	0.00	0	3.60	32,832	0.00	0	11.69	106,586
E05-13-1823.00	Stockpile Reclaim A-frame Enclousre and Overall Site Plan; Structural Backfill	5,880. m3	0.10	1.30	764.40	103.68	79,253	7.68	45,158	3.84	22,579	0.00	0	25.00	146,991
E05-20-1824.00	Stockpile Reclaim A-frame Enclousre and Overall Site Plan; Concrete work	3,600. m3	6.50	1.30	30,420.00	103.68	3,153,946	734.40	2,643,840	24.00	86,400	0.00	0	1,634.50	5,884,185
E05-30-1825.00	Stockpile Reclaim A-frame Enclousre and Overall Site Plan; Structural Steel	5,400. t	22.00	1.30	154,440.00	103.68	16,012,339	4,608.00	24,883,199	240.00	1,296,000	0.00	0	7,813.25	42,191,538
E05-40-1826.00	Stockpile Reclaim A-frame Enclousre and Overall Site Plan; Wall cladding	6,050. m2	1.00	1.30	7,865.00	103.68	815,443	105.60	638,880	14.40	87,120	0.00	0	254.78	1,541,443
E05-40-1827.00	Stockpile Reclaim A-frame Enclousre and Overall Site Plan; Roof cladding	31,115. m2	1.00	1.30	40,449.50	103.68	4,193,804	105.60	3,285,744	14.40	448,056	0.00	0	254.78	7,927,604
E05-40-1828.00	Stockpile Reclaim - Main Tunnel	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E05-40-1829.00	Stockpile Reclaim - Secondary Tunnel	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E05-13-1830.00	Stockpile Reclaim - Main Tunnel and Secondary Tunnel; Detail Excavation	27,680. m3	0.06	1.30	2,159.04	103.68	223,849	0.00	0	3.60	99,648	0.00	0	11.69	323,497
E05-13-1831.00	Stockpile Reclaim - Main Tunnel and Secondary Tunnel; Detail Excavation (Rock Excavation)	23,750. m3	0.10	1.30	3,087.50	103.68	320,112	0.00	0	5.28	125,400	0.00	0	18.76	445,512
E05-13-1832.00	Stockpile Reclaim - Main Tunnel and Secondary Tunnel; Structural Backfill	13,080. m3	0.10	1.30	1,700.40	103.68	176,297	7.68	100,454	3.84	50,227	0.00	0	25.00	326,979



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E05-20-1833.00	Stockpile Reclaim - Main Tunnel and Secondary Tunnel; Concrete work	14,625. m3	6.50	1.30	123,581.25	103.68	12,812,904	734.40	10,740,600	24.00	351,000	0.00	0	1,634.50	23,904,503
E05-30-1834.00	Stockpile Reclaim - Main Tunnel and Secondary Tunnel; Structural Steel	387. t	22.00	1.30	11,068.20	103.68	1,147,551	4,608.00	1,783,296	240.00	92,880	0.00	0	7,813.25	3,023,727
E05-13-1836.00	Conveyor; Detail Excavation	5,125. m3	0.06	1.30	399.75	103.68	41,446	0.00	0	3.60	18,450	0.00	0	11.69	59,896
E05-13-1837.00	Conveyor; Structural Backfill	4,665. m3	0.10	1.30	606.45	103.68	62,877	7.68	35,827	3.84	17,914	0.00	0	25.00	116,618
E05-20-1838.00	Conveyor; Concrete work	515. m3	6.50	1.30	4,351.75	103.68	451,189	734.40	378,216	24.00	12,360	0.00	0	1,634.50	841,765
E05-50-1839.00	Teigen Coarse Ore Stockpile Tripper Conveyor, 1829 W x 300000 L [E05-CNV-010]	300. m	20.00	1.30	7,800.00	103.68	808,704	48.00	14,400	144.00	43,200	37,129.70	11,138,911	40,017.38	12,005,215
E05-55-1840.00	Teigen Coarse Ore Stockpile Tripper Conveyor Head Chute	2,040. kg	0.06	1.30	159.12	103.68	16,498	0.08	157	0.03	59	5.28	10,771	13.47	27,484
E05-55-1841.00	Teigen Coarse Ore Stockpile Tripper Conveyor Head Chute AR Liner	1,680. kg	0.04	1.30	76.44	103.68	7,925	0.08	129	0.03	48	5.28	8,870	10.10	16,973
E05-55-1842.00	Teigen Coarse Ore Reclaim Apron Feeder Stockpile Inserts	6. ea	40.00	1.30	312.00	103.68	32,348	19,200.00	115,200	2,880.00	17,280	0.00	0	27,471.36	164,828
E05-55-1843.00	Teigen Coarse Ore Reclaim Apron Feeder Feed Chutes	67,524. kg	0.06	1.30	5,266.87	103.68	546,069	0.08	5,186	0.03	1,945	5.28	356,527	13.47	909,727
E05-55-1844.00	Teigen Coarse Ore Reclaim Apron Feeder Feed Chute AR Liners (6x)	64,098. kg	0.04	1.30	2,916.46	103.68	302,378	0.08	4,923	0.03	1,846	5.28	338,437	10.10	647,585
E05-50-1845.00	Teigen Coarse Ore Reclaim Apron Feeder No.1, 1829 W x 8500 L [E05-FDR-001]	1. ea	625.00	1.30	812.50	103.68	84,240	192.00	192	5,280.00	5,280	248,125.43	248,125	337,837.43	337,837
E05-50-1846.00	Teigen Coarse Ore Reclaim Apron Feeder No.2, 1829 W x 8500 L [E05-FDR-002]	1. ea	625.00	1.30	812.50	103.68	84,240	192.00	192	5,280.00	5,280	248,125.43	248,125	337,837.43	337,837
E05-50-1847.00	Teigen Coarse Ore Reclaim Apron Feeder No.3, 1829 W x 8500 L [E05-FDR-003]	1. ea	625.00	1.30	812.50	103.68	84,240	192.00	192	5,280.00	5,280	248,125.43	248,125	337,837.43	337,837
E05-50-1848.00	Teigen Coarse Ore Reclaim Apron Feeder No.4, 1829 W x 8500 L [E05-FDR-004]	1. ea	625.00	1.30	812.50	103.68	84,240	192.00	192	5,280.00	5,280	248,125.43	248,125	337,837.43	337,837
E05-50-1849.00	Teigen Coarse Ore Reclaim Apron Feeder No.5, 1829 W x 8500 L [E05-FDR-005]	1. ea	625.00	1.30	812.50	103.68	84,240	192.00	192	5,280.00	5,280	248,125.43	248,125	337,837.43	337,837



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E05-50-1850.00	Teigen Coarse Ore Reclaim Apron Feeder No.6, 1829 W x 8500 L [E05-FDR-006]	1. ea	625.00	1.30	812.50	103.68	84,240	192.00	192	5,280.00	5,280	248,125.43	248,125	337,837.43	337,837
E05-55-1851.00	Teigen Coarse Ore Reclaim Apron Feeder Dribbles Chutes	67,524. kg	0.06	1.30	5,266.87	103.68	546,069	0.08	5,186	0.03	1,945	5.28	356,527	13.47	909,727
E05-55-1852.00	Teigen Coarse Ore Reclaim Apron Feeder Dribbles Chute AR Liners (6x)	64,098. kg	0.04	1.30	2,916.46	103.68	302,378	0.08	4,923	0.03	1,846	5.28	338,437	10.10	647,585
E05-55-1853.00	Teigen Coarse Ore Reclaim Apron Feeder Discharge Chutes	6,120. kg	0.06	1.30	477.36	103.68	49,493	0.08	470	0.03	176	5.28	32,314	13.47	82,453
E05-55-1854.00	Teigen Coarse Ore Reclaim Apron Feeder Discharge Chute AR Liners (6x)	5,040. kg	0.04	1.30	229.32	103.68	23,776	0.08	387	0.03	145	5.28	26,611	10.10	50,919
E05-50-1855.00	Teigen Coarse Ore Stockpile Apron Feeder Discharge Conveyor No.1, 1372 W x 55000 L [E05-CNV-011]	55. m	18.00	1.30	1,287.00	103.68	133,436	48.00	2,640	144.00	7,920	5,809.57	319,526	8,427.68	463,523
E05-50-1856.00	Teigen Coarse Ore Stockpile Apron Feeder Discharge Conveyor No.2, 1372 W x 20000 L [E05-CNV-012]	20. m	18.00	1.30	468.00	103.68	48,522	48.00	960	144.00	2,880	5,809.57	116,191	8,427.68	168,554
E05-55-1857.00	Teigen Coarse Ore Stockpile Apron Feeder Discharge Conveyor Head Chutes (2x)	2,040. kg	0.06	1.30	159.12	103.68	16,498	0.08	157	0.03	59	5.28	10,771	13.47	27,484
E05-55-1858.00	Teigen Coarse Ore Stockpile Apron Feeder Discharge Conveyor Head Chute AR Liners (2x)	1,680. kg	0.04	1.30	76.44	103.68	7,925	0.08	129	0.03	48	5.28	8,870	10.10	16,973
E05-50-1859.00	Teigen Coarse Ore Stockpile Hoist No.1 (20m lift), 2T [E05-HOI-041]	1. ea	40.00	1.30	52.00	103.68	5,391	120.00	120	48.00	48	24,000.00	24,000	29,559.36	29,559
E05-50-1860.00	Teigen Coarse Ore Stockpile Hoist No.2 (20m lift), 2T [E05-HOI-042]	1. ea	40.00	1.30	52.00	103.68	5,391	120.00	120	48.00	48	24,000.00	24,000	29,559.36	29,559
E05-50-1861.00	Teigen Coarse Ore Reclaim Dust Collector Baghouse	1. lot	320.00	1.30	416.00	103.68	43,131	240.00	240	384.00	384	251,378.87	251,379	295,133.75	295,134
E05-50-1862.00	Teigen Coarse Ore Reclaim Dust Collector With Exhaust Fan, included [E05-COL-051]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E05-50-1863.00	Teigen Coarse Ore Reclaim Dust Collector Screw Conveyor, included [E05-CNV-052]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E05-50-1864.00	Teigen Coarse Ore Reclaim Dust Collector Rotary Valve, included [E05-VLV-053]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E05-50-1865.00	Teigen Coarse Ore Reclaim Dust Collector Dust Ducting, 25,000 CFM [E05-DUC-701]	1. lot	1,200.00	1.30	1,560.00	103.68	161,741	126,720.00	126,720	6,912.00	6,912	0.00	0	295,372.79	295,373



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E05-58-1866.00	Fire Protection; Auto Sprinklers @ Reclaim Tunnel Conveyor	252. ea	4.00	1.30	1,310.40	103.68	135,862	960.00	241,920	4.80	1,210	0.00	0	1,503.94	378,992
E05-58-1867.00	Fire Protection; Auto Sprinklers @ Apron Feeders	168. ea	4.00	1.30	873.60	103.68	90,575	960.00	161,280	4.80	806	0.00	0	1,503.94	252,661
E05-58-1868.00	Fire Protection; Fire Extinguishers	1. lot	4.00	1.30	5.20	103.68	539	384.00	384	4.80	5	0.00	0	927.94	928
E05-58-1870.00	HVAC Allowance	1. lot	145.00	1.00	145.00	103.68	15,034	1,056.00	1,056	5,553.60	5,554	130,435.20	130,435	152,078.40	152,078
E05-60-1890.00	Piping Allowance 1.00%	1. lot	343.66	1.00	343.66	103.68	35,631	151,340.95	151,341	1,184.69	1,185	0.00	0	188,156.78	188,157
E05-80-1891.00	Field Instrumentation & Bulks Allowance	1. lot	792.00	1.30	1,029.60	103.68	106,749	23,644.80	23,645	3,532.80	3,533	124,800.00	124,800	258,726.52	258,727
E05-70-1892.00	Electrical Motor Wiring Allowance, included in A20/A30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E05 - Teigen Coarse Ore Stockpile Subtotal					419,678.53		43,512,269		45,398,038		2,871,627		15,106,132		106,888,066
<u>E07 - Secondary Crushing</u>															
E07-40-1894.00	Secondary Crushing, 28m x 48m x 38	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E07-13-1895.00	Detail Excavation	3,330. m3	0.06	1.30	259.74	103.68	26,930	0.00	0	3.60	11,988	0.00	0	11.69	38,918
E07-13-1896.00	Detail Excavation (Rock Excavation)	670. m3	0.10	1.30	87.10	103.68	9,031	0.00	0	5.28	3,538	0.00	0	18.76	12,568
E07-13-1897.00	Structural Backfill	2,040. m3	0.10	1.30	265.20	103.68	27,496	7.68	15,667	3.84	7,834	0.00	0	25.00	50,997
E07-20-1898.00	Concrete work	1,615. m3	6.50	1.30	13,646.75	103.68	1,414,895	734.40	1,186,056	24.00	38,760	0.00	0	1,634.50	2,639,711
E07-30-1899.00	Structural Steel	1,345. t	22.00	1.30	38,467.00	103.68	3,988,258	4,608.00	6,197,760	240.00	322,800	0.00	0	7,813.25	10,508,818
E07-40-1900.00	Wall cladding	5,775. m2	0.95	1.30	7,132.13	103.68	739,459	81.60	471,240	14.40	83,160	0.00	0	224.04	1,293,859
E07-40-1901.00	Roof cladding	1,345. m2	0.95	1.30	1,661.08	103.68	172,220	81.60	109,752	14.40	19,368	0.00	0	224.04	301,340



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E07-50-1905.00	Cone Crusher Feed Conveyor No.1, 2134 W x 296000 L [E07-CNV-621]	296. m	18.00	1.30	6,926.40	103.68	718,129	48.00	14,208	192.00	56,832	18,002.18	5,328,646	20,668.29	6,117,815
E07-55-1906.00	Cone Crusher Feed Conveyor No.1 Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E07-55-1907.00	Cone Crusher Feed Conveyor No.1 Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E07-50-1908.00	Cone Crusher Feed Conveyor No.1 Self Cleaner Magnet No. 2 [E07-MGT-633]	1. ea	20.00	1.30	26.00	103.68	2,696	24.00	24	480.00	480	28,800.00	28,800	31,999.68	32,000
E07-50-1909.00	Cone Crusher Feed Conveyor No.1 Metal Detector [E07-MED-631]	1. ea	20.00	1.30	26.00	103.68	2,696	24.00	24	144.00	144	19,200.00	19,200	22,063.68	22,064
E07-50-1910.00	Cone Crushing Screen Splitter Chute No.1 [E07-CHU-601]	10,000. kg	0.06	1.30	780.00	103.68	80,870	0.08	768	0.03	288	5.28	52,800	13.47	134,726
E07-50-1911.00	Cone Crushing Screen No.1, 3700 W x 7300 L [E07-SCN-603]	1. ea	215.00	1.30	279.50	103.68	28,979	240.00	240	1,680.00	1,680	554,749.72	554,750	585,648.28	585,648
E07-55-1912.00	Cone Crushing Screen No.1 Oversize Chute	2,500. kg	0.06	1.30	195.00	103.68	20,218	0.08	192	0.03	72	5.28	13,200	13.47	33,682
E07-55-1913.00	Cone Crushing Screen No.1 Undersize Chute	2,500. kg	0.04	1.30	113.75	103.68	11,794	0.08	192	0.03	72	5.28	13,200	10.10	25,258
E07-50-1914.00	Cone Crushing Screen No.2, 3700 W x 7300 L [E07-SCN-604]	1. ea	215.00	1.30	279.50	103.68	28,979	240.00	240	1,680.00	1,680	554,749.72	554,750	585,648.28	585,648
E07-55-1915.00	Cone Crushing Screen No.2 Oversize Chute	2,500. kg	0.06	1.30	195.00	103.68	20,218	0.08	192	0.03	72	5.28	13,200	13.47	33,682
E07-55-1916.00	Cone Crushing Screen No.2 Undersize Chute	2,500. kg	0.04	1.30	113.75	103.68	11,794	0.08	192	0.03	72	5.28	13,200	10.10	25,258
E07-55-1917.00	Cone Crusher Feed Chutes	5,000. kg	0.04	1.30	227.50	103.68	23,587	0.08	384	0.03	144	5.28	26,400	10.10	50,515
E07-55-1918.00	Cone Crusher Feed Chute AR Liners	4,000. kg	0.04	1.30	182.00	103.68	18,870	0.08	307	0.03	115	5.28	21,120	10.10	40,412
E07-50-1919.00	Cone Crusher No.1 (c/w Drive Motor, Drive Guard, Crusher Automation, etc.), MP 1000 [E07-CRU-611]	1. ea	4,000.00	1.30	5,200.00	103.68	539,136	960.00	960	480.00	480	3,563,774.92	3,563,775	4,104,350.91	4,104,351
E07-50-1920.00	Cone Crusher Lube Unit No.1, included [E07-LUB-630]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E07-50-1921.00	Cone Crusher No.2 (c/w Drive Motor, Drive Guard, Crusher Automation, etc.), MP 1000 [E07-CRU-612]	1. ea	4,000.00	1.30	5,200.00	103.68	539,136	960.00	960	480.00	480	3,563,774.92	3,563,775	4,104,350.91	4,104,351
E07-50-1922.00	Cone Crusher Lube Unit No.2, included [E07-LUB-631]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E07-55-1923.00	Cone Crusher Discharge Chutes	2,040. kg	0.06	1.30	159.12	103.68	16,498	0.08	157	0.03	59	5.28	10,771	13.47	27,484
E07-55-1924.00	Cone Crusher Discharge Chutes AR Liner	1,680. kg	0.04	1.30	76.44	103.68	7,925	0.08	129	0.03	48	5.28	8,870	10.10	16,973
E07-50-1925.00	Cone Crusher Discharge Conveyor No.1, 1829 W x 65500 L [E07-CNV-615]	65.5 m	23.00	1.30	1,958.45	103.68	203,052	48.00	3,144	144.00	9,432	16,423.51	1,075,740	19,715.54	1,291,368
E07-55-1926.00	Cone Crusher Discharge Conveyor No.1 Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E07-55-1927.00	Cone Crusher Discharge Conveyor No.1 Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E07-50-1928.00	Cone Crusher Discharge Conveyor No.2, 1829 W x 175000 L [E07-CNV-616]	175. m	20.00	1.30	4,550.00	103.68	471,744	48.00	8,400	144.00	25,200	37,129.70	6,497,698	40,017.38	7,003,042
E07-55-1929.00	Cone Crusher Discharge Conveyor No.2 Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E07-55-1930.00	Cone Crusher Discharge Conveyor No.2 Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E07-50-1931.00	Cone Crusher Discharge Conveyor No.3, 1829 W X 33000 L [E07-CNV-614]	33. m	23.00	1.30	986.70	103.68	102,301	48.00	1,584	144.00	4,752	16,423.51	541,976	19,715.54	650,613
E07-55-1932.00	Cone Crusher Discharge Conveyor No.3 Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E07-55-1933.00	Cone Crusher Discharge Conveyor No.3 Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E07-50-1934.00	Cone Crushing Screen Oversize Splitter Chute [E07-CHU-624]	10,000. kg	0.06	1.30	780.00	103.68	80,870	0.08	768	0.03	288	5.28	52,800	13.47	134,726
E07-50-1935.00	Cone Crushing Screen Oversize Transfer Conveyor, 1372 W x 33000 L [E07-CNV-623]	33. m	18.00	1.30	772.20	103.68	80,062	48.00	1,584	144.00	4,752	5,809.57	191,716	8,427.68	278,114
E07-55-1936.00	Cone Crushing Screen Oversize Transfer Conveyor Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E07-55-1937.00	Cone Crushing Screen Oversize Transfer Conveyor Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E07-50-1938.00	Cone Crusher Feed Conveyor No.2, 2134 W x 192000 L [E07-CNV-622]	192. m	18.00	1.30	4,492.80	103.68	465,813	48.00	9,216	192.00	36,864		0	2,666.11	511,893
E07-55-1939.00	Cone Crusher Feed Conveyor No.2 Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E07-55-1940.00	Cone Crusher Feed Conveyor No.2 Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E07-50-1941.00	Cone Crusher Feed Conveyor No.2 Self Cleaner Magnet No. 2 [E07-MGT-634]	1. ea	20.00	1.30	26.00	103.68	2,696	24.00	24	480.00	480	28,800.00	28,800	31,999.68	32,000
E07-50-1942.00	Cone Crusher Feed Conveyor No.2 Metal Detector [E07-MED-632]	1. ea	20.00	1.30	26.00	103.68	2,696	24.00	24	144.00	144	19,200.00	19,200	22,063.68	22,064
E07-50-1943.00	Cone Crushing Screen Splitter Chute No.2 [E07-CHU-602]	10,000. kg	0.06	1.30	780.00	103.68	80,870	0.08	768	0.03	288	5.28	52,800	13.47	134,726
E07-50-1944.00	Cone Crushing Screen No.3, 3700 W x 7300 L [E07-SCN-605]	1. ea	215.00	1.30	279.50	103.68	28,979	240.00	240	1,680.00	1,680	554,749.72	554,750	585,648.28	585,648
E07-55-1945.00	Cone Crushing Screen No.3 Oversize Chute	2,500. kg	0.06	1.30	195.00	103.68	20,218	0.08	192	0.03	72	5.28	13,200	13.47	33,682
E07-55-1946.00	Cone Crushing Screen No.3 Undersize Chute	2,500. kg	0.04	1.30	113.75	103.68	11,794	0.08	192	0.03	72	5.28	13,200	10.10	25,258
E07-50-1947.00	Cone Crushing Screen No.4, 3700 W x 7300 L [E07-SCN-606]	1. ea	215.00	1.30	279.50	103.68	28,979	240.00	240	1,680.00	1,680	554,749.72	554,750	585,648.28	585,648
E07-55-1948.00	Cone Crushing Screen No.4 Oversize Chute	2,500. kg	0.06	1.30	195.00	103.68	20,218	0.08	192	0.03	72	5.28	13,200	13.47	33,682
E07-55-1949.00	Cone Crushing Screen No.4 Undersize Chute	2,500. kg	0.04	1.30	113.75	103.68	11,794	0.08	192	0.03	72	5.28	13,200	10.10	25,258
E07-50-1950.00	Cone Crushing Screen (Spare) No.5 (No installation), 3700 W x 7300L [E07-SCN-619]	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	480.00	480	554,749.72	554,750	555,229.72	555,230
E07-50-1951.00	Cone Crusher By Pass Conveyor No.1, 1372 W x 18000 L [E07-CNV-618]	18. m	18.00	1.30	421.20	103.68	43,670	48.00	864	144.00	2,592	5,809.57	104,572	8,427.68	151,698
E07-55-1952.00	Cone Crusher By Pass Conveyor No.1 Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E07-55-1953.00	Cone Crusher By Pass Conveyor No.1 Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E07-50-1954.00	Cone Crusher By Pass Conveyor No.2, 1372 W x 18000 L [E07-CNV-619]	18. m	18.00	1.30	421.20	103.68	43,670	48.00	864	144.00	2,592	5,809.57	104,572	8,427.68	151,698
E07-55-1955.00	Cone Crusher By Pass Conveyor No.2 Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E07-55-1956.00	Cone Crusher By Pass Conveyor No.2 Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E07-55-1957.00	Cone Crusher Feed Chute	2,500. kg	0.04	1.30	113.75	103.68	11,794	0.08	192	0.03	72	5.28	13,200	10.10	25,258
E07-55-1958.00	Cone Crusher Feed Chutes AR Liner	2,000. kg	0.04	1.30	91.00	103.68	9,435	0.08	154	0.03	58	5.28	10,560	10.10	20,206
E07-50-1959.00	Cone Crusher No.5 (c/w Drive Motor, Drive Guard, Crusher Automation, etc.), MP 1000 [E07-CRU-610]	1. ea	4,000.00	1.30	5,200.00	103.68	539,136	960.00	960	480.00	480	3,563,774.92	3,563,775	4,104,350.91	4,104,351
E07-55-1960.00	Cone Crusher No.5 Discharge Chute	2,000. kg	0.06	1.30	156.00	103.68	16,174	0.08	154	0.03	58	5.28	10,560	13.47	26,945
E07-55-1961.00	Cone Crusher No.5 Discharge Chute AR Liner	1,600. kg	0.04	1.30	72.80	103.68	7,548	0.08	123	0.03	46	5.28	8,448	10.10	16,165
E07-55-1962.00	Cone Crusher Feed Chutes	5,000. kg	0.04	1.30	227.50	103.68	23,587	0.08	384	0.03	144	5.28	26,400	10.10	50,515
E07-55-1963.00	Cone Crusher Feed Chute AR Liners	4,000. kg	0.04	1.30	182.00	103.68	18,870	0.08	307	0.03	115	5.28	21,120	10.10	40,412
E07-50-1964.00	Cone Crusher No.3 (c/w Drive Motor, Drive Guard, Crusher Automation, etc.), MP 1000 [E07-CRU-613]	1. ea	4,000.00	1.30	5,200.00	103.68	539,136	960.00	960	480.00	480	3,563,774.92	3,563,775	4,104,350.91	4,104,351
E07-50-1965.00	Cone Crusher Lube Unit No.3, included [E07-LUB-632]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E07-50-1966.00	Cone Crusher No.4 (c/w Drive Motor, Drive Guard, Crusher Automation, etc.), MP 1000 [E07-CRU-614]	1. ea	4,000.00	1.30	5,200.00	103.68	539,136	960.00	960	480.00	480	3,563,774.92	3,563,775	4,104,350.91	4,104,351
E07-50-1967.00	Cone Crusher Lube Unit No.4, included [E07-LUB-633]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E07-55-1968.00	Cone Crusher Discharge Chutes	4,000. kg	0.06	1.30	312.00	103.68	32,348	0.08	307	0.03	115	5.28	21,120	13.47	53,891



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E07-55-1969.00	Cone Crusher Discharge Chutes AR Liner	3,200. kg	0.04	1.30	145.60	103.68	15,096	0.08	246	0.03	92	5.28	16,896	10.10	32,330
E07-50-1970.00	Cone Crushing Screen Undersize Conveyor, 2134 W x 80000 L [E07-CNV-617]	80. m	20.00	1.30	2,080.00	103.68	215,654	48.00	3,840	192.00	15,360		0	2,935.68	234,854
E07-55-1971.00	Cone Crushing Screen Undersize Conveyor Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E07-55-1972.00	Cone Crushing Screen Undersize Conveyor Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E07-50-1973.00	Fine Ore Stockpile Feed Conveyor, 2134 W x 369000 L [E07-CNV-636]	369. m	18.00	1.30	8,634.60	103.68	895,235	48.00	17,712	192.00	70,848		0	2,666.11	983,795
E07-55-1974.00	Fine Ore Stockpile Feed Conveyor Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E07-55-1975.00	Fine Ore Stockpile Feed Conveyor Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E07-50-1976.00	Secondary Crushing Crane, 35t [E07-CRN-620]	1. ea	180.00	1.30	234.00	103.68	24,261	288.00	288	1,920.00	1,920	206,400.00	206,400	232,869.11	232,869
E07-50-1977.00	Cone Crushing Building Dust Collector No.1 Baghouse, 89,000 CFM	1. lot	320.00	1.30	416.00	103.68	43,131	240.00	240	384.00	384	348,205.53	348,206	391,960.41	391,960
E07-50-1978.00	Cone Crushing Building Dust Collector No.1 With Exhaust Fan, 89,000 CFM, included [E07-COL-651]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E07-50-1979.00	Cone Crushing Building Dust Collector No.1 Screw Conveyor, included [E07-CNV-652]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E07-50-1980.00	Cone Crushing Building Dust Collector No.1 Rotary Valve, included [E07-VLV-653]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E07-50-1981.00	Cone Crushing Building Dust Collector No.2 Baghouse, 63,000 CFM	1. lot	320.00	1.30	416.00	103.68	43,131	264.00	264	336.00	336	248,662.51	248,663	292,393.39	292,393
E07-50-1982.00	Cone Crushing Building Dust Collector No.2 With Exhaust Fan, 63,000 CFM, included [E07-COL-661]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E07-50-1983.00	Cone Crushing Building Dust Collector No.2 Rotary Valve, included [E07-VLV-663]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E07-50-1984.00	Cone Crushing Building Dust Collector No.2 Screw Conveyor, included [E07-CNV-662]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E07-60-2006.00	Piping Allowance 1.00%	1. lot	662.30	1.00	662.30	103.68	68,667	359,706.61	359,707	2,457.54	2,458	0.00	0	430,831.47	430,831
E07-80-2007.00	Field Instrumentation & Bulks Allowance	1. lot	1,596.00	1.30	2,074.80	103.68	215,115	43,324.80	43,325	7,152.00	7,152	259,199.99	259,200	524,792.05	524,792
E07-70-2008.00	Electrical Motor Wiring Allowance, included in A20/A30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E07 - Secondary Crushing Subtotal					130,486.15		13,528,804		8,459,682		742,811		36,153,685		58,884,982
<u>E08 - Fine Ore Stockpile</u>															
E08-13-2010.00	Stockpile Reclaim A-frame Enclosure and Overall Site	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E08-13-2011.00	Stockpile Reclaim A-frame Enclosure and Overall Site; Detail Excavation	16,000. m3	0.06	1.30	1,248.00	103.68	129,393	0.00	0	3.60	57,600	0.00	0	11.69	186,993
E08-13-2012.00	Stockpile Reclaim A-frame Enclosure and Overall Site; Structural Backfill	14,200. m3	0.10	1.30	1,846.00	103.68	191,393	7.68	109,056	3.84	54,528	0.00	0	25.00	354,977
E08-20-2013.00	Stockpile Reclaim A-frame Enclosure and Overall Site; Concrete work	2,000. m3	6.50	1.30	16,900.00	103.68	1,752,192	734.40	1,468,800	24.00	48,000	0.00	0	1,634.50	3,268,992
E08-30-2014.00	Stockpile Reclaim A-frame Enclosure and Overall Site; Structural Steel	1,750. t	22.00	1.30	50,050.00	103.68	5,189,184	4,608.00	8,064,000	240.00	420,000	0.00	0	7,813.25	13,673,184
E08-40-2015.00	Stockpile Reclaim A-frame Enclosure and Overall Site; Wall cladding	3,500. m2	0.95	1.30	4,322.50	103.68	448,157	81.60	285,600	14.40	50,400	0.00	0	224.04	784,157
E08-40-2016.00	Stockpile Reclaim A-frame Enclosure and Overall Site; Roof cladding	12,205. m2	0.95	1.30	15,073.18	103.68	1,562,787	81.60	995,928	14.40	175,752	0.00	0	224.04	2,734,467
E08-13-2017.00	Stockpile Reclaim - Tunnels and Retaining Wall	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E08-13-2019.00	Stockpile Reclaim - Tunnels and Retaining Wall; Detail Excavation (Rock Excavation)	23,290. m3	0.10	1.30	3,027.70	103.68	313,912	0.00	0	5.28	122,971	0.00	0	18.76	436,883
E08-13-2020.00	Stockpile Reclaim - Tunnels and Retaining Wall; Structural Backfill	32,615. m3	0.10	1.30	4,239.95	103.68	439,598	7.68	250,483	3.84	125,242	0.00	0	25.00	815,323
E08-20-2021.00	Stockpile Reclaim - Tunnels and Retaining Wall; Concrete work	9,850. m3	6.50	1.30	83,232.50	103.68	8,629,545	734.40	7,233,840	24.00	236,400	0.00	0	1,634.50	16,099,785
E08-30-2022.00	Stockpile Reclaim - Tunnels and Retaining Wall; Structural Steel	245. t	22.00	1.30	7,007.00	103.68	726,486	4,608.00	1,128,960	240.00	58,800	0.00	0	7,813.25	1,914,246



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E08-40-2023.00	Stockpile Reclaim - Tunnels and Retaining Wall; Armco Tunnel (4.5m D)	20. m	4.50	1.30	117.00	103.68	12,131	5,472.00	109,440	48.00	960	0.00	0	6,126.53	122,531
E08-13-2024.00	Conveyor; Detail Excavation	26,250. m3	0.06	1.30	2,047.50	103.68	212,285	0.00	0	3.60	94,500	0.00	0	11.69	306,785
E08-13-2025.00	Conveyor; Structural Backfill	23,890. m3	0.10	1.30	3,105.70	103.68	321,999	7.68	183,475	3.84	91,738	0.00	0	25.00	597,212
E08-20-2026.00	Conveyor; Concrete work	2,625. m3	6.50	1.30	22,181.25	103.68	2,299,752	734.40	1,927,800	24.00	63,000	0.00	0	1,634.50	4,290,552
E08-50-2027.00	Fine Ore Stockpile Sump Pump c/w motor 15kW [E14-PSU-601]	1. ea	60.00	1.30	78.00	103.68	8,087	48.00	48	24.00	24	28,800.00	28,800	36,959.04	36,959
E08-55-2028.00	Fine Ore Reclaim Apron Feeder Inserts	6. ea	40.00	1.30	312.00	103.68	32,348	19,200.00	115,200	2,880.00	17,280	0.00	0	27,471.36	164,828
E08-55-2029.00	Fine Ore Reclaim Apron Feeder Feed Chutes	67,524. kg	0.06	1.30	5,266.87	103.68	546,069	0.08	5,186	0.03	1,945	5.28	356,527	13.47	909,727
E08-55-2030.00	Fine Ore Reclaim Apron Feeder Feed Chutes AR Liners	64,098. kg	0.04	1.30	2,916.46	103.68	302,378	0.08	4,923	0.03	1,846	5.28	338,437	10.10	647,585
E08-50-2031.00	Fine Ore Reclaim Apron Feeder No.1, 1524 W x 7600 L [E14-FDR-601]	1. ea	600.00	1.30	780.00	103.68	80,870	144.00	144	4,800.00	4,800	287,999.99	288,000	373,814.39	373,814
E08-50-2032.00	Fine Ore Reclaim Apron Feeder No.2, 1524 W x 7600 L [E14-FDR-602]	1. ea	600.00	1.30	780.00	103.68	80,870	144.00	144	4,800.00	4,800	287,999.99	288,000	373,814.39	373,814
E08-50-2033.00	Fine Ore Reclaim Apron Feeder No.3, 1524 W x 7600 L [E14-FDR-603]	1. ea	600.00	1.30	780.00	103.68	80,870	144.00	144	4,800.00	4,800	287,999.99	288,000	373,814.39	373,814
E08-50-2034.00	Fine Ore Reclaim Apron Feeder No.4, 1524 W x 7600 L [E14-FDR-604]	1. ea	600.00	1.30	780.00	103.68	80,870	144.00	144	4,800.00	4,800	287,999.99	288,000	373,814.39	373,814
E08-50-2035.00	Fine Ore Reclaim Apron Feeder No.5, 1524 W x 7600 L [E14-FDR-605]	1. ea	600.00	1.30	780.00	103.68	80,870	144.00	144	4,800.00	4,800	287,999.99	288,000	373,814.39	373,814
E08-50-2036.00	Fine Ore Reclaim Apron Feeder No.6, 1524 W x 7600 L [E14-FDR-606]	1. ea	600.00	1.30	780.00	103.68	80,870	144.00	144	4,800.00	4,800	287,999.99	288,000	373,814.39	373,814
E08-55-2037.00	Fine Ore Reclaim Apron Feeder Dribbles Chutes	67,524. kg	0.06	1.30	5,266.87	103.68	546,069	0.08	5,186	0.03	1,945	5.28	356,527	13.47	909,727
E08-55-2038.00	Fine Ore Reclaim Apron Feeder Dribbles Chutes AR Liners	64,098. kg	0.04	1.30	2,916.46	103.68	302,378	0.08	4,923	0.03	1,846	5.28	338,437	10.10	647,585



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E08-55-2039.00	Fine Ore Reclaim Apron Feeder Discharge Chutes	6,120. kg	0.06	1.30	477.36	103.68	49,493	0.08	470	0.03	176	5.28	32,314	13.47	82,453
E08-55-2040.00	Fine Ore Reclaim Apron Feeder Discharge Chutes AR Liners	5,040. kg	0.04	1.30	229.32	103.68	23,776	0.08	387	0.03	145	5.28	26,611	10.10	50,919
E08-50-2041.00	HPGR Feed Conveyor No.1, 1372 W x 645000 L [E14-CNV-621]	645. m	16.00	1.30	13,416.00	103.68	1,390,971	48.00	30,960	144.00	92,880	7,726.09	4,983,328	10,074.63	6,498,139
E08-55-2042.00	HPGR Feed Conveyor No.1 Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E08-55-2043.00	HPGR Feed Conveyor No.1 Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E08-50-2044.00	HPGR Feed Conveyor No.1 Self Cleaner Magnet [E14-MGT-627]	1. ea	20.00	1.30	26.00	103.68	2,696	24.00	24	480.00	480	28,800.00	28,800	31,999.68	32,000
E08-50-2045.00	HPGR Feed Conveyor No.1 Metal Detector [E14-MED-625]	1. ea	20.00	1.30	26.00	103.68	2,696	24.00	24	144.00	144	19,200.00	19,200	22,063.68	22,064
E08-50-2046.00	HPGR Feed Conveyor No.2, 1372 W x 645000 L [E14-CNV-622]	645. m	16.00	1.30	13,416.00	103.68	1,390,971	48.00	30,960	144.00	92,880	7,726.09	4,983,328	10,074.63	6,498,139
E08-55-2047.00	HPGR Feed Conveyor No.2 Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E08-55-2048.00	HPGR Feed Conveyor No.2 Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E08-50-2049.00	HPGR Feed Conveyor No.2 Self Cleaner Magnet [E14-MGT-628]	1. ea	20.00	1.30	26.00	103.68	2,696	24.00	24	480.00	480	28,800.00	28,800	31,999.68	32,000
E08-50-2050.00	HPGR Feed Conveyor No.2 Metal Detector [E14-MED-626]	1. ea	20.00	1.30	26.00	103.68	2,696	24.00	24	144.00	144	19,200.00	19,200	22,063.68	22,064
E08-50-2051.00	Fine Ore Stockpile Hoist No.1, 2t [E14-HOI-641]	1. ea	40.00	1.30	52.00	103.68	5,391	120.00	120	48.00	48	24,000.00	24,000	29,559.36	29,559
E08-50-2052.00	Fine Ore Stockpile Hoist No.2, 2t [E14-HOI-642]	1. ea	40.00	1.30	52.00	103.68	5,391	120.00	120	48.00	48	24,000.00	24,000	29,559.36	29,559
E08-50-2053.00	Fine Ore Stockpile Dust Collector Baghouse	1. lot	320.00	1.30	416.00	103.68	43,131	240.00	240	384.00	384	146,976.00	146,976	190,730.88	190,731
E08-50-2054.00	Fine Ore Stockpile Dust Collector With Exhaust Fan, 25,000 CFM, included [E14-COL-651]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E08-50-2055.00	Fine Ore Stockpile Dust Collector Screw Conveyor, included [E14-CNV-652]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E08-50-2056.00	Fine Ore Stockpile Dust Collector Rotary Valve, included [E14-VLV-653]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E08-60-2057.00	Piping allowance 1.00%	1. lot	499.00	1.00	499.00	103.68	51,736	136,828.94	136,829	2,416.02	2,416	0.00	0	190,981.28	190,981
E08-80-2058.00	Field Instrumentation & Bulks Allowance	1. lot	1,494.00	1.30	1,942.20	103.68	201,367	41,856.00	41,856	6,720.00	6,720	239,999.99	240,000	489,943.29	489,943
E08-70-2059.00	Electrical Motor Wiring, included in Areas A20/A30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E08 - Fine Ore Stockpile Subtotal					266,674.38		27,648,799		22,136,035		1,850,628		13,722,926		65,358,388
<u>E09 - Tertiary Crushing (HPGR)</u>															
E09-40-2061.00	HPGR Building, 31m x 80m x 27m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E09-13-2062.00	HPGR Building (including 400T Bins x 2 and Dust Collection); Detail Excavation	5,772. m3	0.06	1.30	450.22	103.68	46,678	0.00	0	3.60	20,779	0.00	0	11.69	67,458
E09-13-2063.00	HPGR Building (including 400T Bins x 2 and Dust Collection); Detail Excavation (Rock Excavation)	1,240. m3	0.10	1.30	161.20	103.68	16,713	0.00	0	5.28	6,547	0.00	0	18.76	23,260
E09-13-2064.00	HPGR Building (including 400T Bins x 2 and Dust Collection); Structural Backfill	3,130. m3	0.10	1.30	406.90	103.68	42,187	7.68	24,038	3.84	12,019	0.00	0	25.00	78,245
E09-20-2065.00	HPGR Building (including 400T Bins x 2 and Dust Collection); Concrete work	3,300. m3	6.50	1.30	27,885.00	103.68	2,891,117	734.40	2,423,520	24.00	79,200	0.00	0	1,634.50	5,393,837
E09-30-2066.00	HPGR Building (including 400T Bins x 2 and Dust Collection); Structural Steel	2,365. t	22.00	1.30	67,639.00	103.68	7,012,811	4,608.00	10,897,920	240.00	567,600	0.00	0	7,813.25	18,478,331
E09-40-2067.00	HPGR Building (including 400T Bins x 2 and Dust Collection); Wall cladding	5,995. m2	1.00	1.30	7,793.50	103.68	808,030	105.60	633,072	14.40	86,328	0.00	0	254.78	1,527,430
E09-40-2068.00	HPGR Building (including 400T Bins x 2 and Dust Collection); Roof cladding	2,480. m2	1.00	1.30	3,224.00	103.68	334,264	105.60	261,888	14.40	35,712	0.00	0	254.78	631,864
E09-13-2069.00	Conveyor; Detail Excavation	15,450. m3	0.06	1.30	1,205.10	103.68	124,945	0.00	0	3.60	55,620	0.00	0	11.69	180,565
E09-13-2070.00	Conveyor; Structural Backfill	14,060. m3	0.10	1.30	1,827.80	103.68	189,506	7.68	107,981	3.84	53,990	0.00	0	25.00	351,477



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E09-20-2071.00	Conveyor; Concrete work	1,545. m3	6.50	1.30	13,055.25	103.68	1,353,568	734.40	1,134,648	24.00	37,080	0.00	0	1,634.50	2,525,296
E09-58-2072.00	Building Services; Water Lines	1. lot	100.00	1.30	130.00	103.68	13,478	48,000.00	48,000	2,880.00	2,880	0.00	0	64,358.40	64,358
E09-58-2073.00	Building Services; Air Lines	1. lot	100.00	1.30	130.00	103.68	13,478	38,400.00	38,400	1,440.00	1,440	0.00	0	53,318.40	53,318
E09-58-2074.00	Building Services; Glycol System	1. lot	500.00	1.30	650.00	103.68	67,392	431,999.99	432,000	7,680.00	7,680	0.00	0	507,071.99	507,072
E09-40-2075.00	Louvers and snow canopies	1. lot	200.00	1.30	260.00	103.68	26,957	86,400.00	86,400	5,760.00	5,760	0.00	0	119,116.80	119,117
E09-40-2076.00	Finishes	1. lot	180.00	1.30	234.00	103.68	24,261	96,000.00	96,000	1,920.00	1,920	0.00	0	122,181.12	122,181
E09-40-2077.00	Offices/Washrooms	1. lot	120.00	1.30	156.00	103.68	16,174	57,600.00	57,600	2,880.00	2,880	0.00	0	76,654.08	76,654
E09-40-2078.00	Computers & Equipment	1. lot	80.00	1.30	104.00	103.68	10,783	48,000.00	48,000	192.00	192	0.00	0	58,974.72	58,975
E09-40-2079.00	Furniture	1. lot	125.00	1.30	162.50	103.68	16,848	76,800.00	76,800	720.00	720	0.00	0	94,368.00	94,368
E09-50-2080.00	HPGR Oversize Conveyor No.3 Splitter Chute [E16-CHU-617]	10,000. kg	0.06	1.30	780.00	103.68	80,870	0.08	768	0.03	288	5.28	52,800	13.47	134,726
E09-50-2081.00	HPGR Surge Bin No.1, 400t, (included in Structural Steel) [E16-BIN-603]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E09-50-2082.00	HPGR Surge Bin No.1 Vent, 8000 CFM [E16-EQP-605]	1. ea	24.00	1.30	31.20	103.68	3,235	48.00	48	24.00	24	12,000.00	12,000	15,306.82	15,307
E09-50-2083.00	HPGR Belt Feeder No. 1 (Rail Mounted), 1524 W x 10000 L [E16-FDR-615]	10. m	400.00	1.30	5,200.00	103.68	539,136	144.00	1,440	2,880.00	28,800	265,919.99	2,659,200	322,857.59	3,228,576
E09-55-2084.00	HPGR Belt Feeder No. 1 (Rail Mounted) Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E09-55-2085.00	HPGR Belt Feeder No. 1 (Rail Mounted) Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E09-50-2086.00	HPGR Belt Feeder No. 2 (Rail Mounted), 1524 W x 10000 L [E16-FDR-616]	10. m	400.00	1.30	5,200.00	103.68	539,136	144.00	1,440	2,880.00	28,800	265,919.99	2,659,200	322,857.59	3,228,576



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E09-55-2087.00	HPGR Belt Feeder No. 2 (Rail Mounted) Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E09-55-2088.00	HPGR Belt Feeder No. 2 (Rail Mounted) Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E09-50-2089.00	High Pressure Grinding Roll No.1 c/w PLC Control System [E16-CRU-620]	1. ea	6,750.00	1.30	8,775.00	103.68	909,792	960.00	960	1,440.00	1,440	10,811,091.87	10,811,092	11,723,283.85	11,723,284
E09-50-2090.00	High Pressure Grinding Roll No.1 Motor No.1, included [E16-MOT-621]	1. ea	750.00	1.30	975.00	103.68	101,088	192.00	192	144.00	144	0.00	0	101,424.00	101,424
E09-50-2091.00	High Pressure Grinding Roll No.1 Motor No.2, included [E16-MOT-622]	1. ea	750.00	1.30	975.00	103.68	101,088	192.00	192	144.00	144	0.00	0	101,424.00	101,424
E09-50-2092.00	HPGR Crusher No.1 Lube Unit, included [E16-LUB-640]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E09-50-2093.00	HPGR Crusher No.1 Lubrication Cooler, included [E16-COO-645]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E09-50-2094.00	High Pressure Grinding Roll No.2 c/w PLC Control System [E16-CRU-625]	1. ea	6,750.00	1.30	8,775.00	103.68	909,792	960.00	960	1,440.00	1,440	10,811,091.87	10,811,092	11,723,283.85	11,723,284
E09-50-2095.00	High Pressure Grinding Roll No.2 Motor No.1, included [E16-MOT-626]	1. ea	750.00	1.30	975.00	103.68	101,088	192.00	192	144.00	144	0.00	0	101,424.00	101,424
E09-50-2096.00	High Pressure Grinding Roll No.2 Motor No.2, included [E16-MOT-627]	1. ea	750.00	1.30	975.00	103.68	101,088	192.00	192	144.00	144	0.00	0	101,424.00	101,424
E09-50-2097.00	HPGR Crusher No.2 Lube Unit, included [E16-LUB-641]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E09-50-2098.00	HPGR Crusher No.2 Lubrication Cooler, included [E16-COO-646]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E09-50-2099.00	HPGR Crusher Discharge Conveyor No.1, 1829 W x 25600 L [E16-CNV-650]	25.6 m	23.00	1.30	765.44	103.68	79,361	48.00	1,229	144.00	3,686	16,423.51	420,442	19,715.54	504,718
E09-55-2100.00	HPGR Crusher Discharge Conveyor No.1 Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E09-55-2101.00	HPGR Crusher Discharge Conveyor No.1 Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E09-50-2102.00	HPGR Screen Feed Conveyor No.1, 1829 W x 205000 L [E16-CNV-652]	205. m	20.00	1.30	5,330.00	103.68	552,614	48.00	9,840	144.00	29,520	37,129.70	7,611,589	40,017.38	8,203,564



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E09-55-2103.00	HPGR Screen Feed Conveyor No.1 Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E09-55-2104.00	HPGR Screen Feed Conveyor No.1 Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E09-50-2105.00	HPGR Screen Oversize Conveyor No.3, 1372 W x 60000 L [E16-CNV-654]	60. m	18.00	1.30	1,404.00	103.68	145,567	48.00	2,880	144.00	8,640	5,809.57	348,574	8,427.68	505,661
E09-55-2106.00	HPGR Screen Oversize Conveyor No.3 Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E09-55-2107.00	HPGR Screen Oversize Conveyor No.3 Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E09-50-2108.00	HPGR Surge Bin No.2, 400t, (included in Structural Steel) [E16-BIN-604]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E09-50-2109.00	HPGR Surge Bin No.2 Vent, 8000 CFM [E16-EQP-606]	1. ea	24.00	1.30	31.20	103.68	3,235	48.00	48	24.00	24	12,000.00	12,000	15,306.82	15,307
E09-50-2110.00	HPGR Belt Feeder No. 3 (Rail Mounted), 1524 W x 10000 L [E16-FDR-617]	10. m	400.00	1.30	5,200.00	103.68	539,136	144.00	1,440	2,880.00	28,800	265,919.99	2,659,200	322,857.59	3,228,576
E09-55-2111.00	HPGR Belt Feeder No. 3 (Rail Mounted) Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E09-55-2112.00	HPGR Belt Feeder No. 3 (Rail Mounted) Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E09-50-2113.00	HPGR Belt Feeder No. 4 (Rail Mounted), 1524 W x 10000 L [E16-FDR-618]	10. m	400.00	1.30	5,200.00	103.68	539,136	144.00	1,440	2,880.00	28,800	265,919.99	2,659,200	322,857.59	3,228,576
E09-55-2114.00	HPGR Belt Feeder No. 4 (Rail Mounted) Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E09-55-2115.00	HPGR Belt Feeder No. 4 (Rail Mounted) Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E09-50-2116.00	High Pressure Grinding Roll No.3 c/w PLC Control System [E16-CRU-630]	1. ea	6,750.00	1.30	8,775.00	103.68	909,792	960.00	960	1,440.00	1,440	10,811,091.87	10,811,092	11,723,283.85	11,723,284
E09-50-2117.00	High Pressure Grinding Roll No.3 Motor No.1, (installed only) [E16-MOT-631]	1. ea	750.00	1.30	975.00	103.68	101,088	192.00	192	144.00	144	0.00	0	101,424.00	101,424
E09-50-2118.00	High Pressure Grinding Roll No.3 Motor No.2, (installed only) [E16-MOT-632]	1. ea	750.00	1.30	975.00	103.68	101,088	192.00	192	144.00	144	0.00	0	101,424.00	101,424



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E09-50-2119.00	HPGR Crusher No.3 Lubrication Cooler, included [E16-COO-647]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E09-50-2120.00	HPGR Crusher No.3 Lube Unit, included [E16-LUB-642]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E09-50-2121.00	High Pressure Grinding Roll No.4 c/w PLC Control System [E16-CRU-635]	1. ea	6,750.00	1.30	8,775.00	103.68	909,792	960.00	960	1,440.00	1,440	10,811,091.87	10,811,092	11,723,283.85	11,723,284
E09-50-2122.00	High Pressure Grinding Roll No.4 Motor No.1, included [E16-MOT-636]	1. ea	750.00	1.30	975.00	103.68	101,088	192.00	192	144.00	144	0.00	0	101,424.00	101,424
E09-50-2123.00	High Pressure Grinding Roll No.4 Motor No.2, included [E16-MOT-637]	1. ea	750.00	1.30	975.00	103.68	101,088	192.00	192	144.00	144	0.00	0	101,424.00	101,424
E09-50-2124.00	HPGR Crusher No.4 Lubrication Cooler, included [E16-COO-648]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E09-50-2125.00	HPGR Crusher No.4 Lube Unit, included [E16-LUB-643]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E09-50-2126.00	HPGR Crusher Discharge Conveyor No.2, 1829 W x 25600 L [E16-CNV-651]	25.6 m	23.00	1.30	765.44	103.68	79,361	48.00	1,229	144.00	3,686	16,423.51	420,442	19,715.54	504,718
E09-55-2127.00	HPGR Crusher Discharge Conveyor No.2 Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E09-55-2128.00	HPGR Crusher Discharge Conveyor No.2 Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E09-50-2129.00	HPGR Spare Roller Set (No installation) [E16-ROL-681]	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	5,611,885.59	5,611,886	5,611,885.59	5,611,886
E09-50-2130.00	HPGR Screen Feed Conveyor No.2, 1829 W x 205000 L [E16-CNV-653]	205. m	20.00	1.30	5,330.00	103.68	552,614	48.00	9,840	144.00	29,520	37,129.70	7,611,589	40,017.38	8,203,564
E09-55-2131.00	HPGR Screen Feed Conveyor No.2 Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E09-55-2132.00	HPGR Screen Feed Conveyor No.2 Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E09-50-2133.00	HPGR Building Area Crane, 50t [E16-CRN-610]	1. ea	200.00	1.30	260.00	103.68	26,957	288.00	288	1,920.00	1,920	254,399.99	254,400	283,564.79	283,565
E09-50-2134.00	HPGR Dust Collector No.1 Baghouse, 27,000 CFM	1. lot	320.00	1.30	416.00	103.68	43,131	240.00	240	384.00	384	146,976.00	146,976	190,730.88	190,731



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E09-50-2135.00	HPGR Dust Collector No.1 With Exhaust Fan, 27,000 CFM, included [E16-COL-661]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E09-50-2136.00	HPGR Dust Collector No.1 Screw Conveyor, included [E16-CNV-662]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E09-50-2137.00	HPGR Dust Collector No.1 Rotary Valve, included [E16-VLV-663]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E09-50-2138.00	HPGR Dust Collector No.2 Baghouse, 52,000 CFM	1. lot	320.00	1.30	416.00	103.68	43,131	264.00	264	336.00	336	248,662.51	248,663	292,393.39	292,393
E09-50-2139.00	HPGR Dust Collector No.2 With Exhaust Fan, 52,000 CFM, included [E16-COL-671]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E09-50-2140.00	HPGR Dust Collector No.2 Screw Conveyor, included [E16-CNV-672]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E09-50-2141.00	HPGR Dust Collector No.2 Rotary Valve, included [E16-VLV-673]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E09-58-2142.00	Fire Protection; Auto Sprinklers @ HPGR Lube Unit No.1	9. ea	4.00	1.30	46.80	103.68	4,852	960.00	8,640	4.80	43	0.00	0	1,503.94	13,535
E09-58-2143.00	Fire Protection; Auto Sprinklers @ HPGR Lube Unit No.2	9. ea	4.00	1.30	46.80	103.68	4,852	960.00	8,640	4.80	43	0.00	0	1,503.94	13,535
E09-58-2144.00	Fire Protection; Auto Sprinklers @ HPGR Lube Unit No.3	9. ea	4.00	1.30	46.80	103.68	4,852	960.00	8,640	4.80	43	0.00	0	1,503.94	13,535
E09-58-2145.00	Fire Protection; Auto Sprinklers @ HPGR Lube Unit No.4	9. ea	4.00	1.30	46.80	103.68	4,852	960.00	8,640	4.80	43	0.00	0	1,503.94	13,535
E09-58-2146.00	Fire Protection; Auto Sprinklers @ Conveyor within Structure	10. ea	4.00	1.30	52.00	103.68	5,391	960.00	9,600	4.80	48	0.00	0	1,503.94	15,039
E09-58-2147.00	HVAC (includes Propane Make-Up Air Unit, Propane Unit Heater, Echaust Fan, Supply Fan/Filter, etc.)	1. lot	280.00	1.30	364.00	103.68	37,740	326.40	326	9,577.61	9,578	266,186.87	266,187	313,830.41	313,830
E09-60-2148.00	Piping allowance 1.00%	1. lot	803.00	1.00	803.00	103.68	83,255	767,600.11	767,600	2,006.23	2,006	0.00	0	852,861.37	852,861
E09-80-2149.00	Field Instrumentation & Bulks Allowance	1. lot	2,100.00	1.30	2,730.00	103.68	283,046	54,633.60	54,634	9,360.00	9,360	345,599.99	345,600	692,639.98	692,640
E09-70-2150.00	Electrical Motor Wiring, included in Areas A20/A30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E09 - Tertiary Crushing (HPGR) Subtotal					209,899.97		21,762,428		17,272,082		1,200,136		77,332,702		117,567,348



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E10 - Mill Building															
E10-40-2152.00	Grinding Building	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E10-13-2153.00	Grinding Building; Detail Excavation	10,700. m3	0.06	1.30	834.60	103.68	86,531	0.00	0	3.60	38,520	0.00	0	11.69	125,051
E10-13-2154.00	Grinding Building; Detail Excavation (Rock Excavation)	4,020. m3	0.10	1.30	522.60	103.68	54,183	0.00	0	5.28	21,226	0.00	0	18.76	75,409
E10-13-2155.00	Grinding Building; Structural Backfill	5,072. m3	0.10	1.30	659.36	103.68	68,362	7.68	38,953	3.84	19,476	0.00	0	25.00	126,792
E10-20-2156.00	Grinding Building; Concrete work	8,040. m3	6.50	1.30	67,938.00	103.68	7,043,812	734.40	5,904,576	24.00	192,960	0.00	0	1,634.50	13,141,348
E10-30-2157.00	Grinding Building; Structural Steel	1,010. t	22.00	1.30	28,886.00	103.68	2,994,900	4,608.00	4,654,080	240.00	242,400	0.00	0	7,813.25	7,891,380
E10-40-2158.00	Grinding Building; Wall cladding	6,030. m2	1.00	1.30	7,839.00	103.68	812,748	105.60	636,768	14.40	86,832	0.00	0	254.78	1,536,347
E10-40-2159.00	Grinding Building; Roof cladding	5,040. m2	1.00	1.30	6,552.00	103.68	679,311	105.60	532,224	14.40	72,576	0.00	0	254.78	1,284,111
E10-13-2160.00	Conveyor; Detail Excavation	10,000. m3	0.06	1.30	780.00	103.68	80,870	0.00	0	3.60	36,000	0.00	0	11.69	116,870
E10-13-2161.00	Conveyor; Structural Backfill	9,100. m3	0.10	1.30	1,183.00	103.68	122,653	7.68	69,888	3.84	34,944	0.00	0	25.00	227,485
E10-20-2162.00	Conveyor; Concrete work	1,000. m3	6.50	1.30	8,450.00	103.68	876,096	734.40	734,400	24.00	24,000	0.00	0	1,634.50	1,634,496
E10-13-2163.00	Transformer Station; Detail Excavation	1,215. m3	0.06	1.30	94.77	103.68	9,826	0.00	0	3.60	4,374	0.00	0	11.69	14,200
E10-13-2164.00	Transformer Station; Structural Backfill	1,035. m3	0.10	1.30	134.55	103.68	13,950	7.68	7,949	3.84	3,974	0.00	0	25.00	25,873
E10-20-2165.00	Transformer Station; Concrete work	250. m3	6.50	1.30	2,112.50	103.68	219,024	734.40	183,600	24.00	6,000	0.00	0	1,634.50	408,624
E10-13-2166.00	Flotation/Dewatering Area; Detail Excavation	58,255. m3	0.06	1.30	4,543.89	103.68	471,111	0.00	0	3.60	209,718	0.00	0	11.69	680,828
E10-13-2167.00	Flotation/Dewatering Area; Structural Backfill	46,340. m3	0.10	1.30	6,024.20	103.68	624,589	7.68	355,891	3.84	177,946	0.00	0	25.00	1,158,426



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E10-20-2168.00	Flotation/Dewatering Area; Concrete work	13,240. m3	6.50	1.30	111,878.00	103.68	11,599,511	734.40	9,723,456	24.00	317,760	0.00	0	1,634.50	21,640,727
E10-30-2169.00	Flotation/Dewatering Area; Structural Steel	6,620. t	22.00	1.30	189,332.00	103.68	19,629,941	4,608.00	30,504,959	240.00	1,588,800	0.00	0	7,813.25	51,723,701
E10-40-2170.00	Flotation/Dewatering Area; Wall cladding	19,705. m2	1.00	1.30	25,616.50	103.68	2,655,919	105.60	2,080,848	14.40	283,752	0.00	0	254.78	5,020,519
E10-40-2171.00	Flotation/Dewatering Area; Roof cladding	21,745. m2	1.00	1.30	28,268.50	103.68	2,930,878	105.60	2,296,272	14.40	313,128	0.00	0	254.78	5,540,278
E10-40-2172.00	Flotation/Dewatering Area; Fire Protection; Auto Sprinklers @ Compressor Room	112. ea	4.00	1.30	582.40	103.68	60,383	960.00	107,520	4.80	538	0.00	0	1,503.94	168,441
E10-40-2173.00	Flotation/Dewatering Area; Fire Protection; Auto Sprinklers @ 2nd Floor Office	114. ea	4.00	1.30	592.80	103.68	61,462	960.00	109,440	4.80	547	0.00	0	1,503.94	171,449
E10-40-2174.00	Flotation/Dewatering Area; Fire Protection; Auto Sprinklers @ 3rd Floor Office	114. ea	4.00	1.30	592.80	103.68	61,462	960.00	109,440	4.80	547	0.00	0	1,503.94	171,449
E10-40-2175.00	Flotation/Dewatering Area; Fire Protection; Auto Sprinklers @ Transformer	57. ea	4.00	1.30	296.40	103.68	30,731	960.00	54,720	4.80	274	0.00	0	1,503.94	85,724
E10-40-2176.00	Flotation/Dewatering Area; Fire Protection; Auto Sprinklers @ Drive Through	57. ea	4.00	1.30	296.40	103.68	30,731	960.00	54,720	4.80	274	0.00	0	1,503.94	85,724
E10-40-2177.00	Flotation/Dewatering Area; Fire Protection; Fire Extinguishers	11. ea	4.00	1.30	57.20	103.68	5,930	384.00	4,224	4.80	53	0.00	0	927.94	10,207
E10-40-2178.00	Flotation/Dewatering Area; Fire Protection; Fire Hose System	2. ea	8.00	1.30	20.80	103.68	2,157	1,920.00	3,840	19.20	38	0.00	0	3,017.47	6,035
E10-13-2179.00	Transformer Station; Detail Excavation	1,505. m3	0.06	1.30	117.39	103.68	12,171	0.00	0	3.60	5,418	0.00	0	11.69	17,589
E10-13-2180.00	Transformer Station; Structural Backfill	1,315. m3	0.10	1.30	170.95	103.68	17,724	7.68	10,099	3.84	5,050	0.00	0	25.00	32,873
E10-20-2181.00	Transformer Station; Concrete work	275. m3	6.50	1.30	2,323.75	103.68	240,926	734.40	201,960	24.00	6,600	0.00	0	1,634.50	449,486
E10-80-2182.00	Field Instrumentation & Bulks Allowance	1. lot	324.00	1.30	421.20	103.68	43,670	8,738.40	8,738	1,440.00	1,440	52,800.00	52,800	106,648.41	106,648
E10-58-2183.00	HVAC Allowance	1. lot	2,235.00	1.00	2,235.00	103.68	231,725	5,308.80	5,309	88,953.60	88,954	1,912,377.56	1,912,378	2,238,364.75	2,238,365



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E10-50-2293.00	[Y25] - Process Equipment Replacement Cost, (Sustaining Capital CAD\$20,000,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E10-50-2294.00	[Y35] - Process Equipment Replacement Cost, (Sustaining Capital CAD\$20,000,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E10 - Mill Building Subtotal					499,356.56		51,773,287		58,393,874		3,784,118		1,965,178		115,916,456
<u>E15 - Primary & Secondary Grinding (including Pebble Crushing)</u>															
E15-50-2296.00	HPGR Screen Splitter Chute No.1 [E15-CHU-601]	10,000. kg	0.06	1.30	780.00	103.68	80,870	0.08	768	0.03	288	5.28	52,800	13.47	134,726
E15-50-2297.00	HPGR Screen No.1, 4000 W x 8000 L [E15-SCN-610]	1. ea	230.00	1.30	299.00	103.68	31,000	240.00	240	1,680.00	1,680	614,146.99	614,147	647,067.31	647,067
E15-55-2298.00	HPGR Screen No.1 Oversize Chute	2,500. kg	0.06	1.30	195.00	103.68	20,218	0.08	192	0.03	72	5.28	13,200	13.47	33,682
E15-55-2299.00	HPGR Screen No.1 Undersize Chute	2,500. kg	0.04	1.30	113.75	103.68	11,794	0.08	192	0.03	72	5.28	13,200	10.10	25,258
E15-50-2300.00	HPGR Screen No.2, 4000 W x 8000 L [E15-SCN-611]	1. ea	230.00	1.30	299.00	103.68	31,000	240.00	240	1,680.00	1,680	614,146.99	614,147	647,067.31	647,067
E15-55-2301.00	HPGR Screen No.2 Oversize Chute	2,500. kg	0.06	1.30	195.00	103.68	20,218	0.08	192	0.03	72	5.28	13,200	13.47	33,682
E15-55-2302.00	HPGR Screen No.2 Undersize Chute	2,500. kg	0.04	1.30	113.75	103.68	11,794	0.08	192	0.03	72	5.28	13,200	10.10	25,258
E15-50-2303.00	HPGR Screen Oversize Conveyor No.1, 1372 W x 25000 L [E15-CNV-615]	25. m	18.00	1.30	585.00	103.68	60,653	48.00	1,200	144.00	3,600	5,809.57	145,239	8,427.68	210,692
E15-55-2304.00	HPGR Screen Oversize Conveyor No.1 Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E15-55-2305.00	HPGR Screen Oversize Conveyor No.1 Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E15-50-2306.00	HPGR Screen Splitter Chute No.2 [E15-CHU-602]	10,000. kg	0.06	1.30	780.00	103.68	80,870	0.08	768	0.03	288	5.28	52,800	13.47	134,726
E15-50-2307.00	HPGR Screen No.3, 4000 W x 8000 L [E15-SCN-612]	1. ea	230.00	1.30	299.00	103.68	31,000	240.00	240	1,680.00	1,680	614,146.99	614,147	647,067.31	647,067
E15-55-2308.00	HPGR Screen No.3 Oversize Chute	2,500. kg	0.06	1.30	195.00	103.68	20,218	0.08	192	0.03	72	5.28	13,200	13.47	33,682



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E15-55-2309.00	HPGR Screen No.3 Undersize Chute	2,500. kg	0.04	1.30	113.75	103.68	11,794	0.08	192	0.03	72	5.28	13,200	10.10	25,258
E15-50-2310.00	HPGR Screen No.4, 4000 W x 8000 L [E15-SCN-613]	1. ea	230.00	1.30	299.00	103.68	31,000	240.00	240	1,680.00	1,680	614,146.99	614,147	647,067.31	647,067
E15-55-2311.00	HPGR Screen No.4 Oversize Chute	2,500. kg	0.06	1.30	195.00	103.68	20,218	0.08	192	0.03	72	5.28	13,200	13.47	33,682
E15-55-2312.00	HPGR Screen No.4 Undersize Chute	2,500. kg	0.04	1.30	113.75	103.68	11,794	0.08	192	0.03	72	5.28	13,200	10.10	25,258
E15-50-2313.00	HPGR Screen No.5 (Spare) (No installation), 4000 W x 8000 L [E15-SCN-614]	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	480.00	480	614,146.99	614,147	614,626.99	614,627
E15-50-2314.00	HPGR Screen Oversize Conveyor No.2, 1372 W x 25000 L [E15-CNV-616]	25. m	18.00	1.30	585.00	103.68	60,653	48.00	1,200	144.00	3,600	5,809.57	145,239	8,427.68	210,692
E15-55-2315.00	HPGR Screen Oversize Conveyor No.2 Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E15-55-2316.00	HPGR Screen Oversize Conveyor No.2 Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E15-50-2317.00	HPGR Screen Oversize Conveyor No.3, 1372 W x 163000 L [E15-CNV-617]	163. m	16.00	1.30	3,390.40	103.68	351,517	48.00	7,824	144.00	23,472	7,726.09	1,259,353	10,074.63	1,642,165
E15-55-2318.00	HPGR Screen Oversize Conveyor No.3 Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E15-55-2319.00	HPGR Screen Oversize Conveyor No.3 Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E15-50-2320.00	Cyclone Cluster Feed Pumpbox No.1 c/w Rubber Liner [E15-PBX-052]	6,200. kg	0.08	1.30	644.80	103.68	66,853	0.10	595	0.03	179	5.76	35,712	16.67	103,339
E15-50-2321.00	Primary Cyclone Cluster No.1 Feed Pump (VFD) c/w motor 1650kW, 700 x 650 [E15-PSL-045]	1. ea	510.00	1.30	663.00	103.68	68,740	4,800.00	4,800	6,720.00	6,720	362,159.99	362,160	442,419.83	442,420
E15-50-2322.00	Primary Grinding Cyclone Cluster No.1 (11 Operating / 1 Standby), 12 x 710 [E15-CYC-020]	1. ea	650.00	1.30	845.00	103.68	87,610	720.00	720	4,800.00	4,800	530,783.99	530,784	623,913.59	623,914
E15-50-2323.00	Cyclone Cluster Overflow No.1 Sampler [E15-SMP-060]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E15-55-2324.00	Ball Mill No.1 Feed Chute	3,710. kg	0.06	1.30	289.38	103.68	30,003	0.08	285	0.03	107	5.28	19,589	13.47	49,983



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E15-55-2325.00	Ball Mill No.1 Feed Chute AR Liner	2,950. kg	0.04	1.30	134.23	103.68	13,916	0.08	227	0.03	85	5.28	15,576	10.10	29,804
E15-50-2326.00	Ball Mill No.1, 7320 D x 12500 [E15-MIL-025]	1. ea	9,000.00	1.30	11,700.00	103.68	1,213,056	9,600.00	9,600	19,200.00	19,200	16,604,499.63	16,604,500	17,846,355.60	17,846,356
E15-50-2327.00	Ball Mill Cradle No.1, included [E15-EQP-181]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E15-50-2328.00	Ball Mill Lube Unit No.1, included [E15-LUB-031]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E15-55-2329.00	Ball Mill No.1 Discharge Chute	1,500. kg	0.06	1.30	117.00	103.68	12,131	0.08	115	0.03	43	5.28	7,920	13.47	20,209
E15-55-2330.00	Ball Mill No.1 Discharge Chute AR Liner	1,000. kg	0.04	1.30	45.50	103.68	4,717	0.08	77	0.03	29	5.28	5,280	10.10	10,103
E15-50-2331.00	Grinding Area Sump Pump No.1 c/w motor 60kW, 250 [E15-PSU-066]	1. ea	100.00	1.30	130.00	103.68	13,478	48.00	48	96.00	96	49,920.00	49,920	63,542.40	63,542
E15-50-2332.00	Cyclone Cluster Feed Pumpbox No.2 c/w Rubber Liner [E15-PBX-053]	6,200. kg	0.08	1.30	644.80	103.68	66,853	0.10	595	0.03	179	5.76	35,712	16.67	103,339
E15-50-2333.00	Primary Cyclone Cluster No.2 Feed Pump (VFD) c/w motor 1650kW, 700 x 650 [E15-PSL-046]	1. ea	510.00	1.30	663.00	103.68	68,740	4,800.00	4,800	6,720.00	6,720	362,159.99	362,160	442,419.83	442,420
E15-50-2334.00	Primary Cyclone Cluster No.1 & 2 Feed Pump (VFD) (Back-Up) c/w motor 1650kW, 700 x 650 [E15-PSL-049]	1. ea	510.00	1.30	663.00	103.68	68,740	4,800.00	4,800	6,720.00	6,720	362,159.99	362,160	442,419.83	442,420
E15-50-2335.00	Primary Grinding Cyclone Cluster No.2 (11 Operating / 1 Standby), 12 x 710 [E15-CYC-021]	1. ea	650.00	1.30	845.00	103.68	87,610	720.00	720	4,800.00	4,800	530,783.99	530,784	623,913.59	623,914
E15-50-2336.00	Cyclone Cluster Overflow No.2 Sampler [E15-SMP-061]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E15-55-2337.00	Ball Mill No.2 Feed Chute	3,710. kg	0.06	1.30	289.38	103.68	30,003	0.08	285	0.03	107	5.28	19,589	13.47	49,983
E15-55-2338.00	Ball Mill No.2 Feed Chute AR Liner	2,950. kg	0.04	1.30	134.23	103.68	13,916	0.08	227	0.03	85	5.28	15,576	10.10	29,804
E15-50-2339.00	Ball Mill No.2, 7320 D x 12500 [E15-MIL-026]	1. ea	9,000.00	1.30	11,700.00	103.68	1,213,056	9,600.00	9,600	19,200.00	19,200	16,604,499.63	16,604,500	17,846,355.60	17,846,356
E15-50-2340.00	Ball Mill Cradle No.2, included [E15-EQP-182]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E15-50-2341.00	Ball Mill Lube Unit No.2, included [E15-LUB-032]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E15-55-2342.00	Ball Mill No.2 Discharge Chute	1,500. kg	0.06	1.30	117.00	103.68	12,131	0.08	115	0.03	43	5.28	7,920	13.47	20,209
E15-55-2343.00	Ball Mill No.2 Discharge Chute AR Liner	1,000. kg	0.04	1.30	45.50	103.68	4,717	0.08	77	0.03	29	5.28	5,280	10.10	10,103
E15-50-2344.00	Cyclone Cluster Feed Pumpbox No.3 c/w Rubber Liner [E15-PBX-054]	6,200. kg	0.08	1.30	644.80	103.68	66,853	0.10	595	0.03	179	5.76	35,712	16.67	103,339
E15-50-2345.00	Primary Cyclone Cluster No.3 Feed Pump (VFD) c/w motor 1650kW, 700 x 650 [E15-PSL-047]	1. ea	510.00	1.30	663.00	103.68	68,740	4,800.00	4,800	6,720.00	6,720	362,159.99	362,160	442,419.83	442,420
E15-50-2346.00	Primary Grinding Cyclone Cluster No.3 (11 Operating / 1 Standby), 12 x 710 [E15-CYC-022]	1. ea	650.00	1.30	845.00	103.68	87,610	720.00	720	4,800.00	4,800	530,783.99	530,784	623,913.59	623,914
E15-50-2347.00	Cyclone Cluster Overflow No.3 Sampler [E15-SMP-062]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E15-55-2348.00	Ball Mill No.3 Feed Chute	3,710. kg	0.06	1.30	289.38	103.68	30,003	0.08	285	0.03	107	5.28	19,589	13.47	49,983
E15-55-2349.00	Ball Mill No.3 Feed Chute AR Liner	2,950. kg	0.04	1.30	134.23	103.68	13,916	0.08	227	0.03	85	5.28	15,576	10.10	29,804
E15-50-2350.00	Ball Mill No.3, 7320 D x 12500 [E15-MIL-025]	1. ea	9,000.00	1.30	11,700.00	103.68	1,213,056	9,600.00	9,600	19,200.00	19,200	16,604,499.63	16,604,500	17,846,355.60	17,846,356
E15-50-2351.00	Ball Mill Cradle No.3, included [E15-EQP-181]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E15-50-2352.00	Ball Mill Lube Unit No.3, included [E15-LUB-031]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E15-55-2353.00	Ball Mill No.3 Discharge Chute	1,500. kg	0.06	1.30	117.00	103.68	12,131	0.08	115	0.03	43	5.28	7,920	13.47	20,209
E15-55-2354.00	Ball Mill No.3 Discharge Chute AR Liner	1,000. kg	0.04	1.30	45.50	103.68	4,717	0.08	77	0.03	29	5.28	5,280	10.10	10,103
E15-50-2355.00	Grinding Area Sump Pump No.2 c/w motor 60kW, 250 [E15-PSU-068]	1. ea	100.00	1.30	130.00	103.68	13,478	48.00	48	96.00	96	49,920.00	49,920	63,542.40	63,542
E15-50-2356.00	Cyclone Cluster Feed Pumpbox No.4 c/w Rubber Liner [E15-PBX-055]	6,200. kg	0.08	1.30	644.80	103.68	66,853	0.10	595	0.03	179	5.76	35,712	16.67	103,339



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E15-50-2357.00	Primary Cyclone Cluster No.4 Feed Pump (VFD) c/w motor 1650kW, 700 x 650 [E15-PSL-048]	1. ea	510.00	1.30	663.00	103.68	68,740	4,800.00	4,800	6,720.00	6,720	362,159.99	362,160	442,419.83	442,420
E15-50-2358.00	Primary Cyclone Cluster No.3 & 4 Feed Pump (VFD) (Back-Up) c/w motor 1650kW, 700 x 650 [E15-PSL-050]	1. ea	510.00	1.30	663.00	103.68	68,740	4,800.00	4,800	6,720.00	6,720	362,159.99	362,160	442,419.83	442,420
E15-50-2359.00	Primary Grinding Cyclone Cluster No.4 (11 Operating / 1 Standby), 12 x 710 [E15-CYC-023]	1. ea	650.00	1.30	845.00	103.68	87,610	720.00	720	4,800.00	4,800	530,783.99	530,784	623,913.59	623,914
E15-50-2360.00	Cyclone Cluster Overflow No.4 Sampler [E15-SMP-063]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E15-55-2361.00	Ball Mill No.4 Feed Chute	3,710. kg	0.06	1.30	289.38	103.68	30,003	0.08	285	0.03	107	5.28	19,589	13.47	49,983
E15-55-2362.00	Ball Mill No.4 Feed Chute AR Liner	2,950. kg	0.04	1.30	134.23	103.68	13,916	0.08	227	0.03	85	5.28	15,576	10.10	29,804
E15-50-2363.00	Ball Mill No.4, 7320 D x 12500 [E15-MIL-028]	1. ea	9,000.00	1.30	11,700.00	103.68	1,213,056	9,600.00	9,600	19,200.00	19,200	16,604,499.63	16,604,500	17,846,355.60	17,846,356
E15-50-2364.00	Ball Mill Cradle No.4, included [E15-EQP-186]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E15-50-2365.00	Ball Mill Lube Unit No.4, included [E15-LUB-034]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E15-50-2366.00	Ball Mill Inching Drive, included [E15-DRV-035]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E15-50-2367.00	Ball Mill Ball Charging System, included [E15-EQP-183]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E15-55-2368.00	Ball Mill No.4 Discharge Chute	1,500. kg	0.06	1.30	117.00	103.68	12,131	0.08	115	0.03	43	5.28	7,920	13.47	20,209
E15-55-2369.00	Ball Mill No.4 Discharge Chute AR Liner	1,000. kg	0.04	1.30	45.50	103.68	4,717	0.08	77	0.03	29	5.28	5,280	10.10	10,103
E15-50-2370.00	Cooling Water Filter [E15-FIL-197]	1. ea	20.00	1.30	26.00	103.68	2,696	24.00	24	48.00	48	4,800.00	4,800	7,567.68	7,568
E15-50-2371.00	Mill Cooling System [E15-SCN-511]	1. ea	1,000.00	1.30	1,300.00	103.68	134,784	720.00	720	960.00	960	959,999.98	960,000	1,096,463.98	1,096,464
E15-50-2372.00	SAG Mill 125mm Automatic Ball Charging Feeder [E15-FDR-600]	1. ea	100.00	1.30	130.00	103.68	13,478	48.00	48	96.00	96	72,000.00	72,000	85,622.40	85,622



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E15-50-2373.00	Mill Inching Hydraulic Power Pack [E15-PPK-184]	1. ea	150.00	1.30	195.00	103.68	20,218	96.00	96	2,400.00	2,400	192,000.00	192,000	214,713.60	214,714
E15-50-2374.00	SAG Mill Liner Handler [E15-HAN-509]	1. lot	200.00	1.30	260.00	103.68	26,957	96.00	96	3,360.00	3,360	1,873,251.35	1,873,251	1,903,664.15	1,903,664
E15-50-2375.00	Ball Mill Liner Handler [E15-HAN-036]	1. lot	200.00	1.30	260.00	103.68	26,957	96.00	96	3,360.00	3,360	1,873,251.35	1,873,251	1,903,664.15	1,903,664
E15-50-2376.00	Particle Size Analyzer No.1 [E15-ANA-003]	1. ea	200.00	1.30	260.00	103.68	26,957	192.00	192	1,920.00	1,920	335,999.99	336,000	365,068.79	365,069
E15-50-2377.00	Particle Size Analyzer No.2 [E15-ANA-004]	1. ea	200.00	1.30	260.00	103.68	26,957	192.00	192	1,920.00	1,920	335,999.99	336,000	365,068.79	365,069
E15-50-2378.00	Pebble Crusher Discharge Scale No.1 [E15-SCB-545]	1. ea	50.00	1.30	65.00	103.68	6,739	24.00	24	480.00	480	37,440.00	37,440	44,683.20	44,683
E15-50-2379.00	Pebble Crusher Discharge Scale No.2 [E15-SCB-555]	1. ea	50.00	1.30	65.00	103.68	6,739	24.00	24	480.00	480	37,440.00	37,440	44,683.20	44,683
E15-50-2380.00	Primary Grinding Crane No.1 (35m span, 30m lift)), 110/20T [E15-CRN-005]	1. ea	375.00	1.30	487.50	103.68	50,544	960.00	960	4,800.00	4,800	863,999.98	864,000	920,303.98	920,304
E15-50-2381.00	Primary Grinding Crane No.2 (33m span, 30m lift), 50/10T [E15-CRN-007]	1. ea	250.00	1.30	325.00	103.68	33,696	288.00	288	1,920.00	1,920	383,999.99	384,000	419,903.99	419,904
E15-50-2382.00	Primary Grinding Crane No.3 (33m span, 30m lift), 50/10T [E15-CRN-008]	1. ea	250.00	1.30	325.00	103.68	33,696	288.00	288	1,920.00	1,920	383,999.99	384,000	419,903.99	419,904
E15-50-2383.00	Grinding Area Sump Pump Hoist, 15T [E15-HOI-189]	1. ea	80.00	1.30	104.00	103.68	10,783	120.00	120	72.00	72	55,200.00	55,200	66,174.72	66,175
E15-58-2384.00	Fire Protection; Auto Sprinklers @ SAG Mill Lube Unit No.1	9. ea	4.00	1.30	46.80	103.68	4,852	960.00	8,640	4.80	43	0.00	0	1,503.94	13,535
E15-58-2385.00	Fire Protection; Auto Sprinklers @ SAG Mill Lube Unit No.2	9. ea	4.00	1.30	46.80	103.68	4,852	960.00	8,640	4.80	43	0.00	0	1,503.94	13,535
E15-58-2386.00	Fire Protection; Auto Sprinklers @ Ball Mill Lube Unit No.1	9. ea	4.00	1.30	46.80	103.68	4,852	960.00	8,640	4.80	43	0.00	0	1,503.94	13,535
E15-58-2387.00	Fire Protection; Auto Sprinklers @ Ball Mill Lube Unit No.2	9. ea	4.00	1.30	46.80	103.68	4,852	960.00	8,640	4.80	43	0.00	0	1,503.94	13,535
E15-58-2388.00	Fire Protection; Auto Sprinklers @ Ball Mill Lube Unit No.3	9. ea	4.00	1.30	46.80	103.68	4,852	960.00	8,640	4.80	43	0.00	0	1,503.94	13,535



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E15-58-2389.00	Fire Protection; Auto Sprinklers @ Ball Mill Lube Unit No.4	9. ea	4.00	1.30	46.80	103.68	4,852	960.00	8,640	4.80	43	0.00	0	1,503.94	13,535
E15-58-2390.00	HVAC Allowance, included in Area E10 - Mill Building	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E15-60-2391.00	Piping Allowance 1.25%	1. lot	793.85	1.00	793.85	103.68	82,307	985,139.44	985,139	2,026.42	2,026	0.00	0	1,069,472.38	1,069,472
E15-80-2392.00	Field Instrumentation & Bulks Allowance	1. lot	12,000.00	1.30	15,600.00	103.68	1,617,408	319,355.99	319,356	52,800.00	52,800	1,963,199.96	1,963,200	3,952,763.91	3,952,764
E15-70-2393.00	Electrical Motor Wiring (included in Area XXX), included in Areas A20/A30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E15 - Primary & Secondary Grinding (including Pebble Crushing) Subtotal					89,087.51		9,236,593		1,449,751		256,384		85,556,853		96,499,580
<u>E20 - Flotation</u>															
E20-50-2395.00	Cu Rougher Flotation Sump Pump No.1 c/w motor 30kW, 100 [E20-PSU-027]	1. ea	60.00	1.30	78.00	103.68	8,087	48.00	48	48.00	48	28,800.00	28,800	36,983.04	36,983
E20-50-2396.00	Cu Rougher Flotation Sump Pump No.2 c/w motor 30kW, 100 [E20-PSU-028]	1. ea	60.00	1.30	78.00	103.68	8,087	48.00	48	48.00	48	28,800.00	28,800	36,983.04	36,983
E20-50-2397.00	Cu Rougher Flotation Cell No.1, 200m³ [E20-FLO-001]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	336.00	336	440,106.66	440,107	481,117.86	481,118
E20-50-2398.00	Cu Rougher Flotation Cell No.2, 200m³ [E20-FLO-002]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	336.00	336	440,106.66	440,107	481,117.86	481,118
E20-50-2399.00	Cu Rougher Flotation Cell No.3, 200m³ [E20-FLO-003]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	336.00	336	440,106.66	440,107	481,117.86	481,118
E20-50-2400.00	Cu Rougher Flotation Cell No.4, 200m³ [E20-FLO-004]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	336.00	336	440,106.66	440,107	481,117.86	481,118
E20-50-2401.00	Cu Rougher Flotation Cell No.5, 200m³ [E20-FLO-005]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	336.00	336	440,106.66	440,107	481,117.86	481,118
E20-50-2402.00	Cu Rougher Flotation Cell No.6, 200m³ [E20-FLO-006]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	336.00	336	440,106.66	440,107	481,117.86	481,118
E20-50-2403.00	Cu Rougher Flotation Cell No.7, 200m³ [E20-FLO-007]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	336.00	336	440,106.66	440,107	481,117.86	481,118
E20-50-2404.00	Cu Rougher Flotation Cell No.8, 200m³ [E20-FLO-008]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	336.00	336	440,106.66	440,107	481,117.86	481,118



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E20-50-2405.00	Cu Rougher Flotation Cell No.9, 200m³ [E20-FLO-009]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	336.00	336	440,106.66	440,107	481,117.86	481,118
E20-50-2406.00	Cu Rougher Flotation Cell No.10, 200m³ [E20-FLO-010]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	336.00	336	440,106.66	440,107	481,117.86	481,118
E20-50-2410.00	Cu Rougher Flotation Cell No.11, 200m³ [E20-FLO-011]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	336.00	336	440,106.66	440,107	481,117.86	481,118
E20-50-2411.00	Cu Rougher Flotation Cell No.12, 200m³ [E20-FLO-012]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	336.00	336	440,106.66	440,107	481,117.86	481,118
E20-50-2412.00	Cu Rougher Flotation Cell No.13, 200m³ [E20-FLO-013]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	336.00	336	440,106.66	440,107	481,117.86	481,118
E20-50-2413.00	Cu Rougher Flotation Cell No.14, 200m³ [E20-FLO-014]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	336.00	336	440,106.66	440,107	481,117.86	481,118
E20-50-2414.00	Cu Rougher Flotation Cell No.15, 200m³ [E20-FLO-015]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	336.00	336	440,106.66	440,107	481,117.86	481,118
E20-50-2415.00	Cu Rougher Flotation Cell No.16, 200m³ [E20-FLO-016]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	336.00	336	440,106.66	440,107	481,117.86	481,118
E20-50-2416.00	Cu Rougher Flotation Cell No.17, 200m³ [E20-FLO-017]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	336.00	336	440,106.66	440,107	481,117.86	481,118
E20-50-2417.00	Cu Rougher Flotation Cell No.18, 200m³ [E20-FLO-018]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	336.00	336	440,106.66	440,107	481,117.86	481,118
E20-50-2418.00	Cu Rougher Flotation Cell No.19, 200m³ [E20-FLO-019]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	336.00	336	440,106.66	440,107	481,117.86	481,118
E20-50-2419.00	Cu Rougher Flotation Cell No.20, 200m³ [E20-FLO-020]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	336.00	336	440,106.66	440,107	481,117.86	481,118
E20-50-2423.00	Cu Rougher Tailings Sampler No.1 [E20-SMP-321]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E20-50-2424.00	Cu Rougher Tailings Sampler No.2 [E20-SMP-322]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E20-50-2425.00	Cu Rougher Tailings Sampler No.3 [E20-SMP-323]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E20-50-2426.00	Cu Rougher Tailings Sampler No.4 [E20-SMP-324]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E20-50-2427.00	Cu Rougher Concentrate Sampler No.1 [E20-SMP-311]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E20-50-2428.00	Cu Rougher Concentrate Sampler No.2 [E20-SMP-312]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E20-50-2429.00	Cu Rougher Concentrate Sampler No.3 [E20-SMP-313]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E20-50-2430.00	Cu Rougher Concentrate Sampler No.4 [E20-SMP-314]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E20-50-2431.00	Regrind Area Sump Pump c/w motor 30kW, 100 [E20-PSU-035]	1. ea	60.00	1.30	78.00	103.68	8,087	48.00	48	48.00	48	28,800.00	28,800	36,983.04	36,983
E20-50-2432.00	Cu Rougher Concentrate Regrind Cyclone Feed Pumpbox [E20-PBX-030]	6,710. kg	0.06	1.30	523.38	103.68	54,264	0.08	515	0.03	193	5.28	35,429	13.47	90,401
E20-50-2433.00	Cu Rougher Regrind Cyclone Feed Pump (VFD) No.1 c/w motor 500kW, 400 x 350 [E20-PSL-031]	1. ea	180.00	1.30	234.00	103.68	24,261	960.00	960	4,800.00	4,800	100,478.40	100,478	130,499.52	130,500
E20-50-2434.00	Cu Rougher Regrind Cyclone Feed Pump (VFD) No.2 c/w motor 500kW, 400 x 350 [E20-PSL-032]	1. ea	180.00	1.30	234.00	103.68	24,261	960.00	960	4,800.00	4,800	100,478.40	100,478	130,499.52	130,500
E20-50-2435.00	Cu Rougher Concentrate Regrind Cyclone Cluster, 25 x 250 (22 op 3 st) [E20-CYC-034]	1. ea	400.00	1.30	520.00	103.68	53,914	336.00	336	3,072.00	3,072	204,048.00	204,048	261,369.59	261,370
E20-50-2436.00	Cu Rougher Concentrate Regrind Sampler [E20-SMP-331]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E20-50-2437.00	Cu Rougher Concentrate Regrind Mill Feed Distributor [E20-DIS-036]	1. ea	50.00	1.30	65.00	103.68	6,739	96.00	96	480.00	480	24,000.00	24,000	31,315.20	31,315
E20-50-2438.00	Cu Rougher Regrind Tower Mill No.1 c/w Lube Unit, VTM-3000-WB [E20-MIL-037]	1. ea	1,200.00	1.30	1,560.00	103.68	161,741	480.00	480	6,720.00	6,720	6,665,333.18	6,665,333	6,834,273.98	6,834,274
E20-50-2439.00	Cu Rougher Regrind Tower Mill No.2 c/w Lube Unit, VTM-3000-WB [E20-MIL-038]	1. ea	1,200.00	1.30	1,560.00	103.68	161,741	480.00	480	6,720.00	6,720	6,665,333.18	6,665,333	6,834,273.98	6,834,274
E20-50-2440.00	Cu Rougher Regrind Tower Mill No.3 c/w Lube Unit, VTM-3000-WB [E20-MIL-039]	1. ea	1,200.00	1.30	1,560.00	103.68	161,741	480.00	480	6,720.00	6,720	6,665,333.18	6,665,333	6,834,273.98	6,834,274
E20-50-2441.00	Cu Rougher Regrind Tower Mill No.4 c/w Lube Unit, VTM-3000-WB [E20-MIL-040]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E20-50-2442.00	Cu 1st Cleaner Cell No.1, 100m³ [E20-FLO-070]	1. ea	250.00	1.30	325.00	103.68	33,696	144.00	144	336.00	336	363,199.99	363,200	397,375.99	397,376



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E20-50-2443.00	Cu 1st Cleaner Cell No.2, 100m³ [E20-FLO-071]	1. ea	250.00	1.30	325.00	103.68	33,696	144.00	144	336.00	336	363,199.99	363,200	397,375.99	397,376
E20-50-2444.00	Cu 1st Cleaner Cell No.3, 100m³ [E20-FLO-072]	1. ea	250.00	1.30	325.00	103.68	33,696	144.00	144	336.00	336	363,199.99	363,200	397,375.99	397,376
E20-50-2445.00	Cu 1st Cleaner Cell No.4, 100m³ [E20-FLO-073]	1. ea	250.00	1.30	325.00	103.68	33,696	144.00	144	336.00	336	363,199.99	363,200	397,375.99	397,376
E20-50-2446.00	Cu 1st Cleaner Cell No.5, 100m³ [E20-FLO-074]	1. ea	250.00	1.30	325.00	103.68	33,696	144.00	144	336.00	336	363,199.99	363,200	397,375.99	397,376
E20-50-2447.00	Cu 1st Cleaner Cell No.6, 100m³ [E20-FLO-075]	1. ea	250.00	1.30	325.00	103.68	33,696	144.00	144	336.00	336	363,199.99	363,200	397,375.99	397,376
E20-50-2448.00	Cu 1st Cleaner Scavenger Cell No.1, 100m³ [E20-FLO-080]	1. ea	250.00	1.30	325.00	103.68	33,696	144.00	144	336.00	336	403,679.99	403,680	437,855.99	437,856
E20-50-2449.00	Cu 1st Cleaner Scavenger Cell No.2, 100m³ [E20-FLO-081]	1. ea	250.00	1.30	325.00	103.68	33,696	144.00	144	336.00	336	403,679.99	403,680	437,855.99	437,856
E20-50-2450.00	Cu 1st Cleaner Sump Pump c/w motor 10kW, 100 [E20-PSU-079]	1. ea	60.00	1.30	78.00	103.68	8,087	48.00	48	48.00	48	28,800.00	28,800	36,983.04	36,983
E20-50-2451.00	Cu 1st Cleaner Scavenger Concentrate Tank [E20-TNK-085]	375. kg	0.06	1.30	29.25	103.68	3,033	0.08	29	0.03	11	5.28	1,980	13.47	5,052
E20-50-2452.00	Cu 1st Cleaner Scavenger Concentrate Vertical Pump No.1 c/w motor 20kW, 100 [E20-PSL-086]	1. ea	60.00	1.30	78.00	103.68	8,087	192.00	192	720.00	720	33,600.00	33,600	42,599.04	42,599
E20-50-2453.00	Cu 1st Cleaner Scavenger Concentrate Vertical Pump No.2 c/w motor 20kW, 100 [E20-PSL-087]	1. ea	60.00	1.30	78.00	103.68	8,087	192.00	192	720.00	720	33,600.00	33,600	42,599.04	42,599
E20-50-2454.00	Cu 1st Cleaner Scavenger Tailings Pumpbox [E20-PBX-088]	5,355. kg	0.06	1.30	417.69	103.68	43,306	0.08	411	0.03	154	5.28	28,274	13.47	72,146
E20-50-2455.00	Cu 1st Cleaner Scavenger Tailings Pump No.1 c/w motor 130kW, 350 x 300 [E20-PSL-089]	1. ea	165.00	1.30	214.50	103.68	22,239	960.00	960	4,800.00	4,800	78,072.00	78,072	106,071.36	106,071
E20-50-2456.00	Cu 1st Cleaner Scavenger Tailings Pump No.2 c/w motor 130kW, 350 x 300 [E20-PSL-090]	1. ea	165.00	1.30	214.50	103.68	22,239	960.00	960	4,800.00	4,800	78,072.00	78,072	106,071.36	106,071
E20-50-2457.00	Cu 1st Cleaner Scavenger Tailings Sampler [E20-SMP-336]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E20-50-2458.00	Cu 1st Cleaner Concentrate Tank [E20-TNK-076]	860. kg	0.06	1.30	67.08	103.68	6,955	0.08	66	0.03	25	5.28	4,541	13.47	11,586



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E20-50-2459.00	Cu 1st Cleaner Concentrate Vertical Pump No.1 c/w motor 45kW, 250 [E20-PSL-077]	1. ea	75.00	1.30	97.50	103.68	10,109	192.00	192	720.00	720	35,280.00	35,280	46,300.80	46,301
E20-50-2460.00	Cu 1st Cleaner Concentrate Vertical Pump No.2 c/w motor 45kW, 250 [E20-PSL-078]	1. ea	75.00	1.30	97.50	103.68	10,109	192.00	192	720.00	720	35,280.00	35,280	46,300.80	46,301
E20-50-2461.00	Cu 1st Cleaner Concentrate Sampler [E20-SMP-335]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E20-50-2462.00	Cu 2nd Cleaner Flotation Cell No.1, 50m ³ [E20-FLO-091]	1. ea	200.00	1.30	260.00	103.68	26,957	144.00	144	336.00	336	221,760.00	221,760	249,196.79	249,197
E20-50-2463.00	Cu 2nd Cleaner Flotation Cell No.2, 50m ³ [E20-FLO-092]	1. ea	200.00	1.30	260.00	103.68	26,957	144.00	144	336.00	336	221,760.00	221,760	249,196.79	249,197
E20-50-2464.00	Cu 2nd Cleaner Flotation Cell No.3, 50m ³ [E20-FLO-093]	1. ea	200.00	1.30	260.00	103.68	26,957	144.00	144	336.00	336	221,760.00	221,760	249,196.79	249,197
E20-50-2465.00	Cu 2nd Cleaner Tailings Pumpbox [E20-PBX-098]	1,505. kg	0.06	1.30	117.39	103.68	12,171	0.08	116	0.03	43	5.28	7,946	13.47	20,276
E20-50-2466.00	Cu 2nd Cleaner Tailings Pump No.1 c/w motor 16kW, 200 x 150 [E20-PSL-099]	1. ea	60.00	1.30	78.00	103.68	8,087	96.00	96	720.00	720	25,200.00	25,200	34,103.04	34,103
E20-50-2467.00	Cu 2nd Cleaner Tailings Pump No.2 c/w motor 16kW, 200 x 150 [E20-PSL-100]	1. ea	60.00	1.30	78.00	103.68	8,087	96.00	96	720.00	720	25,200.00	25,200	34,103.04	34,103
E20-50-2468.00	Cu 2nd Cleaner Concentrate Tank [E20-TNK-095]	500. kg	0.06	1.30	39.00	103.68	4,044	0.08	38	0.03	14	5.28	2,640	13.47	6,736
E20-50-2469.00	Cu 2nd Cleaner Concentrate Vertical Pump No.1 c/w motor 36kW, 250 [E20-PSL-096]	1. ea	75.00	1.30	97.50	103.68	10,109	192.00	192	720.00	720	35,280.00	35,280	46,300.80	46,301
E20-50-2470.00	Cu 2nd Cleaner Concentrate Vertical Pump No.2 c/w motor 36kW, 250 [E20-PSL-097]	1. ea	75.00	1.30	97.50	103.68	10,109	192.00	192	720.00	720	35,280.00	35,280	46,300.80	46,301
E20-50-2471.00	Cu 2nd Cleaner Concentrate Sampler [E20-SMP-337]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E20-50-2472.00	Cu 3rd Cleaner Flotation Cell No.1, 50m ³ [E20-FLO-101]	1. ea	200.00	1.30	260.00	103.68	26,957	144.00	144	336.00	336	233,759.99	233,760	261,196.79	261,197
E20-50-2473.00	Cu 3rd Cleaner Flotation Cell No.2, 50m ³ [E20-FLO-102]	1. ea	200.00	1.30	260.00	103.68	26,957	144.00	144	336.00	336	233,759.99	233,760	261,196.79	261,197
E20-50-2474.00	Cu 2nd Cleaner Sump Pump c/w motor 20kW, 100 [E20-PSU-094]	1. ea	60.00	1.30	78.00	103.68	8,087	48.00	48	48.00	48	28,800.00	28,800	36,983.04	36,983



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E20-50-2475.00	Cu 3rd Cleaner Tailings Pumpbox [E20-PBX-105]	585. kg	0.06	1.30	45.63	103.68	4,731	0.08	45	0.03	17	5.28	3,089	13.47	7,881
E20-50-2476.00	Cu 3rd Cleaner Tailings Pump No.1 c/w motor 7.5kW, 100 x 75 [E20-PSL-106]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	192.00	192	13,440.00	13,440	16,375.68	16,376
E20-50-2477.00	Cu 3rd Cleaner Tailings Pump No.2 c/w motor 7.5kW, 100 x 75 [E20-PSL-107]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	192.00	192	13,440.00	13,440	16,375.68	16,376
E20-50-2478.00	Cu 3rd Cleaner Concentrate Tank [E20-TNK-108]	430. kg	0.06	1.30	33.54	103.68	3,477	0.08	33	0.03	12	5.28	2,270	13.47	5,793
E20-50-2479.00	Cu 3rd Cleaner Concentrate Vertical Pump No.1 c/w motor 24kW, 250 [E20-PSL-109]	1. ea	75.00	1.30	97.50	103.68	10,109	192.00	192	720.00	720	35,280.00	35,280	46,300.80	46,301
E20-50-2480.00	Cu 3rd Cleaner Concentrate Vertical Pump No.2 c/w motor 24kW, 250 [E20-PSL-110]	1. ea	75.00	1.30	97.50	103.68	10,109	192.00	192	720.00	720	35,280.00	35,280	46,300.80	46,301
E20-50-2481.00	Cu 3rd Cleaner Concentrate Sampler [E20-SMP-338]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E20-50-2482.00	Pyrite Rougher Flotation Cell No.1, 200m³ [E20-FLO-121]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	480.00	480	440,063.99	440,064	481,219.19	481,219
E20-50-2483.00	Pyrite Rougher Flotation Cell No.2, 200m³ [E20-FLO-122]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	480.00	480	440,063.99	440,064	481,219.19	481,219
E20-50-2484.00	Pyrite Rougher Flotation Cell No.3, 200m³ [E20-FLO-123]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	480.00	480	440,063.99	440,064	481,219.19	481,219
E20-50-2485.00	Pyrite Rougher Flotation Cell No.4, 200m³ [E20-FLO-124]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	480.00	480	440,063.99	440,064	481,219.19	481,219
E20-50-2486.00	Pyrite Rougher Flotation Cell No.5, 200m³ [E20-FLO-125]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	480.00	480	440,063.99	440,064	481,219.19	481,219
E20-50-2487.00	Pyrite Rougher Flotation Cell No.6, 200m³ [E20-FLO-126]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	480.00	480	440,063.99	440,064	481,219.19	481,219
E20-50-2488.00	Pyrite Rougher Flotation Cell No.7, 200m³ [E20-FLO-127]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	480.00	480	440,063.99	440,064	481,219.19	481,219
E20-50-2489.00	Pyrite Rougher Flotation Cell No.8, 200m³ [E20-FLO-128]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	480.00	480	440,063.99	440,064	481,219.19	481,219
E20-50-2490.00	Pyrite Rougher Flotation Cell No.9, 200m³ [E20-FLO-129]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	480.00	480	440,063.99	440,064	481,219.19	481,219



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E20-50-2491.00	Pyrite Rougher Flotation Cell No.10, 200m³ [E20-FLO-130]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	480.00	480	440,063.99	440,064	481,219.19	481,219
E20-50-2492.00	Pyrite Rougher Concentrate Sampler No.1 [E20-SMP-361]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E20-50-2493.00	Pyrite Rougher Concentrate Sampler No.2 [E20-SMP-362]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E20-50-2494.00	Pyrite Rougher Concentrate Sampler No.3 [E20-SMP-365]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E20-50-2495.00	Pyrite Rougher Concentrate Sampler No.4 [E20-SMP-366]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E20-50-2496.00	Pyrite Rougher Concentrate Tank No.1 [E20-TNK-141]	1,035. kg	0.06	1.30	80.73	103.68	8,370	0.08	79	0.03	30	5.28	5,465	13.47	13,944
E20-50-2497.00	Pyrite Rougher Concentrate Vertical Pump No.1 c/w motor 55kW, 250 [E20-PSL-142]	1. ea	75.00	1.30	97.50	103.68	10,109	192.00	192	720.00	720	35,280.00	35,280	46,300.80	46,301
E20-50-2498.00	Pyrite Rougher Concentrate Vertical Pump No.2 c/w motor 55kW, 250 [E20-PSL-143]	1. ea	75.00	1.30	97.50	103.68	10,109	192.00	192	720.00	720	35,280.00	35,280	46,300.80	46,301
E20-50-2499.00	Pyrite Flotation Tailings Sump Pump No.1 c/w motor 30kW, 150 [E20-PSU-167]	1. ea	90.00	1.30	117.00	103.68	12,131	48.00	48	72.00	72	36,480.00	36,480	48,730.56	48,731
E20-50-2500.00	Pyrite Flotation Tailings Pumpbox No.1 [E20-PBX-161]	14,000. kg	0.06	1.30	1,092.00	103.68	113,219	0.08	1,075	0.03	403	5.28	73,920	13.47	188,617
E20-50-2501.00	Pyrite Rougher Flotation Cell No.11, 200m³ [E20-FLO-131]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	480.00	480	440,063.99	440,064	481,219.19	481,219
E20-50-2502.00	Pyrite Rougher Flotation Cell No.12, 200m³ [E20-FLO-132]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	480.00	480	440,063.99	440,064	481,219.19	481,219
E20-50-2503.00	Pyrite Rougher Flotation Cell No.13, 200m³ [E20-FLO-133]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	480.00	480	440,063.99	440,064	481,219.19	481,219
E20-50-2504.00	Pyrite Rougher Flotation Cell No.14, 200m³ [E20-FLO-134]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	480.00	480	440,063.99	440,064	481,219.19	481,219
E20-50-2505.00	Pyrite Rougher Flotation Cell No.15, 200m³ [E20-FLO-135]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	480.00	480	440,063.99	440,064	481,219.19	481,219
E20-50-2506.00	Pyrite Rougher Flotation Cell No.16, 200m³ [E20-FLO-136]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	480.00	480	440,063.99	440,064	481,219.19	481,219



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E20-50-2507.00	Pyrite Rougher Flotation Cell No.17, 200m³ [E20-FLO-137]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	480.00	480	440,063.99	440,064	481,219.19	481,219
E20-50-2508.00	Pyrite Rougher Flotation Cell No.18, 200m³ [E20-FLO-138]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	480.00	480	440,063.99	440,064	481,219.19	481,219
E20-50-2509.00	Pyrite Rougher Flotation Cell No.19, 200m³ [E20-FLO-139]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	480.00	480	440,063.99	440,064	481,219.19	481,219
E20-50-2510.00	Pyrite Rougher Flotation Cell No.20, 200m³ [E20-FLO-140]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	480.00	480	440,063.99	440,064	481,219.19	481,219
E20-50-2511.00	Pyrite Rougher Concentrate Sampler No.1 [E20-SMP-363]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E20-50-2512.00	Pyrite Rougher Concentrate Sampler No.2 [E20-SMP-364]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E20-50-2513.00	Pyrite Rougher Concentrate Sampler No.3 [E20-SMP-367]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E20-50-2514.00	Pyrite Rougher Concentrate Sampler No.4 [E20-SMP-368]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E20-50-2515.00	Pyrite Rougher Concentrate Tank No.2 [E20-TNK-144]	1,035. kg	0.06	1.30	80.73	103.68	8,370	0.08	79	0.03	30	5.28	5,465	13.47	13,944
E20-50-2516.00	Pyrite Rougher Concentrate Vertical Pump No.3 c/w motor 55kW, 250 [E20-PSL-145]	1. ea	75.00	1.30	97.50	103.68	10,109	192.00	192	720.00	720	35,280.00	35,280	46,300.80	46,301
E20-50-2517.00	Pyrite Rougher Concentrate Vertical Pump No.4 c/w motor 55kW, 250 [E20-PSL-146]	1. ea	75.00	1.30	97.50	103.68	10,109	192.00	192	720.00	720	35,280.00	35,280	46,300.80	46,301
E20-50-2518.00	Pyrite Flotation Tailings Sump Pump No.2 c/w motor 30kW, 150 [E20-PSU-166]	1. ea	90.00	1.30	117.00	103.68	12,131	48.00	48	72.00	72	36,480.00	36,480	48,730.56	48,731
E20-50-2519.00	Pyrite Flotation Tailings Pumpbox No.2 [E20-PBX-165]	14,000. kg	0.06	1.30	1,092.00	103.68	113,219	0.08	1,075	0.03	403	5.28	73,920	13.47	188,617
E20-50-2520.00	Pyrite Regrind Area Sump Pump c/w motor 30kW, 150 [E20-PSU-206]	1. ea	90.00	1.30	117.00	103.68	12,131	48.00	48	72.00	72	36,480.00	36,480	48,730.56	48,731
E20-50-2521.00	Pyrite Rougher Concentrate Regrind Cyclone Feed Pumpbox [E20-PBX-170]	8,800. kg	0.06	1.30	686.40	103.68	71,166	0.08	676	0.03	253	5.28	46,464	13.47	118,559
E20-50-2522.00	Pyrite Rougher Concentrate Regrind Cyclone Feed Pump (VFD) No.1 c/w motor 500kW, 400 x 350 [E20-PSL-171]	1. ea	180.00	1.30	234.00	103.68	24,261	960.00	960	4,800.00	4,800	101,980.80	101,981	132,001.92	132,002



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E20-50-2523.00	Pyrite Rougher Concentrate Re grind Cyclone Feed Pump (VFD) No.2 c/w motor 500kW, 400 x 350 [E20-PSL-172]	1. ea	180.00	1.30	234.00	103.68	24,261	960.00	960	4,800.00	4,800	101,980.80	101,981	132,001.92	132,002
E20-50-2524.00	Pyrite Rougher Concentrate Re grind Sampler [E20-SMP-222]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E20-50-2525.00	Pyrite Rougher Concentrate Re grind Cyclone Cluster, 26 x 250 (23 op 3 st) [E20-CYC-174]	1. ea	400.00	1.30	520.00	103.68	53,914	336.00	336	3,072.00	3,072	244,847.99	244,848	302,169.59	302,170
E20-50-2526.00	Pyrite Rougher Concentrate Re grind Mill Feed Distributor [E20-DIS-175]	1. ea	50.00	1.30	65.00	103.68	6,739	96.00	96	480.00	480	24,000.00	24,000	31,315.20	31,315
E20-50-2527.00	Pyrite Rougher Concentrate Re grind Tower Mill No.1 c/w Lube Unit, VTM-3000-WB [E20-MIL-176]	1. ea	1,200.00	1.30	1,560.00	103.68	161,741	480.00	480	6,720.00	6,720	6,665,333.18	6,665,333	6,834,273.98	6,834,274
E20-50-2528.00	Pyrite Rougher Concentrate Re grind Tower Mill No.2 c/w Lube Unit, VTM-3000-WB [E20-MIL-177]	1. ea	1,200.00	1.30	1,560.00	103.68	161,741	480.00	480	6,720.00	6,720	6,665,333.18	6,665,333	6,834,273.98	6,834,274
E20-50-2529.00	Pyrite Rougher Concentrate Re grind Tower Mill No.3 c/w Lube Unit, VTM-3000-WB [E20-MIL-178]	1. ea	1,200.00	1.30	1,560.00	103.68	161,741	480.00	480	6,720.00	6,720	6,665,333.18	6,665,333	6,834,273.98	6,834,274
E20-50-2530.00	Pyrite Rougher Concentrate Re grind Tower Mill No.4 c/w Lube Unit, VTM-3000-WB [E20-MIL-179]	1. ea	1,080.00	1.30	1,404.00	103.68	145,567	480.00	480	4,800.00	4,800	4,395,123.72	4,395,124	4,545,970.44	4,545,970
E20-50-2539.00	X-Ray Analyzer [E20-ANA-060]	1. ea	450.00	1.30	585.00	103.68	60,653	96.00	96	3,840.00	3,840	718,871.02	718,871	783,459.82	783,460
E20-50-2540.00	Copper Flotation Area Crane (30m span, 30m lift), 45T [E20-CRN-053]	1. ea	200.00	1.30	260.00	103.68	26,957	288.00	288	1,920.00	1,920	239,999.99	240,000	269,164.79	269,165
E20-50-2541.00	Copper Re grind Area Crane (25m span, 30m lift), 20T [E20-CRN-054]	1. ea	200.00	1.30	260.00	103.68	26,957	240.00	240	1,920.00	1,920	144,000.00	144,000	173,116.80	173,117
E20-50-2542.00	Au-Pyrite Flotation Area Crane (30m span, 30m lift), 20T [E20-CRN-055]	1. ea	200.00	1.30	260.00	103.68	26,957	240.00	240	1,920.00	1,920	168,000.00	168,000	197,116.80	197,117
E20-50-2543.00	Au-Pyrite Concentrate Re grind Area Crane (30m span, 30m lift), 30T [E20-CRN-056]	1. ea	200.00	1.30	260.00	103.68	26,957	240.00	240	1,920.00	1,920	211,200.00	211,200	240,316.79	240,317
E20-60-2544.00	Piping Allowance 6.50%	1. lot	2,055.78	1.00	2,055.78	103.68	213,144	3,964,389.83	3,964,390	6,912.63	6,913	0.00	0	4,184,446.10	4,184,446
E20-80-2545.00	Field Instrumentation & Bulks Allowance	1. lot	16,572.00	1.30	21,543.60	103.68	2,233,640	438,095.99	438,096	72,000.00	72,000	2,716,799.94	2,716,800	5,460,536.33	5,460,536
E20-70-2546.00	Electrical Motor Wiring, included in A20/A30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			E20 - Flotation Subtotal		64,980.20		6,737,147		4,433,316		205,182		73,359,248		84,734,894



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E30-40-2548.00	Leaching, 31.5m x 119m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E30-13-2549.00	Leaching; Detail Excavation (including Tank area, Galleries and Building)	11,245. m3	0.06	1.30	877.11	103.68	90,939	0.00	0	3.60	40,482	0.00	0	11.69	131,421
E30-13-2550.00	Leaching; Structural Backfill (including Tank area, Galleries and Building)	9,220. m3	0.10	1.30	1,198.60	103.68	124,271	7.68	70,810	3.84	35,405	0.00	0	25.00	230,485
E30-20-2551.00	Leaching; Concrete work (including Tank area, Galleries and Building)	3,700. m3	6.50	1.30	31,265.00	103.68	3,241,555	734.40	2,717,280	24.00	88,800	0.00	0	1,634.50	6,047,635
E30-30-2552.00	Leaching; Structural Steel (including Tank area, Galleries and Building)	1,095. t	22.00	1.30	31,317.00	103.68	3,246,946	4,608.00	5,045,760	240.00	262,800	0.00	0	7,813.25	8,555,506
E30-40-2553.00	Leaching; Wall cladding insulated (Galleries and Building)	7,825. m2	1.00	1.30	10,172.50	103.68	1,054,685	105.60	826,320	14.40	112,680	0.00	0	254.78	1,993,685
E30-40-2554.00	Leaching; Roof cladding insulated (Galleries and Building)	2,830. m2	1.00	1.30	3,679.00	103.68	381,439	105.60	298,848	14.40	40,752	0.00	0	254.78	721,039
E30-13-2555.00	CIL Feed Thickeners (x2); Detail Excavation	5,520. m3	0.06	1.30	430.56	103.68	44,640	0.00	0	3.60	19,872	0.00	0	11.69	64,512
E30-13-2556.00	CIL Feed Thickeners (x2); Structural Backfill	4,700. m3	0.10	1.30	611.00	103.68	63,348	7.68	36,096	3.84	18,048	0.00	0	25.00	117,492
E30-20-2557.00	CIL Feed Thickeners (x2); Concrete work	960. m3	6.50	1.30	8,112.00	103.68	841,052	734.40	705,024	24.00	23,040	0.00	0	1,634.50	1,569,116
E30-30-2558.00	CIL Feed Thickeners (x2); Structural Steel	90. t	22.00	1.30	2,574.00	103.68	266,872	4,608.00	414,720	240.00	21,600	0.00	0	7,813.25	703,192
E30-40-2559.00	CIL Feed Thickeners (x2); Wall cladding	1,760. m2	1.00	1.30	2,288.00	103.68	237,220	105.60	185,856	14.40	25,344	0.00	0	254.78	448,420
E30-50-2561.00	CIL Thickener Area Sump Pump c/w motor 10kW, 100 [E30-PSU-035]	1. ea	60.00	1.30	78.00	103.68	8,087	48.00	48	48.00	48	28,800.00	28,800	36,983.04	36,983
E30-50-2562.00	Cleaner Tailings CIL Feed Thickener c/w Rake Drive/Lift System, Hydraulic Power Unit, Local Control Panel, Instrumentation including Bed Level Sensor, Bed Mass DP Cell, etc., 35000 D [E30-THK-041]	1. ea	2,600.00	1.30	3,380.00	103.68	350,438	1,920.00	1,920	26,400.00	26,400	1,749,999.96	1,750,000	2,128,758.35	2,128,758
E30-50-2563.00	CIL Feed Sampler [E30-SMP-071]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E30-50-2564.00	Cleaner Tailings CIL Feed Thickener Underflow Pump No.1 c/w motor 65kW, 150 x 100 [E30-PSL-042]	1. ea	125.00	1.30	162.50	103.68	16,848	72.00	72	1,440.00	1,440	20,160.00	20,160	38,520.00	38,520



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E30-50-2565.00	Cleaner Tailings CIL Feed Thickener Underflow Pump No.2 c/w motor 65kW, 150 x 100 [E30-PSL-043]	1. ea	125.00	1.30	162.50	103.68	16,848	72.00	72	1,440.00	1,440	20,160.00	20,160	38,520.00	38,520
E30-50-2566.00	CIL Area Sump Pump c/w motor 20kW, 150 [E30-PSU-032]	1. ea	90.00	1.30	117.00	103.68	12,131	48.00	48	48.00	48	36,480.00	36,480	48,706.56	48,707
E30-50-2567.00	Aeration Area Sump Pump c/w motor 30kW, 100 [E30-PSU-033]	1. ea	60.00	1.30	78.00	103.68	8,087	48.00	48	48.00	48	28,800.00	28,800	36,983.04	36,983
E30-50-2568.00	Aeration Tank No.1, 9000 D x 10000 [E30-TNK-001]	31,215. kg	0.08	1.30	3,246.36	103.68	336,583	0.10	2,997	0.03	899	5.28	164,815	16.19	505,293
E30-50-2569.00	Aeration Tank Agitator No.1 [E30-AGI-005]	1. ea	350.00	1.30	455.00	103.68	47,174	288.00	288	384.00	384	89,300.00	89,300	137,146.40	137,146
E30-50-2570.00	Aeration Tank No.2, 9000 D x 10000 [E30-TNK-002]	31,215. kg	0.08	1.30	3,246.36	103.68	336,583	0.10	2,997	0.03	899	5.28	164,815	16.19	505,293
E30-50-2571.00	Aeration Tank Agitator No.2 [E30-AGI-006]	1. ea	350.00	1.30	455.00	103.68	47,174	288.00	288	384.00	384	89,300.00	89,300	137,146.40	137,146
E30-50-2572.00	Loaded Carbon Screen No.1, 1500 x 2000 [E30-SCN-009]	1. ea	120.00	1.30	156.00	103.68	16,174	72.00	72	1,440.00	1,440	235,369.04	235,369	253,055.12	253,055
E30-50-2573.00	CIL Tank No.1, 15000 D x 15000 [E30-TNK-051]	92,300. kg	0.08	1.30	9,599.20	103.68	995,245	0.10	8,861	0.03	2,658	5.28	487,344	16.19	1,494,108
E30-50-2574.00	CIL Tank Agitator No.1 [E30-AGI-021]	1. ea	350.00	1.30	455.00	103.68	47,174	288.00	288	384.00	384	170,300.00	170,300	218,146.40	218,146
E30-50-2575.00	CIL Tank No.2, 15000 D x 15000 [E30-TNK-052]	92,300. kg	0.08	1.30	9,599.20	103.68	995,245	0.10	8,861	0.03	2,658	5.28	487,344	16.19	1,494,108
E30-50-2576.00	CIL Tank Agitator No.2 [E30-AGI-022]	1. ea	350.00	1.30	455.00	103.68	47,174	288.00	288	384.00	384	170,300.00	170,300	218,146.40	218,146
E30-50-2577.00	CIL Tank No.3, 15000 D x 15000 [E30-TNK-053]	92,300. kg	0.08	1.30	9,599.20	103.68	995,245	0.10	8,861	0.03	2,658	5.28	487,344	16.19	1,494,108
E30-50-2578.00	CIL Tank Agitator No.3 [E30-AGI-023]	1. ea	350.00	1.30	455.00	103.68	47,174	288.00	288	384.00	384	170,300.00	170,300	218,146.40	218,146
E30-50-2579.00	CIL Tank No.4, 15000 D x 15000 [E30-TNK-054]	92,300. kg	0.08	1.30	9,599.20	103.68	995,245	0.10	8,861	0.03	2,658	5.28	487,344	16.19	1,494,108
E30-50-2580.00	CIL Tank Agitator No.4 [E30-AGI-024]	1. ea	350.00	1.30	455.00	103.68	47,174	288.00	288	384.00	384	170,300.00	170,300	218,146.40	218,146



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E30-50-2581.00	CIL Tank No.5, 15000 D x 15000 [E30-TNK-055]	92,300. kg	0.08	1.30	9,599.20	103.68	995,245	0.10	8,861	0.03	2,658	5.28	487,344	16.19	1,494,108
E30-50-2582.00	CIL Tank Agitator No.5 [E30-AGI-025]	1. ea	350.00	1.30	455.00	103.68	47,174	288.00	288	384.00	384	170,300.00	170,300	218,146.40	218,146
E30-50-2583.00	Safety Screen Area Sump Pump c/w motor 10kW, 100 [E30-PSU-034]	1. ea	60.00	1.30	78.00	103.68	8,087	48.00	48	24.00	24	28,800.00	28,800	36,959.04	36,959
E30-50-2584.00	Pyrite Rougher Tailings CIL Feed Thickener c/w Rake Drive/Lift System, Hydraulic Power Unit, Local Control Panel, Instrumentation including Bed Level Sensor, Bed Mass DP Cell, etc., 35000 D [E30-THK-091]	1. ea	2,600.00	1.30	3,380.00	103.68	350,438	1,920.00	1,920	26,400.00	26,400	1,749,999.96	1,750,000	2,128,758.35	2,128,758
E30-50-2585.00	Pyrite Rougher Tailings CIL Feed Thickener Underflow Pump No.1 c/w motor 65kW, 150 x 100 [E30-PSL-092]	1. ea	125.00	1.30	162.50	103.68	16,848	72.00	72	1,440.00	1,440	20,160.00	20,160	38,520.00	38,520
E30-50-2586.00	Pyrite Rougher Tailings CIL Feed Thickener Underflow Pump No.2 c/w motor 65kW, 150 x 100 [E30-PSL-093]	1. ea	125.00	1.30	162.50	103.68	16,848	72.00	72	1,440.00	1,440	20,160.00	20,160	38,520.00	38,520
E30-50-2587.00	Aeration Tank No.3, 9000 D x 10000 [E30-TNK-003]	24,665. kg	0.08	1.30	2,565.16	103.68	265,956	0.10	2,368	0.03	710	5.28	130,231	16.19	399,265
E30-50-2588.00	Aeration Tank Agitator No.3 [E30-AGI-007]	1. ea	350.00	1.30	455.00	103.68	47,174	288.00	288	384.00	384	89,300.00	89,300	137,146.40	137,146
E30-50-2589.00	Aeration Tank No.4, 9000 D x 10000 [E30-TNK-004]	24,665. kg	0.08	1.30	2,565.16	103.68	265,956	0.10	2,368	0.03	710	5.28	130,231	16.19	399,265
E30-50-2590.00	Aeration Tank Agitator No.4 [E30-AGI-008]	1. ea	350.00	1.30	455.00	103.68	47,174	288.00	288	384.00	384	89,300.00	89,300	137,146.40	137,146
E30-50-2591.00	Loaded Carbon Screen No.2, 1500 x 2000 [E30-SCN-010]	1. ea	120.00	1.30	156.00	103.68	16,174	72.00	72	1,440.00	1,440	235,369.04	235,369	253,055.12	253,055
E30-50-2592.00	CIL Tank No.6, 15000 D x 15000 [E30-TNK-056]	92,300. kg	0.08	1.30	9,599.20	103.68	995,245	0.10	8,861	0.03	2,658	5.28	487,344	16.19	1,494,108
E30-50-2593.00	CIL Tank Agitator No.6 [E30-AGI-026]	1. ea	350.00	1.30	455.00	103.68	47,174	288.00	288	384.00	384	170,300.00	170,300	218,146.40	218,146
E30-50-2594.00	CIL Tank No.7, 15000 D x 15000 [E30-TNK-057]	92,300. kg	0.08	1.30	9,599.20	103.68	995,245	0.10	8,861	0.03	2,658	5.28	487,344	16.19	1,494,108
E30-50-2595.00	CIL Tank Agitator No.7 [E30-AGI-027]	1. ea	350.00	1.30	455.00	103.68	47,174	288.00	288	384.00	384	170,300.00	170,300	218,146.40	218,146
E30-50-2596.00	CIL Tank No.8, 15000 D x 15000 [E30-TNK-058]	92,300. kg	0.08	1.30	9,599.20	103.68	995,245	0.10	8,861	0.03	2,658	5.28	487,344	16.19	1,494,108



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E30-50-2597.00	CIL Tank Agitator No.8 [E30-AGI-028]	1. ea	350.00	1.30	455.00	103.68	47,174	288.00	288	384.00	384	170,300.00	170,300	218,146.40	218,146
E30-50-2598.00	CIL Tank No.9, 15000 D x 15000 [E30-TNK-059]	92,300. kg	0.08	1.30	9,599.20	103.68	995,245	0.10	8,861	0.03	2,658	5.28	487,344	16.19	1,494,108
E30-50-2599.00	CIL Tank Agitator No.9 [E30-AGI-029]	1. ea	350.00	1.30	455.00	103.68	47,174	288.00	288	384.00	384	170,300.00	170,300	218,146.40	218,146
E30-50-2600.00	CIL Tank No.10, 15000 D x 15000 [E30-TNK-060]	92,300. kg	0.08	1.30	9,599.20	103.68	995,245	0.10	8,861	0.03	2,658	5.28	487,344	16.19	1,494,108
E30-50-2601.00	CIL Tank Agitator No.10 [E30-AGI-030]	1. ea	350.00	1.30	455.00	103.68	47,174	288.00	288	384.00	384	170,300.00	170,300	218,146.40	218,146
E30-50-2602.00	CIL Residue Sampler [E30-SMP-072]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E30-50-2603.00	Interstage Pump c/w motor 20kW	10. ea	60.00	1.30	780.00	103.68	80,870	48.00	480	24.00	240	24,800.00	248,000	32,959.04	329,590
E30-50-2604.00	Interstage Carbon Screen	10. ea	150.00	1.30	1,950.00	103.68	202,176	240.00	2,400	1,440.00	14,400	209,000.00	2,090,000	230,897.59	2,308,976
E30-50-2605.00	Carbon Safety Screen, 3000 x 4000 [E30-SCN-061]	1. ea	120.00	1.30	156.00	103.68	16,174	72.00	72	1,440.00	1,440	192,000.00	192,000	209,686.08	209,686
E30-50-2606.00	Safety Screen Oversize Bin [E30-BIN-062]	1. ea	300.00	1.30	390.00	103.68	40,435	72.00	72	4,800.00	4,800	144,000.00	144,000	189,307.20	189,307
E30-50-2607.00	CIL Residue Pumpbox [E30-PBX-038]	4,325. kg	0.06	1.30	337.35	103.68	34,976	0.08	332	0.03	125	5.28	22,836	13.47	58,269
E30-50-2608.00	CIL Residue Pump No.1 c/w motor 80kW, 300 x 250 [E30-PSL-039]	1. ea	165.00	1.30	214.50	103.68	22,239	288.00	288	1,440.00	1,440	58,152.00	58,152	82,119.36	82,119
E30-50-2609.00	CIL Residue Pump No.2 c/w motor 80kW, 300 x 250 [E30-PSL-040]	1. ea	165.00	1.30	214.50	103.68	22,239	288.00	288	1,440.00	1,440	58,152.00	58,152	82,119.36	82,119
E30-50-2610.00	CIL Feed Thickener Overflow Standpipe [E30-TNK-017]	2,150. kg	0.06	1.30	167.70	103.68	17,387	0.08	165	0.03	62	5.28	11,352	13.47	28,966
E30-50-2611.00	CIL Feed Thickener Overflow Pump No.1 c/w motor 90kW, 200 x 150 [E30-PSL-018]	1. ea	150.00	1.30	195.00	103.68	20,218	96.00	96	1,440.00	1,440	27,720.00	27,720	49,473.60	49,474
E30-50-2612.00	CIL Feed Thickener Overflow Pump No.2 c/w motor 90kW, 200 x 150 [E30-PSL-019]	1. ea	150.00	1.30	195.00	103.68	20,218	96.00	96	1,440.00	1,440	27,720.00	27,720	49,473.60	49,474



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E30-50-2613.00	CIL Leach Area Crane (40m span, 30m lift), 20T [E30-CRN-044]	1. ea	200.00	1.30	260.00	103.68	26,957	240.00	240	1,920.00	1,920	239,999.99	240,000	269,116.79	269,117
E30-50-2614.00	CIL Leaching Area Cyanide Monitor System [E30-SYS-081]	1. ea	20.00	1.30	26.00	103.68	2,696	192.00	192	240.00	240	9,600.00	9,600	12,727.68	12,728
E30-40-2615.00	Louvers/Miscellaneous	1. lot	70.00	1.00	70.00	103.68	7,258	43,200.00	43,200	1,920.00	1,920	0.00	0	52,377.60	52,378
E30-60-2616.00	Piping Allowance 6.50%	1. lot	8,254.75	1.00	8,254.75	103.68	855,852	976,727.23	976,727	8,178.27	8,178	0.00	0	1,840,757.53	1,840,758
E30-80-2617.00	Field Instrumentation & Bulks Allowance	1. lot	2,076.00	1.30	2,698.80	103.68	279,812	54,266.40	54,266	9,600.00	9,600	340,799.99	340,800	684,477.97	684,478
E30-70-2618.00	Electrical Motor Wiring, included in A20/A30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E30 - Leaching Subtotal					230,544.41		23,902,843		11,487,557		834,341		15,254,723		51,479,464
E40 - Refinery															
E40-40-2620.00	Refinery, 22m x 50m x 12m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-13-2621.00	Detail Excavation	3,215. m3	0.06	1.30	250.77	103.68	26,000	0.00	0	3.60	11,574	0.00	0	11.69	37,574
E40-13-2622.00	Structural Backfill	2,225. m3	0.10	1.30	289.25	103.68	29,989	7.68	17,088	3.84	8,544	0.00	0	25.00	55,621
E40-20-2623.00	Concrete work	1,100. m3	6.50	1.30	9,295.00	103.68	963,706	734.40	807,840	24.00	26,400	0.00	0	1,634.50	1,797,946
E40-30-2624.00	Structural Steel	330. t	22.00	1.30	9,438.00	103.68	978,532	4,608.00	1,520,640	240.00	79,200	0.00	0	7,813.25	2,578,372
E40-40-2625.00	Wall cladding	1,730. m2	1.00	1.30	2,249.00	103.68	233,176	105.60	182,688	14.40	24,912	0.00	0	254.78	440,776
E40-40-2626.00	Roof cladding	1,100. m2	1.00	1.30	1,430.00	103.68	148,262	105.60	116,160	14.40	15,840	0.00	0	254.78	280,262
E40-40-2627.00	Architectural (Acid Protection)	1. lot	450.00	1.30	585.00	103.68	60,653	74,880.00	74,880	4,800.00	4,800	0.00	0	140,332.80	140,333
E40-50-2628.00	Acid Wash System Package	1. lot	440.00	1.00	440.00	103.68	45,619	240.00	240	3,360.00	3,360	223,483.99	223,484	272,703.19	272,703



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E40-50-2629.00	Acid Wash Tank No.1 (FRP), 1700 D x 7000, included [E40-TNK-001]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2630.00	Acid Wash Tank No.1 Carbon Transfer Pump, included [E40-PSL-007]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2631.00	Boiler No.1 Heat Exchanger, included [E40-HEX-016]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2632.00	Acid Wash Tank No.1 Ventilation Fan (FRP), 40m3/hr, included [E40-FAN-003]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2633.00	Acid Wash Tank No.2 Carbon Transfer Pump, included [E40-PSL-008]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2634.00	Boiler No.2 Heat Exchanger, included [E40-HEX-017]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2635.00	Acid Wash Tank No.2 Ventilation Fan, 40m3/hr, included [E40-FAN-004]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2636.00	Acid Wash Circulating Tank (FRP), 2000 D x 5000, included [E40-TNK-031]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2637.00	Acid Wash Recirculating Pump 24m3/hr, included [E40-PSL-032]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2638.00	Strip System Package	1. lot	1,140.00	1.00	1,140.00	103.68	118,195	480.00	480	87,648.00	87,648	506,905.99	506,906	713,229.18	713,229
E40-50-2639.00	Elution Column No.1 304L Stainless Steel, 100 psi-300 F ASME VIII 1.5m Dia x 5.4, included [E40-COL-010]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2640.00	Elution Column No.1 Eluted Carbon Transfer Pump 31.8m3/hr, included [E40-PSL-012]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2641.00	Elution Column No.2 304L Stainless Steel, 100 psi-300 F ASME VIII 1.5m Dia x 5.4, included [E40-COL-011]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2642.00	Elution Column No.2 Eluted Carbon Transfer Pump 31.8m3/hr, included [E40-PSL-013]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2643.00	Heater Skid Package (including valves, pipe and instrumentation, skid mounted, SCR controller and installed spare heater 300kW)	1. lot	820.00	1.00	820.00	103.68	85,018	480.00	480	62,688.00	62,688	355,184.99	355,185	503,370.59	503,371
E40-50-2644.00	Elution Column No.1 Solution Heater 600kW, included [E40-HEA-014]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E40-50-2645.00	Elution Column No.1 Recovery Heat Exchanger No.1, included [E40-HEX-020]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2646.00	Elution Column No.1 Recovery Heat Exchanger No.2, included [E40-HEX-021]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2647.00	Elution Column No.2 Solution Heater 600kW, included [E40-HEA-015]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2648.00	Elution Column No.2 Recovery Heat Exchanger No.1, included [E40-HEX-038]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2649.00	Elution Column No.2 Recovery Heat Exchanger No.2, included [E40-HEX-039]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2650.00	Barren Solution Tank, 3000 D x 5000, included [E40-TNK-025]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2651.00	Barren Solution Pump No.1, 75 x 50, included [E40-PSL-026]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2652.00	Barren Solution Pump No.2, 75 x 50, included [E40-PSL-027]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2653.00	Electrowinning Package (including stairs and walkway, Rectifiers, instrumentation sets, 2 x samplers)	1. lot	1,100.00	1.00	1,100.00	103.68	114,048	480.00	480	82,080.00	82,080	445,514.99	445,515	642,122.99	642,123
E40-50-2654.00	Electrowinning Cell No.1, included [E40-EWC-040]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2655.00	Electrowinning Cell No.2, included [E40-EWC-041]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2656.00	Electrowinning Cells Ventilation Fan No.1, included [E40-FAN-045]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2657.00	Electrowinning Return Pump, included	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2658.00	Cathode Sludge Tank, included [E40-TNK-050]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2659.00	Electrowinning Sludge Filter Press Feed Pump, included [E40-PSL-051]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2660.00	Electrowinning Sludge Filter Press, included [E40-FIL-052]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E40-50-2661.00	Carbon Handling Package (includes structural steel and instrumentation)	1. lot	645.00	1.00	645.00	103.68	66,874	288.00	288	49,920.00	49,920	280,332.99	280,333	397,414.59	397,415
E40-50-2662.00	Carbon Attrition Tank, included [E40-TNK-088]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2663.00	Carbon Attrition Tank Agitator, included [E40-AGI-089]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2664.00	Carbon Attrition Transfer Pump, included [E40-PSL-090]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2665.00	Reactivated Carbon Sizing/Dewatering Screen, included [E40-SCN-100]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2666.00	Reactivated Carbon Storage Bin, 6T, included [E40-BIN-101]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2667.00	Reactivated Carbon Transfer Pump No.1, included [E40-PSL-102]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2668.00	Reactivated Carbon Transfer Pump No.2, included [E40-PSL-103]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2669.00	Fine Carbon Tank, 1500 x 3000, included [E40-TNK-075]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2670.00	Fine Carbon Filter Feed Pump, included [E40-PSL-078]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2671.00	Fine Carbon Filter Press, included [E40-FIL-079]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2672.00	Carbon Regeneration Package (including structural steel / platform & stair access)	1. lot	1,425.00	1.00	1,425.00	103.68	147,744	480.00	480	109,440.00	109,440	694,583.98	694,584	952,247.98	952,248
E40-50-2673.00	Reactivation Kiln Feed Bin, included [E40-BIN-071]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2674.00	Reactivation Kiln, included [E40-KLN-072]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2675.00	Reactivation Kiln Screw Conveyor, included [E40-CNV-073]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2676.00	Carbon Quench Tank, 6T, included [E40-TNK-085]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E40-50-2677.00	Carbon Quench Tank Discharge Pump No.1 31.8m3/hr, included [E40-PSL-086]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2678.00	Carbon Quench Tank Discharge Pump No.2 31.8m3/hr, included [E40-PSL-087]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2679.00	Refinery System (includes Deck Scales)	1. lot	1,050.00	1.00	1,050.00	103.68	108,864	480.00	480	81,600.00	81,600	461,301.99	461,302	652,245.99	652,246
E40-50-2680.00	Drying Oven, included [E40-KLN-055]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2681.00	Flux Mixer 0.8m3 capacity, cement mixer, polyethylene drum, 375 kW, included [E40-MIX-057]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2682.00	Induction Smelting Furnace - Induction, 125kW w/Hydraulics & Chiller, included [E40-FUR-058]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2683.00	Smelting Furnace Dust Collector, included [E40-COL-061]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2684.00	Smelting Furnace Dust Collector Fan c/w Ducting, included [E40-FAN-062]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2685.00	Buillion Safe Class 5 construction 2134 x 1320 x 203, included [E40-SAF-060]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2686.00	Piping Supply Package (including valves, CPVC Pipe on-site fabrication for Acid Wash System, CS pipe for on site fabrication, Pipe Support Materials, Ventilation Duct)	1. lot	0.00	1.30	0.00	103.68	0	263,225.99	263,226	0.00	0	0.00	0	263,225.99	263,226
E40-50-2687.00	Pregnant Solution Tank, 2000 D x 3000 [E40-TNK-028]	1,500. kg	0.06	1.30	117.00	103.68	12,131	0.08	115	0.03	43	5.28	7,920	13.47	20,209
E40-50-2688.00	Electrowinning Cells Ventilation Fan No.2 [E40-FAN-046]	1. ea	24.00	1.30	31.20	103.68	3,235	48.00	48	19.20	19	28,800.00	28,800	32,102.02	32,102
E40-50-2689.00	Electrowinning Cells Feed Pump No.1 c/w motor 2kW, 50 x 38 [E40-PSL-029]	1. ea	20.00	1.30	26.00	103.68	2,696	19.20	19	14.40	14	20,160.00	20,160	22,889.28	22,889
E40-50-2690.00	Electrowinning Cells Feed Pump No.2 c/w motor 2kW, 50 x 38 [E40-PSL-030]	1. ea	20.00	1.30	26.00	103.68	2,696	19.20	19	14.40	14	20,160.00	20,160	22,889.28	22,889
E40-50-2691.00	Elution Area Sump Pump c/w motor 15kW, 100 [E40-PSU-035]	1. ea	60.00	1.30	78.00	103.68	8,087	48.00	48	24.00	24	21,120.00	21,120	29,279.04	29,279
E40-50-2692.00	Acid Wash Tank No.1 Drain Pump c/w motor 1kW, 50 x 38 [E40-PSL-005]	1. ea	20.00	1.30	26.00	103.68	2,696	19.20	19	14.40	14	20,160.00	20,160	22,889.28	22,889



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E40-50-2693.00	Acid Wash Tank No.2 Drain Pump c/w motor 1kW, 50 x 38 [E40-PSL-006]	1. ea	20.00	1.30	26.00	103.68	2,696	19.20	19	14.40	14	20,160.00	20,160	22,889.28	22,889
E40-50-2694.00	Acid Wash Area Sump Pump c/w motor 15kW, 100 [E40-PSU-033]	1. ea	60.00	1.30	78.00	103.68	8,087	48.00	48	24.00	24	21,120.00	21,120	29,279.04	29,279
E40-50-2695.00	Electrowinning Area Sump Pump c/w motor 10kW, 100 [E40-PSU-034]	1. ea	60.00	1.30	78.00	103.68	8,087	48.00	48	24.00	24	21,120.00	21,120	29,279.04	29,279
E40-50-2696.00	Refinery Area Sump Pump c/w motor 10kW, 100 [E40-PSU-037]	1. ea	60.00	1.30	78.00	103.68	8,087	48.00	48	24.00	24	21,120.00	21,120	29,279.04	29,279
E40-50-2697.00	Drying Oven Exhaust Fan [E40-FAN-056]	1. ea	24.00	1.30	31.20	103.68	3,235	48.00	48	19.20	19	28,800.00	28,800	32,102.02	32,102
E40-50-2698.00	Reactivation Area Sump Pump c/w motor 10kW, 100 [E40-PSU-036]	1. ea	60.00	1.30	78.00	103.68	8,087	48.00	48	24.00	24	21,120.00	21,120	29,279.04	29,279
E40-50-2699.00	Eluted Carbon Dewatering Screen, 1000 x 2000 [E40-SCN-070]	1. ea	100.00	1.30	130.00	103.68	13,478	192.00	192	720.00	720	69,120.00	69,120	83,510.40	83,510
E40-50-2700.00	Elution Column No.1 Solution Drain Pump [E40-PSL-018]	1. ea	40.00	1.30	52.00	103.68	5,391	72.00	72	28.80	29	28,800.00	28,800	34,292.16	34,292
E40-50-2701.00	Elution Column No.2 Solution Drain Pump [E40-PSL-019]	1. ea	40.00	1.30	52.00	103.68	5,391	72.00	72	28.80	29	28,800.00	28,800	34,292.16	34,292
E40-50-2702.00	Reactivation Kiln Exhaust Fan [E40-FAN-074]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40-50-2703.00	Fine Carbon Collector Bin [E40-BIN-080]	1. ea	300.00	1.30	390.00	103.68	40,435	72.00	72	4,800.00	4,800	144,000.00	144,000	189,307.20	189,307
E40-50-2704.00	Electrowinning Discharge Pumpbox (Stainless Steel) [E40-PBX-120]	4,240. kg	0.15	1.30	826.80	103.68	85,723	0.19	814	0.07	305	6.24	26,458	26.72	113,300
E40-50-2705.00	Electrowinning Discharge Pump No.1 c/w motor 2kW [E40-PSL-121]	1. ea	20.00	1.30	26.00	103.68	2,696	19.20	19	14.40	14	9,600.00	9,600	12,329.28	12,329
E40-50-2706.00	Electrowinning Discharge Pump No.2 c/w motor 2kW [E40-PSL-122]	1. ea	20.00	1.30	26.00	103.68	2,696	19.20	19	14.40	14	9,600.00	9,600	12,329.28	12,329
E40-50-2707.00	Carbon Elution Area Crane (30m span, 30m lift), 10T [E40-CRN-111]	1. ea	200.00	1.30	260.00	103.68	26,957	192.00	192	1,920.00	1,920	124,800.00	124,800	153,868.80	153,869
E40-50-2708.00	Carbon Regeneration Area Crane (30m span, 30m lift), 10T [E40-CRN-112]	1. ea	200.00	1.30	260.00	103.68	26,957	192.00	192	1,920.00	1,920	124,800.00	124,800	153,868.80	153,869



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E40-50-2709.00	Shower & Eye Wash Safety Station [E70-SSW-XXX]	4. ea	40.00	1.30	208.00	103.68	21,565	48.00	192	480.00	1,920	5,280.00	21,120	11,199.36	44,797
E40-60-2710.00	Piping - Additional to above allowance 3%	1. lot	286.00	1.00	286.00	103.68	29,652	122,240.55	122,241	14,660.01	14,660	0.00	0	166,553.04	166,553
E40-58-2711.00	Building Services Fire Protection - Allowance	1. lot	120.00	1.00	120.00	103.68	12,442	57,600.00	57,600	576.00	576	0.00	0	70,617.60	70,618
E40-58-2712.00	Building Services Water/Air Lines	1. lot	80.00	1.00	80.00	103.68	8,294	38,400.00	38,400	2,400.00	2,400	0.00	0	49,094.40	49,094
E40-58-2713.00	Building Services HVAC	1. lot	150.00	1.30	195.00	103.68	20,218	48,000.00	48,000	4,800.00	4,800	0.00	0	73,017.60	73,018
E40-80-2714.00	Field Instrumentation & Bulks Security System and CCTV	1. lot	600.00	1.30	780.00	103.68	80,870	0.00	0	0.00	0	72,000.00	72,000	152,870.40	152,870
E40-80-2715.00	Field Instrumentation & Bulks Allowance	1. lot	6,066.00	1.30	7,885.80	103.68	817,600	160,596.00	160,596	24,000.00	24,000	993,599.98	993,600	1,995,795.70	1,995,796
E40-70-2716.00	Electrical Motor Wiring, included in Areas A20/A30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E40 - Refinery Subtotal					42,408.02		4,396,863		3,414,651		706,373		4,871,766		13,389,654
E50 - Concentrate Handling															
E50-50-2718.00	Concentrate Loadout Sump Pump c/w motor 10kW, 50 [E50-PSU-058]	1. ea	60.00	1.30	78.00	103.68	8,087	24.00	24	24.00	24	21,600.00	21,600	29,735.04	29,735
E50-50-2719.00	Copper Concentrate Handling Sump Pump c/w motor 2kW, 25 [E50-PSU-063]	1. ea	60.00	1.30	78.00	103.68	8,087	24.00	24	24.00	24	19,200.00	19,200	27,335.04	27,335
E50-50-2720.00	Copper Concentrate Thickener c/w Rake Drive/Lift System, Hydraulic Power Unit, Local Control Panel, Instrumentation including Bed Level Sensor, Bed Mass DP Cell, etc., 15000 D [E50-THK-042]	1. ea	1,000.00	1.30	1,300.00	103.68	134,784	960.00	960	960.00	960	427,999.99	428,000	564,703.99	564,704
E50-50-2721.00	Copper Concentrate Overflow Standpipe [E50-TNK-104]	375. kg	0.06	1.30	29.25	103.68	3,033	0.08	29	0.03	11	5.28	1,980	13.47	5,052
E50-50-2722.00	Copper Filter Feed Pipe Flush Pump No.1 c/w motor 20kW, 50 x 37 [E50-PSL-054]	1. ea	20.00	1.30	26.00	103.68	2,696	19.20	19	14.40	14	10,080.00	10,080	12,809.28	12,809
E50-50-2723.00	Copper Filter Feed Pipe Flush Pump No.2 c/w motor 20kW, 50 x 37 [E50-PSL-055]	1. ea	20.00	1.30	26.00	103.68	2,696	19.20	19	14.40	14	10,080.00	10,080	12,809.28	12,809
E50-50-2724.00	Copper Thickener Overflow Pump No.1 c/w motor 3kW, 50 x 37 [E50-PSL-056]	1. ea	20.00	1.30	26.00	103.68	2,696	19.20	19	14.40	14	10,080.00	10,080	12,809.28	12,809



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E50-50-2725.00	Copper Thickener Overflow Pump No. 2 c/w motor 3kW, 50 x 37 [E50-PSL-057]	1. ea	20.00	1.30	26.00	103.68	2,696	19.20	19	14.40	14	10,080.00	10,080	12,809.28	12,809
E50-50-2726.00	Copper Thickener Underflow Pump (VFD) No.1 c/w motor 3kW, 50 x 37 [E50-PSL-061]	1. ea	20.00	1.30	26.00	103.68	2,696	19.20	19	14.40	14	10,080.00	10,080	12,809.28	12,809
E50-50-2727.00	Copper Thickener Underflow Pump (VFD) No.2 c/w motor 3kW, 50 x 37 [E50-PSL-062]	1. ea	20.00	1.30	26.00	103.68	2,696	19.20	19	14.40	14	10,080.00	10,080	12,809.28	12,809
E50-50-2728.00	Copper Concentrate Sampler [E50-SMP-111]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E50-50-2729.00	Copper Concentrate Stock Tank, 8000 D x 7000 H [E50-TNK-101]	13,800. kg	0.08	1.30	1,435.20	103.68	148,802	0.10	1,325	0.03	397	5.28	72,864	16.19	223,388
E50-50-2730.00	Copper Concentrate Stock Tank Agitator [E50-AGI-111]	1. ea	300.00	1.30	390.00	103.68	40,435	192.00	192	288.00	288	65,300.00	65,300	106,215.20	106,215
E50-50-2731.00	Copper Concentrate Filter No.1 High Pressure Feed Pump No.1 c/w motor 85kW, 100 x 75 [E50-PSL-059]	1. ea	120.00	1.30	156.00	103.68	16,174	72.00	72	1,440.00	1,440	13,440.00	13,440	31,126.08	31,126
E50-50-2732.00	Copper Concentrate Filter No.1 High Pressure Feed Pump No.2 c/w motor 85kW, 100 x 75 [E50-PSL-060]	1. ea	120.00	1.30	156.00	103.68	16,174	72.00	72	1,440.00	1,440	13,440.00	13,440	31,126.08	31,126
E50-50-2733.00	Copper Concentrate Pressure Filter No.1, 160m ² [E50-FIL-091]	1. ea	700.00	1.30	910.00	103.68	94,349	480.00	480	9,600.00	9,600	761,713.90	761,714	866,142.70	866,143
E50-50-2734.00	Copper Concentrate Filter No.2 High Pressure Feed Pump No.1 c/w motor 85kW, 100 x 75 [E50-PSL-072]	1. ea	120.00	1.30	156.00	103.68	16,174	72.00	72	1,440.00	1,440	13,440.00	13,440	31,126.08	31,126
E50-50-2735.00	Copper Concentrate Filter No.2 High Pressure Feed Pump No.2 c/w motor 85kW, 100 x 75 [E50-PSL-073]	1. ea	120.00	1.30	156.00	103.68	16,174	72.00	72	1,440.00	1,440	13,440.00	13,440	31,126.08	31,126
E50-50-2736.00	Copper Concentrate Pressure Filter No.2, 160m ² [E50-FIL-092]	1. ea	700.00	1.30	910.00	103.68	94,349	480.00	480	9,600.00	9,600	761,713.90	761,714	866,142.70	866,143
E50-50-2737.00	Copper Filter Filtrate Collection Pumpbox [E50-PBX-105]	185. kg	0.06	1.30	14.43	103.68	1,496	0.08	14	0.03	5	5.28	977	13.47	2,492
E50-50-2738.00	Copper Filter Filtrate Collection Pump c/w motor 4kW [E50-PSL-070]	1. ea	20.00	1.30	26.00	103.68	2,696	19.20	19	14.40	14	9,600.00	9,600	12,329.28	12,329
E50-50-2739.00	Copper Concentrate Belt Conveyor No.1, 610 W x 10000 L [E50-CNV-025]	10. m	25.00	1.30	325.00	103.68	33,696	48.00	480	144.00	1,440	8,131.64	81,316	11,693.24	116,932
E50-55-2740.00	Copper Concentrate Belt Conveyor No.1 Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E50-55-2741.00	Copper Concentrate Belt Conveyor No.1 Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E50-50-2742.00	Copper Concentrate Belt Conveyor No.2, 610 W x 10000 L [E50-CNV-026]	10. m	25.00	1.30	325.00	103.68	33,696	48.00	480	144.00	1,440	8,131.64	81,316	11,693.24	116,932
E50-55-2743.00	Copper Concentrate Belt Conveyor No.2 Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E50-55-2744.00	Copper Concentrate Belt Conveyor No.2 Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E50-50-2745.00	Copper Concentrate Loadout Conveyor, 610 W x 86000 L [E50-CNV-028]	86. m	20.00	1.30	2,236.00	103.68	231,828	48.00	4,128	144.00	12,384	3,081.95	265,048	5,969.63	513,388
E50-55-2746.00	Copper Concentrate Loadout Conveyor Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E50-55-2747.00	Copper Concentrate Loadout Conveyor Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E50-50-2748.00	Copper Concentrate Belt Scale [E50-SCB-031]	1. ea	50.00	1.30	65.00	103.68	6,739	24.00	24	480.00	480	37,440.00	37,440	44,683.20	44,683
E50-50-2749.00	Molybdenum Concentrate Handling Sump Pump c/w motor 2kW, 25 [E50-PSU-069]	1. ea	60.00	1.30	78.00	103.68	8,087	24.00	24	24.00	24	19,200.00	19,200	27,335.04	27,335
E50-50-2750.00	Molybdenum Concentrate Thickener c/w Rake Drive/Lift System, Hydraulic Power Unit, Local Control Panel, Instrumentation including Bed Level Sensor, Bed Mass DP Cell, etc., 2000 D [E50-THK-041]	1. ea	720.00	1.30	936.00	103.68	97,044	480.00	480	480.00	480	43,000.00	43,000	141,004.48	141,004
E50-50-2751.00	Molybdenum Thickener Overflow Standpipe [E50-TNK-103]	185. kg	0.06	1.30	14.43	103.68	1,496	0.08	14	0.03	5	5.28	977	13.47	2,492
E50-50-2752.00	Molybdenum Thickener Overflow Pump c/w motor 1kW, 25 x 25 [E50-PSL-066]	1. ea	15.00	1.30	19.50	103.68	2,022	19.20	19	14.40	14	8,640.00	8,640	10,695.36	10,695
E50-50-2753.00	Molybdenum Filter Filtrate Collection Pump c/w motor 1kW, 25 x 25 [E50-PSL-071]	1. ea	15.00	1.30	19.50	103.68	2,022	19.20	19	14.40	14	8,640.00	8,640	10,695.36	10,695
E50-50-2754.00	Molybdenum Filter Filtrate Collection Pumpbox [E50-PBX-106]	185. kg	0.06	1.30	14.43	103.68	1,496	0.08	14	0.03	5	5.28	977	13.47	2,492
E50-50-2755.00	Molybdenum Thickener Underflow Pump (VFD) No.1 c/w motor 2kW [E50-PSL-064]	1. ea	15.00	1.30	19.50	103.68	2,022	19.20	19	14.40	14	8,160.00	8,160	10,215.36	10,215
E50-50-2756.00	Molybdenum Thickener Underflow Pump (VFD) No.2 c/w motor 2kW [E50-PSL-065]	1. ea	15.00	1.30	19.50	103.68	2,022	19.20	19	14.40	14	8,160.00	8,160	10,215.36	10,215



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E50-50-2757.00	Molybdenum Concentrate Sampler [E50-SMP-347]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E50-50-2758.00	Molybdenum Concentrate Leach Tank, 2000 D x 2000 H [E50-TNK-102]	225. kg	0.06	1.30	17.55	103.68	1,820	0.08	17	0.03	6	5.28	1,188	13.47	3,031
E50-50-2759.00	Molybdenum Concentrate Leach Tank Agitator [E50-AGI-112]	1. ea	40.00	1.30	52.00	103.68	5,391	48.00	48	48.00	48	14,400.00	14,400	19,887.36	19,887
E50-50-2760.00	Molybdenum Concentrate Filter Feed Pump No. 1 c/w motor 5kW, 25 x 25 [E50-PSL-067]	1. ea	15.00	1.30	19.50	103.68	2,022	19.20	19	14.40	14	8,640.00	8,640	10,695.36	10,695
E50-50-2761.00	Molybdenum Concentrate Filter Feed Pump No. 2 c/w motor 5kW, 25 x 25 [E50-PSL-068]	1. ea	15.00	1.30	19.50	103.68	2,022	19.20	19	14.40	14	8,640.00	8,640	10,695.36	10,695
E50-50-2762.00	Molybdenum Concentrate Filter Feed Sampler [E50-SMP-348]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E50-50-2763.00	Molybdenum Concentrate Filter, 4m² [E50-FIL-095]	1. ea	500.00	1.30	650.00	103.68	67,392	480.00	480	2,400.00	2,400	399,030.71	399,031	469,302.71	469,303
E50-50-2764.00	Molybdenum Concentrate Belt Conveyor, 610 W x 120000 L [E50-CNV-021]	120. m	18.00	1.30	2,808.00	103.68	291,133	48.00	5,760	144.00	17,280	3,081.95	369,834	5,700.06	684,008
E50-55-2765.00	Molybdenum Concentrate Belt Conveyor Head Chute	1,020. kg	0.06	1.30	79.56	103.68	8,249	0.08	78	0.03	29	5.28	5,386	13.47	13,742
E50-55-2766.00	Molybdenum Concentrate Belt Conveyor Head Chute AR Liner	840. kg	0.04	1.30	38.22	103.68	3,963	0.08	65	0.03	24	5.28	4,435	10.10	8,487
E50-50-2767.00	Molybdenum Dryer Bag House	1. lot	120.00	1.30	156.00	103.68	16,174	480.00	480	960.00	960	144,000.00	144,000	161,614.08	161,614
E50-50-2768.00	Molybdenum Concentrate Dryer, included [E50-DRY-141]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E50-50-2769.00	Molybdenum Concentrate Storage Bin Dust Collector, included [E50-COL-012]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E50-50-2770.00	Molybdenum Dryer Dust Collector, included [E50-COL-011]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E50-55-2771.00	Molybdenum Dryer Tote Bin	500. kg	0.06	1.30	39.00	103.68	4,044	0.08	38	0.03	14	5.28	2,640	13.47	6,736
E50-50-2772.00	Molybdenum Concentrate Storage Bin [E50-BIN-131]	1. ea	300.00	1.30	390.00	103.68	40,435	72.00	72	4,800.00	4,800	144,000.00	144,000	189,307.20	189,307



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E50-50-2773.00	Molybdenum Concentrate Scale [E50-SCL-152]	1. ea	120.00	1.30	156.00	103.68	16,174	19,200.00	19,200	1,440.00	1,440	68,640.00	68,640	105,454.08	105,454
E50-50-2774.00	Copper Concentrate Dewatering Area Crane (37m span, 20m lift), 10T [E50-CRN-001]	1. ea	200.00	1.30	260.00	103.68	26,957	192.00	192	1,920.00	1,920	168,000.00	168,000	197,068.80	197,069
E50-50-2775.00	Molybdenum Concentrate Dewatering Area Crane (37m span, 30m lift), 5T [E50-CRN-002]	1. ea	150.00	1.30	195.00	103.68	20,218	192.00	192	1,920.00	1,920	96,000.00	96,000	118,329.60	118,330
E50-50-2776.00	Truck Weight Scale c/w Software [E50-SCL-153]	1. lot	120.00	1.30	156.00	103.68	16,174	19,200.00	19,200	1,440.00	1,440	68,640.00	68,640	105,454.08	105,454
E50-50-2777.00	Molybdenum Concentrate Leaching (c/w Building and Mechanical Equipment)	1. lot	5,861.11	1.00	5,861.11	103.68	607,680	412,799.99	412,800	48,000.00	48,000	1,030,175.98	1,030,176	2,098,655.95	2,098,656
E50-40-2778.00	Louvers/Miscellaneous	1. lot	70.00	1.00	70.00	103.68	7,258	43,200.00	43,200	1,920.00	1,920	0.00	0	52,377.60	52,378
E50-60-2779.00	Piping Allowance 5.50%	1. lot	1,175.00	1.00	1,175.00	103.68	121,824	328,992.37	328,992	6,799.68	6,800	0.00	0	457,616.05	457,616
E50-80-2780.00	Field Instrumentation & Bulks Allowance	1. lot	3,990.00	1.30	5,187.00	103.68	537,788	106,329.60	106,330	17,760.00	17,760	652,799.99	652,800	1,314,677.73	1,314,678
E50-70-2781.00	Electrical Motor Wiring, included in Areas A20/A30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E50 - Concentrate Handling Subtotal					27,783.52		2,880,595		947,427		150,110		6,165,575		10,143,707
<u>E60 - Cyanide Recovery & Destruction</u>															
E60-40-2783.00	Cyanide Recovery & Destruction, 32m x 68m x 10m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E60-13-2784.00	Cyanide Recovery & Destruction; Detail Excavation	6,080. m3	0.06	1.30	474.24	103.68	49,169	0.00	0	3.60	21,888	0.00	0	11.69	71,057
E60-13-2785.00	Cyanide Recovery & Destruction; Structural Backfill	5,295. m3	0.10	1.30	688.35	103.68	71,368	7.68	40,666	3.84	20,333	0.00	0	25.00	132,367
E60-20-2786.00	Cyanide Recovery & Destruction; Concrete work	980. m3	6.50	1.30	8,281.00	103.68	858,574	734.40	719,712	24.00	23,520	0.00	0	1,634.50	1,601,806
E60-30-2787.00	Cyanide Recovery & Destruction; Structural Steel	175. t	22.00	1.30	5,005.00	103.68	518,918	4,608.00	806,400	240.00	42,000	0.00	0	7,813.25	1,367,318
E60-40-2788.00	Cyanide Recovery & Destruction; Wall cladding	2,000. m2	1.00	1.30	2,600.00	103.68	269,568	105.60	211,200	14.40	28,800	0.00	0	254.78	509,568



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E60-40-2789.00	Cyanide Recovery & Destruction; Roof cladding	2,175. m2	1.00	1.30	2,827.50	103.68	293,155	105.60	229,680	14.40	31,320	0.00	0	254.78	554,155
E60-13-2790.00	Thickeners (x2) Detail Excavation	7,090. m3	0.06	1.30	553.02	103.68	57,337	0.00	0	3.60	25,524	0.00	0	11.69	82,861
E60-13-2791.00	Thickeners (x2) Structural Backfill	6,020. m3	0.10	1.30	782.60	103.68	81,140	7.68	46,234	3.84	23,117	0.00	0	25.00	150,490
E60-20-2792.00	Thickeners (x2) Concrete work	1,255. m3	6.50	1.30	10,604.75	103.68	1,099,500	734.40	921,672	24.00	30,120	0.00	0	1,634.50	2,051,292
E60-30-2793.00	Thickeners (x2) Structural Steel	100. t	22.00	1.30	2,860.00	103.68	296,525	4,608.00	460,800	240.00	24,000	0.00	0	7,813.25	781,325
E60-40-2794.00	Thickeners (x2) Wall cladding	2,010. m2	1.00	1.30	2,613.00	103.68	270,916	105.60	212,256	14.40	28,944	0.00	0	254.78	512,116
E60-50-2796.00	CIL Residue Washing Thickener No.1 c/w Rake Drive/Lift System, Hydraulic Power Unit, Local Control Panel, Instrumentation including Bed Level Sensor, Bed Mass DP Cell, etc., 40000 D [E60-THK-001]	1. ea	2,600.00	1.30	3,380.00	103.68	350,438	1,920.00	1,920	26,400.00	26,400	2,099,999.95	2,100,000	2,478,758.34	2,478,758
E60-50-2797.00	CIL Residue Washing Thickener No.1 Overflow Standpipe [E60-TNK-125]	2,150. kg	0.06	1.30	167.70	103.68	17,387	0.08	165	0.03	62	5.28	11,352	13.47	28,966
E60-50-2798.00	CIL Residue Washing Thickener No.1 Overflow Pump No.1 c/w motor 106kW, 300 x 250 [E60-PSL-123]	1. ea	165.00	1.30	214.50	103.68	22,239	288.00	288	1,440.00	1,440	58,440.00	58,440	82,407.36	82,407
E60-50-2799.00	CIL Residue Washing Thickener No.1 Overflow Pump No.2 c/w motor 106kW, 300 x 250 [E60-PSL-124]	1. ea	165.00	1.30	214.50	103.68	22,239	288.00	288	1,440.00	1,440	58,440.00	58,440	82,407.36	82,407
E60-50-2800.00	Cyanide Washing Sampler [E60-SMP-151]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E60-50-2801.00	Cyanide Recovery Acidification Tank (Stainless Steel), 2000 D x 2000 H [E60-TNK-080]	1,400. kg	0.16	1.30	291.20	103.68	30,192	0.19	269	0.06	81	11.04	15,456	32.86	45,997
E60-50-2802.00	Cyanide Recovery Acidification Tank Agitator [E60-AGI-081]	1. ea	200.00	1.30	260.00	103.68	26,957	192.00	192	288.00	288	48,000.00	48,000	75,436.80	75,437
E60-50-2803.00	Volatilization Tower Feed Pump No.1 c/w motor 200kW, 350 x 300 [E60-PSL-062]	1. ea	200.00	1.30	260.00	103.68	26,957	960.00	960	4,800.00	4,800	54,417.60	54,418	87,134.40	87,134
E60-50-2804.00	Volatilization Tower Feed Pump No.2 c/w motor 200kW, 350 x 300 [E60-PSL-063]	1. ea	200.00	1.30	260.00	103.68	26,957	960.00	960	4,800.00	4,800	54,417.60	54,418	87,134.40	87,134
E60-50-2805.00	Volatilization Tower No.1 Fan [E60-FAN-052]	1. ea	24.00	1.30	31.20	103.68	3,235	48.00	48	19.20	19	14,400.00	14,400	17,702.02	17,702



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E60-50-2806.00	Volatilization Tower No.1 c/w Rubber Liner (Stainless Steel), 3000 D x 8000 H [E60-TNK-065]	6,500. kg	0.16	1.30	1,352.00	103.68	140,175	0.19	1,248	0.06	374	11.52	74,880	33.34	216,678
E60-50-2807.00	Volatilization Tower Agitator No.1 [E60-AGI-066]	1. ea	250.00	1.30	325.00	103.68	33,696	192.00	192	480.00	480	62,400.00	62,400	96,768.00	96,768
E60-50-2808.00	Cyanide Absorption Tank (Stainless Steel), 1000 D x 3000 H [E60-TNK-060]	745. kg	0.16	1.30	154.96	103.68	16,066	0.19	143	0.06	43	11.04	8,225	32.86	24,477
E60-50-2809.00	Cyanide Absorption Tank Agitator [E60-AGI-061]	1. ea	200.00	1.30	260.00	103.68	26,957	192.00	192	288.00	288	48,000.00	48,000	75,436.80	75,437
E60-50-2810.00	Cyanide Absorption Tank Fan [E60-FAN-053]	1. ea	24.00	1.30	31.20	103.68	3,235	48.00	48	19.20	19	14,400.00	14,400	17,702.02	17,702
E60-50-2811.00	Cyanide Recovery Sampler [E60-SMP-153]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E60-50-2812.00	Cyanide Solution Pump No.1 c/w motor 5kW, 50 x 38 [E60-PSL-082]	1. ea	20.00	1.30	26.00	103.68	2,696	19.20	19	14.40	14	10,080.00	10,080	12,809.28	12,809
E60-50-2813.00	Cyanide Solution Pump No.2 c/w motor 5kW, 50 x 38 [E60-PSL-083]	1. ea	20.00	1.30	26.00	103.68	2,696	19.20	19	14.40	14	10,080.00	10,080	12,809.28	12,809
E60-50-2814.00	Volatilization Tower No.1 Underflow Pump No.1 c/w motor 200kW, 350 x 300 [E60-PSL-091]	1. ea	200.00	1.30	260.00	103.68	26,957	960.00	960	4,800.00	4,800	54,417.60	54,418	87,134.40	87,134
E60-50-2815.00	Volatilization Tower No.1 Underflow Pump No.2 c/w motor 200kW, 350 x 300 [E60-PSL-092]	1. ea	200.00	1.30	260.00	103.68	26,957	960.00	960	4,800.00	4,800	54,417.60	54,418	87,134.40	87,134
E60-50-2816.00	Volatilization Tower No.2 Fan [E60-FAN-051]	1. ea	24.00	1.30	31.20	103.68	3,235	48.00	48	19.20	19	14,400.00	14,400	17,702.02	17,702
E60-50-2817.00	Volatilization Tower No.2 c/w Rubber Liner (Stainless Steel), 3000 D x 8000 H [E60-TNK-067]	6,500. kg	0.16	1.30	1,352.00	103.68	140,175	0.19	1,248	0.06	374	11.52	74,880	33.34	216,678
E60-50-2818.00	Volatilization Tower Agitator No.2 [E60-AGI-068]	1. ea	250.00	1.30	325.00	103.68	33,696	192.00	192	480.00	480	62,400.00	62,400	96,768.00	96,768
E60-50-2819.00	Alkalization Tank, 1000 D x 1000 H [E60-TNK-096]	325. kg	0.06	1.30	25.35	103.68	2,628	0.08	25	0.03	9	5.28	1,716	13.47	4,379
E60-50-2820.00	Alkalization Tank Agitator [E60-AGI-097]	1. ea	200.00	1.30	260.00	103.68	26,957	192.00	192	96.00	96	28,800.00	28,800	56,044.80	56,045
E60-50-2821.00	Alkalization Tank Pump c/w motor 85kW, 350 x 300 [E60-PSL-098]	1. ea	165.00	1.30	214.50	103.68	22,239	960.00	960	4,800.00	4,800	76,152.00	76,152	104,151.36	104,151



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E60-50-2822.00	Volatilization Thickener c/w Rake Drive/Lift System, Hydraulic Power Unit, Local Control Panel, Instrumentation including Bed Level Sensor, Bed Mass DP Cell, etc., 10000 D [E60-THK-070]	1. ea	800.00	1.30	1,040.00	103.68	107,827	720.00	720	480.00	480	184,000.00	184,000	293,027.19	293,027
E60-50-2823.00	Volatilization Thickener Underflow Pump c/w motor 8kW, 75 x 50 [E60-PSL-072]	1. ea	40.00	1.30	52.00	103.68	5,391	72.00	72	28.80	29	15,120.00	15,120	20,612.16	20,612
E60-50-2824.00	Volatilization Thickener Filter Press [E60-FIL-075]	1. ea	450.00	1.30	585.00	103.68	60,653	240.00	240	960.00	960	239,999.99	240,000	301,852.79	301,853
E60-50-2825.00	Volatilization Thickener Overflow Pump c/w motor 145kW, 350 x 300 [E60-PSL-071]	1. ea	165.00	1.30	214.50	103.68	22,239	960.00	960	4,800.00	4,800	57,480.00	57,480	85,479.36	85,479
E60-50-2826.00	CIL Residue Washing Thickener No.1 Underflow Pump No.1 c/w motor 90kW, 250 x 200 [E60-PSL-010]	1. ea	150.00	1.30	195.00	103.68	20,218	240.00	240	1,440.00	1,440	32,256.00	32,256	54,153.60	54,154
E60-50-2827.00	CIL Residue Washing Thickener No.1 Underflow Pump No.2 c/w motor 90kW, 250 x 200 [E60-PSL-011]	1. ea	150.00	1.30	195.00	103.68	20,218	240.00	240	1,440.00	1,440	32,256.00	32,256	54,153.60	54,154
E60-50-2828.00	CIL Residue Washing Thickener No.2 c/w Rake Drive/Lift System, Hydraulic Power Unit, Local Control Panel, Instrumentation including Bed Level Sensor, Bed Mass DP Cell, etc., 40000 D [E60-THK-002]	1. ea	2,600.00	1.30	3,380.00	103.68	350,438	1,920.00	1,920	26,400.00	26,400	2,099,999.95	2,100,000	2,478,758.34	2,478,758
E60-50-2829.00	CIL Residue Washing Thickener No.2 Overflow Standpipe [E60-TNK-015]	1,895. kg	0.06	1.30	147.81	103.68	15,325	0.08	146	0.03	55	5.28	10,006	13.47	25,531
E60-50-2830.00	CIL Residue Washing Thickener No.2 Overflow Pump No.1 c/w motor 106kW, 300 x 250 [E60-PSL-013]	1. ea	165.00	1.30	214.50	103.68	22,239	288.00	288	1,440.00	1,440	55,252.80	55,253	79,220.16	79,220
E60-50-2831.00	CIL Residue Washing Thickener No.2 Overflow Pump No.2 c/w motor 106kW, 300 x 250 [E60-PSL-014]	1. ea	165.00	1.30	214.50	103.68	22,239	288.00	288	1,440.00	1,440	55,252.80	55,253	79,220.16	79,220
E60-50-2832.00	CIL Residue Washing Thickener No.2 Underflow Pump No.1 c/w motor 90kW, 250 x 200 [E60-PSL-016]	1. ea	150.00	1.30	195.00	103.68	20,218	240.00	240	1,440.00	1,440	32,256.00	32,256	54,153.60	54,154
E60-50-2833.00	CIL Residue Washing Thickener No.2 Underflow Pump No.2 c/w motor 90kW, 250 x 200 [E60-PSL-017]	1. ea	150.00	1.30	195.00	103.68	20,218	240.00	240	1,440.00	1,440	32,256.00	32,256	54,153.60	54,154
E60-50-2834.00	Cyanide Destruction Area Sump Pump c/w motor 15kW, 100 [E60-PSU-046]	1. ea	60.00	1.30	78.00	103.68	8,087	48.00	48	24.00	24	28,800.00	28,800	36,959.04	36,959
E60-50-2835.00	Cyanide Destruction Tank No.1 (Initial) c/w Rubber Liner, 6000 D x 6000 H [E60-TNK-020]	11,920. kg	0.08	1.30	1,239.68	103.68	128,530	0.10	1,144	0.03	343	5.76	68,659	16.67	198,677
E60-50-2836.00	Cyanide Destruction Tank Agitator No.1 [E60-AGI-030]	1. ea	350.00	1.30	455.00	103.68	47,174	288.00	288	384.00	384	96,300.00	96,300	144,146.40	144,146
E60-50-2837.00	Cyanide Destruction Tank No.2 c/w Rubber Liner, 11000 D x 12000 H [E60-TNK-021]	51,295. kg	0.08	1.30	5,334.68	103.68	553,100	0.10	4,924	0.03	1,477	5.76	295,459	16.67	854,960



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E60-50-2838.00	Cyanide Destruction Tank Agitator No.2 [E60-AGI-031]	1. ea	350.00	1.30	455.00	103.68	47,174	288.00	288	384.00	384	121,300.00	121,300	169,146.40	169,146
E60-50-2839.00	Cyanide Destruction Tank No.3 c/w Rubber Liner, 11000 D x 12000 H [E60-TNK-022]	51,295. kg	0.08	1.30	5,334.68	103.68	553,100	0.10	4,924	0.03	1,477	5.76	295,459	16.67	854,960
E60-50-2840.00	Cyanide Destruction Tank Agitator No.3 [E60-AGI-032]	1. ea	350.00	1.30	455.00	103.68	47,174	288.00	288	384.00	384	121,300.00	121,300	169,146.40	169,146
E60-50-2841.00	Cyanide Destruction Tank No.4 c/w Rubber Liner, 7000 D x 7600 H [E60-TNK-023]	21,100. kg	0.08	1.30	2,194.40	103.68	227,515	0.10	2,026	0.03	608	5.76	121,536	16.67	351,685
E60-50-2842.00	Cyanide Destruction Tank Agitator No.4 [E60-AGI-033]	1. ea	350.00	1.30	455.00	103.68	47,174	288.00	288	384.00	384	121,300.00	121,300	169,146.40	169,146
E60-50-2843.00	Cyanide Destruction Sampler [E60-SMP-152]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E60-50-2844.00	Cyanide Destruction Scrubber System	1. ea	150.00	1.30	195.00	103.68	20,218	480.00	480	480.00	480	67,200.00	67,200	88,377.60	88,378
E60-50-2845.00	Scrubber System Neutralization Tank, included [E60-TNK-135]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E60-50-2846.00	Scrubber System Neutralization Tank Agitator, included [E60-AGI-136]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E60-50-2847.00	Scrubber System Discharge Pump No.1, included [E60-PSL-131]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E60-50-2848.00	Scrubber System Discharge Pump No.2, included [E60-PSL-132]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E60-50-2849.00	Scrubber System Recycle Pump No.1, included [E60-PSL-133]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E60-50-2850.00	Scrubber System Recycle Pump No.2, included [E60-PSL-134]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E60-50-2851.00	Scrubber System Exhaust Fan [E60-EXF-139]	1. ea	16.00	1.30	20.80	103.68	2,157	14.40	14	14.40	14	4,800.00	4,800	6,985.34	6,985
E60-50-2852.00	Vacuum System [E60-SYS-100]	1. ea	250.00	1.30	325.00	103.68	33,696	192.00	192	240.00	240	239,999.99	240,000	274,127.99	274,128
E60-50-2853.00	Cyanide Destruction Area Crane (20m span, 25m lift), 20T [E60-CRN-045]	1. ea	200.00	1.30	260.00	103.68	26,957	240.00	240	1,920.00	1,920	124,800.00	124,800	153,916.80	153,917



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E60-50-2854.00	Cyanide Destruction Area Scrubber [E60-SCR-130]	1. ea	40.00	1.30	52.00	103.68	5,391	240.00	240	96.00	96	47,664.00	47,664	53,391.36	53,391
E60-50-2855.00	Cyanide Recovery Area Cyanide Monitor System [E60-SYS-163]	1. ea	20.00	1.30	26.00	103.68	2,696	192.00	192	240.00	240	9,600.00	9,600	12,727.68	12,728
E60-50-2856.00	Cyanide Destruction Area Cyanide Monitor System [E60-SYS-161]	1. ea	20.00	1.30	26.00	103.68	2,696	192.00	192	240.00	240	9,600.00	9,600	12,727.68	12,728
E60-50-2857.00	Cyanide Destruction Area So2 Monitor System [E60-SYS-162]	1. ea	20.00	1.30	26.00	103.68	2,696	192.00	192	240.00	240	9,600.00	9,600	12,727.68	12,728
E60-40-2858.00	Louvers/Miscellaneous	1. lot	60.00	1.00	60.00	103.68	6,221	9,600.00	9,600	240.00	240	0.00	0	16,060.80	16,061
E60-60-2859.00	Piping allowance 4.00%	1. lot	1,345.00	1.00	1,345.00	103.68	139,450	312,100.75	312,101	4,252.53	4,253	0.00	0	455,802.88	455,803
E60-80-2860.00	Field Instrumentation & Bulks Allowance	1. lot	3,942.00	1.30	5,124.60	103.68	531,319	105,600.00	105,600	17,760.00	17,760	643,199.99	643,200	1,297,878.50	1,297,878
E60-70-2861.00	Electrical Motor Wiring, included in Areas A20/A30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E60 - Cyanide Recovery & Destruction Subtotal					77,439.92		8,028,971		4,109,155		428,132		8,412,484		20,978,741
<u>E70 - Reagents Area</u>															
E70-50-2863.00	Flocculant System	1. lot	200.00	1.30	260.00	103.68	26,957	288.00	288	1,440.00	1,440	72,000.00	72,000	100,684.80	100,685
E70-50-2864.00	Flocculant Hopper, included [E70-HPR-001]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2865.00	Flocculant Screw Conveyor, included [E70-CNV-002]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2866.00	Flocculant Blower, included [E70-BLO-003]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2867.00	Flocculant Eductor, included [E70-EDU-004]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2868.00	Flocculant Mixing Tank, 1500 D x 2000 H, included [E70-TNK-011]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2869.00	Flocculant Mixing Tank Agitator, included [E70-AGI-015]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E70-50-2870.00	Flocculant Area Sump Pump c/w motor 1kW, 50, included [E70-PSU-019]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2871.00	Flocculant Holding Tank, 3000 D x 3500 H, included [E70-TNK-012]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2872.00	Flocculant Metering Pump No.1 c/w motor 1kW, 50 X 50, included [E70-PMT-021]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2873.00	Flocculant Metering Pump No.2 c/w motor 1kW, 50 X 50, included [E70-PMT-022]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2874.00	Flocculant Metering Pump No.3 c/w motor 1kW, 50 X 50, included [E70-PMT-023]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2875.00	Flocculant Metering Pump No.4 c/w motor 1kW, 50 X 50, included [E70-PMT-024]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2876.00	Flocculant Metering Pump No.5 c/w motor 1kW, 50 X 50, included [E70-PMT-025]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2877.00	MIBC System	1. lot	150.00	1.30	195.00	103.68	20,218	192.00	192	960.00	960	33,600.00	33,600	54,969.60	54,970
E70-50-2878.00	MIBC Bulk Container [E70-EQP-081]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2879.00	MIBC Area Sump Pump c/w motor 1kW, 50, included [E70-PSU-119]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2880.00	MIBC Transfer Pump, included [E70-PMT-085]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2881.00	MIBC Holding Tank, 1250 D x 2000 H, included [E70-TNK-108]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2882.00	MIBC Metering Pump No.1 c/w motor 1kW, included [E70-PMT-091]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2883.00	MIBC Metering Pump No.2 c/w motor 1kW, included [E70-PMT-092]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2884.00	MIBC Metering Pump No.3 c/w motor 1kW, included [E70-PMT-093]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2885.00	MIBC Metering Pump No.4 c/w motor 1kW, included [E70-PMT-094]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E70-50-2886.00	MIBC Metering Pump No.5 c/w motor 1kW, included [E70-PMT-095]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2887.00	MIBC Metering Pump No.6 c/w motor 1kW, included [E70-PMT-096]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2888.00	MIBC Metering Pump No.7 c/w motor 1kW, included [E70-PMT-097]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2889.00	MIBC Metering Pump No.8 c/w motor 1kW, included [E70-PMT-098]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2890.00	MIBC Metering Pump No.9 c/w motor 1kW, included [E70-PMT-099]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2891.00	MIBC Metering Pump No.10 c/w motor 1kW, included [E70-PMT-100]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2892.00	MIBC Metering Pump No.11 c/w motor 1kW, included [E70-PMT-101]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2893.00	Potassium Amyl Xanthate (PAX) System	1. lot	250.00	1.30	325.00	103.68	33,696	288.00	288	1,920.00	1,920	81,600.00	81,600	117,504.00	117,504
E70-50-2894.00	PAX Area Bag Breaker & Feeder, included [E70-EQP-059]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2895.00	PAX Area Sump Pump c/w motor 1kW, 50, included [E70-PSU-058]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2896.00	PAX Area Exhaust Fan, included [E70-EXF-068]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2897.00	PAX Mixing Tank, 1500 D x 2500 H, included [E70-TNK-051]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2898.00	PAX Mixing Tank Agitator, included [E70-AGI-054]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2899.00	PAX Holding Tank, 1500 D x 2500 H, included [E70-TNK-052]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2900.00	PAX Metering Pump No.1 c/w motor 1kW, included [E70-PMT-061]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2901.00	PAX Metering Pump No.2 c/w motor 1kW, included [E70-PMT-062]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E70-50-2902.00	PAX Area Shower & Eye Wash Safety Station [E70-SSW-069]	1. ea	40.00	1.30	52.00	103.68	5,391	48.00	48	480.00	480	5,280.00	5,280	11,199.36	11,199
E70-50-2903.00	3418A System	1. lot	250.00	1.30	325.00	103.68	33,696	288.00	288	1,440.00	1,440	81,600.00	81,600	117,024.00	117,024
E70-50-2904.00	3418A Transfer Pump c/w motor 1kW, included [E70-PSO-131]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2905.00	3418A Holding Tank, 1250 D x 2000 H, included [E70-TNK-132]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2906.00	3418A Metering Pump No.1 c/w motor 1kW, included [E70-PMT-141]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2907.00	3418A Metering Pump No.2 c/w motor 1kW, included [E70-PMT-142]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2908.00	3418A Metering Pump No.3 c/w motor 1kW, included [E70-PMT-143]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2909.00	3418A Metering Pump No.4 c/w motor 1kW, included [E70-PMT-144]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2910.00	3418A Metering Pump No.5 c/w motor 1kW, included [E70-PMT-145]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2911.00	3418A Metering Pump No.6 c/w motor 1kW, included [E70-PMT-146]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2912.00	3418A Area Shower & Eye Wash Safety Station [E70-SSW-139]	1. ea	40.00	1.30	52.00	103.68	5,391	48.00	48	480.00	480	5,280.00	5,280	11,199.36	11,199
E70-50-2913.00	Lime System	1. lot	3,000.00	1.30	3,900.00	103.68	404,352	480.00	480	28,800.00	28,800	2,159,999.95	2,160,000	2,593,631.94	2,593,632
E70-50-2914.00	Lime Area Dust Collector, included [E70-COL-196]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2915.00	Lime Silo, 5600 D X 16000 H, included [E70-SIL-161]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2916.00	Lime Discharge Screw Conveyor, included [E70-CNV-162]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2917.00	Lime Slaking Tower Mill, included [E70-MIL-163]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E70-50-2918.00	Lime Slaker Mill Cyclone Pumpbox c/w Rubber Liner, included [E70-PBX-164]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2919.00	Lime Slaker Mill Cyclone Feed Pump c/w motor 4kW, 50 X 50, included [E70-PSL-165]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2920.00	Lime Slaker Mill Cyclone, included [E70-CYC-167]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2921.00	Lime Area Sump Pump c/w motor 1kW, 50, included [E70-PSU-199]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2922.00	Lime Holding Tank, 5000 D x 5000 H, included [E70-TNK-180]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2923.00	Lime Holding Tank Agitator, included [E70-AGI-179]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2924.00	Lime Feed Pump No.1 c/w motor 2.5kW, 38 X 25, included [E70-PSL-181]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2925.00	Lime Feed Pump No.2 c/w motor 2.5kW, 38 X 25, included [E70-PSL-182]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2926.00	Lime Silo Dust Collector, included [E70-COL-169]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2927.00	Lime System Ball Bin, included [E70-BIN-189]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2928.00	Lime System Ball Change Kibble, included [E70-EQP-188]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2929.00	Lime Area Shower & Eye Wash Safety Station [E70-SSW-168]	1. ea	40.00	1.30	52.00	103.68	5,391	48.00	48	480.00	480	5,280.00	5,280	11,199.36	11,199
E70-50-2930.00	Test Reagent System No.1	1. lot	250.00	1.30	325.00	103.68	33,696	288.00	288	1,440.00	1,440	81,600.00	81,600	117,024.00	117,024
E70-50-2931.00	Test Reagent System No.1 Bag Breaker & Feeder, included [E70-EQP-039]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2932.00	Test Reagent System No.1 Exhaust Fan, included [E70-EXF-048]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2933.00	Test Reagent System No.1 Mixing Tank, 1500 D x 2500 H, included [E70-TNK-031]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E70-50-2934.00	Test Reagent Mixing Tank Agitator, included [E70-AGI-034]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2935.00	Test Reagent System No.1 Holding Tank, 1500 D x 2500 H, included [E70-TNK-032]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2936.00	Test Reagent System No.1 Metering Pump c/w motor 1kW, included [E70-PMT-041]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2937.00	Test Reagent System No.1 Shower & Eye Wash Safety Station [E70-SSW-049]	1. ea	40.00	1.30	52.00	103.68	5,391	48.00	48	480.00	480	5,280.00	5,280	11,199.36	11,199
E70-50-2938.00	Test Reagent System No.2	1. lot	250.00	1.30	325.00	103.68	33,696	288.00	288	1,440.00	1,440	81,600.00	81,600	117,024.00	117,024
E70-50-2939.00	Test Reagent System No.2 Bag Breaker & Feeder, included [E70-EQP-739]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2940.00	Test Reagent System No.2 Exhaust Fan, included [E70-EXF-748]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2941.00	Test Reagent System No.2 Mixing Tank, 1500 D x 2500 H, included [E70-TNK-731]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2942.00	Test Reagent System No.2 Mixing Tank Agitator, included [E70-AGI-734]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2943.00	Test Reagent System No.2 Holding Tank, 1500 D x 2500 H, included [E70-TNK-732]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2944.00	Test Reagent System No.2 Metering Pump c/w motor 1kW, included [E70-PMT-741]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2945.00	Test Reagent System No.2 Shower & Eye Wash Safety Station [E70-SSW-749]	1. ea	40.00	1.30	52.00	103.68	5,391	48.00	48	480.00	480	5,280.00	5,280	11,199.36	11,199
E70-50-2946.00	Sodium Silicate System	1. lot	250.00	1.30	325.00	103.68	33,696	288.00	288	1,440.00	1,440	81,600.00	81,600	117,024.00	117,024
E70-50-2947.00	Sodium Silicate Transfer Pump c/w motor 1kW, included [E70-PSO-219]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2948.00	Sodium Silicate Holding Tank, included [E70-TNK-211]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2949.00	Sodium Silicate Metering Pump No.1 c/w motor 1kW, included [E70-PMT-221]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E70-50-2950.00	Sodium Silicate Metering Pump No.2 c/w motor 1kW, included [E70-PMT-222]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2951.00	Sodium Silicate Area Shower & Eye Wash Safety Station [E70-SSW-218]	1. ea	40.00	1.30	52.00	103.68	5,391	48.00	48	480.00	480	5,280.00	5,280	11,199.36	11,199
E70-50-2952.00	Sodium Sulphide System	1. lot	250.00	1.30	325.00	103.68	33,696	288.00	288	1,440.00	1,440	81,600.00	81,600	117,024.00	117,024
E70-50-2953.00	Sodium Sulphide Bag Breaker & Feeder, included [E70-EQP-257]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2954.00	Sodium Sulphide Area Exhaust Fan, included [E70-EXF-256]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2955.00	Sodium Sulphide Mixing Tank, 1500 D x 2500 H, included [E70-TNK-251]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2956.00	Sodium Sulphide Mixing Tank Agitator, included [E70-AGI-258]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2957.00	Sodium Sulphide Holding Tank, 1500 D x 2500 H, included [E70-TNK-260]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2958.00	Sodium Sulphide Metering Pump No.1 c/w motor 1kW, included [E70-PMT-261]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2959.00	Sodium Sulphide Metering Pump No.2 c/w motor 1kW, included [E70-PMT-262]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2960.00	Sodium Sulphide Metering Pump No.3 c/w motor 1kW, included [E70-PMT-263]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2961.00	Sodium Sulphide Metering Pump No.4 c/w motor 1kW, included [E70-PMT-264]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2962.00	Sodium Sulphide Metering Pump No.5 c/w motor 1kW, included [E70-PMT-265]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2963.00	Sodium Sulphide Area Shower & Eye Wash Safety Station [E70-SSW-259]	1. ea	40.00	1.30	52.00	103.68	5,391	48.00	48	480.00	480	5,280.00	5,280	11,199.36	11,199
E70-50-2964.00	Cyanide System	1. lot	250.00	1.30	325.00	103.68	33,696	288.00	288	1,440.00	1,440	81,600.00	81,600	117,024.00	117,024
E70-50-2965.00	Cyanide Bag Breaker & Feeder, included [E70-EQP-297]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E70-50-2966.00	Cyanide Area Exhaust Fan, included [E70-EXF-296]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2967.00	Cyanide Mixing Tank, 1500 D x 2500 H, included [E70-TNK-291]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2968.00	Cyanide Mixing Tank Agitator, included [E70-AGI-298]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2969.00	Cyanide Area Sump Pump, 50, included [E70-PSU-295]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2970.00	Cyanide Holding Tank, 1500 D x 2500 H, included [E70-TNK-300]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2971.00	Cyanide Metering Pump No.1 c/w motor 1kW, included [E70-PMT-301]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2972.00	Cyanide Metering Pump No.2 c/w motor 1kW, included [E70-PMT-302]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2973.00	Cyanide Metering Pump No.3 c/w motor 1kW, included [E70-PMT-303]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2974.00	Cyanide Metering Pump No.4 c/w motor 1kW, included [E70-PMT-304]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2975.00	Cyanide Metering Pump No.5 c/w motor 1kW, included [E70-PMT-305]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2976.00	Cyanide Metering Pump No.6 c/w motor 1kW, included [E70-PMT-306]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2977.00	Cyanide Metering Pump No.7 c/w motor 1kW, included [E70-PMT-307]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2978.00	Cyanide Area Shower & Eye Wash Safety Station [E70-SSW-299]	1. ea	40.00	1.30	52.00	103.68	5,391	48.00	48	480.00	480	5,280.00	5,280	11,199.36	11,199
E70-50-2979.00	A208 Bulk System	1. lot	250.00	1.30	325.00	103.68	33,696	288.00	288	1,440.00	1,440	81,600.00	81,600	117,024.00	117,024
E70-50-2980.00	A208 Bulk Container, included [E70-EQP-331]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2981.00	A208 Transfer Pump c/w motor 1kW, included [E70-PMT-335]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E70-50-2982.00	A208 Area Sump Pump c/w motor 1kW, 50, included [E70-PSU-369]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2983.00	A208 Holding Tank, 1250 D x 2000 H, included [E70-TNK-358]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2984.00	A208 Metering Pump No.1 c/w motor 1kW, included [E70-PMT-341]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2985.00	A208 Metering Pump No.2 c/w motor 1kW, included [E70-PMT-342]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2986.00	A208 Metering Pump No.3 c/w motor 1kW, included [E70-PMT-343]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2987.00	A208 Metering Pump No.4 c/w motor 1kW, included [E70-PMT-344]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2988.00	A208 Metering Pump No.5 c/w motor 1kW, included [E70-PMT-345]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2989.00	Fuel Oil System	1. lot	250.00	1.30	325.00	103.68	33,696	288.00	288	1,440.00	1,440	81,600.00	81,600	117,024.00	117,024
E70-50-2990.00	Fuel Oil Transfer Pump c/w motor 1kW, included [E70-PSO-379]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2991.00	Fuel Oil Holding Tank, 1200 D x 1500 H, included [E70-TNK-371]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2992.00	Fuel Oil Metering Pump No.1 c/w motor 1kW, included [E70-PMT-381]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2993.00	Fuel Oil Metering Pump No.2 c/w motor 1kW, included [E70-PMT-382]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2994.00	Fuel Oil Metering Pump No.3 c/w motor 1kW, included [E70-PMT-383]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2995.00	Fuel Oil Metering Pump No.4 c/w motor 1kW, included [E70-PMT-384]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2996.00	Fuel Oil Metering Pump No.5 c/w motor 1kW, included [E70-PMT-385]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-2997.00	Fuel Oil Area Shower & Eye Wash Safety Station [E70-SSW-378]	1. ea	40.00	1.30	52.00	103.68	5,391	48.00	48	480.00	480	5,280.00	5,280	11,199.36	11,199



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E70-50-2998.00	Sodium Metabisulphide (MBS) System	1. lot	250.00	1.30	325.00	103.68	33,696	288.00	288	1,440.00	1,440	81,600.00	81,600	117,024.00	117,024
E70-50-2999.00	MBS Bag Breaker & Feeder, included [E70-EQP-417]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3000.00	MBS Area Sump Pump c/w motor 1kW, 50, included [E70-PSU-415]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3001.00	MBS Area Exhaust Fan, included [E70-EXF-416]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3002.00	MBS Mixing Tank, 1500 D x 2500 H, included [E70-TNK-411]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3003.00	MBS Mixing Tank Agitator, included [E70-AGI-418]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3004.00	MBS Holding Tank, 1500 D x 2500 H, included [E70-TNK-420]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3005.00	MBS Metering Pump No.1 c/w motor 1kW, included [E70-PMT-421]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3006.00	MBS Metering Pump No.2 c/w motor 1kW, included [E70-PMT-422]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3007.00	MBS Area Shower & Eye Wash Safety Station [E70-SSW-419]	1. ea	40.00	1.30	52.00	103.68	5,391	48.00	48	480.00	480	5,280.00	5,280	11,199.36	11,199
E70-50-3008.00	Anti Scalant System	1. lot	250.00	1.30	325.00	103.68	33,696	288.00	288	1,440.00	1,440	81,600.00	81,600	117,024.00	117,024
E70-50-3009.00	Anti Scalant Transfer Pump c/w motor 1kW, included [E70-PSO-459]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3010.00	Anti Scalant Holding Tank, 1000 D x 1000 H, included [E70-TNK-451]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3011.00	Anti Scalant Metering Pump No.1 c/w motor 1kW, included [E70-PMT-461]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3012.00	Anti Scalant Metering Pump No.2 c/w motor 1kW, included [E70-PMT-462]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3013.00	Anti Scalant Metering Pump No.3 c/w motor 1kW, included [E70-PMT-463]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E70-50-3014.00	Anti Scalant Metering Pump No.4 c/w motor 1kW, included [E70-PMT-464]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3015.00	Anti Scalant Metering Pump No.5 c/w motor 1kW, included [E70-PMT-465]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3016.00	Sodium Hydroxide System	1. lot	250.00	1.30	325.00	103.68	33,696	288.00	288	1,440.00	1,440	81,600.00	81,600	117,024.00	117,024
E70-50-3017.00	Sodium Hydroxide Bag Breaker & Feeder, included [E70-EQP-497]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3018.00	Sodium Hydroxide Area Exhaust Fan, included [E70-EXF-496]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3019.00	Sodium Hydroxide Mixing Tank, 1500 D x 2500 H, included [E70-TNK-491]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3020.00	Sodium Hydroxide Mixing Tank Agitator, included [E70-AGI-498]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3021.00	Sodium Hydroxide Holding Tank, 1500 D x 2500 H, included [E70-TNK-500]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3022.00	Sodium Hydroxide Metering Pump No.1 c/w motor 1kW, included [E70-PMT-501]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3023.00	Sodium Hydroxide Metering Pump No.2 c/w motor 1kW, included [E70-PMT-502]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3024.00	Sodium Hydroxide Area Shower & Eye Wash Safety Station [E70-SSW-499]	1. ea	40.00	1.30	52.00	103.68	5,391	48.00	48	480.00	480	5,280.00	5,280	11,199.36	11,199
E70-50-3025.00	Copper Sulphate Pentahydrate (CuSO4.5H2O) System	1. lot	250.00	1.30	325.00	103.68	33,696	288.00	288	1,440.00	1,440	81,600.00	81,600	117,024.00	117,024
E70-50-3026.00	CuSO4.5H2O Bag Breaker & Feeder, included [E70-EQP-537]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3027.00	CuSO4.5H2O Area Exhaust Fan, included [E70-EXF-536]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3028.00	CuSO4.5H2O Area Sump Pump c/w motor 1kW, 50, included [E70-PSU-535]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3029.00	CuSO4.5H2O Mixing Tank, 1500 D x 2500 H, included [E70-TNK-531]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E70-50-3030.00	CuSO4.5H2O Mixing Tank Agitator, included [E70-AGI-538]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3031.00	CuSO4.5H2O Holding Tank, 1500 D x 2500 H, included [E70-TNK-540]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3032.00	CuSO4.5H2O Metering Pump No.1 c/w motor 1kW, included [E70-PMT-541]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3033.00	CuSO4.5H2O Metering Pump No.2 c/w motor 1kW, included [E70-PMT-542]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3034.00	CuSO4.5H2O Area Shower & Eye Wash Safety Station [E70-SSW-539]	1. ea	40.00	1.30	52.00	103.68	5,391	48.00	48	480.00	480	5,280.00	5,280	11,199.36	11,199
E70-50-3035.00	Sulphuric Acid System	1. lot	250.00	1.30	325.00	103.68	33,696	288.00	288	1,440.00	1,440	81,600.00	81,600	117,024.00	117,024
E70-50-3036.00	Sulphuric Acid Bulk Container, included [E70-EQP-611]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3037.00	Sulphuric Acid Transfer Pump, included [E70-PMT-615]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3038.00	Sulphuric Acid Area Sump Pump c/w motor 1kW, 50, included [E70-PSU-639]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3039.00	Sulphuric Acid Holding Tank, 1250 D x 2000 H, included [E70-TNK-638]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3040.00	Sulphuric Acid Metering Pump No.1 c/w motor 1kW, included [E70-PMT-621]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3041.00	Sulphuric Acid Metering Pump No.2 c/w motor 1kW, included [E70-PMT-622]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3042.00	Hydrochloric Acid System	1. lot	250.00	1.30	325.00	103.68	33,696	288.00	288	1,440.00	1,440	81,600.00	81,600	117,024.00	117,024
E70-50-3043.00	Hydrochloric Acid Transfer Pump c/w motor 1kW, included [E70-PSO-659]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3044.00	Hydrochloric Acid Holding Tank, 1000 D x 1000 H, included [E70-TNK-651]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3045.00	Hydrochloric Acid Metering Pump No.1 c/w motor 1kW, included [E70-PMT-661]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E70-50-3046.00	Hydrochloric Acid Metering Pump No.2 c/w motor 1kW, included [E70-PMT-662]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3047.00	Hydrochloric Acid Metering Pump No.3 c/w motor 1kW, included [E70-PMT-663]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-50-3048.00	Reagents Area Crane No.1 (20m span, 20m lift), 5T [E70-CRN-035]	1. ea	150.00	1.30	195.00	103.68	20,218	192.00	192	1,920.00	1,920	72,000.00	72,000	94,329.60	94,330
E70-50-3049.00	Reagents Area Crane No.2 (20m span, 20m lift), 5T [E70-CRN-036]	1. ea	150.00	1.30	195.00	103.68	20,218	192.00	192	1,920.00	1,920	72,000.00	72,000	94,329.60	94,330
E70-50-3050.00	Reagents Area Hoist No.1 (20m lift), 3T [E70-HOI-191]	1. ea	40.00	1.30	52.00	103.68	5,391	120.00	120	48.00	48	28,800.00	28,800	34,359.36	34,359
E70-50-3051.00	Reagents Area Hoist No.2 (20m lift), 3T [E70-HOI-192]	1. ea	40.00	1.30	52.00	103.68	5,391	120.00	120	48.00	48	28,800.00	28,800	34,359.36	34,359
E70-50-3052.00	Reagents Area Hoist No.3 (20m lift), 3T [E70-HOI-193]	1. ea	40.00	1.30	52.00	103.68	5,391	120.00	120	48.00	48	28,800.00	28,800	34,359.36	34,359
E70-50-3053.00	Reagents Area Hoist No.4 (20m lift), 2T [E70-HOI-194]	1. ea	40.00	1.30	52.00	103.68	5,391	120.00	120	48.00	48	24,000.00	24,000	29,559.36	29,559
E70-50-3054.00	Reagents Area Hoist No.5 (20m lift), 2T [E70-HOI-195]	1. ea	40.00	1.30	52.00	103.68	5,391	120.00	120	48.00	48	24,000.00	24,000	29,559.36	29,559
E70-58-3055.00	HVAC Allowance, included in Area E10 - Mill Building	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70-58-3056.00	Fire Protection - Fire Extinguishers	2. ea	8.00	1.30	20.87	103.68	2,164	1,920.00	3,840	19.20	38	0.00	0	3,021.08	6,042
E70-60-3057.00	Piping Allowance 21.00%	1. lot	2,192.00	1.00	2,192.00	103.68	227,267	806,021.98	806,022	20,518.91	20,519	0.00	0	1,053,807.44	1,053,807
E70-58-3058.00	Building Services - Dust Collection -Fire protection & Louvers 4.00%	1. lot	439.00	1.00	439.00	103.68	45,516	287.99	288	4,103.78	4,104	163,120.02	163,120	213,027.31	213,027
E70-80-3059.00	Field Instrumentation & Bulks Allowance	1. lot	1,116.00	1.30	1,450.80	103.68	150,419	121,236.00	121,236	19,920.00	19,920	724,799.98	724,800	1,016,374.92	1,016,375
E70-70-3060.00	Electrical Motor Wiring, included in Areas A20/A30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E70 - Reagents Area Subtotal					14,606.67		1,514,419		938,226		107,701		4,719,280		7,279,626

E80 - Molybdenum Circuit



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E80-50-3062.00	Copper/Molybdenum Thickener c/w Rake Drive/Lift System, Hydraulic Power Unit, Local Control Panel, Instrumentation including Bed Level Sensor, Bed Mass DP Cell, etc., 15000 D [E80-THK-021]	1. ea	300.00	1.30	390.00	103.68	40,435	960.00	960	4,800.00	4,800	427,999.99	428,000	474,195.19	474,195
E80-50-3063.00	Copper/Molybdenum Thickener Overflow Standpipe [E80-TNK-081]	320. kg	0.06	1.30	24.96	103.68	2,588	0.08	25	0.03	9	5.28	1,690	13.47	4,311
E80-50-3064.00	Copper/Molybdenum Thickener Overflow Pump No.1 c/w motor 2kW, 50 X 32 [E80-PSL-033]	1. ea	20.00	1.30	26.00	103.68	2,696	19.20	19	14.40	14	10,080.00	10,080	12,809.28	12,809
E80-50-3065.00	Copper/Molybdenum Thickener Overflow Pump No.2 c/w motor 2kW, 50 X 32 [E80-PSL-034]	1. ea	20.00	1.30	26.00	103.68	2,696	19.20	19	14.40	14	10,080.00	10,080	12,809.28	12,809
E80-50-3066.00	Copper/Molybdenum Thickener Underflow Pump No.1 c/w motor 3kW, 50 X 32 [E80-PSL-031]	1. ea	20.00	1.30	26.00	103.68	2,696	19.20	19	14.40	14	10,080.00	10,080	12,809.28	12,809
E80-50-3067.00	Copper/Molybdenum Thickener Underflow Pump No.2 c/w motor 3kW, 50 X 32 [E80-PSL-032]	1. ea	20.00	1.30	26.00	103.68	2,696	19.20	19	14.40	14	10,080.00	10,080	12,809.28	12,809
E80-50-3068.00	Copper/Molybdenum Conditioner Tank, 3000 D x 2500 H [E80-TNK-086]	1,925. kg	0.06	1.30	150.15	103.68	15,568	0.08	148	0.03	55	5.28	10,164	13.47	25,935
E80-50-3069.00	Copper/Molybdenum Conditioner Tank Agitator, 2000 D x 2000 H [E80-AGI-101]	1. ea	40.00	1.30	52.00	103.68	5,391	48.00	48	48.00	48	14,400.00	14,400	19,887.36	19,887
E80-50-3070.00	Molybdenum Rougher Flotation Cells No.1, 30m ³ [E80-FLO-071]	1. ea	200.00	1.30	260.00	103.68	26,957	144.00	144	336.00	336	191,520.00	191,520	218,956.80	218,957
E80-50-3071.00	Molybdenum Rougher Flotation Cells No.2, 30m ³ [E80-FLO-072]	1. ea	200.00	1.30	260.00	103.68	26,957	144.00	144	336.00	336	191,520.00	191,520	218,956.80	218,957
E80-50-3072.00	Molybdenum Rougher Flotation Cells No.3, 30m ³ [E80-FLO-073]	1. ea	200.00	1.30	260.00	103.68	26,957	144.00	144	336.00	336	191,520.00	191,520	218,956.80	218,957
E80-50-3073.00	Molybdenum Rougher Flotation Cells No.4, 30m ³ [E80-FLO-074]	1. ea	200.00	1.30	260.00	103.68	26,957	144.00	144	336.00	336	191,520.00	191,520	218,956.80	218,957
E80-50-3074.00	Molybdenum Rougher Concentrate Sampler [E80-SMP-341]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E80-50-3075.00	Molybdenum Rougher/Scavenger Flotation Cells No.1, 30m ³ [E80-FLO-075]	1. ea	200.00	1.30	260.00	103.68	26,957	144.00	144	336.00	336	191,520.00	191,520	218,956.80	218,957
E80-50-3076.00	Molybdenum Rougher/Scavenger Flotation Cells No.2, 30m ³ [E80-FLO-076]	1. ea	200.00	1.30	260.00	103.68	26,957	144.00	144	336.00	336	191,520.00	191,520	218,956.80	218,957
E80-50-3077.00	Molybdenum Scavenger Concentrate Tank, 900 D x 900 H [E80-TNK-085]	185. kg	0.06	1.30	14.43	103.68	1,496	0.08	14	0.03	5	5.28	977	13.47	2,492



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E80-50-3078.00	Molybdenum Scavenger Concentrate Vertical Pump Pump No.1 c/w motor 1kW, 25 [E80-PSL-045]	1. ea	20.00	1.30	26.00	103.68	2,696	14.40	14	14.40	14	10,080.00	10,080	12,804.48	12,804
E80-50-3079.00	Molybdenum Scavenger Concentrate Vertical Pump Pump No.2 c/w motor 1kW, 25 [E80-PSL-046]	1. ea	20.00	1.30	26.00	103.68	2,696	14.40	14	14.40	14	10,080.00	10,080	12,804.48	12,804
E80-50-3080.00	Molybdenum Scavenger Tailings Pumpbox [E80-PBX-091]	405. kg	0.06	1.30	31.59	103.68	3,275	0.08	31	0.03	12	5.28	2,138	13.47	5,456
E80-50-3081.00	Molybdenum Scavenger Tailings Pump No.1 c/w motor 7.5kW, 75 X 50 [E80-PSL-035]	1. ea	40.00	1.30	52.00	103.68	5,391	72.00	72	28.80	29	15,120.00	15,120	20,612.16	20,612
E80-50-3082.00	Molybdenum Scavenger Tailings Pump No.2 c/w motor 7.5kW, 75 X 50 [E80-PSL-036]	1. ea	40.00	1.30	52.00	103.68	5,391	72.00	72	28.80	29	15,120.00	15,120	20,612.16	20,612
E80-50-3083.00	Molybdenum Scavenger Tailings Sampler [E80-SMP-342]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E80-50-3084.00	Copper/Molybdenum Regrind Mill [E80-MIL-001]	1. ea	120.00	1.30	156.00	103.68	16,174	144.00	144	1,920.00	1,920	86,000.00	86,000	104,238.08	104,238
E80-50-3085.00	Copper/Molybdenum Regrind Cyclone, 1 x 50 [E80-CYC-011]	1. ea	150.00	1.30	195.00	103.68	20,218	96.00	96	480.00	480	1,248.00	1,248	22,041.60	22,042
E80-50-3086.00	Copper/Molybdenum Regrind Cyclone Overflow Sampler [E80-SMP-351]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E80-50-3087.00	Copper/Molybdenum Regrind Mill Sampler [E80-SMP-352]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E80-50-3088.00	Copper/Molybdenum Regrind Mill Pumpbox [E80-PBX-088]	185. kg	0.06	1.30	14.43	103.68	1,496	0.08	14	0.03	5	5.28	977	13.47	2,492
E80-50-3089.00	Copper/Molybdenum Regrind Mill Pump c/w motor 2kW [E80-PSL-056]	1. ea	20.00	1.30	26.00	103.68	2,696	19.20	19	14.40	14	9,600.00	9,600	12,329.28	12,329
E80-50-3090.00	1st Molybdenum Cleaner Column Cell, 1500 D x 4500 H [E80-CEL-061]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	240.00	240	245,903.99	245,904	286,819.19	286,819
E80-50-3091.00	1st Molybdenum Cleaner Tailings Pumpbox [E80-PBX-092]	185. kg	0.06	1.30	14.43	103.68	1,496	0.08	14	0.03	5	5.28	977	13.47	2,492
E80-50-3092.00	1st Molybdenum Cleaner Tailings Pump No.1 c/w motor 2kW, 50 X 37 [E80-PSL-041]	1. ea	20.00	1.30	26.00	103.68	2,696	19.20	19	14.40	14	10,080.00	10,080	12,809.28	12,809
E80-50-3093.00	1st Molybdenum Cleaner Tailings Pump No.2 c/w motor 2kW, 50 X 37 [E80-PSL-042]	1. ea	20.00	1.30	26.00	103.68	2,696	19.20	19	14.40	14	10,080.00	10,080	12,809.28	12,809



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E80-50-3094.00	Copper/Molybdenum Regrind Cyclone Feed Pumpbox [E80-PBX-093]	185. kg	0.06	1.30	14.43	103.68	1,496	0.08	14	0.03	5	5.28	977	13.47	2,492
E80-50-3095.00	Copper/Molybdenum Regrind Cyclone Feed Pump No.1 c/w motor 3kW, 25 X 25 [E80-PSL-037]	1. ea	15.00	1.30	19.50	103.68	2,022	19.20	19	14.40	14	8,640.00	8,640	10,695.36	10,695
E80-50-3096.00	Copper/Molybdenum Regrind Cyclone Feed Pump No.2 c/w motor 3kW, 25 X 25 [E80-PSL-038]	1. ea	15.00	1.30	19.50	103.68	2,022	19.20	19	14.40	14	8,640.00	8,640	10,695.36	10,695
E80-50-3097.00	1st Molybdenum Cleaner Cleaner Concentrate Tank, 900 D x 900 H [E80-TNK-082]	185. kg	0.06	1.30	14.43	103.68	1,496	0.08	14	0.03	5	5.28	977	13.47	2,492
E80-50-3098.00	1st Molybdenum Cleaner Concentrate Vertical Pump c/w motor 2kW, 25 [E80-PSL-047]	1. ea	20.00	1.30	26.00	103.68	2,696	14.40	14	14.40	14	10,080.00	10,080	12,804.48	12,804
E80-50-3099.00	1st Molybdenum Cleaner Concentrate Sampler [E80-SMP-343]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E80-50-3100.00	2nd Molybdenum Cleaner Column Cell, 1100 D x 4000 H [E80-CEL-062]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	240.00	240	232,099.19	232,099	273,014.39	273,014
E80-50-3101.00	2nd Molybdenum Cleaner Tailings Pumpbox [E80-PBX-094]	185. kg	0.06	1.30	14.43	103.68	1,496	0.08	14	0.03	5	5.28	977	13.47	2,492
E80-50-3102.00	2nd Molybdenum Cleaner Tailings Pump No.1 c/w motor 1kW, 25 X 25 [E80-PSL-039]	1. ea	15.00	1.30	19.50	103.68	2,022	19.20	19	14.40	14	8,640.00	8,640	10,695.36	10,695
E80-50-3103.00	2nd Molybdenum Cleaner Tailings Pump No.2 c/w motor 1kW, 25 X 25 [E80-PSL-040]	1. ea	15.00	1.30	19.50	103.68	2,022	19.20	19	14.40	14	8,640.00	8,640	10,695.36	10,695
E80-50-3104.00	2nd Molybdenum Cleaner Concentrate Tank, 900 D x 900 H [E80-TNK-083]	185. kg	0.06	1.30	14.43	103.68	1,496	0.08	14	0.03	5	5.28	977	13.47	2,492
E80-50-3105.00	2nd Molybdenum Cleaner Concentrate Vertical Pump c/w motor 1kW, 25 [E80-PSL-043]	1. ea	20.00	1.30	26.00	103.68	2,696	14.40	14	14.40	14	10,080.00	10,080	12,804.48	12,804
E80-50-3106.00	2nd Molybdenum Cleaner Concentrate Sampler [E80-SMP-344]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E80-50-3107.00	3rd Molybdenum Cleaner Column Cell, 1000 D x 4000 H [E80-CEL-063]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	240.00	240	198,883.20	198,883	239,798.39	239,798
E80-50-3108.00	3rd Molybdenum Cleaner Tailings Pumpbox [E80-PBX-095]	185. kg	0.06	1.30	14.43	103.68	1,496	0.08	14	0.03	5	5.28	977	13.47	2,492
E80-50-3109.00	3rd Molybdenum Cleaner Tailings Pump No.1 c/w motor 1kW, 25 X 25 [E80-PSL-052]	1. ea	15.00	1.30	19.50	103.68	2,022	19.20	19	14.40	14	8,640.00	8,640	10,695.36	10,695



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E80-50-3110.00	3rd Molybdenum Cleaner Tailings Pump No.2 c/w motor 1kW, 25 X 25 [E80-PSL-053]	1. ea	15.00	1.30	19.50	103.68	2,022	19.20	19	14.40	14	8,640.00	8,640	10,695.36	10,695
E80-50-3111.00	3rd Molybdenum Cleaner Concentrate Tank, 900 D x 900 H [E80-TNK-084]	185. kg	0.06	1.30	14.43	103.68	1,496	0.08	14	0.03	5	5.28	977	13.47	2,492
E80-50-3112.00	3rd Molybdenum Cleaner Concentrate Vertical Pump c/w motor 1kW, 25 [E80-PSL-044]	1. ea	20.00	1.30	26.00	103.68	2,696	14.40	14	14.40	14	10,080.00	10,080	12,804.48	12,804
E80-50-3113.00	3rd Molybdenum Cleaner Concentrate Sampler [E80-SMP-345]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E80-50-3114.00	4th Molybdenum Cleaner Column Cell, 1000 D x 4000 H [E80-CEL-064]	1. ea	300.00	1.30	390.00	103.68	40,435	240.00	240	240.00	240	198,883.20	198,883	239,798.39	239,798
E80-50-3115.00	4th Molybdenum Cleaner Tailings Pumpbox [E80-PBX-096]	185. kg	0.06	1.30	14.43	103.68	1,496	0.08	14	0.03	5	5.28	977	13.47	2,492
E80-50-3116.00	4th Molybdenum Cleaner Tailings Pump No.1 c/w motor 1kW, 25 X 25 [E80-PSL-054]	1. ea	15.00	1.30	19.50	103.68	2,022	19.20	19	14.40	14	8,640.00	8,640	10,695.36	10,695
E80-50-3117.00	4th Molybdenum Cleaner Tailings Pump No.2 c/w motor 1kW, 25 X 25 [E80-PSL-055]	1. ea	15.00	1.30	19.50	103.68	2,022	19.20	19	14.40	14	8,640.00	8,640	10,695.36	10,695
E80-50-3118.00	4th Molybdenum Cleaner Concentrate Tank, 900 D x 900 H [E80-TNK-087]	185. kg	0.06	1.30	14.43	103.68	1,496	0.08	14	0.03	5	5.28	977	13.47	2,492
E80-50-3119.00	4th Molybdenum Cleaner Concentrate Vertical Pump c/w motor 1kW, 25 [E80-PSL-051]	1. ea	20.00	1.30	26.00	103.68	2,696	14.40	14	14.40	14	10,080.00	10,080	12,804.48	12,804
E80-50-3120.00	4th Molybdenum Cleaner Concentrate Sampler [E80-SMP-346]	1. ea	20.00	1.30	26.00	103.68	2,696	48.00	48	24.00	24	43,200.00	43,200	45,967.68	45,968
E80-50-3121.00	Molybdenum Recovery Area Crane (30m span, 30m lift), 10T [E80-CRN-015]	1. ea	200.00	1.30	260.00	103.68	26,957	192.00	192	1,920.00	1,920	124,800.00	124,800	153,868.80	153,869
E80-60-3122.00	Piping Allowance 21.00%	1. lot	2,192.00	1.00	2,192.00	103.68	227,267	689,665.31	689,665	20,518.91	20,519	0.00	0	937,450.77	937,451
E80-80-3123.00	Field Instrumentation & Bulks Allowance	1. lot	4,938.00	1.30	6,419.40	103.68	665,563	132,177.60	132,178	21,600.00	21,600	806,399.98	806,400	1,625,740.96	1,625,741
E80-70-3124.00	Electrical Motor Wiring, included in Areas A20/A30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E80 - Molybdenum Circuit Subtotal					13,955.83		1,446,940		826,369		54,950		4,085,994		6,414,254

E90 - Tailings Disposal And Reclaim



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E90-50-3126.00	Splitter Dam Tailings Cyclone Pumpbox [E90-PBX-215]	1,000. kg	0.06	1.30	78.00	103.68	8,087	0.08	77	0.03	29	5.28	5,280	13.47	13,473
E90-50-3127.00	Line 2 Stage 1 Splitter Dam Tailings Cyclone Cluster No.1 [E90-CYC-211]	1. ea	450.00	1.30	585.00	103.68	60,653	384.00	384	3,360.00	3,360	380,207.99	380,208	444,604.79	444,605
E90-50-3128.00	Splitter Dam Cycloning Dilution Water Pump Barge [E90-BAR-260]	1. ea	350.00	1.30	455.00	103.68	47,174	72,000.00	72,000	12,000.00	12,000	815,999.98	816,000	947,174.38	947,174
E90-50-3129.00	Splitter Dam Cycloning Dilution Water Pump No.1, included [E90-PLO-261]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E90-50-3130.00	Splitter Dam Cycloning Dilution Water Pump No.2, included [E90-PLO-262]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E90-50-3131.00	Line 2 Stage 1 Splitter Dam Tailings Cyclone Cluster No.2 [E90-CYC-212]	1. ea	350.00	1.30	455.00	103.68	47,174	336.00	336	2,880.00	2,880	144,960.00	144,960	195,350.40	195,350
E90-50-3132.00	Splitter Dam Tailings Cyclone Pump No.1 [E90-PSL-216]	1. ea	250.00	1.30	325.00	103.68	33,696	96.00	96	72.00	72	120,000.00	120,000	153,864.00	153,864
E90-50-3133.00	Splitter Dam Tailings Cyclone Pump No.2 [E90-PSL-217]	1. ea	250.00	1.30	325.00	103.68	33,696	96.00	96	72.00	72	120,000.00	120,000	153,864.00	153,864
E90-50-3134.00	Saddle Dam Tailings Cyclone Pumpbox No.1 [E90-PBX-241]	1,000. kg	0.06	1.30	78.00	103.68	8,087	0.08	77	0.03	29	5.28	5,280	13.47	13,473
E90-50-3135.00	Line 2 Stage 2 Saddle Dam Tailings Cyclone Cluster [E90-CYC-240]	1. ea	450.00	1.30	585.00	103.68	60,653	384.00	384	3,360.00	3,360	380,207.99	380,208	444,604.79	444,605
E90-50-3136.00	Saddle Dam Tailings Cyclone Pump No.1 [E90-PSL-251]	1. ea	250.00	1.30	325.00	103.68	33,696	96.00	96	72.00	72	120,000.00	120,000	153,864.00	153,864
E90-50-3137.00	Saddle Dam Tailings Cyclone Pumpbox No.2 [E90-PBX-242]	1,000. kg	0.06	1.30	78.00	103.68	8,087	0.08	77	0.03	29	5.28	5,280	13.47	13,473
E90-50-3138.00	Saddle Dam Tailings Cyclone Pump No.2 [E90-PSL-252]	1. ea	250.00	1.30	325.00	103.68	33,696	96.00	96	72.00	72	120,000.00	120,000	153,864.00	153,864
E90-50-3139.00	Line 2 Stage 1 Tailings Cyclone Cluster No.1 [E90-CYC-151]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E90-50-3140.00	Line 2 Stage 2 Tailings Cyclone Cluster No.2 [E90-CYC-152]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E90-50-3141.00	Line 1 Stage 1 Tailings Cyclone Cluster No.1 [E90-CYC-141]	1. ea	450.00	1.30	585.00	103.68	60,653	384.00	384	3,360.00	3,360	380,207.99	380,208	444,604.79	444,605



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E90-50-3142.00	Line 1 Stage 2 Tailings Cyclone Cluster No.2 [E90-CYC-142]	1. ea	350.00	1.30	455.00	103.68	47,174	336.00	336	2,880.00	2,880	144,960.00	144,960	195,350.40	195,350
E90-50-3143.00	Pyrite Tailings Line No.1 Energy Recovery System No.1 [E90-SYS-031]	1. ea	200.00	1.30	260.00	103.68	26,957	96.00	96	480.00	480	239,999.99	240,000	267,532.79	267,533
E90-50-3144.00	Pyrite Tailings Line No.1 Energy Recovery System No.2 [E90-SYS-032]	1. ea	200.00	1.30	260.00	103.68	26,957	96.00	96	480.00	480	239,999.99	240,000	267,532.79	267,533
E90-50-3146.00	Tailings Pond Barge [E90-BAR-001]	1. lot	1,500.00	1.30	1,950.00	103.68	202,176	287,999.99	288,000	48,000.00	48,000	7,199,999.84	7,200,000	7,738,175.83	7,738,176
E90-50-3147.00	Water Reclaim Pond Pump No.1, 550 x 500, included [E90-PLO-021]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E90-50-3148.00	Water Reclaim Pond Pump No.2, 550 x 500, included [E90-PLO-022]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E90-50-3149.00	Water Reclaim Pond Pump No.3, 550 x 500, included [E90-PLO-023]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E90-50-3150.00	Water Reclaim Pond Pump No.4, 550 x 500, included [E90-PLO-024]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E90-50-3151.00	Water Reclaim Pond De-Icing Pump [E90-PLO-010]	1. ea	150.00	1.30	195.00	103.68	20,218	48.00	48	48.00	48	19,200.00	19,200	39,513.60	39,514
E90-50-3153.00	CIL Residue Pond Barge [E90-BAR-101]	1. lot	350.00	1.30	455.00	103.68	47,174	72,000.00	72,000	12,000.00	12,000	815,999.98	816,000	947,174.38	947,174
E90-50-3154.00	CIL Water Reclaim Pond Pump No.1, 200 x 150, included [E90-PLO-121]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E90-50-3155.00	CIL Water Reclaim Pond Pump No.2, 200 x 150, included [E90-PLO-122]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E90-50-3156.00	CIL Residue Barge De-Icing Pump [E90-PLO-110]	1. ea	150.00	1.30	195.00	103.68	20,218	48.00	48	48.00	48	19,200.00	19,200	39,513.60	39,514
E90-50-3157.00	Water Release Pump Barge [E90-BAR-015]	1. lot	350.00	1.30	455.00	103.68	47,174	72,000.00	72,000	12,000.00	12,000	815,999.98	816,000	947,174.38	947,174
E90-50-3158.00	Water Release Pump No.1, included [E90-PLO-011]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E90-50-3159.00	Water Release Pump No.2, included [E90-PLO-012]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
E90-50-3163.00	Reclaimed Water Booster Station	1. lot	1,280.00	1.30	1,664.00	103.68	172,524	287,999.99	288,000	38,400.00	38,400	6,239,999.86	6,240,000	6,738,923.37	6,738,923
E90-50-3164.00	Reclaimed Water Booster Station Pump No.1, 550 x 500, included [E90-PLO-002]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E90-50-3165.00	Reclaimed Water Booster Station Pump No.2, 550 x 500, included [E90-PLO-003]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E90-50-3166.00	Reclaimed Water Booster Station Pump No.3, 550 x 500, included [E90-PLO-004]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E90-50-3167.00	Reclaimed Water Booster Station Pump No.4, 550 x 500, included [E90-PLO-005]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E90-60-3168.00	Pyrite Tailings Lines 1 & 2 (for North Dam and South Dam) including emergency line - SDR21 HDPE; 1015mm (40") dia	10,000. m	10.11	1.30	13,148.148	103.68	13,632,000	408.00	4,080,000	40.80	408,000	0.00	0	1,812.00	18,120,000
E90-60-3169.00	CIL Treated Residue line SDR21 HDPE; 400mm (16") dia	2,500. m	4.10	1.30	13,333.33	103.68	1,382,400	64.90	162,240	6.49	16,224	0.00	0	624.35	1,560,864
E90-60-3170.00	CIL Treated Residue line - 3m dia x 3m high manhole	3. ea	150.00	1.30	585.00	103.68	60,653	24,000.00	72,000	1,440.00	4,320	0.00	0	45,657.60	136,973
E90-60-3171.00	Tailings Reclaim Water line; barge to primary cyclones CS pipe 1200mm (48") dia c/w Fittings	1,200. m	15.43	1.30	24,074.07	103.68	2,496,000	684.62	821,538	68.46	82,154	0.00	0	2,833.08	3,399,692
E90-60-3172.00	Tailings Reclaim Water line; primary cyclones to flotation CS pipe 1050mm (42") dia c/w Fittings	1,400. m	14.25	1.30	25,925.93	103.68	2,688,000	616.62	863,262	61.66	86,326	0.00	0	2,598.28	3,637,588
E90-60-3173.00	Tailings Reclaim Water line; barge to cyclones - valve allowance	1. lot	284.90	1.30	370.37	103.68	38,400	337,919.99	337,920	7,680.00	7,680	0.00	0	383,999.99	384,000
E90-60-3174.00	South Dam Cyclone Dilution Water SDR21 HDPE - 450mm (18") dia and SDR11 HDPE - 450mm (18") dia	1,200. m	4.27	1.30	6,666.67	103.68	691,200	117.44	140,928	11.74	14,093	0.00	0	705.18	846,221
E90-50-3175.00	Seepage Pumps	1. lot	275.00	1.30	357.50	103.68	37,066	96.00	96	240.00	240	192,000.00	192,000	229,401.59	229,402
E90-60-3176.00	Seepage Pumps and piping (2 locations) allowance	1. lot	5,000.00	1.30	6,500.00	103.68	673,920	0.00	0	24,000.00	24,000	1,439,999.97	1,440,000	2,137,919.95	2,137,920
E90-80-3177.00	Field Instrumentation & Bulks Allowance	1. lot	1,944.00	1.30	2,527.20	103.68	262,020	52,430.40	52,430	8,640.00	8,640	316,799.99	316,800	639,890.48	639,890
E90-70-3178.00	Electrical Motor Wiring, included in Areas A20/A30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E90 - Tailings Disposal And Reclaim Subtotal					221,909.55		23,007,582		7,325,141		791,347		20,281,584		51,405,653



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
<u>F11 - Tailings Starter Dams</u>															
F11-1.01-3180.00	North Tailings Dam - Starter Dam; Logging [D-4108]	16.53 ha	20.20	1.00	333.99	103.68	34,628	0.00	0	2,792.64	46,174	0.00	0	4,886.98	80,802
F11-1.01-3181.00	North Tailings Dam - Starter Dam; Clear & Grub [D-4108]	16.53 ha	29.61	1.00	489.58	103.68	50,759	0.00	0	2,977.92	49,238	0.00	0	6,047.88	99,997
F11-1.01-3182.00	North Tailings Dam - Starter Dam; Topsoil to Stockpile [D-4108]	49,602.6 m3	0.04	1.00	1,984.10	103.68	205,712	0.00	0	5.40	268,092	0.00	0	9.55	473,804
F11-1.01-3183.00	North Tailings Dam - Starter Dam; Foundation Sub-Ex [D-4108]	165,342. m3	0.06	1.00	9,920.52	103.68	1,028,559	0.00	0	6.07	1,003,163	0.00	0	12.29	2,031,722
F11-1.01-3184.00	North Tailings Dam - Starter Dam; Foundation Prep [D-4108]	165,342. m2	0.01	1.00	826.71	103.68	85,713	0.00	0	0.57	93,650	0.00	0	1.08	179,363
F11-1.01-3185.00	North Tailings Dam - Starter Dam; Random Fill [D-4109]	3,585,505. m3	0.03	1.00	107,565.15	103.68	11,152,355	0.00	0	3.83	13,733,918	0.00	0	6.94	24,886,273
F11-1.01-3186.00	North Tailings Dam - Starter Dam; Till Core [D-4109]	947,045. m3	0.08	1.00	75,763.60	103.68	7,855,170	0.00	0	9.99	9,464,389	0.00	0	18.29	17,319,559
F11-1.01-3187.00	North Tailings Dam - Starter Dam; Core Bentonite Add [D-4109]	347,565.52 m3	0.04	1.00	13,902.62	103.68	1,441,424	26.19	9,102,324	5.78	2,008,651	0.00	0	36.12	12,552,398
F11-1.01-3188.00	North Tailings Dam - Starter Dam; Drainage Blanket [D-4109]	124,006.5 m3	0.09	1.00	10,788.57	103.68	1,118,558	0.00	0	11.16	1,383,317	0.00	0	20.18	2,501,876
F11-1.01-3189.00	North Tailings Dam - Starter Dam; Slurry Cut-off Trench Excavation [D-4109]	47,401.2 m3	0.05	1.00	2,161.49	103.68	224,104	2.43	115,265	5.30	251,188	0.00	0	12.46	590,557
F11-1.01-3190.00	North Tailings Dam - Starter Dam; Finger Drain Core [D-4109]	17,205.14 m3	0.10	1.00	1,634.49	103.68	169,464	0.00	0	12.50	215,050	0.00	0	22.35	384,514
F11-1.01-3191.00	North Tailings Dam - Starter Dam; Finger Drain Filter [D-4109]	13,764.11 m3	0.10	1.00	1,307.59	103.68	135,571	0.00	0	12.50	172,040	0.00	0	22.35	307,611
F11-1.01-3192.00	Splitter Tailings Dam - Starter Dam; Logging [D-4110]	20.08 ha	20.20	1.00	405.68	103.68	42,061	0.00	0	2,792.64	56,086	0.00	0	4,886.98	98,147
F11-1.01-3193.00	Splitter Tailings Dam - Starter Dam; Clear & Grub [D-4110]	20.08 ha	29.61	1.00	594.67	103.68	61,655	0.00	0	2,977.92	59,807	0.00	0	6,047.88	121,462
F11-1.01-3194.00	Splitter Tailings Dam - Starter Dam; Topsoil to Stockpile [D-4110]	60,250.2 m3	0.04	1.00	2,410.01	103.68	249,870	0.00	0	5.40	325,640	0.00	0	9.55	575,510
F11-1.01-3195.00	Splitter Tailings Dam - Starter Dam; Foundation Sub-Ex [D-4110]	200,834. m3	0.04	1.00	8,033.36	103.68	832,899	0.00	0	4.65	933,155	0.00	0	8.79	1,766,054



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F11-1.01-3196.00	Splitter Tailings Dam - Starter Dam; Foundation Prep [D-4111]	200,834. m2	0.01	1.00	1,004.17	103.68	104,112	0.00	0	0.57	113,752	0.00	0	1.08	217,865
F11-1.01-3197.00	Splitter Tailings Dam - Starter Dam; Random Fill [D-4111]	3,739,451. m3	0.03	1.00	112,183.53	103.68	11,631,188	0.00	0	3.83	14,323,593	0.00	0	6.94	25,954,781
F11-1.01-3198.00	Splitter Tailings Dam - Starter Dam; Till Core [D-4111]	1,079,644. m3	0.08	1.00	86,371.52	103.68	8,954,999	0.00	0	9.85	10,634,061	0.00	0	18.14	19,589,060
F11-1.01-3199.00	Splitter Tailings Dam - Starter Dam; HDPE Liner [D-4111]	81,064.8 m2	0.06	1.00	4,944.95	103.68	512,693	7.68	622,578	0.49	39,689	0.00	0	14.49	1,174,960
F11-1.01-3200.00	Splitter Tailings Dam - Starter Dam; Random Fill [D-4111]	863,462. m3	0.03	1.00	28,407.90	103.68	2,945,331	0.00	0	5.86	5,056,433	0.00	0	9.27	8,001,764
F11-1.01-3201.00	Splitter Tailings Dam - Starter Dam; Slurry Cut-off Wall [D-4111]	12,600. m3	0.07	1.00	882.00	103.68	91,446	34.92	440,052	6.71	84,551	0.00	0	48.89	616,049
F11-1.01-3202.00	Saddle Tailings Dam - Starter Dam; Logging [D-4112]	14.96 ha	20.20	1.00	302.20	103.68	31,332	0.00	0	2,792.64	41,779	0.00	0	4,886.98	73,111
F11-1.01-3203.00	Saddle Tailings Dam - Starter Dam; Clear & Grub [D-4112]	14.96 ha	29.61	1.00	442.98	103.68	45,928	0.00	0	2,977.92	44,551	0.00	0	6,047.88	90,479
F11-1.01-3204.00	Saddle Tailings Dam - Starter Dam; Topsoil to Stockpile [D-4112]	44,881.2 m3	0.04	1.00	1,795.25	103.68	186,131	0.00	0	5.40	242,574	0.00	0	9.55	428,705
F11-1.01-3205.00	Saddle Tailings Dam - Starter Dam; Foundation Sub-Ex [D-4112]	149,604. m3	0.04	1.00	5,984.16	103.68	620,438	0.00	0	4.65	695,120	0.00	0	8.79	1,315,558
F11-1.01-3206.00	Saddle Tailings Dam - Starter Dam; Foundation Prep [D-4113]	149,604. m2	0.01	1.00	748.02	103.68	77,555	0.00	0	0.57	84,736	0.00	0	1.08	162,290
F11-1.01-3207.00	Saddle Tailings Dam - Starter Dam; Random Fill [D-4113]	2,088,397. m3	0.03	1.00	62,651.91	103.68	6,495,750	0.00	0	3.83	7,999,396	0.00	0	6.94	14,495,146
F11-1.01-3208.00	Saddle Tailings Dam - Starter Dam; Till Core [D-4113]	749,087. m3	0.08	1.00	59,926.96	103.68	6,213,227	0.00	0	9.85	7,378,207	0.00	0	18.14	13,591,434
F11-1.01-3209.00	Saddle Tailings Dam - Starter Dam; HDPE Liner [D-4113]	58,141. m2	0.06	1.00	3,546.60	103.68	367,712	7.68	446,523	0.49	28,466	0.00	0	14.49	842,700
F11-1.01-3210.00	Saddle Tailings Dam - Starter Dam; Drainage Blanket [D-4113]	112,203. m3	0.09	1.00	10,098.27	103.68	1,046,989	0.00	0	11.16	1,251,647	0.00	0	20.49	2,298,635
F11-1.01-3211.00	Saddle Tailings Dam - Starter Dam; Finger Drain Core [D-4113]	18,569.94 m3	0.09	1.00	1,671.29	103.68	173,280	0.00	0	11.16	207,151	0.00	0	20.49	380,431



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F11-1.01-3212.00	Saddle Tailings Dam - Starter Dam; Finger Drain Filter [D-4113]	14,855.95 m3	0.09	1.00	1,337.04	103.68	138,624	0.00	0	11.16	165,721	0.00	0	20.49	304,345
F11-1.01-3213.00	[Y25] - South East Tailings Starter Dam; Logging, (Sustaining Capital CAD\$194,405) [D-4110]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F11-1.01-3214.00	[Y25] - South East Tailings Starter Dam; Clear & Grub, (Sustaining Capital CAD\$240,586) [D-4110]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F11-1.01-3215.00	[Y25] - South East Tailings Starter Dam; Topsoil to Stockpile, (Sustaining Capital CAD\$1,050,579) [D-4110]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F11-1.01-3216.00	[Y25] - South East Tailings Starter Dam; Foundation Sub-Ex, (Sustaining Capital CAD\$3,498,112) [D-4110]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F11-1.01-3217.00	[Y25] - South East Tailings Starter Dam; Foundation Prep, (Sustaining Capital CAD\$431,536) [D-4111]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F11-1.01-3218.00	[Y25] - South East Tailings Starter Dam; Fill - Type 4, (Sustaining Capital CAD\$89,080,693) [D-4111]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F11-1.01-3219.00	[Y25] - South East Tailings Starter Dam; Till Core, (Sustaining Capital CAD\$32,589,157) [D-4111]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F11-1.01-3220.00	[Y25] - South East Tailings Starter Dam; Core Bentonite Add, (Sustaining Capital CAD\$23,806,534) [D-4111]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F11-1.01-3221.00	[Y25] - South East Tailings Starter Dam; Drainage Blanket, (Sustaining Capital CAD\$6,732,530) [D-4111]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F11-1.01-3222.00	[Y25] - South East Tailings Starter Dam; Finger Drain Core, (Sustaining Capital CAD\$582,590) [D-4111]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F11-1.01-3223.00	[Y25] - South East Tailings Starter Dam; Finger Drain Filter, (Sustaining Capital CAD\$466,072) [D-4111]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F11-1.01-3224.00	[Y25] - South East Tailings Starter Dam; Slurry Cut-off Wall, (Sustaining Capital CAD\$1,082,263) [D-4111]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F11 - Tailings Starter Dams Subtotal					620,420.88		64,325,236		10,726,741		78,454,986		0		153,506,963
F12 - Tailings Basin, Site Dewatering and Road Construction															
F12-1.01-3226.00	Site Construction Roads; Pioneer & Constructionruct Access Rds	23. km	541.80	1.00	12,461.40	103.68	1,291,998	0.00	0	65,791.94	1,513,215	0.00	0	121,965.76	2,805,212
F12-1.01-3227.00	Site De-Water; De-Water 15 Months	15. mo	1,350.00	1.00	20,250.00	103.68	2,099,520	0.00	0	34,367.04	515,506	0.00	0	174,335.04	2,615,026



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F12-1.01-3228.00	CIL Residue Cell Basin Preparation; Logging [D-4112]	122.97 ha	20.20	1.00	2,483.98	103.68	257,539	0.00	0	2,792.64	343,409	0.00	0	4,886.98	600,948
F12-1.01-3229.00	CIL Residue Cell Basin Preparation; Clear & Grub [D-4112]	122.97 ha	29.61	1.00	3,641.12	103.68	377,512	0.00	0	2,977.92	366,193	0.00	0	6,047.88	743,705
F12-1.01-3230.00	CIL Residue Cell Basin Preparation; Topsoil to Stockpile [D-4112]	1,229,694. m3	0.02	1.00	24,593.88	103.68	2,549,893	0.00	0	3.94	4,840,075	0.00	0	6.01	7,389,969
F12-1.01-3231.00	CIL Residue Cell Basin Preparation; Foundation Sub-Ex [D-4112]	1,229,694. m3	0.04	1.00	49,187.76	103.68	5,099,787	0.00	0	4.65	5,713,650	0.00	0	8.79	10,813,437
F12-1.01-3232.00	CIL Residue Cell Basin Preparation; Foundation Prep [Fig. 1]	1,229,694. m2	0.01	1.00	6,148.47	103.68	637,473	0.00	0	0.57	696,499	0.00	0	1.08	1,333,972
F12-1.01-3233.00	CIL Residue Cell Basin Preparation; Drainage Blanket Underliner Type 5 [Fig. 1]	1,229,694. m3	0.08	1.00	92,227.05	103.68	9,562,100	0.00	0	10.09	12,407,120	0.00	0	17.87	21,969,221
F12-1.01-3234.00	CIL Residue Cell Basin Preparation; Overliner Cushion @ 0.15 m [Fig. 1]	184,454. m3	0.11	1.00	19,367.67	103.68	2,008,040	0.00	0	12.12	2,234,697	0.00	0	23.00	4,242,737
F12-1.01-3235.00	CIL Residue Cell Basin Preparation; Drainage Trench Excavation [Fig. 1]	1,392. m3	0.04	1.00	55.68	103.68	5,773	0.00	0	5.40	7,523	0.00	0	9.55	13,296
F12-1.01-3236.00	CIL Residue Cell Basin Preparation; Collection Piping [Fig. 1]	3,500. Lm	0.10	1.00	343.00	103.68	35,562	7.19	25,166	11.37	39,782	0.00	0	28.72	100,511
F12-1.01-3237.00	CIL Residue Cell Basin Preparation; Sand Backfill [Fig. 1]	1,200. m3	0.01	1.00	6.00	103.68	622	0.00	0	0.57	680	0.00	0	1.08	1,302
F12-1.01-3238.00	CIL Residue Cell Basin Preparation; HDPE Liner [Fig. 1]	1,229,694. m2	0.05	1.00	55,336.23	103.68	5,737,260	7.68	9,444,050	0.32	390,748	0.00	0	12.66	15,572,057
F12-1.01-3239.00	CIL Residue Cell Basin Preparation; HDPE Liner Deadweight Overliner @ 0.85 m [Fig. 1]	1,045,240. m3	0.03	1.00	34,492.92	103.68	3,576,226	0.00	0	5.86	6,120,925	0.00	0	9.28	9,697,151
F12-1.01-3240.00	CIL Residue Cell Basin Preparation; Vertical Relief Wells C/W Raise Pipe [Fig. 1]	9. ea	18.26	1.00	164.34	103.68	17,039	8,592.00	77,328	746.88	6,722	0.00	0	11,232.08	101,089
F12-1.01-3241.00	North Cell Starter Basin Prep; Logging [D-4101]	221.29 ha	20.20	1.00	4,469.97	103.68	463,446	0.00	0	2,792.64	617,971	0.00	0	4,886.98	1,081,417
F12-1.01-3242.00	North Cell Starter Basin Prep; Clear & Grub [D-4101]	221.29 ha	29.61	1.00	6,552.26	103.68	679,339	0.00	0	2,977.92	658,971	0.00	0	6,047.88	1,338,309
F12-1.01-3243.00	North Cell Starter Basin Prep; Topsoil to Stockpile [D-4101]	663,856.5 m3	0.02	1.00	13,277.13	103.68	1,376,573	0.00	0	3.94	2,612,939	0.00	0	6.01	3,989,512



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F12-1.01-3244.00	Upper East Catchment Diversion Dam; Logging [D-4101]	1. ha	26.26	1.00	26.26	103.68	2,723	0.00	0	3,628.80	3,629	0.00	0	6,351.44	6,351
F12-1.01-3245.00	Upper East Catchment Diversion Dam; Clear & Grub [D-4101]	1. ha	38.50	1.00	38.50	103.68	3,992	0.00	0	3,872.64	3,873	0.00	0	7,864.32	7,864
F12-1.01-3246.00	Upper East Catchment Diversion Dam; Topsoil to Stockpile [D-4101]	3,093. m3	0.02	1.00	61.86	103.68	6,414	0.00	0	2.02	6,235	0.00	0	4.09	12,649
F12-1.01-3247.00	Upper East Catchment Diversion Dam; Berm Compaction Tunnel Muck [D-4101]	96,397. m3	0.05	1.00	4,819.85	103.68	499,722	0.00	0	5.58	537,664	0.00	0	10.76	1,037,386
F12-1.01-3248.00	Upper East Catchment Diversion Dam; Geomembrane Liner [D-4101]	5,156. m2	0.01	1.00	25.78	103.68	2,673	2.26	11,632	0.17	891	0.00	0	2.95	15,196
F12-1.01-3249.00	Upper East Catchment Diversion Dam; Rip Rap Armour [D-4101]	2,000. m3	0.12	1.00	240.00	103.68	24,883	0.10	192	12.57	25,133	0.00	0	25.10	50,208
F12-1.01-3250.00	Upper East Catchment Diversion Dam; Rip Rap Bedding Layer [D-4101]	1,000. m3	0.12	1.00	120.00	103.68	12,442	0.10	96	12.57	12,566	0.00	0	25.10	25,104
F12-1.01-3251.00	Lower East Catchment Diversion Dam; Logging [D-4101]	1.9 ha	26.26	1.00	49.89	103.68	5,173	0.00	0	3,628.80	6,895	0.00	0	6,351.44	12,068
F12-1.01-3252.00	Lower East Catchment Diversion Dam; Clear & Grub [D-4101]	1.9 ha	38.50	1.00	73.15	103.68	7,584	0.00	0	3,872.64	7,358	0.00	0	7,864.32	14,942
F12-1.01-3253.00	Lower East Catchment Diversion Dam; Topsoil to Stockpile [D-4101]	5,625. m3	0.02	1.00	112.50	103.68	11,664	0.00	0	2.02	11,340	0.00	0	4.09	23,004
F12-1.01-3254.00	Lower East Catchment Diversion Dam; Berm Compaction Tunnel Muck [D-4101]	172,981. m3	0.05	1.00	8,649.05	103.68	896,733	0.00	0	5.58	964,819	0.00	0	10.76	1,861,552
F12-1.01-3255.00	Lower East Catchment Diversion Dam; Geomembrane Liner [D-4101]	9,625. m2	0.01	1.00	48.13	103.68	4,990	2.26	21,714	0.17	1,663	0.00	0	2.95	28,367
F12-1.01-3256.00	Lower East Catchment Diversion Dam; Rip Rap Armour [D-4101]	6,100. m3	0.12	1.00	732.00	103.68	75,894	0.10	586	12.57	76,655	0.00	0	25.10	153,134
F12-1.01-3257.00	Lower East Catchment Diversion Dam; Rip Rap Bedding Layer [D-4101]	3,050. m3	0.12	1.00	366.00	103.68	37,947	0.10	293	12.57	38,328	0.00	0	25.10	76,567
F12-1.01-3258.00	[Y25] - South Cell Starter Basin Prep; Logging, (Sustaining Capital CAD\$1,377,711) [D-4101]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F12-1.01-3259.00	[Y25] - South Cell Starter Basin Prep; Clear & Grub, (Sustaining Capital CAD\$1,704,988) [D-4101]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F12-1.01-3260.00	[Y25] - South Cell Starter Basin Prep; Topsoil to Stockpile, (Sustaining Capital CAD\$4,489,888) [D-4101]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F12-1.01-3261.00	Saddle Seepage Recovery Dam Construction Sediment Pond; Clear & Grub	.3 ha	29.61	1.00	8.88	103.68	921	0.00	0	2,977.92	893	0.00	0	6,047.88	1,814
F12-1.01-3262.00	Saddle Seepage Recovery Dam Construction Sediment Pond; Sediment Treatment Polymer Dosing System	1. LS	161.16	1.00	161.16	103.68	16,709	12,473.15	12,473	8,888.81	8,889	0.00	0	38,071.02	38,071
F12-1.01-3263.00	Saddle Seepage Recovery Dam Construction Sediment Pond; Topsoil to Stockpile	750. m3	0.02	1.00	15.00	103.68	1,555	0.00	0	2.02	1,512	0.00	0	4.09	3,067
F12-1.01-3264.00	Saddle Seepage Recovery Dam Construction Sediment Pond; Common Excavation	8,250. m3	0.04	1.00	330.00	103.68	34,214	0.00	0	4.68	38,650	0.00	0	8.83	72,864
F12-1.01-3265.00	Saddle Seepage Recovery Dam Construction Sediment Pond; Drain Rock	5. m3	0.10	1.00	0.50	103.68	52	0.00	0	12.51	63	0.00	0	22.88	114
F12-1.01-3266.00	Saddle Seepage Recovery Dam Construction Sediment Pond; HDPE Pipe	20. Lm	0.68	1.00	13.60	103.68	1,410	292.80	5,856	69.68	1,394	0.00	0	432.98	8,660
F12-1.01-3267.00	Saddle Seepage Recovery Dam Construction Sediment Pond; Rip Rap Bedding Layer	10. m3	0.12	1.00	1.20	103.68	124	0.10	1	12.57	126	0.00	0	25.10	251
F12-1.01-3268.00	Saddle Seepage Recovery Dam Construction Sediment Pond; Diversion Common Excavation	1,500. m3	0.05	1.00	72.00	103.68	7,465	0.00	0	6.51	9,763	0.00	0	11.49	17,228
F12-1.01-3269.00	Splitter Dam Construction Sediment Pond; Clear & Grub	.3 ha	29.61	1.00	8.88	103.68	921	0.00	0	2,977.92	893	0.00	0	6,047.88	1,814
F12-1.01-3270.00	Splitter Dam Construction Sediment Pond; Sediment Treatment Polymer Dosing System	1. LS	161.16	1.00	161.16	103.68	16,709	12,473.15	12,473	8,888.81	8,889	0.00	0	38,071.02	38,071
F12-1.01-3271.00	Splitter Dam Construction Sediment Pond; Topsoil to Stockpile	750. m3	0.02	1.00	15.00	103.68	1,555	0.00	0	2.02	1,512	0.00	0	4.09	3,067
F12-1.01-3272.00	Splitter Dam Construction Sediment Pond; Common Excavation	8,250. m3	0.04	1.00	330.00	103.68	34,214	0.00	0	4.68	38,650	0.00	0	8.83	72,864
F12-1.01-3273.00	Splitter Dam Construction Sediment Pond; Drain Rock	5. m3	0.10	1.00	0.50	103.68	52	0.00	0	12.51	63	0.00	0	22.88	114
F12-1.01-3274.00	Splitter Dam Construction Sediment Pond; HDPE Pipe	20. Lm	0.68	1.00	13.60	103.68	1,410	292.80	5,856	69.68	1,394	0.00	0	432.98	8,660
F12-1.01-3275.00	Splitter Dam Construction Sediment Pond; Rip Rap Bedding Layer	10. m3	0.12	1.00	1.20	103.68	124	0.10	1	12.57	126	0.00	0	25.10	251



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F12-1.01-3276.00	Splitter Dam Construction Sediment Pond; Diversion Common Excavation	1,500. m3	0.05	1.00	72.00	103.68	7,465	0.00	0	6.51	9,763	0.00	0	11.49	17,228
F12 - Tailings Basin, Site Dewatering and Road Construction Subtotal					361,626.52		37,493,437		9,617,717		40,906,250		0		88,017,404
<u>F13 - Diversion and Seepage Collection Ponds</u>															
F13-1.01-3278.00	North Dam Borrow Area Construction Sediment Pond; Clear & Grub	1.5 ha	29.61	1.00	44.42	103.68	4,605	0.00	0	2,977.92	4,467	0.00	0	6,047.88	9,072
F13-1.01-3279.00	North Dam Borrow Area Construction Sediment Pond; Sediment Treatment Polymer Dosing System	1. LS	228.68	1.00	228.68	103.68	23,710	19,645.20	19,645	13,999.87	14,000	0.00	0	57,355.02	57,355
F13-1.01-3280.00	North Dam Borrow Area Construction Sediment Pond; Topsoil to Stockpile	4,500. m3	0.02	1.00	90.00	103.68	9,331	0.00	0	2.02	9,072	0.00	0	4.09	18,403
F13-1.01-3281.00	North Dam Borrow Area Construction Sediment Pond; Common Excavation	49,500. m3	0.04	1.00	1,980.00	103.68	205,286	0.00	0	4.68	231,898	0.00	0	8.83	437,184
F13-1.01-3282.00	North Dam Borrow Area Construction Sediment Pond; Drain Rock	5. m3	0.10	1.00	0.50	103.68	52	0.00	0	12.51	63	0.00	0	22.88	114
F13-1.01-3283.00	North Dam Borrow Area Construction Sediment Pond; HDPE Pipe	20. Lm	0.68	1.00	13.60	103.68	1,410	292.80	5,856	69.68	1,394	0.00	0	432.98	8,660
F13-1.01-3284.00	North Dam Borrow Area Construction Sediment Pond; Rip Rap Bedding Layer	10. m3	0.12	1.00	1.20	103.68	124	0.10	1	12.57	126	0.00	0	25.10	251
F13-1.01-3285.00	North Dam Borrow Area Construction Sediment Pond; Diversion Common Excavation	15,000. m3	0.05	1.00	720.00	103.68	74,650	0.00	0	6.51	97,632	0.00	0	11.49	172,282
F13-1.01-3286.00	Saddle Dam Borrow Area Construction Sediment Pond; Clear & Grub	1.5 ha	29.61	1.00	44.42	103.68	4,605	0.00	0	2,977.92	4,467	0.00	0	6,047.88	9,072
F13-1.01-3287.00	Saddle Dam Borrow Area Construction Sediment Pond; Sediment Treatment Polymer Dosing System	1. LS	228.68	1.00	228.68	103.68	23,710	19,645.20	19,645	13,999.87	14,000	0.00	0	57,355.02	57,355
F13-1.01-3288.00	Saddle Dam Borrow Area Construction Sediment Pond; Topsoil to Stockpile	4,500. m3	0.02	1.00	90.00	103.68	9,331	0.00	0	2.02	9,072	0.00	0	4.09	18,403
F13-1.01-3289.00	Saddle Dam Borrow Area Construction Sediment Pond; Common Excavation	49,500. m3	0.04	1.00	1,980.00	103.68	205,286	0.00	0	4.68	231,898	0.00	0	8.83	437,184
F13-1.01-3290.00	Saddle Dam Borrow Area Construction Sediment Pond; Drain Rock	5. m3	0.10	1.00	0.50	103.68	52	0.00	0	12.51	63	0.00	0	22.88	114
F13-1.01-3291.00	Saddle Dam Borrow Area Construction Sediment Pond; HDPE Pipe	20. Lm	0.68	1.00	13.60	103.68	1,410	292.80	5,856	69.68	1,394	0.00	0	432.98	8,660



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F13-1.01-3292.00	Saddle Dam Borrow Area Construction Sediment Pond; Rip Rap Bedding Layer	10. m3	0.12	1.00	1.20	103.68	124	0.10	1	12.57	126	0.00	0	25.10	251
F13-1.01-3293.00	Saddle Dam Borrow Area Construction Sediment Pond; Diversion Common Excavation	15,000. m3	0.05	1.00	720.00	103.68	74,650	0.00	0	6.51	97,632	0.00	0	11.49	172,282
F13-1.01-3294.00	North Seepage Recovery Dam Construction Sediment Pond; Clear & Grub	.3 ha	29.61	1.00	8.88	103.68	921	0.00	0	2,977.92	893	0.00	0	6,047.88	1,814
F13-1.01-3295.00	North Seepage Recovery Dam Construction Sediment Pond; Sediment Treatment Polymer Dosing System	1. LS	161.16	1.00	161.16	103.68	16,709	12,473.15	12,473	8,888.81	8,889	0.00	0	38,071.02	38,071
F13-1.01-3296.00	North Seepage Recovery Dam Construction Sediment Pond; Topsoil to Stockpile	750. m3	0.02	1.00	15.00	103.68	1,555	0.00	0	2.02	1,512	0.00	0	4.09	3,067
F13-1.01-3297.00	North Seepage Recovery Dam Construction Sediment Pond; Common Excavation	8,250. m3	0.04	1.00	330.00	103.68	34,214	0.00	0	4.68	38,650	0.00	0	8.83	72,864
F13-1.01-3298.00	North Seepage Recovery Dam Construction Sediment Pond; Drain Rock	5. m3	0.10	1.00	0.50	103.68	52	0.00	0	12.51	63	0.00	0	22.88	114
F13-1.01-3299.00	North Seepage Recovery Dam Construction Sediment Pond; HDPE Pipe	20. Lm	0.68	1.00	13.60	103.68	1,410	292.80	5,856	69.68	1,394	0.00	0	432.98	8,660
F13-1.01-3300.00	North Seepage Recovery Dam Construction Sediment Pond; Rip Rap Bedding Layer	10. m3	0.12	1.00	1.20	103.68	124	0.10	1	12.57	126	0.00	0	25.10	251
F13-1.01-3301.00	North Seepage Recovery Dam Construction Sediment Pond; Diversion Common Excavation	1,500. m3	0.05	1.00	72.00	103.68	7,465	0.00	0	6.51	9,763	0.00	0	11.49	17,228
F13-1.01-3302.00	Mitchell Teigen Tunnel (Teigen Mine Portal N-PAG Pad); Logging	1. ha	20.20	1.00	20.20	103.68	2,094	0.00	0	2,792.64	2,793	0.00	0	4,886.98	4,887
F13-1.01-3303.00	Mitchell Teigen Tunnel (Teigen Mine Portal N-PAG Pad); Clear & Grub	1. ha	29.61	1.00	29.61	103.68	3,070	0.00	0	2,977.92	2,978	0.00	0	6,047.88	6,048
F13-1.01-3304.00	Mitchell Teigen Tunnel (Teigen Mine Portal N-PAG Pad); Topsoil to Stockpile	3,000. m3	0.04	1.00	120.00	103.68	12,442	0.00	0	5.06	15,178	0.00	0	9.21	27,619
F13-1.01-3305.00	Mitchell Teigen Tunnel (Teigen Mine Portal N-PAG Pad); Bedding Layer	5,070. m3	0.05	1.00	253.50	103.68	26,283	0.00	0	5.58	28,278	0.00	0	10.76	54,561
F13-1.01-3306.00	Mitchell Teigen Tunnel (Teigen Portal) N-PAG Tunnel Sediment Treatment Pond; Clear & Grub	.69 ha	29.61	1.00	20.43	103.68	2,118	0.00	0	2,977.92	2,055	0.00	0	6,047.88	4,173
F13-1.01-3307.00	Mitchell Teigen Tunnel (Teigen Portal) N-PAG Tunnel Sediment Treatment Pond; Sediment treatment-polymer dosing system (30 L/s)	1. LS	212.25	1.00	212.25	103.68	22,006	12,840.00	12,840	9,150.24	9,150	0.00	0	43,996.32	43,996



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F13-1.01-3308.00	Mitchell Teigen Tunnel (Teigen Portal) N-PAG Tunnel Sediment Treatment Pond; Topsoil to Stockpile	216. m3	0.04	1.00	8.64	103.68	896	0.00	0	5.06	1,093	0.00	0	9.21	1,989
F13-1.01-3309.00	Mitchell Teigen Tunnel (Teigen Portal) N-PAG Tunnel Sediment Treatment Pond; Common Excavation	2,376. m3	0.04	1.00	95.04	103.68	9,854	0.00	0	4.03	9,580	0.00	0	8.18	19,434
F13-1.01-3310.00	Mitchell Teigen Tunnel (Teigen Portal) N-PAG Tunnel Sediment Treatment Pond; Drain Rock	5. m3	0.10	1.00	0.50	103.68	52	0.00	0	12.51	63	0.00	0	22.88	114
F13-1.01-3311.00	Mitchell Teigen Tunnel (Teigen Portal) N-PAG Tunnel Sediment Treatment Pond; HDPE 400mm Perforated Pipe	20. Lm	0.68	1.00	13.60	103.68	1,410	262.08	5,242	34.84	697	0.00	0	367.42	7,348
F13-1.01-3312.00	Mitchell Teigen Tunnel (Teigen Portal) N-PAG Tunnel Sediment Treatment Pond; Rip Rap Filter Bedding	10. m3	0.05	1.00	0.46	103.68	48	0.00	0	5.88	59	0.00	0	10.64	106
F13-1.01-3313.00	Mitchell Teigen Tunnel (Teigen Portal) N-PAG Tunnel Sediment Treatment Pond; Common Excavation	3,000. m3	0.04	1.00	120.00	103.68	12,442	0.00	0	4.03	12,096	0.00	0	8.18	24,538
F13-1.01-3314.00	East Catchment Stage 1 Tunnel Inlet N-PAG Pad; Logging	1. ha	20.20	1.00	20.20	103.68	2,094	0.00	0	2,792.64	2,793	0.00	0	4,886.98	4,887
F13-1.01-3315.00	East Catchment Stage 1 Tunnel Inlet N-PAG Pad; Clear & Grub	1. ha	29.61	1.00	29.61	103.68	3,070	0.00	0	2,977.92	2,978	0.00	0	6,047.88	6,048
F13-1.01-3316.00	East Catchment Stage 1 Tunnel Inlet N-PAG Pad; Topsoil to Stockpile	3,000. m3	0.04	1.00	120.00	103.68	12,442	0.00	0	5.06	15,178	0.00	0	9.21	27,619
F13-1.01-3317.00	East Catchment Stage 1 Tunnel Inlet N-PAG Pad; Pioneer & Constructionruct Roads	.15 km	541.80	1.00	81.27	103.68	8,426	0.00	0	65,791.94	9,869	0.00	0	121,965.76	18,295
F13-1.01-3318.00	East Catchment Stage 1 Tunnel Outlet N-PAG Pad; Logging	1. ha	20.20	1.00	20.20	103.68	2,094	0.00	0	2,792.64	2,793	0.00	0	4,886.98	4,887
F13-1.01-3319.00	East Catchment Stage 1 Tunnel Outlet N-PAG Pad; Clear & Grub	1. ha	29.61	1.00	29.61	103.68	3,070	0.00	0	2,977.92	2,978	0.00	0	6,047.88	6,048
F13-1.01-3320.00	East Catchment Stage 1 Tunnel Outlet N-PAG Pad; Topsoil to Stockpile	3,000. m3	0.04	1.00	120.00	103.68	12,442	0.00	0	5.06	15,178	0.00	0	9.21	27,619
F13-1.01-3321.00	East Catchment Stage 1 Tunnel Outlet N-PAG Pad; Pioneer & Constructionruct Roads	.6 km	541.80	1.00	325.08	103.68	33,704	0.00	0	65,791.94	39,475	0.00	0	121,965.76	73,179
F13-1.01-3322.00	East Catchment Stage 1 Tunnel Inlet N-PAG Pad Sediment Pond; Clear & Grub	.36 ha	29.61	1.00	10.66	103.68	1,105	0.00	0	2,977.92	1,072	0.00	0	6,047.88	2,177
F13-1.01-3323.00	East Catchment Stage 1 Tunnel Inlet N-PAG Pad Sediment Pond; Sedimentiment treatment-polymer dosing system (30 L/s)	1. LS	212.25	1.00	212.25	103.68	22,006	12,840.00	12,840	9,150.24	9,150	0.00	0	43,996.32	43,996



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F13-1.01-3324.00	East Catchment Stage 1 Tunnel Inlet N-PAG Pad Sediment Pond; Topsoil to Stockpile	180. m3	0.04	1.00	7.20	103.68	746	0.00	0	5.06	911	0.00	0	9.21	1,657
F13-1.01-3325.00	East Catchment Stage 1 Tunnel Inlet N-PAG Pad Sediment Pond; Common Excavation	1,980. m3	0.04	1.00	79.20	103.68	8,211	0.00	0	4.03	7,983	0.00	0	8.18	16,195
F13-1.01-3326.00	East Catchment Stage 1 Tunnel Inlet N-PAG Pad Sediment Pond; Drain Rock	5. m3	0.10	1.00	0.50	103.68	52	0.00	0	12.51	63	0.00	0	22.88	114
F13-1.01-3327.00	East Catchment Stage 1 Tunnel Inlet N-PAG Pad Sediment Pond; HDPE 400mm Perforated Pipe	20. Lm	0.68	1.00	13.60	103.68	1,410	262.08	5,242	34.84	697	0.00	0	367.42	7,348
F13-1.01-3328.00	East Catchment Stage 1 Tunnel Inlet N-PAG Pad Sediment Pond; Rip Rap Filter Bedding	10. m3	0.05	1.00	0.46	103.68	48	0.00	0	5.88	59	0.00	0	10.64	106
F13-1.01-3329.00	East Catchment Stage 1 Tunnel Inlet N-PAG Pad Sediment Pond; Common Excavation	3,000. m3	0.04	1.00	120.00	103.68	12,442	0.00	0	4.03	12,096	0.00	0	8.18	24,538
F13-1.01-3330.00	East Catchment Stage 1 Tunnel Outlet N-PAG Pad Sediment Pond; Clear & Grub	.36 ha	29.61	1.00	10.66	103.68	1,105	0.00	0	2,977.92	1,072	0.00	0	6,047.88	2,177
F13-1.01-3331.00	East Catchment Stage 1 Tunnel Outlet N-PAG Pad Sediment Pond; Sediment treatment-polymer dosing system (30 L/s)	1. LS	212.25	1.00	212.25	103.68	22,006	12,840.00	12,840	9,150.24	9,150	0.00	0	43,996.32	43,996
F13-1.01-3332.00	East Catchment Stage 1 Tunnel Outlet N-PAG Pad Sediment Pond; Topsoil to Stockpile	180. m3	0.04	1.00	7.20	103.68	746	0.00	0	5.06	911	0.00	0	9.21	1,657
F13-1.01-3333.00	East Catchment Stage 1 Tunnel Outlet N-PAG Pad Sediment Pond; Common Excavation	1,980. m3	0.04	1.00	79.20	103.68	8,211	0.00	0	4.03	7,983	0.00	0	8.18	16,195
F13-1.01-3334.00	East Catchment Stage 1 Tunnel Outlet N-PAG Pad Sediment Pond; Drain Rock	5. m3	0.10	1.00	0.50	103.68	52	0.00	0	12.51	63	0.00	0	22.88	114
F13-1.01-3335.00	East Catchment Stage 1 Tunnel Outlet N-PAG Pad Sediment Pond; HDPE 400mm Perforated Pipe	20. Lm	0.68	1.00	13.60	103.68	1,410	262.08	5,242	34.84	697	0.00	0	367.42	7,348
F13-1.01-3336.00	East Catchment Stage 1 Tunnel Outlet N-PAG Pad Sediment Pond; Rip Rap Filter Bedding	10. m3	0.05	1.00	0.46	103.68	48	0.00	0	5.88	59	0.00	0	10.64	106
F13-1.01-3337.00	East Catchment Stage 1 Tunnel Outlet N-PAG Pad Sediment Pond; Common Excavation	3,000. m3	0.04	1.00	120.00	103.68	12,442	0.00	0	4.03	12,096	0.00	0	8.18	24,538
F13-1.01-3338.00	[Y25] - East Catchment Stage 2 Tunnel Outlet N-PAG Pad Sediment Pond; Clear & Grub, (Sustaining Capital CAD\$2,268)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3339.00	[Y25] - East Catchment Stage 2 Tunnel Outlet N-PAG Pad Sediment Pond; Drain Rock, (Sustaining Capital CAD\$119)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F13-1.01-3340.00	[Y25] - East Catchment Stage 2 Tunnel Outlet N-PAG Pad Sediment Pond; HDPE 400mm Perforated Pipe, (Sustaining Capital CAD\$7,655)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3341.00	[Y25] - East Catchment Stage 2 Tunnel Outlet N-PAG Pad Sediment Pond; Rip Rap Filter Bedding, (Sustaining Capital CAD\$111)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3342.00	[Y25] - East Catchment Stage 2 Tunnel Outlet N-PAG Pad Sediment Pond; Common Excavation, (Sustaining Capital CAD\$12,780)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3343.00	[Y25] - East Catchment Stage 2 Tunnel Outlet N-PAG Pad Sediment Pond; PVC 150mm Pipe, (Sustaining Capital CAD\$32,340)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3344.00	[Y25] - East Catchment Stage 2 Tunnel Outlet N-PAG Pad Sediment Pond; Energy Dissipator, (Sustaining Capital CAD\$59,296)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3345.00	TMF Plant Site Construction Sediment Pond; Clear & Grub	1.5 ha	29.61	1.00	44.42	103.68	4,605	0.00	0	2,977.92	4,467	0.00	0	6,047.88	9,072
F13-1.01-3346.00	TMF Plant Site Construction Sediment Pond; Sedimentation treatment-polymer dosing system (87 L/s)	1. ls	224.20	1.00	224.20	103.68	23,245	19,260.00	19,260	13,725.36	13,725	0.00	0	56,230.41	56,230
F13-1.01-3347.00	TMF Plant Site Construction Sediment Pond; Topsoil to Stockpile	4,500. m3	0.04	1.00	180.00	103.68	18,662	0.00	0	5.06	22,766	0.00	0	9.21	41,429
F13-1.01-3348.00	TMF Plant Site Construction Sediment Pond; Common Excavation	49,500. m3	0.04	1.00	1,980.00	103.68	205,286	0.00	0	4.03	199,584	0.00	0	8.18	404,870
F13-1.01-3349.00	TMF Plant Site Construction Sediment Pond; Drain Rock	5. m3	0.11	1.00	0.55	103.68	57	0.00	0	16.32	82	0.00	0	27.72	139
F13-1.01-3350.00	TMF Plant Site Construction Sediment Pond; HDPE 400mm Perforated Pipe	20. lm	0.68	1.00	13.60	103.68	1,410	262.08	5,242	34.84	697	0.00	0	367.42	7,348
F13-1.01-3351.00	TMF Plant Site Construction Sediment Pond; Rip Rap Filter Bedding	10. m3	0.05	1.00	0.46	103.68	48	0.00	0	5.88	59	0.00	0	10.64	106
F13-1.01-3352.00	TMF Plant Site Construction Sediment Pond; Common Excavation	15,000. m3	0.04	1.00	600.00	103.68	62,208	0.00	0	4.03	60,480	0.00	0	8.18	122,688
F13-1.01-3353.00	[Y23] - Southeast Dam Borrow No. 1 Construction Sediment Pond; Clear & Grub, (Sustaining Capital CAD\$9,450)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3354.00	[Y23] - Southeast Dam Borrow No. 1 Construction Sediment Pond; Sediment Treatment Polymer Dosing System, (Sustaining Capital CAD\$59,745)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3355.00	[Y23] - Southeast Dam Borrow No. 1 Construction Sediment Pond; Topsoil to Stockpile, (Sustaining Capital CAD\$19,170)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F13-1.01-3356.00	[Y23] - Southeast Dam Borrow No. 1 Construction Sediment Pond; Common Excavation, (Sustaining Capital CAD\$680,130)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3357.00	[Y23] - Southeast Dam Borrow No. 1 Construction Sediment Pond; Drain Rock, (Sustaining Capital CAD\$119)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3358.00	[Y23] - Southeast Dam Borrow No. 1 Construction Sediment Pond; HDPE Pipe, (Sustaining Capital CAD\$243)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3359.00	[Y23] - Southeast Dam Borrow No. 1 Construction Sediment Pond; Riprap Bedding Layer, (Sustaining Capital CAD\$374)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3360.00	[Y23] - Southeast Dam Borrow No. 1 Construction Sediment Pond; Diversion Common Excavation, (Sustaining Capital CAD\$179,460)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3361.00	[Y23] - Southeast Dam Borrow No. 2 Construction Sediment Pond; Clear & Grub, (Sustaining Capital CAD\$9,450)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3362.00	[Y23] - Southeast Dam Borrow No. 2 Construction Sediment Pond; Sediment Treatment Polymer Dosing System, (Sustaining Capital CAD\$59,745)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3363.00	[Y23] - Southeast Dam Borrow No. 2 Construction Sediment Pond; Topsoil to Stockpile, (Sustaining Capital CAD\$19,170)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3364.00	[Y23] - Southeast Dam Borrow No. 2 Construction Sediment Pond; Common Excavation, (Sustaining Capital CAD\$680,130)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3365.00	[Y23] - Southeast Dam Borrow No. 2 Construction Sediment Pond; Drain Rock, (Sustaining Capital CAD\$119)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3366.00	[Y23] - Southeast Dam Borrow No. 2 Construction Sediment Pond; HDPE Pipe, (Sustaining Capital CAD\$243)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3367.00	[Y23] - Southeast Dam Borrow No. 2 Construction Sediment Pond; Riprap Bedding Layer, (Sustaining Capital CAD\$374)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3368.00	[Y23] - Southeast Dam Borrow No. 2 Construction Sediment Pond; Diversion Common Excavation, (Sustaining Capital CAD\$179,460)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3369.00	[Y23] - Southeast Seepage Recov Dam Construction Sediment Pond; Clear & Grub, (Sustaining Capital CAD\$1,890)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3370.00	[Y23] - Southeast Seepage Recov Dam Construction Sediment Pond; Sediment Treatment Polymer Dosing System, (Sustaining Capital CAD\$39,657)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3371.00	[Y23] - Southeast Seepage Recov Dam Construction Sediment Pond; Topsoil to Stockpile, (Sustaining Capital CAD\$3,195)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F13-1.01-3372.00	[Y23] - Southeast Seepage Recov Dam Construction Sediment Pond; Common Excavation, (Sustaining Capital CAD\$75,900)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3373.00	[Y23] - Southeast Seepage Recov Dam Construction Sediment Pond; Drain Rock, (Sustaining Capital CAD\$119)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3374.00	[Y23] - Southeast Seepage Recov Dam Construction Sediment Pond; HDPE Pipe, (Sustaining Capital CAD\$9,020)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3375.00	[Y23] - Southeast Seepage Recov Dam Construction Sediment Pond; Riprap Bedding Layer, (Sustaining Capital CAD\$262)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3376.00	[Y23] - Southeast Seepage Recov Dam Construction Sediment Pond; Diversion Common Excavation, (Sustaining Capital CAD\$17,946)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3377.00	South Diversion Channel; Logging [D-4101]	8.3 ha	20.20	1.00	167.66	103.68	17,383	0.00	0	2,792.64	23,179	0.00	0	4,886.98	40,562
F13-1.01-3378.00	South Diversion Channel; Clear & Grub [D-4101]	8.3 ha	29.61	1.00	245.76	103.68	25,481	0.00	0	2,977.92	24,717	0.00	0	6,047.88	50,197
F13-1.01-3379.00	South Diversion Channel; Topsoil to Stockpile [D-4101]	24,832. m3	0.05	1.00	1,241.60	103.68	128,729	0.00	0	6.09	151,137	0.00	0	11.27	279,867
F13-1.01-3380.00	South Diversion Channel; Rock Excavation [D-4101]	454,800. m3	0.05	1.00	21,830.40	103.68	2,263,376	0.00	0	6.51	2,960,202	0.00	0	11.49	5,223,578
F13-1.01-3381.00	South Diversion Channel; Fibre-reinforced Shotcrete [D-4101]	20,413.32 m3	2.55	1.00	52,053.97	103.68	5,396,955	408.00	8,328,634	240.00	4,899,197	0.00	0	912.38	18,624,786
F13-1.01-3382.00	Plantsite Diversion Channel; Logging [D-4108]	1.3 ha	20.20	1.00	26.26	103.68	2,723	0.00	0	2,792.64	3,630	0.00	0	4,886.98	6,353
F13-1.01-3383.00	Plantsite Diversion Channel; Clear & Grub [D-4108]	1.3 ha	29.61	1.00	38.49	103.68	3,991	0.00	0	2,977.92	3,871	0.00	0	6,047.88	7,862
F13-1.01-3384.00	Plantsite Diversion Channel; Topsoil to Stockpile [D-4108]	3,896. m3	0.04	1.00	155.84	103.68	16,157	0.00	0	5.09	19,823	0.00	0	9.24	35,980
F13-1.01-3385.00	Plantsite Diversion Channel; Rock Excavation for Channels [D-4108]	49,400. m3	0.05	1.00	2,371.20	103.68	245,846	0.00	0	6.51	321,535	0.00	0	11.49	567,381
F13-1.01-3386.00	Plantsite Diversion Channel; Fibre-reinforced Shotcrete [D-4108]	1,212.68 m3	2.55	1.00	3,092.33	103.68	320,613	408.00	494,773	240.00	291,043	0.00	0	912.38	1,106,430
F13-1.01-3387.00	Plantsite Collection Channel; Logging [D-4108]	1.7 ha	20.20	1.00	34.34	103.68	3,560	0.00	0	2,792.64	4,747	0.00	0	4,886.98	8,308



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F13-1.01-3388.00	Plantsite Collection Channel; Clear & Grub [D-4108]	1.7 ha	29.61	1.00	50.34	103.68	5,219	0.00	0	2,977.92	5,062	0.00	0	6,047.88	10,281
F13-1.01-3389.00	Plantsite Collection Channel; Topsoil to Stockpile [D-4108]	5,124. m3	0.04	1.00	204.96	103.68	21,250	0.00	0	5.09	26,071	0.00	0	9.24	47,321
F13-1.01-3390.00	Plantsite Collection Channel; Rock Excavation for Channels [D-4108]	65,000. m3	0.05	1.00	3,120.00	103.68	323,482	0.00	0	6.51	423,072	0.00	0	11.49	746,554
F13-1.01-3391.00	Plantsite Collection Channel; Fibre-reinforced Shotcrete [D-4108]	4,045.1 m3	2.55	1.00	10,315.01	103.68	1,069,460	408.00	1,650,401	240.00	970,824	0.00	0	912.38	3,690,684
F13-1.01-3392.00	North Seepage Pond Diversion Channel; Logging [D-4108]	.5 ha	20.20	1.00	10.10	103.68	1,047	0.00	0	2,792.64	1,396	0.00	0	4,886.98	2,443
F13-1.01-3393.00	North Seepage Pond Diversion Channel; Clear & Grub [D-4108]	.5 ha	29.61	1.00	14.81	103.68	1,535	0.00	0	2,977.92	1,489	0.00	0	6,047.88	3,024
F13-1.01-3394.00	North Seepage Pond Diversion Channel; Topsoil to Stockpile [D-4108]	1,409. m3	0.04	1.00	56.36	103.68	5,843	0.00	0	5.09	7,169	0.00	0	9.24	13,012
F13-1.01-3395.00	North Seepage Pond Diversion Channel; Rock Excavation for Channels [D-4108]	13,100. m3	0.05	1.00	628.80	103.68	65,194	0.00	0	6.51	85,265	0.00	0	11.49	150,459
F13-1.01-3396.00	North Seepage Pond Diversion Channel; Fibre-reinforced Shotcrete [D-4108]	1,254.26 m3	2.55	1.00	3,198.36	103.68	331,606	408.00	511,738	240.00	301,022	0.00	0	912.38	1,144,367
F13-1.01-3397.00	Northeast Diversion Channel & Pipelines; Logging [D-4101]	2.4 ha	20.20	1.00	48.48	103.68	5,026	0.00	0	2,792.64	6,702	0.00	0	4,886.98	11,729
F13-1.01-3398.00	Northeast Diversion Channel & Pipelines; Clear & Grub [D-4101]	2.4 ha	29.61	1.00	71.06	103.68	7,368	0.00	0	2,977.92	7,147	0.00	0	6,047.88	14,515
F13-1.01-3399.00	Northeast Diversion Channel & Pipelines; Topsoil to Stockpile [D-4101]	7,215. m3	0.02	1.00	144.30	103.68	14,961	0.00	0	2.02	14,545	0.00	0	4.09	29,506
F13-1.01-3400.00	Northeast Diversion Channel & Pipelines; Rock Excavation for Channels [D-4101]	137,000. m3	0.05	1.00	6,576.00	103.68	681,800	0.00	0	6.51	891,706	0.00	0	11.49	1,573,505
F13-1.01-3401.00	Northeast Diversion Channel & Pipelines; Pipeline Excavation [D-4101]	27,670. m3	0.03	1.00	830.10	103.68	86,065	0.00	0	3.67	101,471	0.00	0	6.78	187,536
F13-1.01-3402.00	Northeast Diversion Channel & Pipelines; Fibre-reinforced Shotcrete [D-4101]	7,092.24 m3	2.55	1.00	18,085.21	103.68	1,875,075	408.00	2,893,634	240.00	1,702,138	0.00	0	912.38	6,470,846
F13-1.01-3403.00	Northeast Diversion Channel & Pipelines; HDPE Pipeline 1200mm [D-4101]	3,150. Lm	1.36	1.00	4,284.00	103.68	444,165	684.48	2,156,112	87.92	276,938	0.00	0	913.40	2,877,215



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F13-1.01-3404.00	Northeast Diversion Channel & Pipelines; HDPE Pipeline 600mm [D-4101]	1,150. Lm	0.68	1.00	782.00	103.68	81,078	364.80	419,520	69.68	80,128	0.00	0	504.98	580,726
F13-1.01-3405.00	Northeast Diversion Channel & Pipelines; Pipeline Bedding [D-4101]	2,804. m3	0.05	1.00	140.20	103.68	14,536	0.00	0	5.88	16,474	0.00	0	11.06	31,010
F13-1.01-3406.00	Northeast Diversion Channel & Pipelines; Pipeline Backfill [D-4101]	22,061. m3	0.07	1.00	1,544.27	103.68	160,110	0.00	0	9.02	199,078	0.00	0	16.28	359,188
F13-1.01-3407.00	Northeast Diversion Channel & Pipelines; Energy Dissipator [D-4101]	1. LS	12.00	1.00	12.00	103.68	1,244	33,600.00	33,600	22,080.00	22,080	0.00	0	56,924.16	56,924
F13-1.01-3408.00	Northeast Diversion Pipeline Sediment Pond; Clear & Grub [D-4101]	1.5 ha	29.61	1.00	44.42	103.68	4,605	0.00	0	2,977.92	4,467	0.00	0	6,047.88	9,072
F13-1.01-3409.00	Northeast Diversion Pipeline Sediment Pond; Sediment Treatment Polymer Dosing System [D-4101]	1. LS	228.68	1.00	228.68	103.68	23,710	19,645.20	19,645	13,999.87	14,000	0.00	0	57,355.02	57,355
F13-1.01-3410.00	Northeast Diversion Pipeline Sediment Pond; Topsoil to Stockpile [D-4101]	4,500. m3	0.02	1.00	90.00	103.68	9,331	0.00	0	2.02	9,072	0.00	0	4.09	18,403
F13-1.01-3411.00	Northeast Diversion Pipeline Sediment Pond; Energy Dissipator [D-4101]	1. LS	12.00	1.00	12.00	103.68	1,244	33,600.00	33,600	22,080.00	22,080	0.00	0	56,924.16	56,924
F13-1.01-3412.00	Northeast Diversion Pipeline Sediment Pond; Common Excavation [D-4101]	150,000. m3	0.06	1.00	9,000.00	103.68	933,120	0.00	0	6.97	1,045,440	0.00	0	13.19	1,978,560
F13-1.01-3413.00	Northeast Diversion Pipeline Sediment Pond; Drain Rock [D-4101]	5. m3	0.10	1.00	0.50	103.68	52	0.00	0	12.51	63	0.00	0	22.88	114
F13-1.01-3414.00	Northeast Diversion Pipeline Sediment Pond; HDPE Pipe [D-4101]	20. Lm	0.05	1.00	1.00	103.68	104	0.00	0	6.46	129	0.00	0	11.64	233
F13-1.01-3415.00	Northeast Diversion Pipeline Sediment Pond; Riprap Bedding Layer [D-4101]	10. m3	0.18	1.00	1.80	103.68	187	0.10	1	17.18	172	0.00	0	35.94	359
F13-1.01-3416.00	Northeast Diversion Pipeline Sediment Pond; Diversion Common Excavation [D-4101]	3,000. m3	0.05	1.00	144.00	103.68	14,930	0.00	0	6.51	19,526	0.00	0	11.49	34,456
F13-1.01-3417.00	[Y25] - Southeast Diversion Channel & Pipeline - Stage II; Logging, (Sustaining Capital CAD\$17,308) [D-4101]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3418.00	[Y25] - Southeast Diversion Channel & Pipeline - Stage II; Clear & Grub, (Sustaining Capital CAD\$21,420) [D-4101]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3419.00	[Y25] - Southeast Diversion Channel & Pipeline - Stage II; Topsoil to Stockpile, (Sustaining Capital CAD\$97,653) [D-4101]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F13-1.01-3420.00	[Y25] - Southeast Diversion Channel & Pipeline - Stage II; Rock Excavation for Channels, (Sustaining Capital CAD\$1,495,500) [D-4101]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3421.00	[Y25] - Southeast Diversion Channel & Pipeline - Stage II; Fibre-reinforced Shotcrete, (Sustaining Capital CAD\$8,538,913) [D-4101]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3422.00	[Y25] - Southeast Diversion Channel & Pipeline - Stage II; Pipeline Excavation, (Sustaining Capital CAD\$283,812) [D-4101]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3423.00	[Y25] - Southeast Diversion Channel & Pipeline - Stage II; HDPE Pipeline 1500mm, (Sustaining Capital CAD\$5,328,916) [D-4101]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3424.00	[Y25] - Southeast Diversion Channel & Pipeline - Stage II; Pipeline Bedding, (Sustaining Capital CAD\$42,048) [D-4101]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3425.00	[Y25] - Southeast Diversion Channel & Pipeline - Stage II; Pipeline Backfill, (Sustaining Capital CAD\$513,888) [D-4101]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3426.00	[Y25] - Southeast Diversion Channel & Pipeline - Stage II; Energy Dissipator, (Sustaining Capital CAD\$59,296) [D-4101]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F13-1.01-3427.00	North Diversion Channel; Logging [D-4101]	.5 ha	20.20	1.00	10.10	103.68	1,047	0.00	0	2,792.64	1,396	0.00	0	4,886.98	2,443
F13-1.01-3428.00	North Diversion Channel; Clear & Grub [D-4101]	.5 ha	29.61	1.00	14.81	103.68	1,535	0.00	0	2,977.92	1,489	0.00	0	6,047.88	3,024
F13-1.01-3429.00	North Diversion Channel; Topsoil to Stockpile [D-4101]	1,450. m3	0.02	1.00	29.00	103.68	3,007	0.00	0	2.02	2,923	0.00	0	4.09	5,930
F13-1.01-3430.00	North Diversion Channel; Rock Excavation for Channels [D-4101]	149,500. m3	0.05	1.00	7,176.00	103.68	744,008	0.00	0	6.51	973,066	0.00	0	11.49	1,717,073
F13-1.01-3431.00	North Diversion Channel; Fibre-reinforced Shotcrete [D-4101]	8,970. m3	2.55	1.00	22,873.50	103.68	2,371,524	408.00	3,659,760	240.00	2,152,800	0.00	0	912.38	8,184,084
F13 - Diversion and Seepage Collection Ponds Subtotal					183,330.32		19,007,687		20,349,499		19,409,252		0		58,766,439
<u>F14 - Seepage Dams</u>															
F14-1.01-3433.00	North Seepage Recovery Dam; Logging	1.3 ha	26.26	1.00	34.14	103.68	3,539	0.00	0	3,628.80	4,717	0.00	0	6,351.44	8,257
F14-1.01-3434.00	North Seepage Recovery Dam; Clear & Grub	1.3 ha	38.50	1.00	50.05	103.68	5,189	0.00	0	3,872.64	5,034	0.00	0	7,864.32	10,224
F14-1.01-3435.00	North Seepage Recovery Dam; Topsoil to Stockpile	1,117. m3	0.04	1.00	44.68	103.68	4,632	0.00	0	5.06	5,651	0.00	0	9.21	10,284



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F14-1.01-3436.00	North Seepage Recovery Dam; Foundation Sub-Ex	3,351. m3	0.05	1.00	167.55	103.68	17,372	0.00	0	4.42	14,798	0.00	0	9.60	32,170
F14-1.01-3437.00	North Seepage Recovery Dam; Foundation Prep	13,097. m2	0.01	1.00	65.49	103.68	6,789	0.00	0	0.57	7,418	0.00	0	1.08	14,208
F14-1.01-3438.00	North Seepage Recovery Dam; Random Fill	79,515. m3	0.06	1.00	5,009.45	103.68	519,379	0.00	0	7.20	572,508	0.00	0	13.73	1,091,887
F14-1.01-3439.00	North Seepage Recovery Dam; Till Core	24,292. m3	0.07	1.00	1,578.98	103.68	163,709	0.00	0	8.07	196,124	0.00	0	14.81	359,833
F14-1.01-3440.00	North Seepage Recovery Dam; Drainage Blanket	5,559. m3	0.11	1.00	600.37	103.68	62,247	0.00	0	13.39	74,446	0.00	0	24.59	136,693
F14-1.01-3441.00	North Seepage Recovery Dam; Riprap Facing	1,457. m3	0.14	1.00	209.81	103.68	21,753	0.12	168	13.13	19,134	0.00	0	28.18	41,055
F14-1.01-3442.00	North Seepage Recovery Dam; Geotextile in Dam	4,858. m2	0.01	1.00	24.29	103.68	2,518	2.31	11,239	0.17	839	0.00	0	3.00	14,597
F14-1.01-3443.00	North Seepage Recovery Dam; Spillway Channel Excavation	4,208. m3	0.18	1.00	736.40	103.68	76,350	0.12	485	17.18	72,310	0.00	0	35.44	149,145
F14-1.01-3444.00	North Seepage Recovery Dam; Spillway Channel Armour	1,106. m3	0.05	1.00	55.30	103.68	5,734	0.00	0	6.76	7,475	0.00	0	11.94	13,208
F14-1.01-3445.00	North Seepage Recovery Dam; Geotextile in Spillway	2,012. m2	0.01	1.00	20.12	103.68	2,086	2.31	4,655	0.17	348	0.00	0	3.52	7,089
F14-1.01-3446.00	North Seepage Recovery Dam; Sediment Treatment Polymer Dosing System	1. LS	228.68	1.00	228.68	103.68	23,710	19,645.20	19,645	13,999.87	14,000	0.00	0	57,355.02	57,355
F14-1.01-3447.00	North Seepage Recovery Dam; HDPE 750mm Pipeline	2,000. Lm	0.82	1.00	1,632.00	103.68	169,206	403.20	806,400	83.62	167,232	0.00	0	571.42	1,142,838
F14-1.01-3448.00	North Seepage Recovery Dam; Grout Curtain Tricone Drilling	1,425. Lm	0.06	1.00	85.50	103.68	8,865	0.00	0	14.35	20,452	0.00	0	20.57	29,316
F14-1.01-3449.00	North Seepage Recovery Dam; Grout Curtain Core Drilling	75. Lm	0.25	1.00	18.75	103.68	1,944	0.00	0	180.48	13,536	0.00	0	206.40	15,480
F14-1.01-3450.00	North Seepage Recovery Dam; Cement for Grout	100. t	1.00	1.00	100.00	103.68	10,368	288.00	28,800	62.40	6,240	0.00	0	454.08	45,408
F14-1.01-3451.00	North Seepage Recovery Dam; Bentonite for Grout	3. t	1.00	1.00	3.00	103.68	311	489.60	1,469	62.40	187	0.00	0	655.68	1,967



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F14-1.01-3452.00	North Seepage Recovery Dam; Water Pressure Testing	60. ea	0.03	1.00	1.80	103.68	187	0.00	0	3.83	230	0.00	0	6.94	416
F14-1.01-3453.00	North Seepage Recovery Dam; Grout Injection Crew & Equipment	321. hr	4.95	1.00	1,588.95	103.68	164,742	0.00	0	246.78	79,216	0.00	0	759.99	243,958
F14-1.01-3454.00	Saddle Seepage Recovery Dam; Logging	6.1 ha	20.20	1.00	123.22	103.68	12,775	0.00	0	2,792.64	17,035	0.00	0	4,886.98	29,811
F14-1.01-3455.00	Saddle Seepage Recovery Dam; Clear & Grub	6.1 ha	29.61	1.00	180.62	103.68	18,727	0.00	0	2,977.92	18,165	0.00	0	6,047.88	36,892
F14-1.01-3456.00	Saddle Seepage Recovery Dam; Topsoil to Stockpile	6,114. m3	0.04	1.00	244.56	103.68	25,356	0.00	0	5.06	30,932	0.00	0	9.21	56,288
F14-1.01-3457.00	Saddle Seepage Recovery Dam; Foundation Sub-Ex	18,341. m3	0.04	1.00	733.64	103.68	76,064	0.00	0	3.42	62,682	0.00	0	7.56	138,746
F14-1.01-3458.00	Saddle Seepage Recovery Dam; Foundation Prep	61,238. m2	0.01	1.00	306.19	103.68	31,746	0.00	0	0.57	34,685	0.00	0	1.08	66,431
F14-1.01-3459.00	Saddle Seepage Recovery Dam; Random Fill	240,495. m3	0.05	1.00	12,024.75	103.68	1,246,726	0.00	0	5.76	1,385,251	0.00	0	10.94	2,631,977
F14-1.01-3460.00	Saddle Seepage Recovery Dam; Till Core	160,022. m3	0.05	1.00	8,001.10	103.68	829,554	0.00	0	6.21	993,929	0.00	0	11.40	1,823,483
F14-1.01-3461.00	Saddle Seepage Recovery Dam; Drainage Blanket	23,829. m3	0.10	1.00	2,382.90	103.68	247,059	0.00	0	12.51	298,072	0.00	0	22.88	545,131
F14-1.01-3462.00	Saddle Seepage Recovery Dam; Riprap Facing	9,601. m3	0.17	1.00	1,632.17	103.68	169,223	0.12	1,106	18.41	176,781	0.00	0	36.15	347,111
F14-1.01-3463.00	Saddle Seepage Recovery Dam; Geotextile in Dam	32,004. m2	0.01	1.00	160.02	103.68	16,591	2.26	72,201	0.17	5,530	0.00	0	2.95	94,322
F14-1.01-3464.00	Saddle Seepage Recovery Dam; Spillway Channel Excavation	4,208. m3	0.03	1.00	126.24	103.68	13,089	0.00	0	2.85	11,998	0.00	0	5.96	25,086
F14-1.01-3465.00	Saddle Seepage Recovery Dam; Spillway Channel Armour	1,106. m2	0.15	1.00	165.90	103.68	17,201	0.12	127	15.61	17,264	0.00	0	31.28	34,592
F14-1.01-3466.00	Saddle Seepage Recovery Dam; Geotextile in Spillway	2,012. m2	0.01	1.00	10.06	103.68	1,043	2.31	4,655	0.17	348	0.00	0	3.00	6,046
F14-1.01-3467.00	Saddle Seepage Recovery Dam; Slurry Cut-off Wall	10,000. m2	0.07	1.00	700.00	103.68	72,576	34.92	349,248	6.71	67,104	0.00	0	48.89	488,928



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F14-1.01-3468.00	Saddle Seepage Recovery Dam; Sediment Treatment Polymer Dosing System	1. LS	228.68	1.00	228.68	103.68	23,710	19,645.20	19,645	13,999.87	14,000	0.00	0	57,355.02	57,355
F14-1.01-3469.00	Saddle Seepage Recovery Dam; HDPE 750mm Pipeline	2,000. Lm	0.68	1.00	1,360.00	103.68	141,005	427.20	854,400	7.23	14,458	0.00	0	504.93	1,009,862
F14-1.01-3470.00	[Y25] - Southeast Seepage Recovery Dam; Logging, (Sustaining Capital CAD\$5,600)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F14-1.01-3471.00	[Y25] - Southeast Seepage Recovery Dam; Clear & Grub, (Sustaining Capital CAD\$6,930)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F14-1.01-3472.00	[Y25] - Southeast Seepage Recovery Dam; Topsoil to Stockpile, (Sustaining Capital CAD\$4,741)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F14-1.01-3473.00	[Y25] - Southeast Seepage Recovery Dam; Foundation Sub-Ex, (Sustaining Capital CAD\$26,303)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F14-1.01-3474.00	[Y25] - Southeast Seepage Recovery Dam; Foundation Prep, (Sustaining Capital CAD\$12,600)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F14-1.01-3475.00	[Y25] - Southeast Seepage Recovery Dam; Random Fill, (Sustaining Capital CAD\$793,258)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F14-1.01-3476.00	[Y25] - Southeast Seepage Recovery Dam; Till Core, (Sustaining Capital CAD\$386,452)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F14-1.01-3477.00	[Y25] - Southeast Seepage Recovery Dam; Drainage Blanket, (Sustaining Capital CAD\$135,569)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F14-1.01-3478.00	[Y25] - Southeast Seepage Recovery Dam; Riprap Facing, (Sustaining Capital CAD\$61,310)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F14-1.01-3479.00	[Y25] - Southeast Seepage Recovery Dam; Geotextile in Dam, (Sustaining Capital CAD\$17,591)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F14-1.01-3480.00	[Y25] - Southeast Seepage Recovery Dam; Spillway Channel Excavation, (Sustaining Capital CAD\$130,559)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F14-1.01-3481.00	[Y25] - Southeast Seepage Recovery Dam; Slurry Cut-off Wall, (Sustaining Capital CAD\$22,900)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F14-1.01-3482.00	[Y25] - Southeast Seepage Recovery Dam; HDPE 750mm Pipeline, (Sustaining Capital CAD\$1,196,360)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F14-1.01-3483.00	[Y25] - Southeast Seepage Recovery Dam; Grout Curtain Tricone Drilling, (Sustaining Capital CAD\$39,710)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F14-1.01-3484.00	[Y25] - Southeast Seepage Recovery Dam; Grout Curtain Core Drilling, (Sustaining Capital CAD\$21,070)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F14-1.01-3485.00	[Y25] - Southeast Seepage Recovery Dam; Cement for Grout, (Sustaining Capital CAD\$61,490)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F14-1.01-3486.00	[Y25] - Southeast Seepage Recovery Dam; Bentonite for Grout, (Sustaining Capital CAD\$2,732)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F14-1.01-3487.00	[Y25] - Southeast Seepage Recovery Dam; Water Pressure Testing, (Sustaining Capital CAD\$564)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F14-1.01-3488.00	[Y25] - Southeast Seepage Recovery Dam; Grout Injection Crew & Equipment, (Sustaining Capital CAD\$330,914)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F14 - Seepage Dams Subtotal				40,635.36		4,213,074		2,174,244		4,430,130		0		10,817,448
<u>F15 - Closure [Sustaining]</u>															
F15-1.01-3490.00	[Y25 - 30] - North Cell Closure; Till on North Dam Crest, (Sustaining Capital CAD\$89,520) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3491.00	[Y25 - 30] - North Cell Closure; Till on Tailings Beach, (Sustaining Capital CAD\$16,291,520) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3492.00	[Y25 - 30] - North Cell Closure; Organic Soil on North Crest, (Sustaining Capital CAD\$59,680) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3493.00	[Y25 - 30] - North Cell Closure; Organic on Beach, (Sustaining Capital CAD\$6,516,608) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3494.00	[Y25 - 30] - North Cell Closure; Hydro-Seed Tailings Beach, (Sustaining Capital CAD\$1,192,307) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3495.00	[Y25 - 30] - North Cell Closure; Rock Fill on Dam Slope, (Sustaining Capital CAD\$240,251) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3496.00	[Y25 - 30] - North Cell Closure; Till Layer on Dam Slope, (Sustaining Capital CAD\$224,380) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3497.00	[Y25 - 30] - North Cell Closure; Hydro-Seed Dam Slope, (Sustaining Capital CAD\$14,967) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3498.00	[Y25 - 30] - North Cell Closure; Backfill De-Commissioned Channels, (Sustaining Capital CAD\$647,876) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3499.00	[Y30] - Construction Pads, Sediment Ponds, Pipeline Decommission - for North Cell Closure; Backfill Decommissioned Pond, (Sustaining Capital CAD\$4,013,252)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F15-1.01-3500.00	[Y30] - Construction Pads, Sediment Ponds, Pipeline Decomission - for North Cell Closure; Till Layer, (Sustaining Capital CAD\$568,012)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3501.00	[Y30] - Construction Pads, Sediment Ponds, Pipeline Decomission - for North Cell Closure; Hydro-Seed, (Sustaining Capital CAD\$25,914)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3502.00	[Y30] - Construction Pads, Sediment Ponds, Pipeline Decomission - for North Cell Closure; Pipeline Decommission, (Sustaining Capital CAD\$588,480)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3503.00	[Y60 - 65] - CIL Pond Closure; Slurry Flotation Tailings, (Sustaining Capital CAD\$8,008,000) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3504.00	[Y60 - 65] - CIL Pond Closure; Breach Splitter Dam, (Sustaining Capital CAD\$631,930) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3505.00	[Y60 - 65] - CIL Pond Closure; Breach Saddle Dam, (Sustaining Capital CAD\$610,024) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3506.00	[Y60 - 65] - CIL Pond Closure; Define Closure Channels (Dredge N and S Flotation Ponds), (Sustaining Capital CAD\$11,089,774) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3507.00	[Y60 - 65] - CIL Pond Closure; Riprap Channels, (Sustaining Capital CAD\$4,334,628) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3508.00	[Y60 - 65] - CIL Pond Closure; Riprap Bedding Layer, (Sustaining Capital CAD\$3,850,221) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3509.00	[Y60 - 65] - CIL Pond Closure; Geotextile Under Rip Rap, (Sustaining Capital CAD\$1,801,188) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3510.00	[Y60 - 65] - CIL Pond Closure; Dredging CIL Residue Tailings, (Sustaining Capital CAD\$3,080,000) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3511.00	[Y60 - 65] - Decomission Southeast Dam, Ponds & Pipelines - For South Cell Closure; Backfill Pond, (Sustaining Capital CAD\$5,973,345)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3512.00	[Y60 - 65] - Decomission Southeast Dam, Ponds & Pipelines - For South Cell Closure; Till Layer, (Sustaining Capital CAD\$149,616)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3513.00	[Y60 - 65] - Decomission Southeast Dam, Ponds & Pipelines - For South Cell Closure; Hydroseed, (Sustaining Capital CAD\$18,106)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3514.00	[Y60 - 65] - Decomission Southeast Dam, Ponds & Pipelines - For South Cell Closure; Pipe Decommission, (Sustaining Capital CAD\$294,240)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3515.00	[Y60 - 65] - South Cell Closure; Till on SouthEast Dam Crest, (Sustaining Capital CAD\$67,140) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F15-1.01-3516.00	[Y60 - 65] - South Cell Closure; Till on Tailings Beach, (Sustaining Capital CAD\$10,531,304) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3517.00	[Y60 - 65] - South Cell Closure; Organic Soil on North Crest, (Sustaining Capital CAD\$3,042) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3518.00	[Y60 - 65] - South Cell Closure; Organic Soil on Beach, (Sustaining Capital CAD\$6,516,608) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3519.00	[Y60 - 65] - South Cell Closure; Hydro-Seed Tailings Beach, (Sustaining Capital CAD\$770,741) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3520.00	[Y60 - 65] - South Cell Closure; Rock Fill on Tailings Slope, (Sustaining Capital CAD\$944,848) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3521.00	[Y60 - 65] - South Cell Closure; Till Layer on Tailings Slope, (Sustaining Capital CAD\$882,431) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3522.00	[Y60 - 65] - South Cell Closure; Hydro-Seed Tailings Slope, (Sustaining Capital CAD\$58,860) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3523.00	[Y60 - 65] - South Cell Closure; Backfill De-Commissioned Channels, (Sustaining Capital CAD\$554,438) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3524.00	[Y60 - 65] - South Cell Closure; Granular Berm on Beach, (Sustaining Capital CAD\$37,569,600) [D-4129]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3525.00	[Y60] - Southeast Dam Closure Spillway Channel; Logging, (Sustaining Capital CAD\$79,922) [D-4130]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3526.00	[Y60] - Southeast Dam Closure Spillway Channel; Clear & Grub, (Sustaining Capital CAD\$98,908) [D-4130]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3527.00	[Y60] - Southeast Dam Closure Spillway Channel; Topsoil to Stockpile, (Sustaining Capital CAD\$552,062) [D-4130]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3528.00	[Y60] - Southeast Dam Closure Spillway Channel; Rock Excavation, (Sustaining Capital CAD\$53,582,069) [D-4130]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15-1.01-3529.00	[Y60] - Southeast Dam Closure Spillway Channel; Tailings Excavation, (Sustaining Capital CAD\$920,000) [D-4130]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15 - Closure [Sustaining] Subtotal					0.00		0		0		0		0		0

F61 - PAG Dump Operating Water Mgmt Structures

F61-1.02-3533.00	Water Storage Dam (Starter Dam to 706m); Logging Contract removal of merchantable timber.	18.56 ha	26.26	1.00	487.51	103.68	50,545	0.00	0	3,628.80	67,368	0.00	0	6,351.44	117,913
------------------	---	----------	-------	------	--------	--------	--------	------	---	----------	--------	------	---	----------	---------



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F61-1.02-3534.00	Water Storage Dam (Starter Dam to 706m); Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury.	18.56 ha	38.50	1.00	714.74	103.68	74,104	0.00	0	3,872.64	71,894	0.00	0	7,864.32	145,999
F61-1.02-3535.00	Water Storage Dam (Starter Dam to 706m); Topsoil Removal and Stockpiling Remove topsoil and stockpile in designated area. Average excavation depth = 0.1m	18,564.72 m3	0.04	1.00	742.59	103.68	76,992	0.00	0	5.18	96,240	0.00	0	9.33	173,231
F61-1.02-3536.00	Water Storage Dam (Starter Dam to 706m); Foundation Sub-excavation Remove soft soils and stockpile in designated area. Average excavation depth = 0.3m	55,694.16 m3	0.04	1.00	1,949.30	103.68	202,103	0.00	0	4.61	256,639	0.00	0	8.24	458,742
F61-1.02-3537.00	Water Storage Dam (Starter Dam to 706m); Bedrock Shaping and Trimming Trim foundation to 45° (bulk blasting from above canyon, inclined drillholes)	367,963.2 m3	0.10	1.00	36,796.32	103.68	3,815,042	1.44	529,867	12.37	4,553,324	0.00	0	24.18	8,898,233
F61-1.02-3538.00	Water Storage Dam (Starter Dam to 706m); Cement for Grout Grout Mix used to construct grout curtain.	11,711.49 t	0.00	1.00	0.00	103.68	0	216.00	2,529,682	0.00	0	0.00	0	216.00	2,529,682
F61-1.02-3539.00	Water Storage Dam (Starter Dam to 706m); Bentonite for Grout Bentonite added to grout mix	383.48 t	0.04	1.00	15.34	103.68	1,590	374.40	143,576	3.68	1,410	0.00	0	382.22	146,577
F61-1.02-3540.00	Water Storage Dam (Starter Dam to 706m); Grout Curtain Tricone or Percussion Drilling Length of coring for grout holes. Assuming 95% of total length.	165,775. lm	0.19	1.00	30,999.93	103.68	3,214,072	0.00	0	40.32	6,684,048	0.00	0	59.71	9,898,120
F61-1.02-3541.00	Water Storage Dam (Starter Dam to 706m); Grout Curtain Core Drilling Length of tricone drilling for grout holes. Assuming 5% of total length.	8,725. lm	0.78	1.00	6,822.95	103.68	707,403	0.00	0	168.00	1,465,800	0.00	0	249.08	2,173,203
F61-1.02-3542.00	Water Storage Dam (Starter Dam to 706m); Water Pressure Testing after grouting completed 3 water pressure tests on 100 check holes (centre row), total of 300 water tests	300. ea	0.00	1.00	0.00	103.68	0	768.00	230,400	0.00	0	0.00	0	768.00	230,400
F61-1.02-3543.00	Water Storage Dam (Starter Dam to 706m); Grout Injection Crew and Equipment Grout plant time and crew of three, cost to inject grout at 0.6 m3/hr	37,358.13 hr	3.65	1.00	136,357.17	103.68	14,137,511	0.00	0	144.00	5,379,570	0.00	0	522.43	19,517,081
F61-1.02-3544.00	Water Storage Dam (Starter Dam to 706m); Rock Fill (Placed with Mine Equipment) Locally quarried Random rock fill (Zone 1), spread with dozer to 1m lift, compact with trucks and dozers	4,148,232.67 m3	0.01	1.00	53,927.02	103.68	5,591,154	0.00	0	1.92	7,964,607	0.00	0	3.27	13,555,760
F61-1.02-3545.00	Water Storage Dam (Starter Dam to 706m); Rock Fill (Placed with Mine Equipment) Locally quarried non-reactive rock fill (Zone 2), spread with dozer to 1m lift, compact with trucks and dozers	1,051,869.41 m3	0.01	1.00	13,674.30	103.68	1,417,752	0.00	0	1.92	2,019,589	0.00	0	3.27	3,437,341
F61-1.02-3546.00	Water Storage Dam (Starter Dam to 706m); Rock Fill (Not Placed with Mine Equipment) Locally quarried clean rock fill; upstream and downstream (Zone 3) load from NAG stockpile, .75 km haul in 25 T truck, spread to 1m lift, compact with 15t vibro-roller	1,934,109.92 m3	0.03	1.00	63,825.63	103.68	6,617,441	0.00	0	4.61	8,912,378	0.00	0	8.03	15,529,819
F61-1.02-3547.00	Water Storage Dam (Starter Dam to 706m); Moraine Fill Place in 0.5 m lift thickness & spread (Zone 6), 0.3m lift, compacted 100% Proctor in canyon zone, 97% above canyon (El. 600m)	721,728.15 m3	0.04	1.00	30,312.58	103.68	3,142,808	0.00	0	5.76	4,157,154	0.00	0	10.11	7,299,963
F61-1.02-3548.00	Water Storage Dam (Starter Dam to 706m); Filter/Transition Fill Non-reactive filter and transition material placed adjacent to the asphalt core (Zone 5'), place and compact simultaneously with asphalt zone. Zone 5 place in 0.3m lifts and compact with vibro-roller	255,380.73 m3	0.09	1.00	22,984.27	103.68	2,383,009	0.00	0	11.16	2,848,823	0.00	0	20.49	5,231,832
F61-1.02-3549.00	Water Storage Dam (Starter Dam to 706m); Asphalt Concrete (bitumen and aggregate) Mixture of bitumen and aggregate in the core hot placed and compacted simultaneously with filter and transition (Zone 7)	133,242.12 m3	0.37	1.00	49,299.58	103.68	5,111,381	203.90	27,168,601	45.31	6,037,467	0.00	0	287.58	38,317,448



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F61-1.02-3550.00	Water Storage Dam (Starter Dam to 706m); Drain Blanket Select (non-reactive) drain rock placed in downstream area of the dam. Average depth = 5.0m. (Zone 4) Place and compact in 0.5m lifts	309,035. m3	0.09	1.00	27,813.15	103.68	2,883,667	0.00	0	11.16	3,447,347	0.00	0	20.49	6,331,014
F61-1.02-3551.00	Water Storage Dam (Starter Dam to 706m); HDPE Liner Supply and install liner in upstream toe to create pond that feeds construction diversion. 20m at the upstream toe.	3,673.09 m2	0.05	1.00	183.65	103.68	19,041	7.68	28,209	0.32	1,164	0.00	0	13.18	48,414
F61-1.02-3552.00	Water Storage Dam (Starter Dam to 706m); Downstream Construction Cofferdam Temporary Rip-rap protected moraine till fill in canyon	1. LS	125.00	1.00	125.00	103.68	12,960	0.00	0	17,280.00	17,280	0.00	0	30,240.00	30,240
F61-1.02-3553.00	Water Storage Dam (Starter Dam to 706m); Geotechnical Instrumentation Geotechnical instrumentation installed in the dam.	1. LS	0.00	1.00	0.00	103.68	0	431,999.99	432,000	0.00	0	0.00	0	431,999.99	432,000
F61-1.02-3554.00	Water Storage Dam (Starter Dam to 706m); Sediment Dredge Barge Pontoon suction dredge and floating poly pipeline (http://www.dredgebrokers.com/Dredges_Hyd.html)	1. LS	0.00	1.00	0.00	103.68	0	335,999.99	336,000	0.00	0	0.00	0	335,999.99	336,000
F61-1.02-3555.00	Water Storage Dam Access Roads for Construction; Rock Excavation (construction roads) Roads for WSD construction access, costed by Surpac volumes as 3km 8m wide roads cut in rock of canyon zone and 20m wide cut/fill roads in ovb above canyon zone. Custom blasting by airtrack in canyon areas	607,270. m3	0.05	1.00	31,578.04	103.68	3,274,011	1.49	903,618	7.20	4,372,344	0.00	0	14.08	8,549,973
F61-1.02-3556.00	Water Storage Dam Access Roads for Construction; Bailey Bridge (20m length) Two Bailey bridges set on lockblock piers, located at u/s and d/s toes of WSD to provide construction access to dam for grouting, construction diversions, tunnel and rock shaping	2. LS	0.00	1.00	0.00	103.68	0	76,800.00	153,600	19,200.00	38,400	0.00	0	96,000.00	192,000
F61-1.02-3557.00	Water Storage Dam Access Roads for Construction; Bridge labour Crew of 6 for one week per bridge (supplier info), two bridges	2. LS	418.00	1.00	836.00	103.68	86,676	0.00	0	0.00	0	0.00	0	43,338.24	86,676
F61-1.02-3558.00	Water Storage Dam Access Roads for Construction; Lock Blocks 1m by 1m by 1m Concrete lock blocks for bridge support piers, approx 27 blocks per pier, 2 piers per bridge, 2 bridges	108. ea	1.04	1.00	112.32	103.68	11,645	124.80	13,478	19.20	2,074	0.00	0	251.83	27,197
F61-1.02-3559.00	[Y10] - Water Storage Dam (Raise of Dam to Ultimate elevation of 716m); Rock Fill (Placed with Mine Equipment) (Random Fill) Locally quarried random rock fill (Zone 1), spread with dozer to 1m lift, compact with trucks and dozers, (Sustaining Capital CAD\$1,896,232)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3560.00	[Y10] - Water Storage Dam (Raise of Dam to Ultimate elevation of 716m); Rock Fill (Not Placed with Mine Equipment) (High Quality) Locally quarried clean rock fill; upstream and downstream (Zone 3) load from NAG stockpile, .75 km haul in 25 T truck, spread to 1m lift, compact with 15t vibro-roller, (Sustaining Capital CAD\$13,856,196)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3561.00	[Y10] - Water Storage Dam (Raise of Dam to Ultimate elevation of 716m); Moraine Fill Place in 0.5 m lift thickness & spread (Zone 6), 0.3m lift, compacted 97% Proctor, (Sustaining Capital CAD\$1,106,917)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3562.00	[Y10] - Water Storage Dam (Raise of Dam to Ultimate elevation of 716m); Filter/Transition Fill Non-reactive filter and transition material placed adjacent to the asphalt core (Zone 5'), place and compact simultaneously with asphalt zone. Zone 5 place in 0.3m lifts and compact with vibro-roller, (Sustaining Capital CAD\$448,398)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3563.00	[Y10] - Water Storage Dam (Raise of Dam to Ultimate elevation of 716m); Asphalt Concrete (bitumen and aggregate) Mixture of bitumen and aggregate in the core hot placed and compacted simultaneously with filter and transition (Zone 7), (Sustaining Capital CAD\$25,177,539)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F61-1.02-3564.00	Water Storage Facility Spillway (Phase I - Starter); Timber Removal Contract removal of merchantable timber.	4.33 ha	26.26	1.00	113.72	103.68	11,791	0.00	0	3,628.80	15,715	0.00	0	6,351.44	27,505
F61-1.02-3565.00	Water Storage Facility Spillway (Phase I - Starter); Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury.	4.33 ha	38.50	1.00	166.73	103.68	17,286	0.00	0	3,872.64	16,771	0.00	0	7,864.32	34,057
F61-1.02-3566.00	Water Storage Facility Spillway (Phase I - Starter); Topsoil Removal and Stockpiling Remove topsoil and stockpile in designated area. Average excavation depth = 0.1 m.	4,330.58 m3	0.02	1.00	86.61	103.68	8,980	0.00	0	2.30	9,978	0.00	0	4.38	18,958
F61-1.02-3567.00	Water Storage Facility Spillway (Phase I - Starter); Common Excavation Remove soft soils and stockpile in designated area. Average excavation depth = 3 m.	129,917.36 m3	0.03	1.00	4,287.27	103.68	444,504	0.00	0	4.61	598,659	0.00	0	8.03	1,043,164
F61-1.02-3568.00	Water Storage Facility Spillway (Phase I - Starter); Rock Excavation (ripping) Excavate primarily by ripping and place as random fill	441,212.12 m3	0.03	1.00	13,677.58	103.68	1,418,091	0.00	0	6.72	2,964,945	0.00	0	9.93	4,383,036
F61-1.02-3569.00	Water Storage Facility Spillway (Phase I - Starter); CIP Concrete Spillway Crest Weir Concrete weir installed in the spillway. Assumed 1m x 2m x the width of the spillway.	40. m3	4.18	1.00	167.20	103.68	17,335	288.00	11,520	96.00	3,840	0.00	0	817.38	32,695
F61-1.02-3570.00	[Y9] - Water Storage Facility Spillway (Phase II - Ultimate); Logging Contract removal of merchantable timber., (Sustaining Capital CAD\$11,252)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3571.00	[Y9] - Water Storage Facility Spillway (Phase II - Ultimate); Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury., (Sustaining Capital CAD\$13,932)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3572.00	[Y9] - Water Storage Facility Spillway (Phase II - Ultimate); Topsoil Removal and Stockpiling Remove topsoil and stockpile in designated area. Average excavation depth = 0.1 m., (Sustaining Capital CAD\$7,755)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3573.00	[Y9] - Water Storage Facility Spillway (Phase II - Ultimate); Common Excavation Remove soft soils and stockpile in designated area. Average excavation depth = 3 m., (Sustaining Capital CAD\$426,725)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3574.00	[Y9] - Water Storage Facility Spillway (Phase II - Ultimate); Rock Excavation (ripping) Excavate primarily by ripping and place as random fill, (Sustaining Capital CAD\$1,931,627)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3575.00	[Y9] - Water Storage Facility Spillway (Phase II - Ultimate); CIP Concrete Spillway Crest Weir Concrete weir installed in the spillway. Assumed 1m x 2m x the width of the spillway, (Sustaining Capital CAD\$34,058)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3576.00	Water Storage Seepage Collection Dam; Logging Contract removal of merchantable timber.	.15 ha	26.26	1.00	3.86	103.68	400	0.00	0	3,628.80	533	0.00	0	6,351.44	933
F61-1.02-3577.00	Water Storage Seepage Collection Dam; Clear/Grub Dam Foundation Strip unmerchantable timber and remaining vegetation and burn in piles or bury.	.15 ha	38.50	1.00	5.66	103.68	586	0.00	0	3,872.64	569	0.00	0	7,864.32	1,155
F61-1.02-3578.00	Water Storage Seepage Collection Dam; Topsoil Removal and Stockpiling Remove topsoil and stockpile in designated area. Average excavation depth = 0.1 m.	146.92 m3	0.02	1.00	2.94	103.68	305	0.00	0	2.30	339	0.00	0	4.38	643
F61-1.02-3579.00	Water Storage Seepage Collection Dam; Bedrock Shaping in Core Zone Average excavation depth = 0.3 m.	440.77 m3	0.19	1.00	81.54	103.68	8,454	1.92	846	20.16	8,886	0.00	0	41.26	18,187



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F61-1.02-3580.00	Water Storage Seepage Collection Dam; Rock Fill (Placed with Mine Equipment) Locally quarried Random rock fill (Zone 1), spread with dozer to 1m lift, compact with trucks and dozers	4,798.22 m3	0.01	1.00	62.38	103.68	6,467	0.00	0	1.92	9,213	0.00	0	3.27	15,680
F61-1.02-3581.00	Water Storage Seepage Collection Dam; Rock Fill (Placed with Mine Equipment) Locally quarried Non-reactive rock fill (Zone 2)	5,532.84 m3	0.01	1.00	71.93	103.68	7,457	0.00	0	1.92	10,623	0.00	0	3.27	18,080
F61-1.02-3582.00	Water Storage Seepage Collection Dam; Drain Rock Drain rock placed at downstream area of the dam. Average depth = 1.0m. (Zone 4)	459.14 m3	0.10	1.00	45.91	103.68	4,760	0.00	0	12.51	5,743	0.00	0	22.88	10,504
F61-1.02-3583.00	Water Storage Seepage Collection Dam; Asphalt Concrete (bitumen and aggregate) Mixture of bitumen and aggregate in the core	637.96 m3	0.37	1.00	236.05	103.68	24,473	203.90	130,083	45.31	28,907	0.00	0	287.58	183,464
F61-1.02-3584.00	Water Storage Seepage Collection Dam; Filter/Transition Fill Non-reactive filter and transition material placed adjacent to the asphalt core (Zone 5'), place and compact simultaneously with asphalt zone. Zone 5 place in 0.3m lifts and compact with vibro-roller	1,842.75 m3	0.09	1.00	165.85	103.68	17,195	0.00	0	11.16	20,556	0.00	0	20.49	37,751
F61-1.02-3585.00	Water Storage Seepage Collection Dam; Air/Water Jet Cleaning of Bedrock Bedrock surface required for air/water jet cleaning.	200. m2	0.14	1.00	28.40	103.68	2,945	0.00	0	2.30	461	0.00	0	17.03	3,405
F61-1.02-3586.00	Water Storage Seepage Collection Dam; Slush Grout and Dental Concrete Grout used for sealing and shaping bedrock	10. m3	2.55	1.00	25.50	103.68	2,644	384.00	3,840	192.00	1,920	0.00	0	840.38	8,404
F61-1.02-3587.00	Water Storage Seepage Collection Dam; Grout Curtain Tricone or Percussion Drilling Length of grout holes. Assuming 95% of total length.	2,052. lm	0.19	1.00	383.72	103.68	39,785	0.00	0	40.32	82,737	0.00	0	59.71	122,521
F61-1.02-3588.00	Water Storage Seepage Collection Dam; Grout Curtain Core Drilling Length of core drilling for test holes. Assuming 5% of total length.	108. lm	0.78	1.00	84.46	103.68	8,756	0.00	0	168.00	18,144	0.00	0	249.08	26,900
F61-1.02-3589.00	Water Storage Seepage Collection Dam; Water Pressure Tests Assumed 5 stages of water pressure testing for core holes.	10. ea	0.00	1.00	0.00	103.68	0	768.00	7,680	0.00	0	0.00	0	768.00	7,680
F61-1.02-3590.00	Water Storage Seepage Collection Dam; Cement for Grout Grout Mix used to construct grout curtain.	145. t	0.00	1.00	0.00	103.68	0	216.00	31,320	0.00	0	0.00	0	216.00	31,320
F61-1.02-3591.00	Water Storage Seepage Collection Dam; Bentonite for Grout Bentonite added to grout mix	5. t	0.04	1.00	0.20	103.68	21	374.40	1,872	3.68	18	0.00	0	382.22	1,911
F61-1.02-3592.00	Water Storage Seepage Collection Dam; Grout Injection Crew and Equipment Crew and rig Hours to inject grout. 3 rows at 2.5m average final spacing to 30m depth	462. hrs	3.65	1.00	1,686.30	103.68	174,836	0.00	0	144.00	66,528	0.00	0	522.43	241,364
F61-1.02-3593.00	Water Storage Seepage Collection Dam; Geotechnical Instrumentation Geotechnical instrumentation installed in the dam.	1. LS	0.00	1.00	0.00	103.68	0	28,800.00	28,800	0.00	0	0.00	0	28,800.00	28,800
F61-1.02-3594.00	Water Storage Seepage Emergency Spillway; Logging Contract removal of merchantable timber.	.06 ha	26.26	1.00	1.69	103.68	176	0.00	0	3,628.80	234	0.00	0	6,351.44	410
F61-1.02-3595.00	Water Storage Seepage Emergency Spillway; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury.	.06 ha	38.50	1.00	2.48	103.68	257	0.00	0	3,872.64	250	0.00	0	7,864.32	507



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F61-1.02-3596.00	Water Storage Seepage Emergency Spillway; Topsoil Removal and Stockpiling Remove topsoil and stockpile in designated area. Average excavation depth = 0.3 m.	193.5 m3	0.02	1.00	3.87	103.68	401	0.00	0	2.30	446	0.00	0	4.38	847
F61-1.02-3597.00	Water Storage Seepage Emergency Spillway; Rock Excavation (custom) Remove soft rock and use as random fill.	833. m3	0.05	1.00	43.32	103.68	4,491	1.44	1,200	7.20	5,998	0.00	0	14.03	11,688
F61-1.02-3598.00	Water Storage Seepage Emergency Spillway; Rock Support for Spillway Cut Mesh and bolts allowance	1. LS	0.00	1.00	0.00	103.68	0	9,600.00	9,600	0.00	0	0.00	0	9,600.00	9,600
F61-1.02-3599.00	Water Storage Seepage Emergency Spillway; CIP Concrete Spillway Crest Weir Concrete weir installed in the spillway. Assumed 1m x 2m x the width of the spillway	20. m3	4.18	1.00	83.60	103.68	8,668	288.00	5,760	96.00	1,920	0.00	0	817.38	16,348
F61-1.02-3600.00	Water Storage Facility Construction Diversion Tunnel; Excavation (By TMCC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3601.00	Water Storage Facility Construction Diversion Tunnel; Steel Trash Rack Steel trashrack installed at the intake of construction diversion tunnel (5m x 5m)	1. LS	104.00	1.00	104.00	103.68	10,783	14,400.00	14,400	99.84	100	0.00	0	25,282.56	25,283
F61-1.02-3602.00	Water Storage Facility Construction Diversion Tunnel; Stoplog Required for tunnel closure	1. LS	0.00	1.00	0.00	103.68	0	96,000.00	96,000	0.00	0	0.00	0	96,000.00	96,000
F61-1.02-3603.00	Water Storage Facility Construction Diversion Tunnel; Air/Water Jet Cleaning of Bedrock Bedrock surface required for air/water jet cleaning.	384. m2	0.14	1.00	54.53	103.68	5,653	0.00	0	2.30	885	0.00	0	17.03	6,538
F61-1.02-3604.00	Water Storage Facility Construction Diversion Tunnel; Tunnel Plugs to comission dam US and DS Concrete plugs to stop flow through the construction tunnel	384. m3	2.08	1.00	798.72	103.68	82,811	288.00	110,592	96.00	36,864	0.00	0	599.65	230,267
F61-1.02-3605.00	Water Storage Facility Construction Diversion Tunnel; Grout Tunnel plug wall grouting	1. LS	0.00	1.00	0.00	103.68	0	28,800.00	28,800	0.00	0	0.00	0	28,800.00	28,800
F61-1.02-3606.00	Mitchell North Slope Diversion; Logging Contract removal of merchantable timber. (By MMTS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3607.00	Mitchell North Slope Diversion; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury. (By MMTS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3608.00	Mitchell North Slope Diversion; Topsoil removal and stockpiling Remove topsoil and stockpile in designated area. Average excavation depth = 0.3 m. (By MMTS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3609.00	Mitchell North Slope Diversion; Common Excavation Assumed 50% common excavation for road+ditch by others as part of Crusher/OPC Access Road (By MMTS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3610.00	Mitchell North Slope Diversion; Rock Excavation (bulk blasting) Assumed 50% rock excavation for road + ditch by others as part of Crusher/OPC Access Road (By MMTS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3611.00	Mitchell North Slope Diversion; Liner Geosynthetic 50% Geosynthetic line (soil section), 50% rock section with Shotcrete liner	20,000. m2	0.05	1.00	1,000.00	103.68	103,680	3.84	76,800	2.69	53,760	0.00	0	11.71	234,240



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F61-1.02-3612.00	Mitchell North Slope Diversion; Compacted Moraine Bedding Moraine cover over geosynthetic liner 0.5m x 2000m x 10m	10,000. m3	0.04	1.00	420.00	103.68	43,546	0.00	0	5.76	57,600	0.00	0	10.11	101,146
F61-1.02-3613.00	Mitchell North Slope Diversion; Bedding Layer Supply and install bedding layer (moraine sands and gravel) below HDPE liner at upstream face of the diversion dam. Average depth = 0.3m	6,000. m3	0.11	1.00	660.00	103.68	68,429	0.00	0	12.12	72,691	0.00	0	23.52	141,120
F61-1.02-3614.00	Mitchell North Slope Diversion; Rock Excavation (bulk blasting) Assumed 50% rock excavation for ditch - Ditch excavation by others as part of Crusher/OPC Access Road (By MMTS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3615.00	Mitchell North Slope Diversion; HDPE Pipe (OD 72", includes installation labour) Three sections of pipe in gullies behind OPC	900. m	1.36	1.00	1,224.00	103.68	126,904	1,152.00	1,036,800	87.92	79,125	0.00	0	1,380.92	1,242,829
F61-1.02-3616.00	Mitchell North Slope Diversion; Pipe Bedding Material Place and compact bedding material	1,800. m3	0.12	1.00	216.00	103.68	22,395	0.00	0	11.16	20,079	0.00	0	23.60	42,474
F61-1.02-3617.00	Mitchell North Slope Diversion; Local Backfill Place and compact in 0.5 m lift thickness	1,800. m3	0.03	1.00	59.40	103.68	6,159	0.00	0	4.61	8,294	0.00	0	8.03	14,453
F61-1.02-3618.00	Cross Valley Pipeline - Stage 1 from North Slope Diversion Ditch to Stage 1 McTagg Tunnel Inlet Pond; Logging Contract removal of merchantable timber.	2.52 ha	26.26	1.00	66.18	103.68	6,861	0.00	0	3,628.80	9,145	0.00	0	6,351.44	16,006
F61-1.02-3619.00	Cross Valley Pipeline - Stage 1 from North Slope Diversion Ditch to Stage 1 McTagg Tunnel Inlet Pond; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury.	2.52 ha	38.50	1.00	97.02	103.68	10,059	0.00	0	3,872.64	9,759	0.00	0	7,864.32	19,818
F61-1.02-3620.00	Cross Valley Pipeline - Stage 1 from North Slope Diversion Ditch to Stage 1 McTagg Tunnel Inlet Pond; Topsoil removal and stockpiling Remove topsoil and stockpile in designated area. Average excavation depth = 0.3 m.	7,560. m3	0.04	1.00	302.40	103.68	31,353	0.00	0	5.18	39,191	0.00	0	9.33	70,544
F61-1.02-3621.00	Cross Valley Pipeline - Stage 1 from North Slope Diversion Ditch to Stage 1 McTagg Tunnel Inlet Pond; Cross Valley pipeline - HDPE pipe 1200mm dia. Twin pipes in frost protection berm. Includes labour component for fusion technician	840. m	1.36	1.00	1,142.40	103.68	118,444	1,368.96	1,149,926	87.92	73,850	0.00	0	1,597.88	1,342,221
F61-1.02-3622.00	Cross Valley Pipeline - Stage 1 from North Slope Diversion Ditch to Stage 1 McTagg Tunnel Inlet Pond; Common Excavation Excavation of pipe trench	77,196. m3	0.04	1.00	3,087.84	103.68	320,147	0.00	0	4.68	361,648	0.00	0	8.83	681,795
F61-1.02-3623.00	Cross Valley Pipeline - Stage 1 from North Slope Diversion Ditch to Stage 1 McTagg Tunnel Inlet Pond; Pipe Bedding Material Place and compact bedding material	5,460. m3	0.12	1.00	655.20	103.68	67,931	0.00	0	11.16	60,907	0.00	0	23.60	128,839
F61-1.02-3624.00	Cross Valley Pipeline - Stage 1 from North Slope Diversion Ditch to Stage 1 McTagg Tunnel Inlet Pond; Local Backfill Place and compact in 0.5 m lift thickness	9,282. m3	0.03	1.00	306.31	103.68	31,758	0.00	0	4.61	42,771	0.00	0	8.03	74,529
F61-1.02-3625.00	Cross Valley Pipeline (Landbridge Phase - pipeline passing under landbridge to WSF Bypass Pipeline); Cross Valley pipeline - HDPE lined steel pipe 700 mm dia. Three pipes in concrete backfilled trenches.	3,300. m	2.25	1.00	7,425.00	103.68	769,824	1,800.00	5,940,000	129.60	427,680	0.00	0	2,162.88	7,137,504
F61-1.02-3626.00	Cross Valley Pipeline (Landbridge Phase - pipeline passing under landbridge to WSF Bypass Pipeline); Concrete backfill To protect pipe from 110m of overburden weight of Landbridge - use 0.7m thick concrete jacket around 0.7m pipe. (1m3/m length per pipe)	3,300. m3	0.03	1.00	99.00	103.68	10,264	288.00	950,400	82.56	272,448	0.00	0	373.67	1,233,112
F61-1.02-3627.00	WSF Bypass Pipeline Stage 1 to Year 10; Logging Contract removal of merchantable timber.	3.24 ha	26.26	1.00	85.08	103.68	8,821	0.00	0	3,628.80	11,757	0.00	0	6,351.44	20,579



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F61-1.02-3628.00	WSF Bypass Pipeline Stage 1 to Year 10; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury.	3.24 ha	38.50	1.00	124.74	103.68	12,933	0.00	0	3,872.64	12,547	0.00	0	7,864.32	25,480
F61-1.02-3629.00	WSF Bypass Pipeline Stage 1 to Year 10; Topsoil removal and stockpiling Remove topsoil and stockpile in designated area. Average excavation depth = 0.3 m.	9,720. m3	0.04	1.00	388.80	103.68	40,311	0.00	0	5.18	50,388	0.00	0	9.33	90,699
F61-1.02-3630.00	WSF Bypass Pipeline Stage 1 to Year 10; WSF Bypass pipeline - HDPE Pipe Supply and install 1750mm dia. Pipe including joints, fittings, etc. Two redundant pipes designed. Includes labour component for fusion technician	2,160. m	2.25	1.00	4,860.00	103.68	503,885	1,152.00	2,488,320	173.76	375,322	0.00	0	1,559.04	3,367,526
F61-1.02-3631.00	WSF Bypass Pipeline Stage 1 to Year 10; Common Excavation Assumed 50% common excavation	51,462. m3	0.03	1.00	1,698.25	103.68	176,074	0.00	0	4.61	237,137	0.00	0	8.03	413,211
F61-1.02-3632.00	WSF Bypass Pipeline Stage 1 to Year 10; Rock Excavation (bulk blasting) Assumed 50% rock excavation	51,462. m3	0.05	1.00	2,676.02	103.68	277,450	1.49	76,575	6.51	334,956	0.00	0	13.39	688,981
F61-1.02-3633.00	WSF Bypass Pipeline Stage 1 to Year 10; Pipe Bedding Material Place and compact bedding material	8,694. m3	0.12	1.00	1,043.28	103.68	108,167	0.00	0	11.16	96,983	0.00	0	23.60	205,151
F61-1.02-3634.00	WSF Bypass Pipeline Stage 1 to Year 10; Local Backfill Place and compact in 0.5 m lift thickness	12,852. m3	0.03	1.00	424.12	103.68	43,972	0.00	0	4.61	59,222	0.00	0	8.03	103,194
F61-1.02-3635.00	[Y10] - WSF Bypass Pipeline Stage 2 (Year 10 to 50); Logging Contract removal of merchantable timber., (Sustaining Capital CAD\$39,696)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3636.00	[Y10] - WSF Bypass Pipeline Stage 2 (Year 10 to 50); Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury., (Sustaining Capital CAD\$49,152)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3637.00	[Y10] - WSF Bypass Pipeline Stage 2 (Year 10 to 50); Topsoil removal and stockpiling Remove topsoil and stockpile in designated area. Average excavation depth = 0.3 m., (Sustaining Capital CAD\$174,960)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3638.00	[Y10] - WSF Bypass Pipeline Stage 2 (Year 10 to 50); WSF Bypass pipeline - HDPE Pipe Supply and install 1750mm dia. Pipe including joints, fittings, etc. Two redundant pipes designed. Includes labour component for fusion technician, (Sustaining Capital CAD\$6,496,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3639.00	[Y10] - WSF Bypass Pipeline Stage 2 (Year 10 to 50); Common Excavation Assumed 50% common excavation, (Sustaining Capital CAD\$797,089)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3640.00	[Y10] - WSF Bypass Pipeline Stage 2 (Year 10 to 50); Rock Excavation (bulk blasting) Assumed 50% rock excavation, (Sustaining Capital CAD\$1,329,054)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3641.00	WSF Bypass Pipeline Stage 2 (Year 10 to 50); Pipe Bedding Material Place and compact bedding material	16,100. m3	0.12	1.00	1,932.00	103.68	200,310	0.00	0	11.16	179,599	0.00	0	23.60	379,908
F61-1.02-3642.00	[Y10] - WSF Bypass Pipeline Stage 2 (Year 10 to 50); Local Backfill Place and compact in 0.5 m lift thickness, (Sustaining Capital CAD\$199,063)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3643.00	McTagg Inlet Diversion Dam - Stage 1; Logging Contract removal of merchantable timber.	.77 ha	26.26	1.00	20.11	103.68	2,085	0.00	0	3,628.80	2,779	0.00	0	6,351.44	4,863



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F61-1.02-3644.00	McTagg Inlet Diversion Dam - Stage 1; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury.	.77 ha	38.50	1.00	29.48	103.68	3,056	0.00	0	3,872.64	2,965	0.00	0	7,864.32	6,022
F61-1.02-3645.00	McTagg Inlet Diversion Dam - Stage 1; Foundation Sub-excavation Remove topsoil and stockpile in designated area. Average excavation depth = 0.3 m.	2,297.1 m3	0.04	1.00	80.40	103.68	8,336	0.00	0	4.61	10,585	0.00	0	8.24	18,921
F61-1.02-3646.00	McTagg Inlet Diversion Dam - Stage 1; Rock Fill (Placed with Mine Equipment) Rockfill of pre stripping NAG mine rock placed before PAG rock placed in RSF to form diversion dam	72,357.1 m3	0.01	1.00	940.64	103.68	97,526	0.00	0	1.92	138,926	0.00	0	3.27	236,451
F61-1.02-3647.00	[Y30] - McTagg Inlet Diversion Dam - Stage 1; Geobrugg Steel Netting Assumed 150% of the total tunnel area. 2*4.3m*4.0m*1.5=52m2 / intake, (Sustaining Capital CAD\$10,005)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3648.00	[Y30] - McTagg Inlet Diversion Dam - Stage 1; CIP Concrete Concrete weir installed in the tunnel Assumed 1m x 2m x the width of the tunnel, (Sustaining Capital CAD\$12,601)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3649.00	[Y30] - McTagg Inlet Diversion Dam - Stage 1; Double Stoplog Barriers Stoplogs + beams + concrete + rock bolts, (Sustaining Capital CAD\$35,200)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3650.00	McTagg Inlet Diversion Dam - Stage 1; HDPE Liner Supply and install HDPE liner at upstream face of the dam defined by mine rock	3,224.41 m2	0.05	1.00	161.22	103.68	16,715	7.68	24,763	0.32	1,021	0.00	0	13.18	42,500
F61-1.02-3651.00	McTagg Inlet Diversion Dam - Stage 1; Bedding Layer Supply and install bedding layer (moraine sands and gravel) below HDPE liner at upstream face of the diversion dam. Average depth = 0.3m	967.32 m3	0.11	1.00	106.41	103.68	11,032	0.00	0	12.12	11,719	0.00	0	23.52	22,751
F61-1.02-3652.00	McTagg Inlet Diversion Dam - Stage 2; Logging Contract removal of merchantable timber.	1.73 ha	26.26	1.00	45.44	103.68	4,711	0.00	0	3,628.80	6,279	0.00	0	6,351.44	10,990
F61-1.02-3653.00	McTagg Inlet Diversion Dam - Stage 2; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury.	1.73 ha	38.50	1.00	66.62	103.68	6,907	0.00	0	3,872.64	6,701	0.00	0	7,864.32	13,608
F61-1.02-3654.00	McTagg Inlet Diversion Dam - Stage 2; Foundation Sub-excavation Remove topsoil and stockpile in designated area. Average excavation depth = 0.3 m.	5,190.9 m3	0.04	1.00	181.68	103.68	18,837	0.00	0	4.61	23,920	0.00	0	8.24	42,756
F61-1.02-3655.00	McTagg Inlet Diversion Dam - Stage 2; Rock Fill (Placed with Mine Equipment) Rockfill of pre stripping NAG mine rock placed before PAG rock placed in RSF to form diversion dam	162,475.9 m3	0.01	1.00	2,112.19	103.68	218,992	0	0	1.92	311,954	0.00	0	3.27	530,945
F61-1.02-3656.00	[Y30] - McTagg Inlet Diversion Dam - Stage 2; Geobrugg Steel Netting Assumed 150% of the total tunnel area. 2*4.3m*4.0m*1.5=52m2 / intake, (Sustaining Capital CAD\$10,005)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3657.00	[Y30] - McTagg Inlet Diversion Dam - Stage 2; CIP Concrete Concrete weir installed in the tunnel Assumed 1m x 2m x the width of the tunnel, (Sustaining Capital CAD\$12,601)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3658.00	[Y30] - McTagg Inlet Diversion Dam - Stage 2; Double Stoplog Barriers Stoplogs + beams + concrete + rock bolts, (Sustaining Capital CAD\$35,200)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3659.00	McTagg Inlet Diversion Dam - Stage 2; HDPE Liner Supply and install HDPE liner at upstream face of the dam defined by mine rock	7,077.16 m2	0.05	1.00	353.86	103.68	36,688	7.68	54,353	0.32	2,242	0.00	0	13.18	93,283



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F61-1.02-3660.00	McTagg Inlet Diversion Dam - Stage 2; Bedding Layer Supply and install bedding layer (moraine sands and gravel) below HDPE liner at upstream face of the diversion dam. Average depth = 0.3m	2,123.15 m3	0.11	1.00	233.55	103.68	24,214	0.00	0	12.12	25,722	0.00	0	23.52	49,936
F61-1.02-3661.00	[Y30] - McTagg West Inlet Diversion Dam - Stage 3; Logging Contract removal of merchantable timber, (Sustaining Capital CAD\$7,990)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3662.00	[Y30] - McTagg West Inlet Diversion Dam - Stage 3; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury., (Sustaining Capital CAD\$9,893)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3663.00	[Y30] - McTagg West Inlet Diversion Dam - Stage 3; Topsoil removal and stockpiling Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average excavation depth = 0.3 m., (Sustaining Capital CAD\$16,521)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3664.00	[Y30] - McTagg West Inlet Diversion Dam - Stage 3; Rock Fill (Placed with Mine Equipment) Mine rock for random rockfill to construct inlet dam (downstream half PAG, upstream half NAG), (Sustaining Capital CAD\$247,756)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3665.00	[Y30] - McTagg West Inlet Diversion Dam - Stage 3; Drain Rock Place drain rock, (Sustaining Capital CAD\$324,118)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3666.00	[Y30] - McTagg West Inlet Diversion Dam - Stage 3; Filter/Transition Fill Non-reactive filter and transition fill placed in the core., (Sustaining Capital CAD\$137,323)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3667.00	[Y30] - McTagg West Inlet Diversion Dam - Stage 3; Asphalt Concrete (bitumen and aggregate) Mixture of bitumen and aggregate in the core of the dam., (Sustaining Capital CAD\$876,213)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3668.00	[Y30] - McTagg West Inlet Diversion Dam - Stage 3; Gabions 0.5m by 0.5m by 2.0 m Gabions placed in the dam spillway. (cost by others), (Sustaining Capital CAD\$133,920)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3669.00	[Y30] - McTagg West Inlet Diversion Dam - Stage 3; Lock Blocks 0.5m by 0.5m by 2.0 m Lock blocks on spillway crest. (cost by others), (Sustaining Capital CAD\$38,432)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3670.00	[Y30] - McTagg West Inlet Diversion Dam - Stage 3; Steel for Avalanche Sheds Steel structure constructed for avalanche sheds. x3 @ each stage, (Sustaining Capital CAD\$204,876)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3671.00	[Y30] - McTagg West Inlet Diversion Dam - Stage 3; Concrete Foundation Concrete foundation constructed for avalanche sheds. x3 @ each stage, (Sustaining Capital CAD\$6,007)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3672.00	[Y30] - McTagg West Inlet Diversion Dam - Stage 3; Perforated HDPE Pipe (1m dia.) Perforated pipe leading from dam fill to lower portal inlet, (Sustaining Capital CAD\$40,666)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3673.00	[Y30] - McTagg West Inlet Diversion Dam - Stage 3; Steel Pipe (1,000mm dia., 15mm wall) Pipe under dams and valves allow drain down for tunnel entry, including joints, fittings, valves, etc., (Sustaining Capital CAD\$56,652)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3674.00	[Y30] - McTagg West Inlet Diversion Dam - Stage 3; Steel Gate Valve (1,000mm diameter, 30 psi) Valve to allow inlet dam draindown for access, (Sustaining Capital CAD\$18,385)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3675.00	[Y30] - McTagg West Inlet Diversion Dam - Stage 3; Geobrugg Steel Netting Assumed 150% of the total tunnel area. 2*4.3m*4.0m*1.5=52m2 / intake, (Sustaining Capital CAD\$10,005)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F61-1.02-3676.00	[Y30] - McTagg West Inlet Diversion Dam - Stage 3; Ice Excavation Excavate and dispose in designated area. (Rip and push 250m), (Sustaining Capital CAD\$2,609,334)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3677.00	[Y30] - McTagg West Inlet Diversion Dam - Stage 3; CIP Concrete Concrete weir installed in the tunnel Assumed 1m x 2m x the width of the tunnel, (Sustaining Capital CAD\$12,601)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3678.00	[Y30] - McTagg West Inlet Diversion Dam - Stage 3; Double Stoplog Barriers Stoplogs + beams + concrete + rock bolts, (Sustaining Capital CAD\$35,200)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3679.00	[Y30] - McTagg West Inlet Diversion Dam - Stage 3; Tunnel Plugs To stop flow through the construction tunnel, (Sustaining Capital CAD\$130,860)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3680.00	[Y30] - McTagg West Inlet Diversion Dam - Stage 3; Grout Tunnel plug wall grouting, (Sustaining Capital CAD\$10,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3681.00	[Y20] - McTagg Tunnel East Inlet, Stage 3, including the diversion dam; Logging Contract removal of merchantable timber, (Sustaining Capital CAD\$2,501)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3682.00	[Y20] - McTagg Tunnel East Inlet, Stage 3, including the diversion dam; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury., (Sustaining Capital CAD\$3,097)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3683.00	[Y20] - McTagg Tunnel East Inlet, Stage 3, including the diversion dam; Topsoil removal and stockpiling Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average excavation depth = 0.3 m., (Sustaining Capital CAD\$5,171)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3684.00	[Y20] - McTagg Tunnel East Inlet, Stage 3, including the diversion dam; Rock Fill Mine rock for random rockfill to construct inlet dam (downstream half PAG, upstream half NAG), (Sustaining Capital CAD\$290,887)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3685.00	[Y20] - McTagg Tunnel East Inlet, Stage 3, including the diversion dam; Drain Rock Place drain rock, (Sustaining Capital CAD\$160,853)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3686.00	[Y20] - McTagg Tunnel East Inlet, Stage 3, including the diversion dam; Filter/Transition Fill Non-reactive filter and transition fill placed adjacent to the asphalt core., (Sustaining Capital CAD\$64,532)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3687.00	[Y20] - McTagg Tunnel East Inlet, Stage 3, including the diversion dam; Asphalt Concrete (bitumen and aggregate) Mixture of bitumen and aggregate in the core of the dam., (Sustaining Capital CAD\$401,710)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3688.00	[Y20] - McTagg Tunnel East Inlet, Stage 3, including the diversion dam; Gabions 0.5m by 0.5m by 2.0 m Rock filled Gabions placed in the dam spillway., (Sustaining Capital CAD\$133,920)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3689.00	[Y20] - McTagg Tunnel East Inlet, Stage 3, including the diversion dam; Lock Blocks 0.5m by 0.5m by 2.0 m 0.5m by 0.5m by 2.0 m Lock blocks on spillway crest., (Sustaining Capital CAD\$38,432)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3690.00	[Y20] - McTagg Tunnel East Inlet, Stage 3, including the diversion dam; Steel for Avalanche Sheds Steel structure constructed for avalanche sheds. x3 @ each stage, (Sustaining Capital CAD\$354,876)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3691.00	[Y20] - McTagg Tunnel East Inlet, Stage 3, including the diversion dam; Concrete Foundation Concrete foundation constructed for avalanche sheds. x3 @ each stage, (Sustaining Capital CAD\$6,807)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F61-1.02-3692.00	[Y20] - McTagg Tunnel East Inlet, Stage 3, including the diversion dam; Perforated HDPE Pipe (1m dia.) Perforated pipe leading from dam fill to lower portal inlet, (Sustaining Capital CAD\$40,666)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3693.00	[Y20] - McTagg Tunnel East Inlet, Stage 3, including the diversion dam; Steel Pipe (1,000mm dia., 15mm wall) Pipe under dams and valves allow drain down for tunnel entry, including joints, fittings, valves, etc., (Sustaining Capital CAD\$56,652)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3694.00	[Y20] - McTagg Tunnel East Inlet, Stage 3, including the diversion dam; Steel Gate Valve (1,000mm diameter, 30 psi) Valve to allow inlet dam draindown for access, (Sustaining Capital CAD\$18,385)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3695.00	[Y20] - McTagg Tunnel East Inlet, Stage 3, including the diversion dam; Geobrug Steel Netting Assumed 150% of the total tunnel area. 2*4.3m*4.0m*1.5=52m2 / intake, (Sustaining Capital CAD\$10,005)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3696.00	[Y20] - McTagg Tunnel East Inlet, Stage 3, including the diversion dam; CIP Concrete Concrete weir installed in the tunnel. Assumed 1m x 2m x the width of the tunnel, (Sustaining Capital CAD\$12,601)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3697.00	[Y20] - McTagg Tunnel East Inlet, Stage 3, including the diversion dam; Double Stoplog Barriers Stoplogs + beams + concrete + rock bolts, (Sustaining Capital CAD\$35,200)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3698.00	[Y20] - McTagg Tunnel East Inlet, Stage 3, including the diversion dam; Tunnel Plugs To control flow through the construction tunnel, (Sustaining Capital CAD\$129,925)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3699.00	[Y20] - McTagg Tunnel East Inlet, Stage 3, including the diversion dam; Grout Tunnel plug wall grouting, (Sustaining Capital CAD\$10,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3700.00	[Y10] - West McTagg Valley Diversion Ditch - Phase 1 (Raised on Berm of Mine Rock Placed along West Side of Valley) - Connects with WSF Bypass Pipeline; Logging Contract removal of merchantable timber., (Sustaining Capital CAD\$12,555)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3701.00	[Y10] - West McTagg Valley Diversion Ditch - Phase 1 (Raised on Berm of Mine Rock Placed along West Side of Valley) - Connects with WSF Bypass Pipeline; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury., (Sustaining Capital CAD\$15,545)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3702.00	[Y10] - West McTagg Valley Diversion Ditch - Phase 1 (Raised on Berm of Mine Rock Placed along West Side of Valley) - Connects with WSF Bypass Pipeline; Foundation Sub-excavation Remove topsoil and stockpile in designated area. Average excavation depth = 0.3 m., (Sustaining Capital CAD\$48,844)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3703.00	[Y10] - West McTagg Valley Diversion Ditch - Phase 1 (Raised on Berm of Mine Rock Placed along West Side of Valley) - Connects with WSF Bypass Pipeline; Topsoil removal and stockpiling Remove topsoil and stockpile in designated area. Average excavation depth = 0.3 m., (Sustaining Capital CAD\$55,334)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3704.00	[Y10] - West McTagg Valley Diversion Ditch - Phase 1 (Raised on Berm of Mine Rock Placed along West Side of Valley) - Connects with WSF Bypass Pipeline; Bitumenous Liner Geomembrane liner at the bottom of diversion ditch - Bitumen specified to allow raising and installation during winter low flow period., (Sustaining Capital CAD\$322,056)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3705.00	[Y10] - West McTagg Valley Diversion Ditch - Phase 1 (Raised on Berm of Mine Rock Placed along West Side of Valley) - Connects with WSF Bypass Pipeline; Compacted Moraine Bedding Protective moraine cover over geosynthetic liner (0.3m) to allow passage of snow clearing equipment and 0.3 m bedding layer under liner, (Sustaining Capital CAD\$134,650)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F61-1.02-3706.00	[Y10] - West McTagg Valley Diversion Ditch - Phase 1 (Raised on Berm of Mine Rock Placed along West Side of Valley) - Connects with WSF Bypass Pipeline; HDPE Pipe Supply and install two 1m dia. Pipe in diversion ditch in 1.5km avalanche prone sections, (Sustaining Capital CAD\$2,439,960)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3707.00	[Y10] - West McTagg Valley Diversion Ditch - Phase 1 (Raised on Berm of Mine Rock Placed along West Side of Valley) - Connects with WSF Bypass Pipeline; Pipe Bedding Material Place and compact bedding material to cover pipes, (Sustaining Capital CAD\$192,307)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3708.00	[Y15] - West McTagg Valley Diversion Ditch - Phase 2 (Raised on mine rock of RSF halfway up valley side - Including Extension to Rock Step Spillway); Logging Contract removal of merchantable timber., (Sustaining Capital CAD\$12,555)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3709.00	[Y15] - West McTagg Valley Diversion Ditch - Phase 2 (Raised on mine rock of RSF halfway up valley side - Including Extension to Rock Step Spillway); Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury., (Sustaining Capital CAD\$15,545)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3710.00	[Y15] - West McTagg Valley Diversion Ditch - Phase 2 (Raised on mine rock of RSF halfway up valley side - Including Extension to Rock Step Spillway); Topsoil removal and stockpiling Remove topsoil and stockpile in designated area. Average excavation depth = 0.3 m., (Sustaining Capital CAD\$55,334)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3711.00	[Y15] - West McTagg Valley Diversion Ditch - Phase 2 (Raised on mine rock of RSF halfway up valley side - Including Extension to Rock Step Spillway); Foundation Sub-excavation Remove topsoil and stockpile in designated area. Average excavation depth = 0.3 m., (Sustaining Capital CAD\$48,844)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3712.00	[Y15] - West McTagg Valley Diversion Ditch - Phase 2 (Raised on mine rock of RSF halfway up valley side - Including Extension to Rock Step Spillway); Bitumenous Liner Geomembrane liner at the bottom of diversion ditch - Bitumen specified to allow raising and installation during winter low flow period., (Sustaining Capital CAD\$322,056)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3713.00	[Y15] - West McTagg Valley Diversion Ditch - Phase 2 (Raised on mine rock of RSF halfway up valley side - Including Extension to Rock Step Spillway); Compacted Moraine Bedding Protective moraine cover over geosynthetic liner (0.3m) to allow passage of snow clearing equipment and 0.3 m bedding layer under liner, (Sustaining Capital CAD\$129,034)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3714.00	[Y15] - West McTagg Valley Diversion Ditch - Phase 2 (Raised on mine rock of RSF halfway up valley side - Including Extension to Rock Step Spillway); Common Excavation Overburden excavation for step spillway, (Sustaining Capital CAD\$42,656)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3715.00	[Y15] - West McTagg Valley Diversion Ditch - Phase 2 (Raised on mine rock of RSF halfway up valley side - Including Extension to Rock Step Spillway); Rock Excavation of step spillway (custom) Rock excavation for step spillway, (Sustaining Capital CAD\$2,706,716)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3716.00	[Y15] - West McTagg Valley Diversion Ditch - Phase 2 (Raised on mine rock of RSF halfway up valley side - Including Extension to Rock Step Spillway); Rock Support for Step Spillway Cut Mesh and bolts allowance, (Sustaining Capital CAD\$50,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3717.00	[Y15] - West McTagg Valley Diversion Ditch - Phase 2 (Raised on mine rock of RSF halfway up valley side - Including Extension to Rock Step Spillway); Riprap (d50 = 200mm) Riprap installed at the bottom of the spillway. Assumed 1m thick, (Sustaining Capital CAD\$130,624)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F61-1.02-3718.00	[Y15] - West McTagg Valley Diversion Ditch - Phase 2 (Raised on mine rock of RSF halfway up valley side - Including Extension to Rock Step Spillway); Dental Shotcrete Dental shotcrete over the spillway extension. Assumed 20% area of spillway with average depth = 0.15m, (Sustaining Capital CAD\$91,476)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3719.00	[Y15] - West McTagg Valley Diversion Ditch - Phase 2 (Raised on mine rock of RSF halfway up valley side - Including Extension to Rock Step Spillway); HDPE Pipe Supply and install two 1m dia. Pipe in diversion ditch in 1.5km avalanche prone sections, (Sustaining Capital CAD\$2,439,960)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3720.00	[Y15] - West McTagg Valley Diversion Ditch - Phase 2 (Raised on mine rock of RSF halfway up valley side - Including Extension to Rock Step Spillway); Pipe Bedding Material Place and compact bedding material, (Sustaining Capital CAD\$192,301)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3721.00	[Y20] - West McTagg Valley Diversion Ditch - Phase 3 (On mine rock of ultimate height RSF - Including raise to extend Rock Step Spillway to ultimate height); Logging Contract removal of merchantable timber., (Sustaining Capital CAD\$12,555)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3722.00	[Y20] - West McTagg Valley Diversion Ditch - Phase 3 (On mine rock of ultimate height RSF - Including raise to extend Rock Step Spillway to ultimate height); Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury., (Sustaining Capital CAD\$15,545)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3723.00	[Y20] - West McTagg Valley Diversion Ditch - Phase 3 (On mine rock of ultimate height RSF - Including raise to extend Rock Step Spillway to ultimate height); Topsoil removal and stockpiling Remove topsoil and stockpile in designated area. Average excavation depth = 0.3 m., (Sustaining Capital CAD\$25,959)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3724.00	[Y20] - West McTagg Valley Diversion Ditch - Phase 3 (On mine rock of ultimate height RSF - Including raise to extend Rock Step Spillway to ultimate height); Foundation Sub-excavation Remove topsoil and stockpile in designated area. Average excavation depth = 0.3 m., (Sustaining Capital CAD\$48,844)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3725.00	[Y20] - West McTagg Valley Diversion Ditch - Phase 3 (On mine rock of ultimate height RSF - Including raise to extend Rock Step Spillway to ultimate height); Common Excavation Overburden excavation for step spillway, (Sustaining Capital CAD\$71,094)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3726.00	[Y20] - West McTagg Valley Diversion Ditch - Phase 3 (On mine rock of ultimate height RSF - Including raise to extend Rock Step Spillway to ultimate height); Rock Excavation (custom) Rock excavation for step spillway, (Sustaining Capital CAD\$7,892,600)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3727.00	[Y20] - West McTagg Valley Diversion Ditch - Phase 3 (On mine rock of ultimate height RSF - Including raise to extend Rock Step Spillway to ultimate height); Rock Support for Spillway Cut Mesh and bolts allowance, (Sustaining Capital CAD\$50,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3728.00	[Y20] - West McTagg Valley Diversion Ditch - Phase 3 (On mine rock of ultimate height RSF - Including raise to extend Rock Step Spillway to ultimate height); Dental Shotcrete Dental shotcrete over the spillway extension. Assumed 20% area of spillway with average depth = 0.15m, (Sustaining Capital CAD\$101,528)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3729.00	[Y20] - North McTagg Valley Diversion Ditch - Phase 3 (On mine rock of ultimate height RSF); Logging Contract removal of merchantable timber., (Sustaining Capital CAD\$9,263)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3730.00	[Y20] - North McTagg Valley Diversion Ditch - Phase 3 (On mine rock of ultimate height RSF); Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury., (Sustaining Capital CAD\$11,469)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F61-1.02-3731.00	[Y20] - North McTagg Valley Diversion Ditch - Phase 3 (On mine rock of ultimate height RSF); Topsoil removal and stockpiling Remove topsoil and stockpile in designated area. Average excavation depth = 0.3 m., (Sustaining Capital CAD\$13,858)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3732.00	[Y20] - North McTagg Valley Diversion Ditch - Phase 3 (On mine rock of ultimate height RSF); Bitumenous Liner Geomembrane liner at the bottom of diversion ditch - Bitumen specified to allow raising and installation during winter low flow period., (Sustaining Capital CAD\$258,552)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3733.00	[Y20] - North McTagg Valley Diversion Ditch - Phase 3 (On mine rock of ultimate height RSF); Compacted Moraine Bedding Protective moraine cover over geosynthetic liner (0.3m) to allow passage of snow clearing equipment and 0.3 m bedding layer under liner, (Sustaining Capital CAD\$64,586)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F61-1.02-3734.00	Temporary Sulphurets RSF, North Diversion Ditch; Logging Contract removal of merchantable timber.	2.11 ha	26.26	1.00	55.30	103.68	5,733	0.00	0	3,628.80	7,641	0.00	0	6,351.44	13,374
F61-1.02-3735.00	Temporary Sulphurets RSF, North Diversion Ditch; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury.	2.11 ha	38.50	1.00	81.07	103.68	8,405	0.00	0	3,872.64	8,155	0.00	0	7,864.32	16,560
F61-1.02-3736.00	Temporary Sulphurets RSF, North Diversion Ditch; Topsoil Removal and Stockpiling Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m	6,317.22 m3	0.04	1.00	252.69	103.68	26,199	0.00	0	5.18	32,748	0.00	0	9.33	58,947
F61-1.02-3737.00	Temporary Sulphurets RSF, North Diversion Ditch; Common Excavation Assumed 50% common excavation	75,000. m3	0.03	1.00	2,475.00	103.68	256,608	0.00	0	4.61	345,600	0.00	0	8.03	602,208
F61-1.02-3738.00	Temporary Sulphurets RSF, North Diversion Ditch; Rock Excavation (bulk blasting) Assumed 50% rock excavation	75,000. m3	0.05	1.00	3,900.00	103.68	404,352	1.49	111,600	6.51	488,160	0.00	0	13.39	1,004,112
F61-1.02-3739.00	Temporary Sulphurets RSF, North Diversion Ditch; Rockfill Berm Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m	88,000. m3	0.05	1.00	4,400.00	103.68	456,192	0.00	0	5.58	490,829	0.00	0	10.76	947,021
F61-1.02-3740.00	Temporary Sulphurets RSF, North Diversion Ditch; Fibre-Reinforced Shotcrete Shotcrete placed at the bottom of diversion ditch on rock sections (assume 50% of flatter sections). Average thickness = 0.10m	1,150. m3	2.55	1.00	2,932.50	103.68	304,042	408.00	469,200	240.00	276,000	0.00	0	912.38	1,049,242
F61-1.02-3741.00	Temporary Sulphurets RSF, North Diversion Ditch; Local Moraine Fill Protective cover of moraine gravels to allow snow clearing = 0.5m	5,750. m3	0.04	1.00	241.50	103.68	25,039	0.00	0	5.76	33,120	0.00	0	10.11	58,159
F61-1.02-3742.00	Temporary Sulphurets RSF, North Diversion Ditch; Geomembrane bituminous Geomembrane. For sections on natural soils (assume 50% of flatter sections)	11,460. m2	0.03	1.00	355.26	103.68	36,833	8.64	99,014	2.88	33,005	0.00	0	14.73	168,853
F61-1.02-3743.00	Temporary Sulphurets RSF, North Diversion Ditch; Bedding Layer Moraine sands and gravels = 0.4m. For sections on natural soils (assume 50% of flatter sections)	4,584. m3	0.11	1.00	504.24	103.68	52,280	0.00	0	12.12	55,536	0.00	0	23.52	107,816
F61 - PAG Dump Operating Water Mgmt Structures Subtotal					581,555.56		60,295,680		45,429,096		67,569,167		0		173,293,943
<u>F62 - Waste Dump - WSD / Leachate Collection</u>															
F62-1.02-3745.00	Temporary Sulphurets RSF Collection Ditch; Logging Contract removal of merchantable timber.	3.93 ha	26.26	1.00	103.30	103.68	10,710	0.00	0	3,628.80	14,275	0.00	0	6,351.44	24,985



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F62-1.02-3746.00	Temporary Sulphurets RSF Collection Ditch; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury.	3.93 ha	38.50	1.00	151.45	103.68	15,702	0.00	0	3,872.64	15,234	0.00	0	7,864.32	30,937
F62-1.02-3747.00	Temporary Sulphurets RSF Collection Ditch; Topsoil Removal and Stockpiling Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m	11,801.4 m3	0.04	1.00	472.06	103.68	48,943	0.00	0	5.18	61,178	0.00	0	9.33	110,121
F62-1.02-3748.00	Temporary Sulphurets RSF Collection Ditch; Common Excavation Assumed 50% common excavation	80,200. m3	0.03	1.00	2,646.60	103.68	274,399	0.00	0	4.61	369,562	0.00	0	8.03	643,961
F62-1.02-3749.00	Temporary Sulphurets RSF Collection Ditch; Rock Excavation (bulk blasting) Assumed 50% rock excavation	80,200. m3	0.05	1.00	4,170.40	103.68	432,387	1.49	119,338	6.51	522,006	0.00	0	13.39	1,073,730
F62-1.02-3750.00	Temporary Sulphurets RSF Collection Ditch; Rockfill Berm Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m	160,400. m3	0.05	1.00	8,020.00	103.68	831,514	0.00	0	5.58	894,647	0.00	0	10.76	1,726,161
F62-1.02-3751.00	Temporary Sulphurets RSF Collection Ditch; Fibre-Reinforced Shotcrete Shotcrete placed at the bottom of diversion ditch on rock sections (assume 50% of flatter sections). Average thickness = 0.10m	2,141. m3	2.55	1.00	5,459.55	103.68	566,046	408.00	873,528	240.00	513,840	0.00	0	912.38	1,953,414
F62-1.02-3752.00	Temporary Sulphurets RSF Collection Ditch; Local Moraine Fill Protective cover of moraine gravels to allow snow clearing = 0.5m	10,705. m3	0.04	1.00	449.61	103.68	46,616	0.00	0	5.76	61,661	0.00	0	10.11	108,276
F62-1.02-3753.00	Temporary Sulphurets RSF Collection Ditch; Geomembrane bituminous Geomembrane. For sections on natural soils (assume 50% of flatter sections)	21,410. m2	0.03	1.00	663.71	103.68	68,813	8.64	184,982	2.88	61,661	0.00	0	14.73	315,457
F62-1.02-3754.00	Temporary Sulphurets RSF Collection Ditch; Bedding Layer Moraine sands and gravels = 0.4m. For sections on natural soils (assume 50% of flatter sections)	8,564. m3	0.11	1.00	942.04	103.68	97,671	0.00	0	12.12	103,755	0.00	0	23.52	201,425
F62-1.02-3755.00	[Y27] - Kerr Pit Dewatering Pipeline; Logging Contract removal of merchantable timber., (Sustaining Capital CAD\$33,021)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F62-1.02-3756.00	[Y27] - Kerr Pit Dewatering Pipeline; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury., (Sustaining Capital CAD\$40,886)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F62-1.02-3757.00	[Y27] - Kerr Pit Dewatering Pipeline; Topsoil Removal and Stockpiling Remove topsoil and stockpile in designated area, including clearing of glacial debris, (Sustaining Capital CAD\$145,538)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F62-1.02-3758.00	[Y27] - Kerr Pit Dewatering Pipeline; Common Excavation Excavate and dispose in designated area., (Sustaining Capital CAD\$184,825)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F62-1.02-3759.00	[Y27] - Kerr Pit Dewatering Pipeline; Rock Excavation (bulk blasting) Excavate and dispose in designated area., (Sustaining Capital CAD\$308,175)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F62-1.02-3760.00	[Y27] - Kerr Pit Dewatering Pipeline; Rock Fill (Random) Random local backfill on top of pipeline. Minimum depth = 1.4m, (Sustaining Capital CAD\$178,147)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F62-1.02-3761.00	[Y27] - Kerr Pit Dewatering Pipeline; Select Local Backfill Select local backfill on top of pipeline. Minimum depth = 0.3m, (Sustaining Capital CAD\$121,773)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F62-1.02-3762.00	[Y27] - Kerr Pit Dewatering Pipeline; Pipe Bedding Material Place and compact pipe bedding material., (Sustaining Capital CAD\$36,692)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F62-1.02-3763.00	[Y27] - Kerr Pit Dewatering Pipeline; Lined Steel Pipe (500mm dia.) supply and install pipeline including joints, fittings, valves, etc., (Sustaining Capital CAD\$379,215)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F62-1.02-3764.00	[Y27] - Kerr Pit Dewatering Pipeline; Lined Steel Pipe (700mm dia.) supply and install pipeline including joints, fittings, valves, etc., (Sustaining Capital CAD\$2,049,938)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F62-1.02-3765.00	[Y27] - Kerr Pit Dewatering Pipeline; Lined Steel Pipe (850mm dia.) supply and install pipeline including joints, fittings, valves, etc., (Sustaining Capital CAD\$2,351,224)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F62-1.02-3766.00	[Y27] - Kerr Pit Dewatering Pipeline; Pipe Insulation and Heat Tracing on Bridge Section Insulation and Heat tracing of pipe over Bridge Section, (Sustaining Capital CAD\$29,148)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F62-1.02-3767.00	[Y27] - Kerr Pit Dewatering Pipeline; Kerr Pit Dewatering (in pit pumping, piping etc.) by others Kerr pit dewatering pumping and piping. (Others)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F62 - Waste Dump - WSD / Leachate Collection Subtotal					23,078.72		2,392,802		1,177,848		2,617,818		0		6,188,468
F63 - Mitchell Diversion Tunnel Intake															
F63-1.02-3769.00	Stage I Glacier Toe Seepage Collection Gallery and Dam; Overburden Site Prep. Excavate and dispose in designated area site preparation	11,000. m2	0.04	1.00	385.00	103.68	39,917	0.00	0	4.61	50,688	0.00	0	8.24	90,605
F63-1.02-3770.00	Stage I Glacier Toe Seepage Collection Gallery and Dam; Ice Excavation Excavate and dispose in designated area.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F63-1.02-3771.00	Stage I Glacier Toe Seepage Collection Gallery and Dam; Rock Excavation (bulk blasting) Excavate and dispose in designated area for trench excavation for galleries.	22,400. m3	0.10	1.00	2,240.00	103.68	232,243	1.49	33,331	12.37	277,187	0.00	0	24.23	542,761
F63-1.02-3772.00	Stage I Glacier Toe Seepage Collection Gallery and Dam; Rock Fill Fill for gallery cover of 150mm to 300mm.	325. m3	0.03	1.00	10.73	103.68	1,112	0.00	0	4.61	1,498	0.00	0	8.03	2,610
F63-1.02-3773.00	Stage I Glacier Toe Seepage Collection Gallery and Dam; Gravel Fill Fill for gallery cover of 25mm to 50mm.	163. m3	0.03	1.00	5.38	103.68	558	0.00	0	4.61	751	0.00	0	8.03	1,309
F63-1.02-3774.00	Stage I Glacier Toe Seepage Collection Gallery and Dam; Air/Water Jet Cleaning of Bedrock Bedrock cleaning of core zone of dam and gallery foundation.	2,200. m2	0.14	1.00	312.40	103.68	32,390	0.00	0	2.30	5,069	0.00	0	17.03	37,458
F63-1.02-3775.00	Stage I Glacier Toe Seepage Collection Gallery and Dam; Slush Grout and Dental Concrete Of core zone of dam and gallery foundation. 150mm thick over 20% of surface	66. m3	2.55	1.00	168.30	103.68	17,449	384.00	25,344	192.00	12,672	0.00	0	840.38	55,465
F63-1.02-3776.00	Stage I Glacier Toe Seepage Collection Gallery and Dam; Flange Steel Sets and Struts A36 W8 x 35 wide flange steel sets and struts. Spacing 1m, 2 rows	200. ea	0.00	1.00	0.00	103.68	0	2,448.00	489,600	0.00	0	0.00	0	2,448.00	489,600
F63-1.02-3777.00	Stage I Glacier Toe Seepage Collection Gallery and Dam; Wire Mesh Cover over Steel Sets 152 x 152 MW47.6 x MW47.6 wire mesh cover (from RS Means) and another layer of finer mesh to hold gravel.	5,000. m2	0.03	1.00	125.00	103.68	12,960	10.37	51,840	19.20	96,000	0.00	0	32.16	160,800



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F63-1.02-3778.00	Stage I Glacier Toe Seepage Collection Gallery and Dam; Rock Excavation (bulk blasting) Rock Excavation for drain: 8 m high by 4m by 30 m (year 4 for phase 2)	960. m3	0.19	1.00	177.60	103.68	18,414	1.92	1,843	20.16	19,354	0.00	0	41.26	39,610
F63-1.02-3779.00	Stage I Glacier Toe Seepage Collection Gallery and Dam; Stoplog Slot Concrete Assumed two 5m3 stoplog slot installed in the galleries.	10. m3	4.18	1.00	41.80	103.68	4,334	288.00	2,880	96.00	960	0.00	0	817.38	8,174
F63-1.02-3780.00	Stage I Glacier Toe Seepage Collection Gallery and Dam; Stoplog Barrier Stoplogs + beams + concrete + rock bolts	2. LS	3.50	1.00	7.00	103.68	726	16,896.00	33,792	4,800.00	9,600	0.00	0	22,058.88	44,118
F63-1.02-3781.00	Stage I Glacier Toe Seepage Collection Gallery and Dam; Gabions 0.5m by 0.5m by 2.0 m Form Sediment Trap above inlet	400. ea	1.85	1.00	740.00	103.68	76,723	86.40	34,560	43.20	17,280	0.00	0	321.41	128,563
F63-1.02-3782.00	Stage I Glacier Toe Seepage Collection Gallery and Dam; Rock fill Rock fill for inlet dam random fill	5,600. m3	0.03	1.00	184.80	103.68	19,160	0.00	0	4.61	25,805	0.00	0	8.03	44,965
F63-1.02-3783.00	Stage I Glacier Toe Seepage Collection Gallery and Dam; Alluvium Fill Transition / Drain for inlet dam	1,600. m3	0.04	1.00	67.20	103.68	6,967	0.00	0	5.76	9,216	0.00	0	10.11	16,183
F63-1.02-3784.00	Stage I Glacier Toe Seepage Collection Gallery and Dam; Local Moraine Fill Core zone for inlet dam	1,600. m3	0.04	1.00	67.20	103.68	6,967	0.00	0	5.76	9,216	0.00	0	10.11	16,183
F63-1.02-3785.00	Stage I Glacier Toe Seepage Collection Gallery and Dam; Concrete Concrete for spillway	320. m3	4.18	1.00	1,337.60	103.68	138,682	288.00	92,160	96.00	30,720	0.00	0	817.38	261,562
F63-1.02-3786.00	[Y20] - Stage II (Ultimate) Glacier Toe Surface Seepage Collection Galleries; Common Excavation Excavate and dispose in designated area site preparation, (Sustaining Capital CAD\$33,456)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F63-1.02-3787.00	[Y20] - Stage II (Ultimate) Glacier Toe Surface Seepage Collection Galleries; Ice Excavation Excavate and dispose in designated area.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F63-1.02-3788.00	[Y20] - Stage II (Ultimate) Glacier Toe Surface Seepage Collection Galleries; Rock Excavation (bulk blasting) Excavate and dispose in designated area for trench excavation for galleries., (Sustaining Capital CAD\$1,059,896)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F63-1.02-3789.00	[Y20] - Stage II (Ultimate) Glacier Toe Surface Seepage Collection Galleries; Rock Fill Fill for gallery cover of 150mm to 300mm., (Sustaining Capital CAD\$7,319)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F63-1.02-3790.00	[Y20] - Stage II (Ultimate) Glacier Toe Surface Seepage Collection Galleries; Gravel Fill Fill for gallery cover of 25mm to 50mm., (Sustaining Capital CAD\$3,663)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F63-1.02-3791.00	[Y20] - Stage II (Ultimate) Glacier Toe Surface Seepage Collection Galleries; Air/Water Jet Cleaning of Bedrock Bedrock cleaning of gallery foundation., (Sustaining Capital CAD\$53,208)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F63-1.02-3792.00	[Y20] - Stage II (Ultimate) Glacier Toe Surface Seepage Collection Galleries; Slush Grout and Dental Concrete 150mm thick over 20% of surface, (Sustaining Capital CAD\$78,786)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F63-1.02-3793.00	[Y20] - Stage II (Ultimate) Glacier Toe Surface Seepage Collection Galleries; Flange Steel Sets and Struts A36 W8 x 35 wide flange steel sets and struts. Spacing 1m, 4 rows, (Sustaining Capital CAD\$1,020,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F63-1.02-3794.00	[Y20] - Stage II (Ultimate) Glacier Toe Surface Seepage Collection Galleries; Wire Mesh Cover over Steel Sets 152 x 152 MW47.6 x MW47.6 wire mesh cover (from RS Means) and another layer of finer mesh to hold gravel., (Sustaining Capital CAD\$348,400)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F63-1.02-3795.00	[Y20] - Stage II (Ultimate) Glacier Toe Surface Seepage Collection Galleries; Rock Excavation (bulk blasting) Rock Excavation for drain: 8 m high by 4m by 30 m (year 4 for phase 2), (Sustaining Capital CAD\$41,261)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F63-1.02-3796.00	[Y20] - Stage II (Ultimate) Glacier Toe Surface Seepage Collection Galleries; Stoplog Slot Concrete Assumed two 5m3 stoplog slot installed in the galleries., (Sustaining Capital CAD\$8,514)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F63-1.02-3797.00	[Y20] - Stage II (Ultimate) Glacier Toe Surface Seepage Collection Galleries; Stoplog Barrier Stoplogs + beams + concrete + rock bolts, (Sustaining Capital CAD\$35,200)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F63-1.02-3798.00	Geotechnical Investigation - Mitchell Glacier Inlet Area; Drilling and Geotechnical Work	1. LS	0.00	1.00	0.00	103.68	0	767,999.98	768,000	0.00	0	0.00	0	767,999.98	768,000
F63-1.02-3799.00	Snowfields Slope Diversion ARD Collection Ditch; Common Excavation Assumed 50% common excavation; 700m x cross sectional area 8.2 m2 x 50% rock	2,870. m3	0.03	1.00	94.71	103.68	9,820	0.00	0	4.61	13,225	0.00	0	8.03	23,044
F63-1.02-3800.00	Snowfields Slope Diversion ARD Collection Ditch; Rock Excavation (bulk blasting) Assumed 50% rock excavation; 700m x cross sectional area 8.2 m2 x 50% rock	2,870. m3	0.05	1.00	149.24	103.68	15,473	1.49	4,271	7.20	20,664	0.00	0	14.08	40,408
F63-1.02-3801.00	Snowfields Slope Diversion ARD Collection Ditch; Geomembrane bituminous Geomembrane. For sections on natural soils (assume 50% of flatter sections)	3,265.5 m2	0.03	1.00	101.23	103.68	10,496	8.64	28,214	2.88	9,405	0.00	0	14.73	48,114
F63-1.02-3802.00	Snowfields Slope Diversion ARD Collection Ditch; Bedding Layer Moraine sands and gravels = 0.4m. For sections on natural soils (assume 50% of flatter sections)	1,306.2 m3	0.11	1.00	143.68	103.68	14,897	0.00	0	12.12	15,825	0.00	0	23.52	30,722
F63-1.02-3803.00	Mitchell Glacier, North Slope Fresh Water Diversion Ditch; Common Excavation Assumed 50% common excavation	47,000. m3	0.03	1.00	1,551.00	103.68	160,808	0.00	0	4.61	216,576	0.00	0	8.03	377,384
F63-1.02-3804.00	Mitchell Glacier, North Slope Fresh Water Diversion Ditch; Rock Excavation (bulk blasting) Assumed 50% rock excavation	47,000. m3	0.05	1.00	2,444.00	103.68	253,394	1.49	69,936	6.51	305,914	0.00	0	13.39	629,244
F63-1.02-3805.00	Mitchell Glacier, North Slope Fresh Water Diversion Ditch; Rockfill Berm Assumed 50% rock excavation	47,000. m3	0.05	1.00	2,444.00	103.68	253,394	0.00	0	7.20	338,400	0.00	0	12.59	591,794
F63-1.02-3806.00	Mitchell Glacier, North Slope Fresh Water Diversion Ditch; Fibre-Reinforced Shotcrete Shotcrete placed at the bottom of diversion ditch on rock sections (assume 50% of flatter sections). Average thickness = 0.10m	1,214. m3	2.55	1.00	3,095.70	103.68	320,962	408.00	495,312	5.58	6,771	0.00	0	677.96	823,045
F63-1.02-3807.00	Mitchell Glacier, North Slope Fresh Water Diversion Ditch; Local Moraine Fill Protective cover of moraine gravels to allow snow clearing = 0.5m	6,070. m3	0.04	1.00	254.94	103.68	26,432	0.00	0	5.76	34,963	0.00	0	10.11	61,395
F63-1.02-3808.00	Mitchell Glacier, North Slope Fresh Water Diversion Ditch; HDPE Pipe (OD 72", includes installation labour) Three sections of pipe in gullies behind OPC	900. m	1.36	1.00	1,224.00	103.68	126,904	1,152.00	1,036,800	87.92	79,125	0.00	0	1,380.92	1,242,829
F63-1.02-3809.00	Mitchell Glacier, North Slope Fresh Water Diversion Ditch; Bedding Layer Moraine sands and gravels = 0.4m. For sections on natural soils (assume 50% of flatter sections)	360. m3	0.11	1.00	39.60	103.68	4,106	0.00	0	12.12	4,361	0.00	0	23.52	8,467



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F63-1.02-3810.00	o/p Phase Mitchell Diversion Tunnel Outlet; Rock Excavation (custom) Penstock and road rock excavation at end of Mitchell Diversion Tunnel	178,870.66 m3	0.05	1.00	8,943.53	103.68	927,265	1.49	266,160	6.51	1,164,233	0.00	0	13.18	2,357,658
F63-1.02-3811.00	o/p Phase Mitchell Diversion Tunnel Outlet; Rock Excavation (custom) Mitchell Flood Step Spillway (39 steps)	109,130.11 m3	0.09	1.00	9,821.71	103.68	1,018,315	1.92	209,530	13.19	1,439,470	0.00	0	24.44	2,667,314
F63-1.02-3812.00	o/p Phase Mitchell Diversion Tunnel Outlet; Rock Support for Spillway Cut Mesh and bolts allowance of \$10,000/step	39. step	0.00	1.00	0.00	103.68	0	9,600.00	374,400	0.00	0	0.00	0	9,600.00	374,400
F63-1.02-3813.00	o/p Phase Mitchell Diversion Tunnel Outlet; Concrete For spillway support (15 m3/step)	585. m3	4.18	1.00	2,445.30	103.68	253,529	288.00	168,480	96.00	56,160	0.00	0	817.38	478,169
F63-1.02-3814.00	[Y30] - u/g Phase Mitchell Diversion Tunnel Outlet; Rock Excavation (custom) Road rock excavation to end of u/g Mitchell Diversion Tunnel from o/p Tunnels, (Sustaining Capital CAD\$653,273)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F63-1.02-3815.00	[Y30] - u/g Phase Mitchell Diversion Tunnel Outlet; Rock Excavation (custom) Flip bucket approach (from portal to flip bucket), (Sustaining Capital CAD\$626,912)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F63-1.02-3816.00	[Y30] - u/g Phase Mitchell Diversion Tunnel Outlet; Rock Support for Flip Bucket Area Mesh and bolts allowance of \$71/m2, (Sustaining Capital CAD\$384,116)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F63-1.02-3817.00	[Y30] - u/g Phase Mitchell Diversion Tunnel Outlet; Concrete For Flip Bucket Protection (0.2 m3/m2), (Sustaining Capital CAD\$941,693)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F63 - Mitchell Diversion Tunnel Intake Subtotal					38,622.65		4,004,396		4,186,452		4,271,107		0		12,461,955
F64 - Mine Site Water Treatment Plant															
F64-1.02-3819.00	WTP Site Preparation; Logging Contract removal of merchantable timber.	10. ha	26.26	1.00	262.60	103.68	27,226	0.00	0	3,628.80	36,288	0.00	0	6,351.44	63,514
F64-1.02-3820.00	WTP Site Preparation; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury.	10. ha	38.50	1.00	385.00	103.68	39,917	0.00	0	3,872.64	38,726	0.00	0	7,864.32	78,643
F64-1.02-3821.00	WTP Site Preparation; Topsoil Removal and Stockpiling Remove topsoil and stockpile in designated area, including clearing of glacial debris	30,000. m3	0.04	1.00	1,200.00	103.68	124,416	0.00	0	5.18	155,520	0.00	0	9.33	279,936
F64-1.02-3822.00	WTP Site Preparation; Common Excavation WTP with ponds excavation	770,000. m3	0.03	1.00	25,410.00	103.68	2,634,509	0.00	0	4.61	3,548,160	0.00	0	8.03	6,182,669
F64-1.02-3823.00	WTP Site Preparation; Local Moraine Fill WTP fill volume	2,814.36 m3	0.04	1.00	118.20	103.68	12,255	0.00	0	5.76	16,211	0.00	0	10.11	28,466
F64-1.02-3824.00	WTP Construction (Plant costs from SGS-CEMI); Water Treatment Plant Four clarifiers are designed for the water treatment plant. - Costs from SGS	1. LS	0.00	1.00	0.00	103.68	0	70,704,958.42	70,704,958	0.00	0	0.00	0	70,704,958.42	70,704,958
F64-1.02-3825.00	WTP Construction (Plant costs from SGS-CEMI); Sludge Storage Facility Rescan Costs	1. LS	0.00	1.00	0.00	103.68	0	1,727,999.96	1,728,000	0.00	0	0.00	0	1,727,999.96	1,728,000



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F64-1.02-3826.00	[Y52] - WTP Construction (Plant costs from SGS-CEMI); Sludge Transfer Facility at OPC Rescan Costs, (Sustaining Capital CAD\$1,800,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F64-1.02-3827.00	WSD Low Level Outlet Pipeline from Water Storage Dam; Stainless Steel Pipe (0.8 dia.), 12 mm SS pipelines (0.81m) in concrete filled trench going up abutments in impoundment to trash racks, with flange connection to SS pipe through dam	615.38 m	4.65	1.00	2,861.54	103.68	296,684	960.00	590,769	144.00	88,615	0.00	0	1,586.11	976,069
F64-1.02-3828.00	WSD Low Level Outlet Pipeline from Water Storage Dam; Polyethylene Trash Racks Trashrack inlets at 20m vertical spacing along SS intake pipes buried on upstream abutments of WSD	14. ea	10.44	1.00	146.16	103.68	15,154	2,400.00	33,600	192.00	2,688	0.00	0	3,674.42	51,442
F64-1.02-3829.00	WSD Low Level Outlet Pipeline from Water Storage Dam; Stainless Steel Pipe (0.8 dia.), 12 mm Two low-level outlet pipes buried in concrete trenches beneath WSD dam	923.08 m	4.65	1.00	4,292.31	103.68	445,026	960.00	886,154	144.00	132,923	0.00	0	1,586.11	1,464,103
F64-1.02-3830.00	WSD Low Level Outlet Pipeline from Water Storage Dam; Lined Steel Pipe (850mm dia.) HDPE lined steel pipe buried under dam fill in berm crossing d/s dam toe.	300. m	3.65	1.00	1,095.90	103.68	113,623	480.00	144,000	144.00	43,200	0.00	0	1,002.74	300,823
F64-1.02-3831.00	WSD Low Level Outlet Pipeline from Water Storage Dam; 0.80m Stainless Steel Ball Valves - 150 psi 0.8m Stainless steel shutoff valves and actuator at end of outlet pipes beneath dam	2. LS	15.66	1.00	31.32	103.68	3,247	12,000.00	24,000	168.00	336	0.00	0	13,791.63	27,583
F64-1.02-3832.00	WSD Low Level Outlet Pipeline from Water Storage Dam; Timber Removal Contract removal of merchantable timber.	.72 ha	20.20	1.00	14.54	103.68	1,508	0.00	0	2,792.64	2,011	0.00	0	4,886.98	3,519
F64-1.02-3833.00	WSD Low Level Outlet Pipeline from Water Storage Dam; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury.	.72 ha	29.61	1.00	21.32	103.68	2,210	0.00	0	2,977.92	2,144	0.00	0	6,047.88	4,354
F64-1.02-3834.00	WSD Low Level Outlet Pipeline from Water Storage Dam; Topsoil Removal and Stockpiling Remove topsoil and stockpile in designated area, including clearing of glacial debris	2,160. m3	0.02	1.00	43.20	103.68	4,479	0.00	0	2.30	4,977	0.00	0	4.38	9,456
F64-1.02-3835.00	WSD Low Level Outlet Pipeline from Water Storage Dam; Common Excavation Excavate and dispose in designated area.	915. m3	0.03	1.00	30.20	103.68	3,131	0.00	0	4.61	4,216	0.00	0	8.03	7,347
F64-1.02-3836.00	WSD Low Level Outlet Pipeline from Water Storage Dam; Rock Excavation (bulk blasting) Rock excavation in inlet trench area. Excavate and dispose in designated area.	7,175. m3	0.10	1.00	717.50	103.68	74,390	1.49	10,676	12.37	88,786	0.00	0	24.23	173,853
F64-1.02-3837.00	WSD Low Level Outlet Pipeline from Water Storage Dam; Local Backfill Random local backfill on top of pipeline.	9,250. m3	0.03	1.00	305.25	103.68	31,648	0.00	0	4.61	42,624	0.00	0	8.03	74,272
F64-1.02-3838.00	WSD Low Level Outlet Pipeline from Water Storage Dam; Lined Steel Pipe (810mm dia.) incl. Joints, Fittings, etc. HDPE lined steel penstock pipe from WSF dam to WTP.	2,000. m	3.65	1.00	7,306.00	103.68	757,486	480.00	960,000	144.00	288,000	0.00	0	1,002.74	2,005,486
F64-1.02-3839.00	WSD Low Level Outlet Pipeline from Water Storage Dam; Rock Excavation (bulk blasting) Excavate trenches beneath dam footprint and dispose in designated area.	5,250. m3	0.10	1.00	525.00	103.68	54,432	1.49	7,812	12.37	64,966	0.00	0	24.23	127,210
F64-1.02-3840.00	WSD Low Level Outlet Pipeline from Water Storage Dam; CIP Concrete Backfill trenches under dam with concrete to keep pipe from collapsing under weight of dam	4,786.01 m3	2.08	1.00	9,954.90	103.68	1,032,124	192.00	918,914	96.00	459,457	0.00	0	503.65	2,410,495
F64-1.02-3841.00	WSD Low Level Outlet Pipeline from Water Storage Dam; CIP Concrete Backfill trenches in impoundment with concrete to keep pipe from collapsing under hydrostatic pressure	3,190.67 m3	2.08	1.00	6,636.60	103.68	688,083	192.00	612,609	96.00	306,305	0.00	0	503.65	1,606,997



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F64-1.02-3842.00	WSD Low Level Outlet Pipeline from Water Storage Dam; Asphalt Concrete (bitumen and aggregate) Line tops of trenches with asphalt (150mm)	692.31 m3	0.37	1.00	256.15	103.68	26,558	203.90	141,164	45.31	31,370	0.00	0	287.58	199,092
F64-1.02-3843.00	HDPE Pipeline from WSD Seepage Pond to WTP; Timber Removal Contract removal of merchantable timber.	.72 ha	26.26	1.00	18.91	103.68	1,960	0.00	0	3,628.80	2,613	0.00	0	6,351.44	4,573
F64-1.02-3844.00	HDPE Pipeline from WSD Seepage Pond to WTP; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury.	.72 ha	38.50	1.00	27.72	103.68	2,874	0.00	0	3,872.64	2,788	0.00	0	7,864.32	5,662
F64-1.02-3845.00	HDPE Pipeline from WSD Seepage Pond to WTP; Topsoil Removal and Stockpiling Remove topsoil and stockpile in designated area, including clearing of glacial debris	2,160. m3	0.02	1.00	43.20	103.68	4,479	0.00	0	2.30	4,977	0.00	0	4.38	9,456
F64-1.02-3846.00	HDPE Pipeline from WSD Seepage Pond to WTP; Common Excavation Excavate and dispose in designated area.	915. m3	0.03	1.00	30.20	103.68	3,131	0.00	0	4.61	4,216	0.00	0	8.03	7,347
F64-1.02-3847.00	HDPE Pipeline from WSD Seepage Pond to WTP; Rock Excavation (bulk blasting) Excavate and dispose in designated area.	7,175. m3	0.05	1.00	373.10	103.68	38,683	1.49	10,676	6.51	46,701	0.00	0	13.39	96,060
F64-1.02-3848.00	HDPE Pipeline from WSD Seepage Pond to WTP; Local Backfill Random local backfill on top of pipeline.	9,250. m3	0.03	1.00	305.25	103.68	31,648	0.00	0	4.61	42,624	0.00	0	8.03	74,272
F64-1.02-3849.00	HDPE Pipeline from WSD Seepage Pond to WTP; Concrete Mudmat Concrete mudmat supporting headwall, and trashrack.	18. m3	2.60	1.00	46.80	103.68	4,852	192.00	3,456	48.00	864	0.00	0	509.57	9,172
F64-1.02-3850.00	HDPE Pipeline from WSD Seepage Pond to WTP; HDPE Pipe (400mm dia.), incl. Joints, Fittings, etc. HDPE pipe from Seepage Pond to WTP. Dia = 400mm	1,280. m	0.70	1.00	896.00	103.68	92,897	230.40	294,912	69.68	89,186	0.00	0	372.65	476,996
F64-1.02-3851.00	HDPE Pipeline from WSD Seepage Pond to WTP; SS Valve (400mm dia) Stainless Gate Valve on seepage pipeline for maintenance	1. ea	15.66	1.00	15.66	103.68	1,624	12,000.00	12,000	144.00	144	0.00	0	13,767.63	13,768
F64 - Mine Site Water Treatment Plant Subtotal					63,370.53		6,570,256		77,083,702		5,551,636		0		89,205,594
<u>F65 - Temporary Pads For Seasonal Tunnel Muck Storage</u>															
F65-1.02-3853.00	Mitchell Teigen Tunnel (Mitchel Mine Portal/OPC PAG and N-PAG pads); Timber Removal Contract removal of merchantable timber. by other	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F65-1.02-3854.00	Mitchell Teigen Tunnel (Mitchel Mine Portal/OPC PAG and N-PAG pads); Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury. by other	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F65-1.02-3855.00	Mitchell Teigen Tunnel (Mitchel Mine Portal/OPC PAG and N-PAG pads); Topsoil Removal and Stockpiling PAG Muck Storage Pad - Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m.	38,400. m3	0.04	1.00	1,536.00	103.68	159,252	0.00	0	5.18	199,066	0.00	0	9.33	358,318
F65-1.02-3856.00	Mitchell Teigen Tunnel (Mitchel Mine Portal/OPC PAG and N-PAG pads); Bedding Layer PAG Muck Storage Pad - Bedding material used under the bitumen liner. Assume average depth of 0.3m	38,400. m3	0.11	1.00	4,224.00	103.68	437,944	0.00	0	12.12	465,224	0.00	0	23.52	903,168
F65-1.02-3857.00	Mitchell Teigen Tunnel (Mitchel Mine Portal/OPC PAG and N-PAG pads); Bitumen Liner PAG Muck Storage Pad - Supply and install liner for temporary lined muck storage.	128,000. m2	0.09	1.00	11,520.00	103.68	1,194,394	10.27	1,314,816	1.34	172,032	0.00	0	20.95	2,681,242



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F65-1.02-3858.00	Mitchell Teigen Tunnel (Mitchel Mine Portal/OPC PAG and N-PAG pads); Bedding Layer PAG Muck Storage Pad- Bedding material used under the pad. Assumed average depth = 0.3m.	38,400. m3	0.11	1.00	4,224.00	103.68	437,944	0.00	0	12.12	465,224	0.00	0	23.52	903,168
F65-1.02-3859.00	Mitchell Teigen Tunnel (Mitchel Mine Portal/OPC PAG and N-PAG pads); Tunnel Muck Haul Road Construction Access Road Construction from Portal to Pads. Estimated cost of cut 50% in rock, 50% soil on 50% side slope	.5 km	1,676.00	1.00	838.00	103.68	86,884	0.00	0	230,399.99	115,200	0.00	0	404,167.67	202,084
F65-1.02-3860.00	Mitchell Teigen Tunnel (Saddle Portal PAG and N-PAG pads); Timber Removal Contract removal of merchantable timber.	2. ha	26.26	1.00	52.52	103.68	5,445	0.00	0	3,628.80	7,258	0.00	0	6,351.44	12,703
F65-1.02-3861.00	Mitchell Teigen Tunnel (Saddle Portal PAG and N-PAG pads); Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury.	2. ha	38.50	1.00	77.00	103.68	7,983	0.00	0	3,872.64	7,745	0.00	0	7,864.32	15,729
F65-1.02-3862.00	Mitchell Teigen Tunnel (Saddle Portal PAG and N-PAG pads); Topsoil Removal and Stockpiling PAG Muck Storage Pad - Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m.	7,200. m3	0.02	1.00	144.00	103.68	14,930	0.00	0	2.30	16,589	0.00	0	4.38	31,519
F65-1.02-3863.00	Mitchell Teigen Tunnel (Saddle Portal PAG and N-PAG pads); Bedding Layer PAG Muck Storage Pad - Bedding material used under the bitumen liner. Assume average depth of 0.3m	7,200. m3	0.11	1.00	792.00	103.68	82,115	0.00	0	12.12	87,229	0.00	0	23.52	169,344
F65-1.02-3864.00	Mitchell Teigen Tunnel (Saddle Portal PAG and N-PAG pads); Bitumen Liner PAG Muck Storage Cover -Supply and install liner for temporary lined muck storage.	24,000. m2	0.09	1.00	2,160.00	103.68	223,949	10.27	246,528	1.34	32,256	0.00	0	20.95	502,733
F65-1.02-3865.00	Mitchell Teigen Tunnel (Saddle Portal PAG and N-PAG pads); Bedding Layer PAG Muck Storage Pad Bedding material used under the pad. Assumed average depth = 0.3m.	7,200. m3	0.11	1.00	792.00	103.68	82,115	0.00	0	12.12	87,229	0.00	0	23.52	169,344
F65-1.02-3866.00	Mitchell Teigen Tunnel (Saddle Portal PAG and N-PAG pads); Tunnel Muck Haul Road Construction Access Road Construction from Portal to Pads. Estimated cost of cut 50% in rock, 50% soil on 50% side slope	.5 km	1,676.00	1.00	838.00	103.68	86,884	0.00	0	230,399.99	115,200	0.00	0	404,167.67	202,084
F65-1.02-3867.00	Mitchell Diversion Tunnel - (N. Mitchell Portal) PAG and N-PAG pads; Timber Removal Contract removal of merchantable timber. by other	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F65-1.02-3868.00	Mitchell Diversion Tunnel - (N. Mitchell Portal) PAG and N-PAG pads; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury. by other	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F65-1.02-3869.00	Mitchell Diversion Tunnel - (N. Mitchell Portal) PAG and N-PAG pads; Topsoil Removal and Stockpiling PAG Muck Storage Pad -Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m.	3,900. m3	0.02	1.00	78.00	103.68	8,087	0.00	0	2.30	8,986	0.00	0	4.38	17,073
F65-1.02-3870.00	Mitchell Diversion Tunnel - (N. Mitchell Portal) PAG and N-PAG pads; Bedding Layer PAG Muck Storage Pad - Bedding material used under the bitumen liner. Assume average depth of 0.3m	3,900. m3	0.11	1.00	429.00	103.68	44,479	0.00	0	12.12	47,249	0.00	0	23.52	91,728
F65-1.02-3871.00	Mitchell Diversion Tunnel - (N. Mitchell Portal) PAG and N-PAG pads; Bitumen Liner PAG Muck Storage Cover - Supply and install liner for temporary lined muck storage.	13,000. m2	0.09	1.00	1,170.00	103.68	121,306	10.27	133,536	1.34	17,472	0.00	0	20.95	272,314
F65-1.02-3872.00	Mitchell Diversion Tunnel - (N. Mitchell Portal) PAG and N-PAG pads; Bedding Layer PAG Muck Storage Pad Bedding material used under the pad. Assumed average depth = 0.3m.	3,900. m3	0.11	1.00	429.00	103.68	44,479	0.00	0	12.12	47,249	0.00	0	23.52	91,728
F65-1.02-3873.00	Mitchell Diversion Tunnel - (N. Mitchell Portal) PAG and N-PAG pads; Tunnel Muck Haul Road Construction Access Road Construction from Portal to Pads. Estimated cost of cut 50% in rock, 50% soil on 50% side slope	.4 km	1,676.00	1.00	670.40	103.68	69,507	0.00	0	230,399.99	92,160	0.00	0	404,167.67	161,667



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F65-1.02-3874.00	Mitchell Diversion Tunnel - (N. Mitchell Portal) PAG and N-PAG pads; HDPE Pipe (ID 29", 80 psi), incl. Joints, Fittings Divert ARD water to temp water treatment plant at OPC Pad - 20" dia.	4,000. m	0.70	1.00	2,800.00	103.68	290,304	432.00	1,728,000	69.68	278,707	0.00	0	574.25	2,297,011
F65-1.02-3875.00	Mitchell Diversion Tunnel - (Sulphurets Portal) PAG and N-PAG pads; Timber Removal Contract removal of merchantable timber.	2. ha	26.26	1.00	52.52	103.68	5,445	0.00	0	3,628.80	7,258	0.00	0	6,351.44	12,703
F65-1.02-3876.00	Mitchell Diversion Tunnel - (Sulphurets Portal) PAG and N-PAG pads; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury.	2. ha	38.50	1.00	77.00	103.68	7,983	0.00	0	3,872.64	7,745	0.00	0	7,864.32	15,729
F65-1.02-3877.00	Mitchell Diversion Tunnel - (Sulphurets Portal) PAG and N-PAG pads; Topsoil Removal and Stockpiling PAG Muck Storage Pad - Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m.	3,840. m3	0.02	1.00	76.80	103.68	7,963	0.00	0	2.30	8,847	0.00	0	4.38	16,810
F65-1.02-3878.00	Mitchell Diversion Tunnel - (Sulphurets Portal) PAG and N-PAG pads; Bedding Layer PAG Muck Storage Pad - Bedding material used under the bitumen liner. Assume average depth of 0.3m	3,840. m3	0.11	1.00	422.40	103.68	43,794	0.00	0	12.12	46,522	0.00	0	23.52	90,317
F65-1.02-3879.00	Mitchell Diversion Tunnel - (Sulphurets Portal) PAG and N-PAG pads; Bitumen Liner PAG Muck Storage Cover - Supply and install liner for temporary lined muck storage.	12,800. m2	0.09	1.00	1,152.00	103.68	119,439	10.27	131,482	1.34	17,203	0.00	0	20.95	268,124
F65-1.02-3880.00	Mitchell Diversion Tunnel - (Sulphurets Portal) PAG and N-PAG pads; Bedding Layer PAG Muck Storage Pad - Bedding material used on the pads. Assumed average depth = 0.3m.	3,900. m3	0.11	1.00	429.00	103.68	44,479	0.00	0	12.12	47,249	0.00	0	23.52	91,728
F65-1.02-3881.00	Mitchell Diversion Tunnel - (Sulphurets Portal) PAG and N-PAG pads; Tunnel Muck Haul Road Construction Access Road Construction from Portal to Pads. Estimated cost of cut 50% in rock, 50% soil on 50% side slope	1.4 km	1,676.00	1.00	2,346.40	103.68	243,275	0.00	0	230,399.99	322,560	0.00	0	404,167.67	565,835
F65-1.02-3882.00	McTagg Diversion Tunnel - (Stage 1 Inlet Portal) N-PAG pad; Timber Removal Contract removal of merchantable timber.	1. ha	26.26	1.00	26.26	103.68	2,723	0.00	0	3,628.80	3,629	0.00	0	6,351.44	6,351
F65-1.02-3883.00	McTagg Diversion Tunnel - (Stage 1 Inlet Portal) N-PAG pad; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury.	1. ha	38.50	1.00	38.50	103.68	3,992	0.00	0	3,872.64	3,873	0.00	0	7,864.32	7,864
F65-1.02-3884.00	McTagg Diversion Tunnel - (Stage 1 Inlet Portal) N-PAG pad; Tunnel Muck Haul Road Construction Access Road Construction from Portal to Pads. Estimated cost of cut 50% in rock, 50% soil on 50% side slope	1. km	1,676.00	1.00	1,676.00	103.68	173,768	0.00	0	230,399.99	230,400	0.00	0	404,167.67	404,168
F65-1.02-3885.00	McTagg Diversion Tunnel - Gingrass Creek Portal N-PAG pad; Timber Removal Contract removal of merchantable timber.	1. ha	26.26	1.00	26.26	103.68	2,723	0.00	0	3,628.80	3,629	0.00	0	6,351.44	6,351
F65-1.02-3886.00	McTagg Diversion Tunnel - Gingrass Creek Portal N-PAG pad; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury.	1. ha	38.50	1.00	38.50	103.68	3,992	0.00	0	3,872.64	3,873	0.00	0	7,864.32	7,864
F65-1.02-3887.00	McTagg Diversion Tunnel - Gingrass Creek Portal N-PAG pad; Tunnel Muck Haul Road Construction Access Road Construction from Portal to Pads. Estimated cost of cut 50% in rock, 50% soil on 50% side slope	.5 km	1,676.00	1.00	838.00	103.68	86,884	0.00	0	230,399.99	115,200	0.00	0	404,167.67	202,084
F65 - Temporary Pads For Seasonal Tunnel Muck Storage Subtotal					39,973.56		4,144,459		3,554,362		3,080,063		0		10,778,883
<u>F66 - Temporary Water Treatment Plants and Settling Ponds</u>															
F66-1.02-3889.00	Mitchell Teigen Tunnel (Mitchell Portal and OPC Cuts) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; Temporary TSS Water Treatment Plant TSS Treatment Plant 87 L/s	1. LS	0.00	1.00	0.00	103.68	0	53,609.28	53,609	0.00	0	0.00	0	53,609.28	53,609



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F66-1.02-3890.00	Mitchell Teigen Tunnel (Mitchell Portal and OPC Cuts) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; Topsoil Removal and Stockpiling NAG Sediment Pond - Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m.	7,095. m3	0.02	1.00	141.90	103.68	14,712	0.00	0	2.30	16,347	0.00	0	4.38	31,059
F66-1.02-3891.00	Mitchell Teigen Tunnel (Mitchell Portal and OPC Cuts) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; Topsoil Removal and Stockpiling PAG ARD Sediment Pond- Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m.	5,744.1 m3	0.02	1.00	114.88	103.68	11,911	0.00	0	2.30	13,234	0.00	0	4.38	25,145
F66-1.02-3892.00	Mitchell Teigen Tunnel (Mitchell Portal and OPC Cuts) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; Common Excavation NAG Pad Sediment Pond - Excavate pond, place material for berm fill.	78,045. m3	0.03	1.00	2,575.49	103.68	267,026	0.00	0	4.61	359,631	0.00	0	8.03	626,658
F66-1.02-3893.00	Mitchell Teigen Tunnel (Mitchell Portal and OPC Cuts) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; Common Excavation PAG ARD Sediment Pond - Excavate and dispose in designated area for treatment ponds.	63,185.1 m3	0.03	1.00	2,085.11	103.68	216,184	0.00	0	4.61	291,157	0.00	0	8.03	507,341
F66-1.02-3894.00	Mitchell Teigen Tunnel (Mitchell Portal and OPC Cuts) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; Temporary ARD Plant (SGS-CME) 150 L/s CME ARD Treatment plant 150 L/s	1. LS	0.00	1.00	0.00	103.68	0	932,159.98	932,160	0.00	0	0.00	0	932,159.98	932,160
F66-1.02-3895.00	Mitchell Teigen Tunnel (Mitchell Portal and OPC Cuts) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; HDPE Liner ARD Pond - Supply and install liner. Average liner thickness = 80mm.	23,650. m2	0.04	1.00	946.00	103.68	98,081	7.68	181,632	2.69	63,571	0.00	0	14.52	343,284
F66-1.02-3896.00	Mitchell Teigen Tunnel (Mitchell Portal and OPC Cuts) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; Geotextile Filter Cloth Geotextile Filter Cloth to cover rock drains between OPC / FOS / Crusher gullies 500m x 15m x 4 gullies (assumes rock drains select mine rock placed at no additional cost)	30,000. m2	0.02	1.00	600.00	103.68	62,208	0.82	24,480	0.05	1,440	0.00	0	2.94	88,128
F66-1.02-3897.00	Mitchell Teigen Tunnel (Mitchell Portal and OPC Cuts) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; Riprap (d50 = 200mm) NAG Sediment pond overflow -Placement of rip-rap for pond overflow channel	2. m3	0.14	1.00	0.28	103.68	29	0.11	0	13.98	28	0.00	0	28.60	57
F66-1.02-3898.00	Mitchell Teigen Tunnel (Mitchell Portal and OPC Cuts) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; Riprap (d50 = 200mm) PAG ARD pond overflow -Placement of rip-rap for pond overflow channel, and ditch under OPC Pad	2,902. m3	0.14	1.00	406.28	103.68	42,123	0.11	306	13.98	40,563	0.00	0	28.60	82,993
F66-1.02-3899.00	Mitchell Teigen Tunnel (Mitchell Portal and OPC Cuts) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; Common Excavation Excavation for Diversion ditches around Pads and collection ditches for Ponds	19,800. m3	0.03	1.00	653.40	103.68	67,745	0.00	0	4.61	91,238	0.00	0	8.03	158,983
F66-1.02-3900.00	Mitchell Teigen Tunnel (Mitchell Portal and OPC Cuts) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; Common Excavation Excavation for Buried Pipeline	4,900. m3	0.03	1.00	161.70	103.68	16,765	0.00	0	4.61	22,579	0.00	0	8.03	39,344
F66-1.02-3901.00	Mitchell Teigen Tunnel (Mitchell Portal and OPC Cuts) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; Pipe for Buried PAG affected water from OPC and MDT Portal 350mm HPDE	4,900. m	1.20	1.00	5,880.00	103.68	609,638	148.80	729,120	72.00	352,800	0.00	0	345.22	1,691,558
F66-1.02-3902.00	Mitchell Teigen Tunnel (Mitchell Portal and OPC Cuts) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; Drain Rock for drainage and filtering through the perforated pipe (TSS Pond)	5. m3	0.10	1.00	0.50	103.68	52	0.00	0	12.51	63	0.00	0	22.88	114
F66-1.02-3903.00	Mitchell Teigen Tunnel (Mitchell Portal and OPC Cuts) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; HDPE 400mm Perforated Pipe to drain the ponds (TSS)	20. lm	0.70	1.00	14.00	103.68	1,452	230.40	4,608	69.68	1,394	0.00	0	372.65	7,453
F66-1.02-3904.00	Mitchell Teigen Tunnel (Mitchell Portal and OPC Cuts) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; HDPE 400mm Pipe to drain the ponds (ARD)	20. lm	0.70	1.00	14.00	103.68	1,452	230.40	4,608	69.68	1,394	0.00	0	372.65	7,453



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F66-1.02-3905.00	Mitchell Teigen Tunnel (Construction Access Adit) N-PAG Tunnel Muck TSS Pond; Timber Removal Contract removal of merchantable timber.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F66-1.02-3906.00	Mitchell Teigen Tunnel (Construction Access Adit) N-PAG Tunnel Muck TSS Pond; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F66-1.02-3907.00	Mitchell Teigen Tunnel (Construction Access Adit) N-PAG Tunnel Muck TSS Pond; Temporary TSS Water Treatment Plant TSS Treatment Plant 87 L/s	1. LS	0.00	1.00	0.00	103.68	0	53,609.28	53,609	0.00	0	0.00	0	53,609.28	53,609
F66-1.02-3908.00	Mitchell Teigen Tunnel (Construction Access Adit) N-PAG Tunnel Muck TSS Pond; Topsoil Removal and Stockpiling NAG Muck Storage Pad - Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F66-1.02-3909.00	Mitchell Teigen Tunnel (Construction Access Adit) N-PAG Tunnel Muck TSS Pond; Common Excavation North Runoff Collection Ditch - Excavate and use excavated material to build upper haulroad. Assumed 100% common excavation.	14,000. m3	0.03	1.00	462.00	103.68	47,900	0.00	0	4.61	64,512	0.00	0	8.03	112,412
F66-1.02-3910.00	Mitchell Teigen Tunnel (Construction Access Adit) N-PAG Tunnel Muck TSS Pond; Foundation preparation North Runoff Collection Ditch - Proof-roll excavated surface.	13,000. m2	0.01	1.00	65.00	103.68	6,739	0.00	0	0.57	7,363	0.00	0	1.08	14,102
F66-1.02-3911.00	Mitchell Teigen Tunnel (Construction Access Adit) N-PAG Tunnel Muck TSS Pond; Geotextile North Runoff Collection Ditch - Place non-woven geotextile, in steeper section east of upper haulroad.	4,600. m2	0.01	1.00	46.00	103.68	4,769	2.31	10,643	0.17	795	0.00	0	3.52	16,207
F66-1.02-3912.00	Mitchell Teigen Tunnel (Construction Access Adit) N-PAG Tunnel Muck TSS Pond; Riprap North Runoff Collection Ditch - Place Riprap (D50=400mm), 0.80m thick in steeper section east of upper haulroad.	3,200. m3	0.14	1.00	448.00	103.68	46,449	0.11	338	13.98	44,728	0.00	0	28.60	91,515
F66-1.02-3913.00	Mitchell Teigen Tunnel (Construction Access Adit) N-PAG Tunnel Muck TSS Pond; Common Excavation South Seepage Collection Ditch below Pad - Excavate and use excavated material to build collection berm. Assumed 100% common excavation.	1,000. m3	0.03	1.00	33.00	103.68	3,421	0.00	0	4.61	4,608	0.00	0	8.03	8,029
F66-1.02-3914.00	Mitchell Teigen Tunnel (Construction Access Adit) N-PAG Tunnel Muck TSS Pond; Foundation preparation South Seepage Collection Ditch below Pad - Proof-roll excavated ditch.	1,800. m2	0.01	1.00	12.60	103.68	1,306	0.00	0	0.60	1,089	0.00	0	1.33	2,395
F66-1.02-3915.00	Mitchell Teigen Tunnel (Construction Access Adit) N-PAG Tunnel Muck TSS Pond; Common Excavation Pond - Excavate sediment collection pond (side slopes 2.5H:1V) and stockpile material in designated area. Assumed 100% common excavation.	14,000. m3	0.03	1.00	462.00	103.68	47,900	0.00	0	4.61	64,512	0.00	0	8.03	112,412
F66-1.02-3916.00	Mitchell Teigen Tunnel (Construction Access Adit) N-PAG Tunnel Muck TSS Pond; Roller Compaction of Foundation Pond - Proof-roll foundation and side slopes.	6,300. m2	0.01	1.00	31.50	103.68	3,266	0.00	0	0.57	3,568	0.00	0	1.08	6,834
F66-1.02-3917.00	Mitchell Teigen Tunnel (Construction Access Adit) N-PAG Tunnel Muck TSS Pond; Bedding Layer Pond - Bedding material used under the HDPE liner. Assume average depth of 0.3m	1,900. m3	0.11	1.00	209.00	103.68	21,669	0.00	0	12.12	23,019	0.00	0	23.52	44,688
F66-1.02-3918.00	Mitchell Teigen Tunnel (Construction Access Adit) N-PAG Tunnel Muck TSS Pond; HDPE Liner Pond - Supply and install liner for temporary sediment collection pond.	6,400. m2	0.06	1.00	384.00	103.68	39,813	3.36	21,504	0.49	3,133	0.00	0	10.07	64,451
F66-1.02-3919.00	Mitchell Teigen Tunnel (Construction Access Adit) N-PAG Tunnel Muck TSS Pond; Tunnel Muck Haul Road Construction Tunnel Muck Haul Road Construction to top of temporary Pad; Access Road Construction from Portal to Pads.	900. m	0.54	1.00	486.00	103.68	50,388	0.00	0	65.79	59,210	0.00	0	121.78	109,598



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F66-1.02-3920.00	Mitchell Teigen Tunnel (Construction Access Adit) N-PAG Tunnel Muck TSS Pond; Common Excavation Pond Spillway - Excavate. Assumed 100% common excavation.	400. m3	0.03	1.00	13.20	103.68	1,369	0.00	0	4.61	1,843	0.00	0	8.03	3,212
F66-1.02-3921.00	Mitchell Teigen Tunnel (Construction Access Adit) N-PAG Tunnel Muck TSS Pond; Foundation preparation Pond Spillway- Proof-roll excavated surface.	940. m2	0.01	1.00	6.58	103.68	682	0.00	0	0.60	569	0.00	0	1.33	1,251
F66-1.02-3922.00	Mitchell Teigen Tunnel (Construction Access Adit) N-PAG Tunnel Muck TSS Pond; CSP (1000mm) Culvert for outlet Corrugated Steel Culvert 1000mm Diameter to route spillway under road to creek.	20. lm	0.45	1.00	9.00	103.68	933	216.00	4,320	6.20	124	0.00	0	268.86	5,377
F66-1.02-3923.00	Mitchell Teigen Tunnel (Construction Access Adit) PAG Tunnel Muck Pond with ARD Piped to Saddle; Topsoil Removal and Stockpiling PAG Muck Storage Pad - Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F66-1.02-3924.00	Mitchell Teigen Tunnel (Construction Access Adit) PAG Tunnel Muck Pond with ARD Piped to Saddle; Foundation Preparation Grade pad foundation to maximum 2.5H:1V for liner placement (excavation and/or fill) - Assumed 25% of liner area*2m thickness	5,184. m3	0.01	1.00	25.92	103.68	2,687	0.00	0	0.57	2,936	0.00	0	1.08	5,624
F66-1.02-3925.00	Mitchell Teigen Tunnel (Construction Access Adit) PAG Tunnel Muck Pond with ARD Piped to Saddle; Foundation Preparation Remove or burry grain sizes larger than cobbles and proof-roll within liner area for bedding material palcement.	10,368. m2	0.01	1.00	51.84	103.68	5,375	0.00	0	0.57	5,872	0.00	0	1.08	11,247
F66-1.02-3926.00	Mitchell Teigen Tunnel (Construction Access Adit) PAG Tunnel Muck Pond with ARD Piped to Saddle; Bedding Layer PAG Muck Storage Pad - Bedding material used under the liner. Assume average depth of 0.5m	5,184. m3	0.11	1.00	570.24	103.68	59,122	0.00	0	12.12	62,805	0.00	0	23.52	121,928
F66-1.02-3927.00	Mitchell Teigen Tunnel (Construction Access Adit) PAG Tunnel Muck Pond with ARD Piped to Saddle; LLDPE Liner PAG Muck Storage Pad - Supply and install 40 mil, textured, LLDPE liner for temporary lined muck storage, extend liner over seepage collection berms.	10,368. m2	0.06	1.00	622.08	103.68	64,497	3.36	34,836	0.49	5,076	0.00	0	10.07	104,410
F66-1.02-3928.00	Mitchell Teigen Tunnel (Construction Access Adit) PAG Tunnel Muck Pond with ARD Piped to Saddle; Bedding Layer PAG Muck Storage Pad- Bedding material used between liner and muck. Assumed average depth = 0.5m.	5,184. m3	0.11	1.00	570.24	103.68	59,122	0.00	0	12.12	62,805	0.00	0	23.52	121,928
F66-1.02-3929.00	Mitchell Teigen Tunnel (Construction Access Adit) PAG Tunnel Muck Pond with ARD Piped to Saddle; Common Excavation South Seepage Collection Ditch below Pad - Excavate and use excavated material to build collection berm. Assumed 100% common excavation.	1,220. m3	0.03	1.00	40.26	103.68	4,174	0.00	0	4.61	5,622	0.00	0	8.03	9,796
F66-1.02-3930.00	Mitchell Teigen Tunnel (Construction Access Adit) PAG Tunnel Muck Pond with ARD Piped to Saddle; Foundation Preparation South Seepage Collection Ditch below Pad - Proof-roll excavated ditch.	1,200. m2	0.01	1.00	8.40	103.68	871	0.00	0	0.60	726	0.00	0	1.33	1,597
F66-1.02-3931.00	Mitchell Teigen Tunnel (Construction Access Adit) PAG Tunnel Muck Pond with ARD Piped to Saddle; Bedding Layer South Seepage Collection Ditch - Bedding material used under the HDPE liner. Assume average depth of 0.3m	360. m3	0.11	1.00	39.60	103.68	4,106	0.00	0	12.12	4,361	0.00	0	23.52	8,467
F66-1.02-3932.00	Mitchell Teigen Tunnel (Construction Access Adit) PAG Tunnel Muck Pond with ARD Piped to Saddle; HDPE Liner South Seepage Collection Ditch - Supply and install liner for temporary seepage collection channel.	1,200. m2	0.06	1.00	72.00	103.68	7,465	3.36	4,032	0.49	588	0.00	0	10.07	12,084
F66-1.02-3933.00	Mitchell Teigen Tunnel (Construction Access Adit) PAG Tunnel Muck Pond with ARD Piped to Saddle; Riprap South Seepage Collection Ditch - Place Riprap (D50=150mm), 0.30m thick for liner protection.	360. m3	0.14	1.00	50.40	103.68	5,225	0.00	0	13.98	5,032	0.00	0	28.49	10,257



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F66-1.02-3934.00	Mitchell Teigen Tunnel (Construction Access Adit) PAG Tunnel Muck Pond with ARD Piped to Saddle; Common Excavation Pond - Excavate sediment collection pond (side slopes 2.5H:1V) and stockpile material in designated area. Assumed 100% common excavation.	5,207.53 m3	0.03	1.00	171.85	103.68	17,817	0.00	0	4.61	23,996	0.00	0	8.03	41,814
F66-1.02-3935.00	Mitchell Teigen Tunnel (Construction Access Adit) PAG Tunnel Muck Pond with ARD Piped to Saddle; Roller Compaction of Foundation Pond - Proof-roll foundation and side slopes.	2,399.38 m2	0.01	1.00	12.00	103.68	1,244	0.00	0	0.57	1,359	0.00	0	1.08	2,603
F66-1.02-3936.00	Mitchell Teigen Tunnel (Construction Access Adit) PAG Tunnel Muck Pond with ARD Piped to Saddle; Bedding Layer Pond - Bedding material used under the HDPE liner. Assume average depth of 0.3m	719.81 m3	0.11	1.00	79.18	103.68	8,209	0.00	0	12.12	8,721	0.00	0	23.52	16,930
F66-1.02-3937.00	Mitchell Teigen Tunnel (Construction Access Adit) PAG Tunnel Muck Pond with ARD Piped to Saddle; HDPE Liner Pond - Supply and install liner for temporary sediment collection pond.	2,399.38 m2	0.06	1.00	143.96	103.68	14,926	3.36	8,062	0.49	1,175	0.00	0	10.07	24,163
F66-1.02-3938.00	Mitchell Teigen Tunnel (Construction Access Adit) PAG Tunnel Muck Pond with ARD Piped to Saddle; Inlet Pond outlet to HDPE pipe	1. each	40.00	1.00	40.00	103.68	4,147	2,112.00	2,112	1,584.00	1,584	0.00	0	7,843.20	7,843
F66-1.02-3939.00	Mitchell Teigen Tunnel (Construction Access Adit) PAG Tunnel Muck Pond with ARD Piped to Saddle; HDPE Pipe (300mm), incl. Joints, Fittings Divert ARD water from sediment collection pond to water treatment plant at Saddle Pad - 300mm Pipe burried in Haul Road	3,400. m	0.70	1.00	2,380.00	103.68	246,758	177.60	603,840	69.68	236,901	0.00	0	319.85	1,087,499
F66-1.02-3940.00	Mitchell Teigen Tunnel (Construction Access Adit) PAG Tunnel Muck Pond with ARD Piped to Saddle; Pump to pump ARD to Saddle area for treatment (Head of 100m) Pump required to divert water from sediment collection pond to water treatment plant; pump capacity of 20L/s over 3.4km of HDPE pipeline with elevation difference of 30m	1. LS	40.00	1.00	40.00	103.68	4,147	3,360.00	3,360	768.00	768	0.00	0	8,275.20	8,275
F66-1.02-3941.00	Mitchell Teigen Tunnel (Construction Access Adit) PAG Tunnel Muck Pond with ARD Piped to Saddle; Common Excavation HDPE pipe overburden excavation	6,800. m3	0.03	1.00	224.40	103.68	23,266	0.00	0	4.61	31,334	0.00	0	8.03	54,600
F66-1.02-3942.00	Mitchell Teigen Tunnel (Construction Access Adit) PAG Tunnel Muck Pond with ARD Piped to Saddle; Pipe Bedding Material Place and compact pipe bedding material.	1,922.65 m3	0.11	1.00	211.49	103.68	21,927	0.00	0	12.12	23,293	0.00	0	23.52	45,221
F66-1.02-3943.00	Mitchell Teigen Tunnel (Construction Access Adit) PAG Tunnel Muck Pond with ARD Piped to Saddle; Common Excavation Pond Spillway - Excavate. Assumed 100% common excavation.	200. m3	0.03	1.00	6.60	103.68	684	0.00	0	4.61	922	0.00	0	8.03	1,606
F66-1.02-3944.00	Mitchell Teigen Tunnel (Construction Access Adit) PAG Tunnel Muck Pond with ARD Piped to Saddle; Foundation Preparation Pond Spillway- Proof-roll excavated surface.	470. m2	0.01	1.00	3.29	103.68	341	0.00	0	0.60	284	0.00	0	1.33	625
F66-1.02-3945.00	Mitchell Teigen Tunnel (Construction Access Adit) PAG Tunnel Muck Pond with ARD Piped to Saddle; Culvert Corrugated Steel Culvert 1000mm Diameter to route spillway under road to creek.	20. lm	0.45	1.00	9.00	103.68	933	216.00	4,320	6.20	124	0.00	0	268.86	5,377
F66-1.02-3946.00	Mitchell Teigen Tunnel (Saddle Portal) N-PAG Tunnel Muck TSS Pond; Timber Removal Contract removal of merchantable timber.	8.21 ha	26.26	1.00	215.59	103.68	22,353	0.00	0	3,628.80	29,792	0.00	0	6,351.44	52,145
F66-1.02-3947.00	Mitchell Teigen Tunnel (Saddle Portal) N-PAG Tunnel Muck TSS Pond; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury.	8.21 ha	38.50	1.00	316.09	103.68	32,772	0.00	0	3,872.64	31,794	0.00	0	7,864.32	64,566
F66-1.02-3948.00	Mitchell Teigen Tunnel (Saddle Portal) N-PAG Tunnel Muck TSS Pond; Topsoil Removal and Stockpiling NAG Muck Storage Pad - Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m.	24,630. m3	0.02	1.00	492.60	103.68	51,073	0.00	0	2.30	56,748	0.00	0	4.38	107,820



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F66-1.02-3949.00	Mitchell Teigen Tunnel (Saddle Portal) N-PAG Tunnel Muck TSS Pond; Common Excavation Upper Runoff Collection Ditch - Excavate and use excavated material to build upper haulroad. Assume 50% common excavation.	5,141.5 m3	0.03	1.00	169.67	103.68	17,591	0.00	0	4.61	23,692	0.00	0	8.03	41,283
F66-1.02-3950.00	Mitchell Teigen Tunnel (Saddle Portal) N-PAG Tunnel Muck TSS Pond; Rock Excavation Upper Runoff Collection Ditch - Excavate and use excavated material to build upper haulroad. Assume 50% rock excavation.	3,640. m3	0.05	1.00	182.00	103.68	18,870	1.49	5,416	6.51	23,692	0.00	0	13.18	47,978
F66-1.02-3951.00	Mitchell Teigen Tunnel (Saddle Portal) N-PAG Tunnel Muck TSS Pond; Foundation preparation Upper Runoff Collection Ditch - Proof-roll excavated surface.	3,753.75 m2	0.01	1.00	26.28	103.68	2,724	0.00	0	0.60	2,270	0.00	0	1.33	4,995
F66-1.02-3952.00	Mitchell Teigen Tunnel (Saddle Portal) N-PAG Tunnel Muck TSS Pond; Bedding Layer Upper Runoff Collection Ditch - Place Bedding material under the HDPE liner. Assume average depth of 0.2m	750.75 m3	0.11	1.00	82.58	103.68	8,562	0.00	0	12.12	9,095	0.00	0	23.52	17,658
F66-1.02-3953.00	Mitchell Teigen Tunnel (Saddle Portal) N-PAG Tunnel Muck TSS Pond; HDPE Channel Liner Upper Runoff Collection Ditch - Supply and install liner.	3,753.75 m2	0.06	1.00	225.23	103.68	23,351	3.36	12,613	0.49	1,838	0.00	0	10.07	37,802
F66-1.02-3954.00	Mitchell Teigen Tunnel (Saddle Portal) N-PAG Tunnel Muck TSS Pond; Riprap Upper Runoff Collection Ditch - Place Riprap (D50=100mm), 0.20m thick for liner protection.	750.75 m3	0.14	1.00	105.11	103.68	10,897	0.00	0	13.98	10,494	0.00	0	28.49	21,391
F66-1.02-3955.00	Mitchell Teigen Tunnel (Saddle Portal) N-PAG Tunnel Muck TSS Pond; Common Excavation Seepage Collection Ditch below Pad - Excavate and use excavated material to build collection berm. Assumed 100% common excavation.	4,815.44 m3	0.03	1.00	158.91	103.68	16,476	0.00	0	4.61	22,190	0.00	0	8.03	38,665
F66-1.02-3956.00	Mitchell Teigen Tunnel (Saddle Portal) N-PAG Tunnel Muck TSS Pond; Foundation preparation Seepage Collection Ditch below Pad - Proof-roll excavated ditch.	9,014.5 m2	0.01	1.00	63.10	103.68	6,542	0.00	0	0.60	5,452	0.00	0	1.33	11,994
F66-1.02-3957.00	Mitchell Teigen Tunnel (Saddle Portal) N-PAG Tunnel Muck TSS Pond; Common Excavation Pond - Excavate sediment collection pond (side slopes 2.5H:1V) and stockpile material in designated area. Assumed 100% common excavation.	15,837.63 m3	0.03	1.00	522.64	103.68	54,187	0.00	0	4.61	72,980	0.00	0	8.03	127,167
F66-1.02-3958.00	Mitchell Teigen Tunnel (Saddle Portal) N-PAG Tunnel Muck TSS Pond; Roller Compaction of Foundation Pond - Proof-roll foundation and side slopes.	6,477.74 m2	0.01	1.00	32.39	103.68	3,358	0.00	0	0.57	3,669	0.00	0	1.08	7,027
F66-1.02-3959.00	Mitchell Teigen Tunnel (Saddle Portal) N-PAG Tunnel Muck TSS Pond; Bedding Layer Pond - Bedding material used under the HDPE liner. Assume average depth of 0.3m	1,943.32 m3	0.11	1.00	213.77	103.68	22,163	0.00	0	12.12	23,544	0.00	0	23.52	45,707
F66-1.02-3960.00	Mitchell Teigen Tunnel (Saddle Portal) N-PAG Tunnel Muck TSS Pond; HDPE Pond Liner Pond - Supply and install liner for temporary sediment collection pond.	6,477.74 m2	0.06	1.00	388.66	103.68	40,297	3.36	21,765	0.49	3,171	0.00	0	10.07	65,233
F66-1.02-3961.00	Mitchell Teigen Tunnel (Saddle Portal) N-PAG Tunnel Muck TSS Pond; Common Excavation Pond Spillway - Excavate. Assumed 100% common excavation.	1,100.67 m3	0.03	1.00	36.32	103.68	3,766	0.00	0	4.61	5,072	0.00	0	8.03	8,838
F66-1.02-3962.00	Mitchell Teigen Tunnel (Saddle Portal) N-PAG Tunnel Muck TSS Pond; Foundation preparation Pond Spillway- Proof-roll excavated surface.	2,586.58 m2	0.01	1.00	12.93	103.68	1,341	0.00	0	0.57	1,465	0.00	0	1.08	2,806
F66-1.02-3963.00	Mitchell Teigen Tunnel (Saddle Portal) N-PAG Tunnel Muck TSS Pond; Culvert Corrugated Steel Culvert 1200mm Diameter to route spillway under road to creek.	20. lm	0.45	1.00	9.00	103.68	933	216.00	4,320	6.20	124	0.00	0	268.86	5,377



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F66-1.02-3964.00	Mitchell Teigen Tunnel (Saddle Portal) N-PAG Tunnel Muck TSS Pond; Tunnel Muck Haul Road Construction Tunnel Muck Haul Road Construction to top of temporary Pad; Access Road Construction from Saddle Portal access road to Pads.	1,000. lm	0.54	1.00	540.00	103.68	55,987	0.00	0	65.79	65,789	0.00	0	121.78	121,776
F66-1.02-3965.00	Mitchell Teigen Tunnel (Saddle Portal) N-PAG Tunnel Muck TSS Pond; Drain Rock for drainage and filtering through the perforated pipe (TSS Pond)	5. m3	0.10	1.00	0.50	103.68	52	0.00	0	12.51	63	0.00	0	22.88	114
F66-1.02-3966.00	Mitchell Teigen Tunnel (Saddle Portal) N-PAG Tunnel Muck TSS Pond; HDPE 400mm Perforated Pipe to drain the ponds (TSS)	20. lm	0.70	1.00	14.00	103.68	1,452	230.40	4,608	69.68	1,394	0.00	0	372.65	7,453
F66-1.02-3967.00	Mitchell Teigen Tunnel (Saddle Portal) N-PAG Tunnel Muck TSS Pond; HDPE 400mm Pipe to drain the ponds (ARD)	20. lm	0.70	1.00	14.00	103.68	1,452	230.40	4,608	69.68	1,394	0.00	0	372.65	7,453
F66-1.02-3968.00	Mitchell Teigen Tunnel (Saddle Portal) N-PAG Tunnel Muck TSS Pond; Temporary TSS Water Treatment Plant Phase I TSS Treatment Plant 31 L/s	1. LS	0.00	1.00	0.00	103.68	0	41,499.84	41,500	0.00	0	0.00	0	41,499.84	41,500
F66-1.02-3969.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; Timber Removal Contract removal of merchantable timber.	5.8 ha	26.26	1.00	152.31	103.68	15,791	0.00	0	3,628.80	21,047	0.00	0	6,351.44	36,838
F66-1.02-3970.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury.	5.8 ha	38.50	1.00	223.30	103.68	23,152	0.00	0	3,872.64	22,461	0.00	0	7,864.32	45,613
F66-1.02-3971.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; Topsoil Removal and Stockpiling PAG Muck Storage Pad - Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m.	10,964.16 m2	0.02	1.00	219.28	103.68	22,735	0.00	0	2.30	25,261	0.00	0	4.38	47,997
F66-1.02-3972.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; Bedding Layer PAG Muck Storage Pad - Bedding material used under the liner. Assume average depth of 0.5m	18,273.6 m3	0.11	1.00	2,010.10	103.68	208,407	0.00	0	12.12	221,388	0.00	0	23.52	429,795
F66-1.02-3973.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; LLDPE Pad Liner PAG Muck Storage Pad - Supply and install 40 mil, textured, LLDPE liner for temporary lined muck storage, extend liner over seepage collection berms.	36,547.2 m2	0.06	1.00	2,192.83	103.68	227,353	3.36	122,799	0.49	17,894	0.00	0	10.07	368,045
F66-1.02-3974.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; Bedding Layer PAG Muck Storage Pad- Bedding material used between liner and muck. Assumed average depth = 0.5m.	18,273.6 m3	0.11	1.00	2,010.10	103.68	208,407	0.00	0	12.12	221,388	0.00	0	23.52	429,795
F66-1.02-3975.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; Common Excavation Lower Seepage Collection Ditch below Pad - Excavate and use excavated material to build collection berm. Assumed 100% common excavation.	21,731.25 m3	0.03	1.00	717.13	103.68	74,352	0.00	0	4.61	100,138	0.00	0	8.03	174,490
F66-1.02-3976.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; Foundation preparation Lower Seepage Collection Ditch below Pad - Proof-roll excavated ditch.	21,375. m2	0.01	1.00	149.63	103.68	15,513	0.00	0	0.60	12,928	0.00	0	1.33	28,441
F66-1.02-3977.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; Bedding Layer Lower Seepage Collection Ditch - Bedding material used under the HDPE liner. Assume average depth of 0.3m	6,412.5 m3	0.11	1.00	705.38	103.68	73,133	0.00	0	12.12	77,689	0.00	0	23.52	150,822
F66-1.02-3978.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; HDPE Pond Liner Lower Seepage Collection Ditch - Supply and install liner for temporary seepage collection channel.	21,375. m2	0.06	1.00	1,282.50	103.68	132,970	3.36	71,820	0.49	10,465	0.00	0	10.07	215,255



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F66-1.02-3979.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; Riprap Lower Seepage Collection Ditch - Place Riprap (D50=150mm), 0.30m thick for liner protection.	6,412.5 m3	0.14	1.00	897.75	103.68	93,079	0.00	0	13.98	89,631	0.00	0	28.49	182,710
F66-1.02-3980.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; Common Excavation Pond - Excavate sediment collection pond (side slopes 2.5H:1V), use material to build pond berm or road fill. Assumed 100% common excavation.	11,069.13 m3	0.03	1.00	365.28	103.68	37,872	0.00	0	4.61	51,007	0.00	0	8.03	88,879
F66-1.02-3981.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; Roller Compaction of Foundation Pond - Proof-roll foundation and side slopes.	4,689.14 m2	0.01	1.00	23.45	103.68	2,431	0.00	0	0.57	2,656	0.00	0	1.08	5,087
F66-1.02-3982.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; Bedding Layer Pond - Bedding material used under the HDPE liner. Assume average depth of 0.3m	1,406.74 m3	0.11	1.00	154.74	103.68	16,044	0.00	0	12.12	17,043	0.00	0	23.52	33,087
F66-1.02-3983.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; HDPE Channel Liner Pond - Supply and install liner for temporary sediment collection pond.	4,689.14 m2	0.06	1.00	281.35	103.68	29,170	3.36	15,755	0.49	2,296	0.00	0	10.07	47,221
F66-1.02-3984.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; Inlet Pad outlet to HDPE pipe - weld liner to pipe inlet	1. each	40.00	1.00	40.00	103.68	4,147	2,112.00	2,112	1,584.00	1,584	0.00	0	7,843.20	7,843
F66-1.02-3985.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; HDPE Pipe (400mm), incl. Joints, Fittings Divert ARD water from sediment collection pond to water treatment plant at Saddle Pad - 400mm Pipe buried	100. m	0.70	1.00	70.00	103.68	7,258	240.00	24,000	69.68	6,968	0.00	0	382.25	38,225
F66-1.02-3986.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; Pipe Bedding Material Place and compact pipe bedding material.	65.97 m3	0.11	1.00	7.26	103.68	752	0.00	0	12.12	799	0.00	0	23.52	1,552
F66-1.02-3987.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; Common Excavation Pond Spillway - Excavate. Assumed 100% common excavation.	200. m3	0.03	1.00	6.60	103.68	684	0.00	0	4.61	922	0.00	0	8.03	1,606
F66-1.02-3988.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; Foundation preparation Pond Spillway- Proof-roll excavated surface.	3,348.75 m2	0.01	1.00	16.74	103.68	1,736	0.00	0	0.57	1,897	0.00	0	1.08	3,633
F66-1.02-3989.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; Culvert Corrugated Steel Culvert 1200mm Diameter to route spillway under road to creek.	20. lm	0.45	1.00	9.00	103.68	933	216.00	4,320	6.20	124	0.00	0	268.86	5,377
F66-1.02-3990.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; Drain Rock for drainage and filtering through the perforated pipe (TSS Pond)	5. m3	0.10	1.00	0.50	103.68	52	0.00	0	12.51	63	0.00	0	22.88	114
F66-1.02-3991.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; HDPE 400mm Perforated Pipe to drain the ponds (TSS)	20. lm	0.70	1.00	14.00	103.68	1,452	230.40	4,608	69.68	1,394	0.00	0	372.65	7,453
F66-1.02-3992.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; HDPE 400mm Pipe to drain the ponds (ARD)	20. lm	0.70	1.00	14.00	103.68	1,452	230.40	4,608	69.68	1,394	0.00	0	372.65	7,453
F66-1.02-3993.00	Mitchell Teigen Tunnel (Saddle Portal) PAG Tunnel Muck Pond; Temporary ARD Treatment Plant (SGS-CME 150 L/s) CME ARD Treatment plant 150 L/s (Phase II)	1. LS	0.00	1.00	0.00	103.68	0	932,159.98	932,160	0.00	0	0.00	0	932,159.98	932,160
F66-1.02-3994.00	Mitchell Diversion Tunnel - (North, Mitchell Portal) N-PAG and PAG Tunnel Muck Ponds (ARD piped by gravity to OPC Treatment Plant); Temporary TSS Water Treatment Plant (ARD piped to MTT OPC plant) TSS Treatment Plant ~30 L/s	1. LS	0.00	1.00	0.00	103.68	0	41,499.84	41,500	0.00	0	0.00	0	41,499.84	41,500



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F66-1.02-3995.00	Mitchell Diversion Tunnel - (North, Mitchell Portal) N-PAG and PAG Tunnel Muck Ponds (ARD piped by gravity to OPC Treatment Plant); Topsoil Removal and Stockpiling NAG Sediment Pond - Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m.	255. m3	0.02	1.00	5.10	103.68	529	0.00	0	2.30	588	0.00	0	4.38	1,116
F66-1.02-3996.00	Mitchell Diversion Tunnel - (North, Mitchell Portal) N-PAG and PAG Tunnel Muck Ponds (ARD piped by gravity to OPC Treatment Plant); Topsoil Removal and Stockpiling PAG ARD Sediment Pond - Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F66-1.02-3997.00	Mitchell Diversion Tunnel - (North, Mitchell Portal) N-PAG and PAG Tunnel Muck Ponds (ARD piped by gravity to OPC Treatment Plant); Common Excavation NAG Pad Sediment Pond - Excavate pond, place spoil for berm fill.	2,805. m3	0.03	1.00	92.57	103.68	9,597	0.00	0	4.61	12,925	0.00	0	8.03	22,523
F66-1.02-3998.00	Mitchell Diversion Tunnel - (North, Mitchell Portal) N-PAG and PAG Tunnel Muck Ponds (ARD piped by gravity to OPC Treatment Plant); Common Excavation PAG ARD Sediment Pond - Excavate and dispose in designated area for treatment ponds.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F66-1.02-3999.00	Mitchell Diversion Tunnel - (North, Mitchell Portal) N-PAG and PAG Tunnel Muck Ponds (ARD piped by gravity to OPC Treatment Plant); Riprap (d50 = 200mm) NAG Sediment pond overflow- Placement of rip-rap for pond overflow channel	2. m3	0.14	1.00	0.28	103.68	29	0.11	0	13.98	28	0.00	0	28.60	57
F66-1.02-4000.00	Mitchell Diversion Tunnel - (North, Mitchell Portal) N-PAG and PAG Tunnel Muck Ponds (ARD piped by gravity to OPC Treatment Plant); Riprap (d50 = 200mm) PAG ARD pond overflow - Placement of rip-rap for pond overflow channel	2. m3	0.14	1.00	0.28	103.68	29	0.11	0	13.98	28	0.00	0	28.60	57
F66-1.02-4001.00	Mitchell Diversion Tunnel - (North, Mitchell Portal) N-PAG and PAG Tunnel Muck Ponds (ARD piped by gravity to OPC Treatment Plant); Common Excavation Excavation for Diversion ditches around Pads and collection ditches for Ponds	3,300. m3	0.03	1.00	108.90	103.68	11,291	0.00	0	4.61	15,206	0.00	0	8.03	26,497
F66-1.02-4002.00	Mitchell Diversion Tunnel - (North, Mitchell Portal) N-PAG and PAG Tunnel Muck Ponds (ARD piped by gravity to OPC Treatment Plant); Drain Rock for drainage and filtering through the perforated pipe (TSS Pond)	5. m3	0.10	1.00	0.50	103.68	52	0.00	0	12.51	63	0.00	0	22.88	114
F66-1.02-4003.00	Mitchell Diversion Tunnel - (North, Mitchell Portal) N-PAG and PAG Tunnel Muck Ponds (ARD piped by gravity to OPC Treatment Plant); HDPE 400mm Perforated Pipe to drain the ponds (TSS)	20. lm	0.70	1.00	14.00	103.68	1,452	230.40	4,608	69.68	1,394	0.00	0	372.65	7,453
F66-1.02-4004.00	Mitchell Diversion Tunnel - (North, Mitchell Portal) N-PAG and PAG Tunnel Muck Ponds (ARD piped by gravity to OPC Treatment Plant); HDPE 400mm Pipe to drain the ponds (ARD)	20. lm	0.70	1.00	14.00	103.68	1,452	230.40	4,608	69.68	1,394	0.00	0	372.65	7,453
F66-1.02-4005.00	Mitchell Diversion Tunnel - (Sulphurets Portal) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; Topsoil Removal and Stockpiling NAG Sediment Pond - Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m.	246. m3	0.02	1.00	4.92	103.68	510	0.00	0	2.30	567	0.00	0	4.38	1,077
F66-1.02-4006.00	Mitchell Diversion Tunnel - (Sulphurets Portal) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; Topsoil Removal and Stockpiling PAG ARD Sediment Pond - Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m.	1,024.2 m3	0.02	1.00	20.48	103.68	2,124	0.00	0	2.30	2,360	0.00	0	4.38	4,484
F66-1.02-4007.00	Mitchell Diversion Tunnel - (Sulphurets Portal) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; Common Excavation NAG Pad Sediment Pond - Excavate pond, place spoil for berm fill.	2,805. m3	0.03	1.00	92.57	103.68	9,597	0.00	0	4.61	12,925	0.00	0	8.03	22,523



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F66-1.02-4008.00	Mitchell Diversion Tunnel - (Sulphurets Portal) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; Common Excavation PAG ARD Sediment Pond - Excavate and dispose in designated area for treatment ponds.	11,266.2 m3	0.03	1.00	371.78	103.68	38,547	0.00	0	4.61	51,915	0.00	0	8.03	90,461
F66-1.02-4009.00	Mitchell Diversion Tunnel - (Sulphurets Portal) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; Temporary ARD Water Treatment Plant 37 L/s (SGS-CME) CME ARD Treatment plant 150 L/s (Phase II)	1. LS	0.00	1.00	0.00	103.68	0	93,120.00	93,120	0.00	0	0.00	0	93,120.00	93,120
F66-1.02-4010.00	Mitchell Diversion Tunnel - (Sulphurets Portal) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; HDPE Liner ARD Pond - Supply and install liner. Average liner thickness = 80mm.	3,414. m2	0.04	1.00	136.56	103.68	14,159	7.68	26,220	2.69	9,177	0.00	0	14.52	49,555
F66-1.02-4011.00	Mitchell Diversion Tunnel - (Sulphurets Portal) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; Riprap (d50 = 200mm) NAG Sediment pond overflow - Placement of rip-rap for pond overflow channel	2. m3	0.14	1.00	0.28	103.68	29	0.11	0	13.98	28	0.00	0	28.60	57
F66-1.02-4012.00	Mitchell Diversion Tunnel - (Sulphurets Portal) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; Riprap (d50 = 200mm) PAG ARD pond overflow - Placement of rip-rap for pond overflow channel	2. m3	0.14	1.00	0.28	103.68	29	0.11	0	13.98	28	0.00	0	28.60	57
F66-1.02-4013.00	Mitchell Diversion Tunnel - (Sulphurets Portal) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; Common Excavation Excavation for Diversion ditches around Pads and collection ditches for Ponds	3,300. m3	0.03	1.00	108.90	103.68	11,291	0.00	0	4.61	15,206	0.00	0	8.03	26,497
F66-1.02-4014.00	Mitchell Diversion Tunnel - (Sulphurets Portal) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; Drain Rock for drainage and filtering through the perforated pipe (TSS Pond)	5. m3	0.10	1.00	0.50	103.68	52	0.00	0	12.51	63	0.00	0	22.88	114
F66-1.02-4015.00	Mitchell Diversion Tunnel - (Sulphurets Portal) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; HDPE 400mm Perforated Pipe to drain the ponds (TSS)	20. lm	0.70	1.00	14.00	103.68	1,452	230.40	4,608	69.68	1,394	0.00	0	372.65	7,453
F66-1.02-4016.00	Mitchell Diversion Tunnel - (Sulphurets Portal) N-PAG and PAG Tunnel Muck Ponds and ARD/TSS Treatment; HDPE 400mm Pipe to drain the ponds (ARD)	20. lm	0.70	1.00	14.00	103.68	1,452	230.40	4,608	69.68	1,394	0.00	0	372.65	7,453
F66-1.02-4017.00	McTagg Diversion Tunnel - (Stage 1 Inlet Portal) N-PAG Tunnel Muck Pond and TSS Treatment; TSS treatment-polymer dosing system Polymer dosing system for 55L/s	1. LS	0.00	1.00	0.00	103.68	0	53,609.28	53,609	0.00	0	0.00	0	53,609.28	53,609
F66-1.02-4018.00	McTagg Diversion Tunnel - (Stage 1 Inlet Portal) N-PAG Tunnel Muck Pond and TSS Treatment; Topsoil Removal and Stockpiling NAG Sediment Pond - Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m.	330. m3	0.02	1.00	6.60	103.68	684	0.00	0	2.30	760	0.00	0	4.38	1,445
F66-1.02-4019.00	McTagg Diversion Tunnel - (Stage 1 Inlet Portal) N-PAG Tunnel Muck Pond and TSS Treatment; Common Excavation NAG Pad Sediment Pond - Excavate pond, place spoil for berm fill.	3,630. m3	0.03	1.00	119.79	103.68	12,420	0.00	0	4.61	16,727	0.00	0	8.03	29,147
F66-1.02-4020.00	McTagg Diversion Tunnel - (Stage 1 Inlet Portal) N-PAG Tunnel Muck Pond and TSS Treatment; Riprap (d50 = 200mm) NAG Sediment pond overflow - Placement of rip-rap for pond overflow channel	2. m3	0.14	1.00	0.28	103.68	29	0.11	0	13.98	28	0.00	0	28.60	57
F66-1.02-4021.00	McTagg Diversion Tunnel - (Stage 1 Inlet Portal) N-PAG Tunnel Muck Pond and TSS Treatment; Common Excavation Excavation for Diversion ditches around Pads and collection ditches for Ponds	1,230. m3	0.03	1.00	40.59	103.68	4,208	0.00	0	4.61	5,668	0.00	0	8.03	9,876
F66-1.02-4022.00	McTagg Diversion Tunnel - (Stage 1 Inlet Portal) N-PAG Tunnel Muck Pond and TSS Treatment; Drain Rock for drainage and filtering through the perforated pipe (TSS Pond)	5. m3	0.10	1.00	0.50	103.68	52	0.00	0	12.51	63	0.00	0	22.88	114
F66-1.02-4023.00	McTagg Diversion Tunnel - (Stage 1 Inlet Portal) N-PAG Tunnel Muck Pond and TSS Treatment; HDPE 400mm Perforated Pipe to drain the ponds (TSS)	20. lm	1.20	1.00	24.00	103.68	2,488	148.80	2,976	72.00	1,440	0.00	0	345.22	6,904



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F66-1.02-4024.00	McTagg Diversion Tunnel - Gingrass Creek Portal N-PAG Tunnel Muck Pond and TSS Treatment; TSS treatment-polymer dosing system Polymer Dosing system for 49L/s	1. LS	0.00	1.00	0.00	103.68	0	53,609.28	53,609	0.00	0	0.00	0	53,609.28	53,609
F66-1.02-4025.00	McTagg Diversion Tunnel - Gingrass Creek Portal N-PAG Tunnel Muck Pond and TSS Treatment; Topsoil Removal and Stockpiling NAG Sediment Pond - Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m.	297. m3	0.02	1.00	5.94	103.68	616	0.00	0	2.30	684	0.00	0	4.38	1,300
F66-1.02-4026.00	McTagg Diversion Tunnel - Gingrass Creek Portal N-PAG Tunnel Muck Pond and TSS Treatment; Common Excavation NAG Pad Sediment Pond - Excavate pond, place spoil for berm fill.	3,267. m3	0.03	1.00	107.81	103.68	11,178	0.00	0	4.61	15,054	0.00	0	8.03	26,232
F66-1.02-4027.00	McTagg Diversion Tunnel - Gingrass Creek Portal N-PAG Tunnel Muck Pond and TSS Treatment; Riprap (d50 = 200mm) NAG Sediment pond overflow - Placement of rip-rap for pond overflow channel	2. m3	0.14	1.00	0.28	103.68	29	0.11	0	13.98	28	0.00	0	28.60	57
F66-1.02-4028.00	McTagg Diversion Tunnel - Gingrass Creek Portal N-PAG Tunnel Muck Pond and TSS Treatment; Common Excavation Excavation for Diversion ditches around Pads and collection ditches for Ponds	1,650. m3	0.03	1.00	54.45	103.68	5,645	0.00	0	4.61	7,603	0.00	0	8.03	13,249
F66-1.02-4029.00	McTagg Diversion Tunnel - Gingrass Creek Portal N-PAG Tunnel Muck Pond and TSS Treatment; Drain Rock for drainage and filtering through the perforated pipe (TSS Pond)	5. m3	0.10	1.00	0.50	103.68	52	0.00	0	12.51	63	0.00	0	22.88	114
F66-1.02-4030.00	McTagg Diversion Tunnel - Gingrass Creek Portal N-PAG Tunnel Muck Pond and TSS Treatment; HDPE 400mm Perforated Pipe to drain the ponds (TSS)	20. lm	0.70	1.00	14.00	103.68	1,452	230.40	4,608	69.68	1,394	0.00	0	372.65	7,453
F66-1.02-4031.00	WTP / WSD - Construction Period Sediment Pond and TSS Treatment; TSS treatment-polymer dosing system Polymer Dosing System for 45L/s	1. LS	0.00	1.00	0.00	103.68	0	53,609.28	53,609	0.00	0	0.00	0	53,609.28	53,609
F66-1.02-4032.00	WTP / WSD - Construction Period Sediment Pond and TSS Treatment; Topsoil Removal and Stockpiling NAG Sediment Pond - Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m.	2,367. m3	0.02	1.00	47.34	103.68	4,908	0.00	0	2.30	5,454	0.00	0	4.38	10,362
F66-1.02-4033.00	WTP / WSD - Construction Period Sediment Pond and TSS Treatment; Common Excavation NAG Pad Sediment Pond - Excavate pond, place spoil for berm fill. (Note this is only for initial construction, once permanent ponds excavated they are in service)	26,037. m3	0.03	1.00	859.22	103.68	89,084	0.00	0	4.61	119,978	0.00	0	8.03	209,063
F66-1.02-4034.00	WTP / WSD - Construction Period Sediment Pond and TSS Treatment; Riprap (d50 = 200mm) NAG Sediment pond overflow - Placement of rip-rap for pond overflow channel	2. m3	0.14	1.00	0.28	103.68	29	0.11	0	13.98	28	0.00	0	28.60	57
F66-1.02-4035.00	WTP / WSD - Construction Period Sediment Pond and TSS Treatment; Common Excavation Excavation for Diversion ditches around Pads and collection ditches for Ponds	3,000. m3	0.03	1.00	99.00	103.68	10,264	0.00	0	4.61	13,824	0.00	0	8.03	24,088
F66-1.02-4036.00	WTP / WSD - Construction Period Sediment Pond and TSS Treatment; Drain Rock for drainage and filtering through the perforated pipe (TSS Pond)	5. m3	0.10	1.00	0.50	103.68	52	0.00	0	12.51	63	0.00	0	22.88	114
F66-1.02-4037.00	WTP / WSD - Construction Period Sediment Pond and TSS Treatment; HDPE 400mm Perforated Pipe to drain the ponds (TSS)	20. lm	0.70	1.00	14.00	103.68	1,452	230.40	4,608	69.68	1,394	0.00	0	372.65	7,453
F66 - Temporary Water Treatment Plants and Settling Ponds Subtotal					39,413.72		4,086,415		4,310,805		3,641,884		0		12,039,104

F67 - Closure of Temporary WTPs / Settling Ponds [Sustaining]



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F67-1.02-4039.00	[Y1] - Mitchell Diversion Tunnel - (Sulphurets Portal); Reclamation Closure (0.5m Till Placement/Revegetation / Seedlings) Reclamation closure of NAG Muck Pile including revegetation and seedlings, (Sustaining Capital CAD\$154,766)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F67-1.02-4040.00	[Y1] - Mitchell Diversion Tunnel - (Sulphurets Portal); Haul PAG Rock to Mitchell RSF or TMF 4km Haul route, (Sustaining Capital CAD\$1,313,578)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F67-1.02-4041.00	[Y1] - Mitchell Teigen Tunnel (Saddle Portal PAG and N-PAG pads); Reclamation Closure (0.5m Till Placement/Revegetation / Seedlings) Reclamation closure of NAG Muck Pile including revegetation and seedlings, (Sustaining Capital CAD\$295,278)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F67-1.02-4042.00	[Y1] - Mitchell Teigen Tunnel (Saddle Portal PAG and N-PAG pads); Final Haul of PAG Rock Stored at Saddle to Mitchell RSF or TMF 8.5km Haul route, (Sustaining Capital CAD\$2,200,080)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F67-1.02-4043.00	[Y1] - Mitchell Teigen Tunnel (Construction Access Portal PAG and N-PAG pads); Reclamation Closure (0.5m Till Placement/Revegetation / Seedlings) Reclamation closure of NAG Muck Pile including revegetation and seedlings, (Sustaining Capital CAD\$295,278)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F67-1.02-4044.00	[Y1] - Mitchell Teigen Tunnel (Construction Access Portal PAG and N-PAG pads); Initially Haul PAG Rock to Saddle Storage Seasonally 8.5km Haul route, (Sustaining Capital CAD\$2,200,080)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F67-1.02-4045.00	[Y1] - McTagg Diversion Tunnel - South Portal Pad Closure (north portal pads under RSF); Reclamation Closure (0.5m Till Placement/Revegetation / Seedlings) Pad covered by RSF	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F67 - Closure of Temporary WTPs / Settling Ponds [Sustaining] Subtotal					0.00		0		0		0		0		0
<u>F68 - PAG Dump Closure Water Management Structures [Sustaining]</u>															
F68-1.02-4047.00	[Y60] - McTagg West Closure Channel; Riprap (d50 = 400mm) Selected cleaned NAG riprap backfilled in the channel (1.5m), (Sustaining Capital CAD\$5,990,831)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4048.00	[Y60] - McTagg West Closure Channel; Compacted Moraine Bedding Compacted select fine grained moraine material (0.5m), (Sustaining Capital CAD\$570,524)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4049.00	[Y60] - McTagg West Closure Channel; Geomembrane Bituminous Geomembrane, includes the liner required for the low flow channel, (Sustaining Capital CAD\$3,069,600)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4050.00	[Y60] - McTagg West Closure Channel; Compacted Moraine Bedding Moraine sands and gravels below geomembrane (0.4m), (Sustaining Capital CAD\$2,584,320)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4051.00	[Y60] - McTagg West Closure Channel; Alluvium Fill Sands and gravels (75mm minus) along wider channel (0.5m), (Sustaining Capital CAD\$3,095,245)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4052.00	[Y60] - McTagg East Closure Channel; Logging Contract removal of merchantable timber., (Sustaining Capital CAD\$20,922)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4053.00	[Y60] - McTagg East Closure Channel; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury., (Sustaining Capital CAD\$25,905)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F68-1.02-4054.00	[Y60] - McTagg East Closure Channel; Topsoil Removal and Stockpiling Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m., (Sustaining Capital CAD\$43,260)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4055.00	[Y60] - McTagg East Closure Channel; Rock Excavation (bulk blasting) Excavate and dispose in designated area. Assumed 100% bedrock excavation, (Sustaining Capital CAD\$1,353,778)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4056.00	[Y60] - McTagg East Closure Channel; Rock Berm Fill Rock bermed filled with local material.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4057.00	[Y60] - McTagg East Closure Channel; Alluvium Fill Sands and gravels (75mm minus) along wider channel (0.5m), (Sustaining Capital CAD\$110,115)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4058.00	[Y60] - McTagg East Closure Channel; Geomembrane bituminous Geomembrane, (Sustaining Capital CAD\$320,812)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4059.00	[Y60] - McTagg East Closure Channel; Compacted Moraine Bedding Moraine sand and gravels (0.4m), (Sustaining Capital CAD\$187,203)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4060.00	[Y60] - McTagg East Closure Channel; Shotcrete Liner Shotcrete liner along channel in bedrock; assumed depth = 0.10m, (Sustaining Capital CAD\$562,854)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4061.00	[Y60] - Mitchell North Closure Channel; Riprap (d50 = 400mm) Selected cleaned NAG riprap backfilled in the channel (1.5m), (Sustaining Capital CAD\$7,053,846)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4062.00	[Y60] - Mitchell North Closure Channel; Compacted Moraine Bedding Compacted select fine grained moraine material (0.5), (Sustaining Capital CAD\$671,758)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4063.00	[Y60] - Mitchell North Closure Channel; Compacted Moraine Bedding Moraine sands and gravels below geomembrane (0.4m), (Sustaining Capital CAD\$537,407)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4064.00	[Y60] - Mitchell North Closure Channel; Alluvium Fill Sands and gravels (75mm minus) along wider channel (0.5m), (Sustaining Capital CAD\$665,078)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4065.00	[Y60] - Mitchell North Closure Channel; Geomembrane bituminous Geomembrane, (Sustaining Capital CAD\$1,937,664)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4066.00	[Y60] - Mitchell North Closure Channel; Compacted Moraine Bedding Silty sand and gravels (0.4m), (Sustaining Capital CAD\$1,130,682)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4067.00	[Y60] - Mitchell South Closure Diversion; Logging Contract removal of merchantable timber., (Sustaining Capital CAD\$30,752)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4068.00	[Y60] - Mitchell South Closure Diversion; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury., (Sustaining Capital CAD\$38,076)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4069.00	[Y60] - Mitchell South Closure Diversion; Topsoil Removal and Stockpiling Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m., (Sustaining Capital CAD\$135,536)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F68-1.02-4070.00	[Y60] - Mitchell South Closure Diversion; Rock Excavation (ripping) Excavate and dispose in designated area. Assumed 100% bedrock excavation, (Sustaining Capital CAD\$2,189,637)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4071.00	[Y60] - Mitchell South Closure Diversion; Alluvium Fill Sands and gravels (75mm minus) along wider channel (0.5m), (Sustaining Capital CAD\$119,758)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4072.00	[Y60] - Mitchell South Closure Diversion; Geomembrane bituminous Geomembrane, (Sustaining Capital CAD\$348,908)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4073.00	[Y60] - Mitchell South Closure Diversion; Compacted Moraine Bedding Silty sand and gravels (0.4m), (Sustaining Capital CAD\$95,806)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4074.00	[Y60] - Mitchell South Closure Diversion; Shotcrete Liner Shotcrete liner along channel in bedrock; assumed depth = 0.1m, (Sustaining Capital CAD\$1,140,510)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4075.00	[Y60] - Lower Mitchell/McTagg Closure Channel; Logging Contract removal of merchantable timber.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4076.00	[Y60] - Lower Mitchell/McTagg Closure Channel; Clear & Grub Strip unmerchantable timber and remaining vegetation and burn in piles or bury.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4077.00	[Y60] - Lower Mitchell/McTagg Closure Channel; Topsoil Removal and Stockpiling Remove topsoil and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4078.00	[Y60] - Lower Mitchell/McTagg Closure Channel; Rock Excavation (ripping) Excavate and dispose in designated area., (Sustaining Capital CAD\$35,664,382)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4079.00	[Y60] - Lower Mitchell/McTagg Closure Channel; Steel mesh over 5-10% of exposed area (graphitic argillites), (Sustaining Capital CAD\$273,525)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4080.00	[Y60] - Lower Mitchell/McTagg Closure Channel; Shotcrete Liner Shotcrete reinforcement of graphitic argillites; assumed depth = 0.10m, (Sustaining Capital CAD\$950,425)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4081.00	[Y60] - Lower Mitchell/McTagg Closure Channel; Drain Hole Drilling Horizontal drain holes drilled into rock - on each bench every 3m, 20 m deep (assume 2 benches), (Sustaining Capital CAD\$218,367)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4082.00	[Y60] - Lower Mitchell/McTagg Closure Channel; Select NAG Rock Selected cleaned free-draining NAG mine rock placed in the channel during RSF construction to allow RSF to drain under channel. Assume 5m thick, 200m wide over 2 km length	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4083.00	[Y60] - Lower Mitchell/McTagg Closure Channel; PVC Pipe (8") Supply and install 8" dia. PVC drain pipe to enhance drainage under channel, (Sustaining Capital CAD\$4,383,333)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4084.00	[Y60] - Lower Mitchell/McTagg Closure Channel; Riprap (d50 = 400mm) Selected cleaned NAG riprap backfilled in the channel (1.5m), (Sustaining Capital CAD\$1,564,003)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4085.00	[Y60] - Lower Mitchell/McTagg Closure Channel; Compacted Moraine Bedding Compacted select fine grained moraine material (0.5m), (Sustaining Capital CAD\$148,945)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F68-1.02-4086.00	[Y60] - Lower Mitchell/McTagg Closure Channel; Geomembrane Channel Liner to resist settlement, (Sustaining Capital CAD\$433,941)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4087.00	[Y60] - Lower Mitchell/McTagg Closure Channel; Compacted Moraine Bedding Moraine sands and gravels below geomembrane (0.4m), (Sustaining Capital CAD\$119,156)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4088.00	[Y60] - Lower Mitchell/McTagg Closure Channel; Alluvium Fill Sands and gravels (75mm minus) along wider channel (0.5m), (Sustaining Capital CAD\$99,798)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4089.00	[Y60] - Lower Mitchell/McTagg Closure Channel; Geomembrane bituminous Geomembrane, (Sustaining Capital CAD\$290,757)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4090.00	[Y60] - Lower Mitchell/McTagg Closure Channel; Compacted Moraine Bedding Silty sand and gravels (0.4m), (Sustaining Capital CAD\$79,839)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4091.00	[Y60] - Lower Mitchell/McTagg Closure Channel; Riprap (d50 = 800mm) Selected cleaned NAG riprap backfilled in the channel (1.2m), (Sustaining Capital CAD\$958,110)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4092.00	[Y60] - Lower Mitchell/McTagg Closure Channel; Gravel Fill Need gravel bedding between riprap and geomembrane cloth so that riprap doesn't puncture cloth (0.3m), (Sustaining Capital CAD\$47,535)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4093.00	[Y60] - Lower Mitchell/McTagg Closure Channel; Geotextile Filter Cloth Geotextile Filter Cloth, (Sustaining Capital CAD\$57,969)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4094.00	[Y60] - Lower Mitchell/McTagg Closure Channel; Soil Liner Low permeability soil liner - fine silty sand and gravel (0.5), (Sustaining Capital CAD\$101,161)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4095.00	[Y60] - Lower Mitchell/McTagg Closure Channel; Geomembrane bituminous Geomembrane, (Sustaining Capital CAD\$290,757)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4096.00	[Y60] - Lower Mitchell/McTagg Closure Channel; Bedding Layer moraine sand and gravel (0.4), (Sustaining Capital CAD\$185,654)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4097.00	[Y60] - Mitchell Pit Lake Closure Dam; Overburden Removal and Stockpiling Remove overburden and stockpile in designated area, including clearing of glacial debris. Average depth = 0.3m., (Sustaining Capital CAD\$447,876)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4098.00	[Y60] - Mitchell Pit Lake Closure Dam; Alluvium Excavation Alluvium excavation underneath dam core; average depth = 3m and average width = 18m., (Sustaining Capital CAD\$277,862)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4099.00	[Y60] - Mitchell Pit Lake Closure Dam; Slurry Cutoff Wall Slurry cutoff wall underneath dam; 1m wide to bedrock, average depth = 16m and average length = 160m, (Sustaining Capital CAD\$130,381)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4100.00	[Y60] - Mitchell Pit Lake Closure Dam; Random Fill Material routed from rock storage facility, (Sustaining Capital CAD\$9,398,620)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4101.00	[Y60] - Mitchell Pit Lake Closure Dam; Non Reactive Rockfill NR rockfill in the core., (Sustaining Capital CAD\$3,464,208)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F68-1.02-4102.00	[Y60] - Mitchell Pit Lake Closure Dam; Select Clean Rock Fill Selected clean rockfill at 800mm minus, less than 5% fines content, (Sustaining Capital CAD\$22,698,223)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4103.00	[Y60] - Mitchell Pit Lake Closure Dam; Asphalt Concrete (bitumen and aggregate) Asphalt concrete in core placed during RSF construction., (Sustaining Capital CAD\$6,551,377)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4104.00	[Y60] - Mitchell Pit Lake Closure Dam; CIP Reinforced Concrete Concrete fslab under the asphalt core; assumed 0.5m thick by 6m wide by dam length, (Sustaining Capital CAD\$1,826,339)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4105.00	[Y60] - Mitchell Pit Lake Closure Dam; Filter/Transition Fill Non reactive filter in core., (Sustaining Capital CAD\$1,555,686)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4106.00	[Y60] - Mitchell Pit Lake Closure Dam; Moraine Earth Core Place in 0.5 m lift thickness & spread (Zone 6), 0.3m lift, compacted 97% Proctor, (Sustaining Capital CAD\$7,946,033)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4107.00	[Y60] - Mitchell Pit Lake Closure Dam Spillway; Rock Excavation (bulk blasting) Spillway trenching: Excavate and dispose in designated area., (Sustaining Capital CAD\$9,727,705)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4108.00	[Y60] - Mitchell Pit Lake Closure Dam Spillway; CIP Reinforced Concrete Spillway Intake Structure - Reinforced concrete, (Sustaining Capital CAD\$32,099)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4109.00	[Y60] - Mitchell Pit Lake Closure Dam Spillway; Asphalt Mastic Asphalt mastic protective coating on the headwall concrete, (Sustaining Capital CAD\$530)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4110.00	[Y60] - Mitchell Pit Lake Closure Dam Spillway; HDPE Pipe (1000mm dia.) Supply and install 1,000mm dia. HDPE pipeline, including joints, fittings, etc., (Sustaining Capital CAD\$309,062)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4111.00	[Y60] - Mitchell Pit Lake Closure Dam Spillway; Epoxy Coated Trash Rack Inlet Epoxy coated 2m by 2m trash rack inlet to resist ARD in Spillway., (Sustaining Capital CAD\$3,828)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4112.00	[Y60] - Mitchell Pit Lake Closure Dam Spillway; Rock Fill Backfill with select large permeable mine rock, (Sustaining Capital CAD\$6,591)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4113.00	[Y60] - Mitchell Pit Lake Closure Dam Spillway; Pipe Bedding Material Pipe backfill, (Sustaining Capital CAD\$35,476)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68-1.02-4114.00	[Y60] - Mitchell Pit Lake Closure Dam Spillway; Riprap (d50 = 800mm) Riprap Infiltration Area for Pit Drainage - riprap size varies, quantity is an allowance, (Sustaining Capital CAD\$43,663)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F68 - PAG Dump Closure Water Management Structures [Sustaining] Subtotal					0.00		0		0		0		0		0
F69 - Waste Rock Recontouring (Cost by Moose Mtn)															
F69-1.02-4116.00	[Y60] - Mitchell-McTagg RSF Till Closure Cover Placement and Revegetation; Reclamation Closure (0.5m Till Placement/Revegetation / Seedlings) Reclamation closure including revegetation and seedlings By MMTS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F69-1.02-4117.00	[Y60] - RSF Surface Water Management (grading and diversions); RSF Surface Grading (by others) By MMTS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F69-1.02-4118.00	[Y60] - RSF Surface Water Management (grading and diversions); Channel Trench Excavation in Mine Rock (cost by others) Excavate and dispose in designated area. By MMTS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F69-1.02-4119.00	[Y60] - RSF Surface Water Management (grading and diversions); Riprap (d50 = 300mm) Place in 0.5 m lift thickness & compact surface by dozer. By MMTS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F69-1.02-4120.00	[Y60] - RSF Surface Water Management (grading and diversions); Riprap (d50 = 100mm) Place in 0.5 m lift thickness & compact surface by dozer. By MMTS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F69-1.02-4121.00	[Y60] - Mine Site Facilities Demolition and Reclamation; Demolition (assumes cost of demolition equal salvage value) By MMTS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F69-1.02-4122.00	[Y60] - Mine Site Facilities Demolition and Reclamation; Salvage (assumes cost of demolition equal salvage value) By MMTS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F69-1.02-4123.00	[Y60] - Mine Site Facilities Demolition and Reclamation; Reclamation Closure (0.5m Till Placement/Revegetation / Seedlings) - others Reclamation closure including revegetation and seedlings By MMTS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F69 - Waste Rock Recontouring (Cost by Moose Mtn) Subtotal					0.00		0		0		0		0		0
<u>F70 - Engineering Fees and Quality Management</u>															
F70-1.02-4125.00	Engineering Fees (Yr -5 to -1) Detail Design, Construction and Operations	1. lot	0.00	1.00	0.00	103.68	0	369,230.76	369,231	0.00	0	0.00	0	369,230.76	369,231
F70-1.02-4126.00	[Y1 - 60] - Engineering Fees (Yr 1 to 60) Detail Design, Construction and Operations, (Sustaining Capital CAD\$4,615,385)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F70-1.02-4127.00	Engineering Fees, Geotechnical Investigations - (Yr -4 to -1)	1. lot	0.00	1.00	0.00	103.68	0	4,607,999.90	4,608,000	0.00	0	0.00	0	4,607,999.90	4,608,000
F70-1.02-4128.00	[Y1] - Engineering Fees, Geotechnical Investigations - (Yr 1), (Sustaining Capital CAD\$1,200,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F70-1.02-4129.00	Quality Management (QA/QC) (Yr -5 to -1)	1. lot	0.00	1.00	0.00	103.68	0	516,923.07	516,923	0.00	0	0.00	0	516,923.07	516,923
F70-1.02-4130.00	[Y1 - 60] - Quality Management (QA/QC) (Yr 1 to 60), (Sustaining Capital CAD\$6,461,538)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F70 - Engineering Fees and Quality Management Subtotal					0.00		0		5,494,154		0		0		5,494,154
<u>F72 - Teigen Water Treatment Plant</u>															
F72-50-4132.00	Teigen Water Treatment Plant, (Sustaining Capital CAD\$25,000,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F72 - Teigen Water Treatment Plant Subtotal					0.00		0		0		0		0		0
<u>F81 - Ongoing Environmental Compliance Monitoring and Reporting</u>															



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F81-1.1-4134.00	Ongoing Environmental Compliance Monitoring during Construction														
		1. sum	0.00	1.30	0.00	103.68	0	16,415,999.63	16,416,000	0.00	0	0.00	0	16,415,999.63	16,416,000
	F81 - Ongoing Environmental Compliance Monitoring and Reporting Subtotal				0.00		0		16,416,000		0		0		16,416,000
<u>F86 - Sludge Management</u>															
F86-1.11-4152.00	Agitated sludge storage tanks 8 x 5														
		2. ea.	0.00	1.30	0.00	103.68	0	144,000.00	288,000	0.00	0	0.00	0	144,000.00	288,000
F86-1.11-4153.00	Filter presses 80 plates														
		3. ea.	0.00	1.30	0.00	103.68	0	335,999.99	1,008,000	0.00	0	0.00	0	335,999.99	1,008,000
F86-1.11-4154.00	Filter press hopper and support structure														
		3. ea.	0.00	1.30	0.00	103.68	0	48,000.00	144,000	0.00	0	0.00	0	48,000.00	144,000
F86-1.11-4155.00	Site prep for Sprung building														
		50,000. m3	0.00	1.30	0.00	103.68	0	5.76	288,000	0.00	0	0.00	0	5.76	288,000
F86-1.11-4156.00	Sprung building for 7 mo. storage														
		1. ea.	0.00	1.30	0.00	103.68	0	3,236,739.77	3,236,740	0.00	0	0.00	0	3,236,739.77	3,236,740
F86-1.11-4157.00	Erection of Sprung building 24 men, 92 days														
		17,664. hour	0.00	1.30	0.00	103.68	0	96.00	1,695,744	0.00	0	0.00	0	96.00	1,695,744
F86-1.11-4158.00	Shipping														
		1. lot	0.00	1.30	0.00	103.68	0	57,120.00	57,120	0.00	0	0.00	0	57,120.00	57,120
F86-1.11-4159.00	Accommodation for erection crew														
		2,208. days	0.00	1.30	0.00	103.68	0	249.60	551,117	0.00	0	0.00	0	249.60	551,117
F86-1.11-4160.00	Lock blocks and paving														
		1. lot	0.00	1.30	0.00	103.68	0	192,000.00	192,000	0.00	0	0.00	0	192,000.00	192,000
F86-1.11-4161.00	Loader at storage building														
		1. ea.	0.00	1.30	0.00	103.68	0	170,880.00	170,880	0.00	0	0.00	0	170,880.00	170,880
F86-1.11-4162.00	Trucks to haul filter cake														
		3. ea.	0.00	1.30	0.00	103.68	0	192,000.00	576,000	0.00	0	0.00	0	192,000.00	576,000
F86-1.11-4163.00	Site prep for landfill (450 x 100 m)														
		-	-	-	-	-	-	-	-	-	-	-	-	-	-
F86-1.11-4164.00	Soil strip and stockpile														
		45,000. m3	0.00	1.30	0.00	103.68	0	1.92	86,400	0.00	0	0.00	0	1.92	86,400
F86-1.11-4165.00	Cut														
		225,000. m3	0.00	1.30	0.00	103.68	0	9.60	2,160,000	0.00	0	0.00	0	9.60	2,160,000



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F86-1.11-4166.00	Fill	284,000. m3	0.00	1.30	0.00	103.68	0	5.76	1,635,840	0.00	0	0.00	0	5.76	1,635,840
F86-1.11-4167.00	Base prep - waste rock drainage layer and compact	46,865. m3	0.00	1.30	0.00	103.68	0	5.76	269,942	0.00	0	0.00	0	5.76	269,942
F86-1.11-4168.00	Colluvial till - place, spread and roll	67,100. m3	0.00	1.30	0.00	103.68	0	5.76	386,496	0.00	0	0.00	0	5.76	386,496
F86-1.11-4169.00	Berm - 2.5 m waste rock lifts and compact	73,948. m3	0.00	1.30	0.00	103.68	0	9.60	709,901	0.00	0	0.00	0	9.60	709,901
F86-1.11-4170.00	Sand - bedding layer / filter layer	75,510. m3	0.00	1.30	0.00	103.68	0	11.52	869,875	0.00	0	0.00	0	11.52	869,875
F86-1.11-4171.00	Geomembrane 80 mil HDPE	40,000. m2	0.00	1.30	0.00	103.68	0	9.60	384,000	0.00	0	0.00	0	9.60	384,000
F86-1.11-4172.00	Dozer at Landfill	1. ea.	0.00	1.30	0.00	103.68	0	283,199.99	283,200	0.00	0	0.00	0	283,199.99	283,200
F86-1.11-4173.00	Channel from landfill to WTP	1. ea.	0.00	1.30	0.00	103.68	0	239,999.99	240,000	0.00	0	0.00	0	239,999.99	240,000
F86 - Sludge Management Subtotal					0.00		0		15,233,255		0		0		15,233,255
<u>F88 - Habitat Compensation Program</u>															
F88-1.11-4179.00	Environmental Capital Costs; Habitat Compensation Program	1. sum	0.00	1.00	0.00	103.68	0	12,575,999.72	12,576,000	0.00	0	0.00	0	12,575,999.72	12,576,000
F88-1.11-4180.00	[Y1] - Environmental Capital Costs; Habitat Compensation Program, (Sustaining Capital CAD\$1,500,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F88-1.11-4181.00	[Y2] - Environmental Capital Costs; Habitat Compensation Program, (Sustaining Capital CAD\$800,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F88-1.11-4182.00	[Y3] - Environmental Capital Costs; Habitat Compensation Program, (Sustaining Capital CAD\$200,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F88 - Habitat Compensation Program Subtotal					0.00		0		12,576,000		0		0		12,576,000
<u>F91 - Avalanche Control</u>															
F91-13-4188.00	Avalanche Retaining Walls (Transportation Tunnel Ext Conveyor Tunnel and Reinforced Earth Walls) Excavation (Minesite)	40,900. m3	0.06	1.30	3,190.20	103.68	330,760	0.00	0	3.60	147,240	0.00	0	11.69	478,000
F91-13-4189.00	Avalanche Retaining Walls (Transportation Tunnel Ext Conveyor Tunnel and Reinforced Earth Walls) Backfill (Minesite)	87,800. m3	0.10	1.30	11,414.00	103.68	1,183,403	7.68	674,304	3.84	337,152	0.00	0	25.00	2,194,859



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
F91-20-4190.00	Avalanche Retaining Walls (Transportation Tunnel Ext Conveyor Tunnel and Reinforced Earth Walls) Concrete work (Minesite)	11,800. m3	6.50	1.30	99,710.00	103.68	10,337,933	734.40	8,665,920	24.00	283,200	0.00	0	1,634.50	19,287,052
F91-1.19-4191.00	Remote Avalanche Control System (RACS); Gazex	1. lot	55,555.56	1.00	55,555.56	103.68	5,760,000	5,759,999.87	5,760,000	0.00	0	0.00	0	11,519,999.74	11,520,000
F91-1.19-4192.00	Supporting Structures; Fencing	1. lot	64,814.81	1.00	64,814.81	103.68	6,720,000	3,743,999.92	3,744,000	0.00	0	0.00	0	10,463,999.77	10,464,000
F91-1.19-4193.00	Avalanche Explosive Control; Launchers	1. lot	0.00	1.00	0.00	103.68	0	192,000.00	192,000	0.00	0	0.00	0	192,000.00	192,000
F91-1.19-4194.00	Avalanche Explosive Control; Explosive Magazines	1. lot	0.00	1.00	0.00	103.68	0	38,400.00	38,400	0.00	0	0.00	0	38,400.00	38,400
F91-1.19-4195.00	Infrastructure; Trucks, Snow-cats	1. lot	0.00	1.00	0.00	103.68	0	767,999.98	768,000	0.00	0	0.00	0	767,999.98	768,000
F91-1.19-4196.00	Infrastructure; Ridge Top Shelters	1. lot	0.00	1.00	0.00	103.68	0	192,000.00	192,000	0.00	0	0.00	0	192,000.00	192,000
F91-1.19-4197.00	Infrastructure; Weather Stations	1. lot	0.00	1.00	0.00	103.68	0	96,000.00	96,000	0.00	0	0.00	0	96,000.00	96,000
F91-1.19-4198.00	Infrastructure; Infrasonic Sensors	1. lot	0.00	1.00	0.00	103.68	0	326,399.99	326,400	0.00	0	0.00	0	326,399.99	326,400
F91-1.19-4199.00	Other; PPE and Rescue	1. lot	0.00	1.00	0.00	103.68	0	192,000.00	192,000	0.00	0	0.00	0	192,000.00	192,000
F91-1.19-4200.00	Other; Office, Supplies	1. lot	0.00	1.00	0.00	103.68	0	96,000.00	96,000	0.00	0	0.00	0	96,000.00	96,000
F91 - Avalanche Control Subtotal					234,684.57		24,332,096		20,745,024		767,592		0		45,844,711
<u>G10 - Fresh/Fire/Potable Water</u>															
G10-13-4202.00	Water Treatment Plant; Detail Excavation	2,400. m3	0.06	1.30	187.20	103.68	19,409	0.00	0	3.60	8,640	0.00	0	11.69	28,049
G10-13-4203.00	Water Treatment Plant; Structural Backfill	2,254. m3	0.10	1.30	293.02	103.68	30,380	7.68	17,311	3.84	8,655	0.00	0	25.00	56,346
G10-20-4204.00	Water Treatment Plant; Concrete work	291. m3	6.50	1.30	2,458.95	103.68	254,944	734.40	213,710	24.00	6,984	0.00	0	1,634.50	475,638
G10-40-4205.00	Water Treatment Plant; Pre-engineered Building including Roof cladding, Wall cladding, manddoors and misc architectural finishes	416. m2	1.20	1.30	648.96	103.68	67,284	2,160.00	898,560	24.00	9,984	0.00	0	2,345.74	975,828



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
G10-60-4206.00	Plantsite Fresh Water Well Construction Allowance	1. lot	500.00	1.00	500.00	103.68	51,840	96,000.00	96,000	9,600.00	9,600	48,000.00	48,000	205,440.00	205,440
G10-13-4207.00	Fresh Water; Detail Excavation	320. m3	0.06	1.30	24.96	103.68	2,588	0.00	0	3.60	1,152	0.00	0	11.69	3,740
G10-13-4208.00	Fresh Water; Structural Backfill	200. m3	0.10	1.30	26.00	103.68	2,696	7.68	1,536	3.84	768	0.00	0	25.00	5,000
G10-20-4209.00	Fresh Water; Concrete work	135. m3	6.50	1.30	1,140.75	103.68	118,273	734.40	99,144	24.00	3,240	0.00	0	1,634.50	220,657
G10-50-4210.00	Plantsite Fresh Water Supply Pump No.1 [G10-PLO-031]	1. ea	150.00	1.30	195.00	103.68	20,218	48.00	48	48.00	48	17,280.00	17,280	37,593.60	37,594
G10-50-4211.00	Plantsite Fresh Water Supply Pump No.2 [G10-PLO-032]	1. ea	150.00	1.30	195.00	103.68	20,218	48.00	48	48.00	48	17,280.00	17,280	37,593.60	37,594
G10-50-4212.00	Plantsite Fresh/Fire Water Tank, 12000 D x 9000 [G10-TNK-001]	31,560. kg	0.08	1.30	3,282.24	103.68	340,303	0.10	3,030	0.03	909	5.28	166,637	16.19	510,878
G10-50-4213.00	Plantsite Potable Tank Water, 3000 D x 4000 [G10-TNK-010]	3,200. kg	0.06	1.30	249.60	103.68	25,879	0.08	246	0.03	92	5.28	16,896	13.47	43,112
G10-50-4214.00	Plantsite Potable Water Distribution Pump No.1 [G10-PLO-011]	1. ea	150.00	1.30	195.00	103.68	20,218	48.00	48	48.00	48	17,280.00	17,280	37,593.60	37,594
G10-50-4215.00	Plantsite Potable Water Distribution Pump No.2 [G10-PLO-012]	1. ea	150.00	1.30	195.00	103.68	20,218	48.00	48	48.00	48	17,280.00	17,280	37,593.60	37,594
G10-50-4216.00	Minesite Fresh Water Supply Pump No.1 [G10-PLO-131]	1. ea	150.00	1.30	195.00	103.68	20,218	48.00	48	48.00	48	17,280.00	17,280	37,593.60	37,594
G10-50-4217.00	Minesite Fresh Water Supply Pump No.2 [G10-PLO-132]	1. ea	150.00	1.30	195.00	103.68	20,218	48.00	48	48.00	48	17,280.00	17,280	37,593.60	37,594
G10-50-4218.00	Mitchell Minesite Fresh/Fire Water Tank, 12000 D x 9000 [G10-TNK-101]	31,560. kg	0.08	1.30	3,282.24	103.68	340,303	0.10	3,030	0.03	909	5.28	166,637	16.19	510,878
G10-50-4219.00	Minesite Potable Water Tank, 3000 D x 4000 [G10-TNK-110]	3,200. kg	0.06	1.30	249.60	103.68	25,879	0.08	246	0.03	92	5.28	16,896	13.47	43,112
G10-50-4220.00	Minesite Potable Water Distribution Pump No.1 [G10-PLO-111]	1. ea	150.00	1.30	195.00	103.68	20,218	48.00	48	48.00	48	17,280.00	17,280	37,593.60	37,594
G10-50-4221.00	Minesite Potable Water Distribution Pump No.2 [G10-PLO-112]	1. ea	150.00	1.30	195.00	103.68	20,218	48.00	48	48.00	48	17,280.00	17,280	37,593.60	37,594



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
G10-80-4222.00	Field Instrumentation & Bulks Allowance	1. lot	792.00	1.30	1,029.60	103.68	106,749	23,644.80	23,645	3,360.00	3,360	124,800.00	124,800	258,553.72	258,554
G10-70-4223.00	Electrical Motor Wiring, included in Areas A20/A30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G10 - Fresh/Fire/Potable Water Subtotal					14,933.12		1,548,266		1,356,841		54,770		678,106		3,637,982
G20 - Process Water															
G20-13-4225.00	Process Water (2x); Detail Excavation	1,655. m3	0.06	1.30	129.09	103.68	13,384	0.00	0	3.60	5,958	0.00	0	11.69	19,342
G20-13-4226.00	Process Water (2x); Structural Backfill	990. m3	0.10	1.30	128.70	103.68	13,344	7.68	7,603	3.84	3,802	0.00	0	25.00	24,748
G20-20-4227.00	Process Water (2x); Concrete work	735. m3	6.50	1.30	6,210.75	103.68	643,931	734.40	539,784	24.00	17,640	0.00	0	1,634.50	1,201,355
G20-50-4234.00	CIL Process Water Tank, 8000 D x 8000 H [G20-TNK-010]	13,190. kg	0.08	1.30	1,371.76	103.68	142,224	0.10	1,266	0.03	380	5.28	69,643	16.19	213,513
G20-50-4235.00	CIL Circuit Process Water Pump No.1, 200 x 150 [G20-PLO-011]	1. ea	90.00	1.30	117.00	103.68	12,131	24.00	24	48.00	48	72,000.00	72,000	84,202.56	84,203
G20-50-4236.00	CIL Circuit Process Water Pump No.2, 200 x 150 [G20-PLO-012]	1. ea	90.00	1.30	117.00	103.68	12,131	24.00	24	48.00	48	72,000.00	72,000	84,202.56	84,203
G20-50-4237.00	Plantsite Process Water Tank, 25000 D x 15000 H [G20-TNK-020]	174,275. kg	0.08	1.30	18,124.60	103.68	1,879,158	0.10	16,730	0.03	5,019	5.28	920,172	16.19	2,821,080
G20-50-4238.00	Process Water Tank No.2 Booster Pump No.1, 250 x 200 [G20-PLO-021]	1. ea	100.00	1.30	130.00	103.68	13,478	24.00	24	48.00	48	96,000.00	96,000	109,550.40	109,550
G20-50-4239.00	Process Water Tank No.2 Booster Pump No.2, 250 x 200 [G20-PLO-022]	1. ea	100.00	1.30	130.00	103.68	13,478	24.00	24	48.00	48	96,000.00	96,000	109,550.40	109,550
G20-60-4240.00	Fresh Water Well to Head Tank (Plantsite Process Water Tank); HDPE SDR 32.5 150mm(6") dia	1,000. m	1.11	1.00	1,111.11	103.68	115,200	82.56	82,560	8.26	8,256	0.00	0	206.02	206,016
G20-60-4241.00	Fire Water distribution to Plant Site and Admin./Site HDPE SDR 17 250mm(10") dia c/w Hydrants, etc	7,000. m	4.17	1.00	29,166.67	103.68	3,024,000	39.44	276,048	3.94	27,605	0.00	0	475.38	3,327,653
G20-60-4242.00	Fresh Water Distribution to Process Plant HDPE SDR 17 100mm(4") dia	5,000. m	0.74	1.00	3,703.70	103.68	384,000	7.10	35,520	0.71	3,552	0.00	0	84.61	423,072
G20-60-4243.00	Fire Water Distribution - Mitchell and Plantsite HDPE SDR 17 250mm(10") dia	7,500. m	3.89	1.00	29,166.67	103.68	3,024,000	36.81	276,048	3.68	27,605	0.00	0	443.69	3,327,653



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
G20-60-4244.00	Fire/Fresh Water - Wells to Mitchell Tank HDPE SDR 21 200mm(8") dia	2,000. m	2.22	1.00	4,444.44	103.68	460,800	19.68	39,360	1.97	3,936	0.00	0	252.05	504,096
G20-80-4245.00	Field Instrumentation & Bulks Allowance	1. lot	624.00	1.30	811.20	103.68	84,105	17,109.60	17,110	2,400.00	2,400	100,800.00	100,800	204,414.81	204,415
G20-70-4246.00	Electrical Motor Wiring, included in Areas A20/A30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G20 - Process Water Subtotal					94,862.69		9,835,364		1,292,125		106,344		1,426,615		12,660,449
G30 - Gland Water															
G30-50-4248.00	Plantsite Gland Water Filter [G30-FIL-011]	4. ea	10.00	1.30	52.00	103.68	5,391	9.60	38	9.60	38	6,720.00	26,880	8,087.04	32,348
G30-50-4249.00	Plantsite Gland Water Pump [G30-PLO-001]	4. ea	150.00	1.30	780.00	103.68	80,870	48.00	192	48.00	192	24,000.00	96,000	44,313.60	177,254
G30-80-4250.00	Field Instrumentation & Bulks Allowance	1. lot	90.00	1.30	117.00	103.68	12,131	5,433.60	5,434	408.00	408	9,600.00	9,600	27,572.16	27,572
G30-70-4251.00	Electrical Motor Wiring, included in Areas A20/A30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G30 - Gland Water Subtotal					949.00		98,392		5,664		638		132,480		237,175
G40 - Plant And Instrument Air Services															
G40-50-4253.00	[Y26] - Kerr Primary Crushing Air Compressor, 365 Nm³/h 860kPag, (Sustaining Capital CAD\$33,567) [C10-AIC-111]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G40-50-4254.00	[Y26] - Kerr Primary Crushing Air Dryer, 365 Nm³/h 860kPag, (Sustaining Capital CAD\$12,962) [C10-AID-131]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G40-50-4255.00	[Y26] - Kerr Primary Crushing Air Filter [C10-FIL-121]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G40-50-4256.00	[Y26] - Kerr Primary Crushing Air Receiver, 4 m³, (Sustaining Capital CAD\$7,986) [C10-AIR-141]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G40-50-4257.00	[Y22] - Sulphurets Primary Crushing Air Compressor, 365 Nm³/h 860kPag, (Sustaining Capital CAD\$33,567) [C12-AIC-111]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G40-50-4258.00	[Y22] - Sulphurets Primary Crushing Air Dryer, 365 Nm³/h 860kPag, (Sustaining Capital CAD\$12,962) [C12-AID-131]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G40-50-4259.00	[Y22] - Sulphurets Primary Crushing Air Filter [C12-FIL-121]	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
G40-50-4260.00	[Y22] - Sulphurets Primary Crushing Air Receiver, 4 m ³ , (Sustaining Capital CAD\$7,986) [C12-AIR-141]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G40-50-4261.00	Mitchell Primary Crushing Air Compressor No.1 [C14-AIC-111]	1. ea	70.00	1.30	91.00	103.68	9,435	96.00	96	96.00	96	22,597.44	22,597	32,224.32	32,224
G40-50-4262.00	Mitchell Primary Crushing Air Compressor No.2 [C14-AIC-112]	1. ea	70.00	1.30	91.00	103.68	9,435	96.00	96	96.00	96	22,597.44	22,597	32,224.32	32,224
G40-50-4263.00	Mitchell Primary Crushing Air Dryer, 365 Nm ³ /h 860kPag [C14-AID-131]	1. ea	20.00	1.30	26.00	103.68	2,696	9.60	10	24.00	24	9,714.24	9,714	12,443.52	12,444
G40-50-4264.00	Mitchell Primary Crushing Air Filter [C14-FIL-121]	1. ea	10.00	1.30	13.00	103.68	1,348	9.60	10	9.60	10	447.36	447	1,814.40	1,814
G40-50-4265.00	Mitchell Primary Crushing Air Receiver, 4 m ³ [C14-AIR-141]	1. ea	16.00	1.30	20.80	103.68	2,157	24.00	24	48.00	48	5,438.40	5,438	7,666.94	7,667
G40-50-4266.00	Plant Air Compressor No.1, 1500 Nm ³ /h [E00-AIC-001]	1. ea	115.00	1.30	149.50	103.68	15,500	120.00	120	192.00	192	58,579.20	58,579	74,391.36	74,391
G40-50-4267.00	Plant Air Compressor No.2, 1500 Nm ³ /h [E00-AIC-002]	1. ea	115.00	1.30	149.50	103.68	15,500	120.00	120	192.00	192	58,579.20	58,579	74,391.36	74,391
G40-50-4268.00	Plant Air Filter [E00-FIL-015]	1. ea	20.00	1.30	26.00	103.68	2,696	96.00	96	96.00	96	1,257.60	1,258	4,145.28	4,145
G40-50-4269.00	Plant Air Receiver, 5 m ³ [E00-AIR-006]	1. ea	20.00	1.30	26.00	103.68	2,696	24.00	24	24.00	24	8,092.80	8,093	10,836.48	10,836
G40-50-4270.00	Plant Instrument Air Dryer No.1, 350 Nm ³ /h @ 860kPag [E00-AID-041]	1. ea	20.00	1.30	26.00	103.68	2,696	9.60	10	24.00	24	9,714.24	9,714	12,443.52	12,444
G40-50-4271.00	Plant Instrument Air Dryer No.2, 350 Nm ³ /h @ 860kPag [E00-AID-042]	1. ea	20.00	1.30	26.00	103.68	2,696	9.60	10	24.00	24	9,714.24	9,714	12,443.52	12,444
G40-50-4272.00	Plant Instrument Air Receiver No.2, 3 m ³ [E00-AIR-045]	1. ea	12.00	1.30	15.60	103.68	1,617	24.00	24	24.00	24	5,438.40	5,438	7,103.81	7,104
G40-50-4273.00	Flotation Aeration Blower No.1 [E20-BLO-064]	1. ea	450.00	1.30	585.00	103.68	60,653	96.00	96	144.00	144	254,399.99	254,400	315,292.79	315,293
G40-50-4274.00	Flotation Aeration Blower No.2 [E20-BLO-065]	1. ea	450.00	1.30	585.00	103.68	60,653	96.00	96	144.00	144	254,399.99	254,400	315,292.79	315,293
G40-50-4275.00	Flotation Aeration Blower No.3 [E20-BLO-066]	1. ea	450.00	1.30	585.00	103.68	60,653	96.00	96	144.00	144	254,399.99	254,400	315,292.79	315,293



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
G40-50-4276.00	Flotation Aeration Blower No.4 [E20-BLO-067]	1. ea	450.00	1.30	585.00	103.68	60,653	96.00	96	144.00	144	254,399.99	254,400	315,292.79	315,293
G40-50-4277.00	Flotation Aeration Blower No.5 [E20-BLO-068]	1. ea	450.00	1.30	585.00	103.68	60,653	96.00	96	144.00	144	254,399.99	254,400	315,292.79	315,293
G40-50-4299.00	CIL Air Compressor (Oil Free) No.1, 3500 Nm³/h @ 1000kPag [E30-AIC-045]	1. ea	160.00	1.30	208.00	103.68	21,565	120.00	120	288.00	288	195,336.00	195,336	217,309.44	217,309
G40-50-4300.00	CIL Air Compressor (Oil Free) No.2, 3500 Nm³/h @ 1000kPag [E30-AIC-046]	1. ea	160.00	1.30	208.00	103.68	21,565	120.00	120	288.00	288	195,336.00	195,336	217,309.44	217,309
G40-50-4301.00	CIL Air Compressor (Oil Free) No.3, 3500 Nm³/h @ 1000kPag [E30-AIC-047]	1. ea	160.00	1.30	208.00	103.68	21,565	120.00	120	288.00	288	195,336.00	195,336	217,309.44	217,309
G40-50-4302.00	CIL Air Compressor (Oil Free) No.4, 3500 Nm³/h @ 1000kPag [E30-AIC-048]	1. ea	160.00	1.30	208.00	103.68	21,565	120.00	120	288.00	288	195,336.00	195,336	217,309.44	217,309
G40-50-4303.00	CIL Air Filter [E30-FIL-049]	1. ea	10.00	1.30	13.00	103.68	1,348	9.60	10	9.60	10	6,159.36	6,159	7,526.40	7,526
G40-50-4304.00	CIL Air Receiver, 38 m³ [E30-AIR-050]	1. ea	100.00	1.30	130.00	103.68	13,478	48.00	48	72.00	72	41,717.76	41,718	55,316.16	55,316
G40-50-4305.00	Pressing Air Compressor No.1, 1000 Nm³/h @ 1000kPag [E50-AIC-083]	1. ea	115.00	1.30	149.50	103.68	15,500	120.00	120	192.00	192	197,227.20	197,227	213,039.36	213,039
G40-50-4306.00	Pressing Air Compressor No.2, 1000 Nm³/h @ 1000kPag [E50-AIC-084]	1. ea	115.00	1.30	149.50	103.68	15,500	120.00	120	192.00	192	197,227.20	197,227	213,039.36	213,039
G40-50-4307.00	Pressing Air Receiver, 3 m³ [E50-AIR-122]	1. ea	12.00	1.30	15.60	103.68	1,617	24.00	24	24.00	24	21,758.40	21,758	23,423.81	23,424
G40-50-4308.00	Drying Air Compressor No.1, 2500 Nm³/h @ 800kPag [E50-AIC-081]	1. ea	115.00	1.30	149.50	103.68	15,500	120.00	120	192.00	192	103,697.28	103,697	119,509.44	119,509
G40-50-4309.00	Drying Air Compressor No.2, 2500 Nm³/h @ 800kPag [E50-AIC-082]	1. ea	115.00	1.30	149.50	103.68	15,500	120.00	120	192.00	192	103,697.28	103,697	119,509.44	119,509
G40-50-4310.00	Concentrate Drying Air Receiver, 30 m³ [E50-AIR-121]	1. ea	100.00	1.30	130.00	103.68	13,478	48.00	48	72.00	72	33,104.64	33,105	46,703.04	46,703
G40-50-4312.00	Cyanide Destruction Air Compressor No.1, 1500 Nm³/h @ 1000kPag [E60-AIC-111]	1. ea	160.00	1.30	208.00	103.68	21,565	120.00	120	288.00	288	73,176.96	73,177	95,150.40	95,150
G40-50-4313.00	Cyanide Destruction Air Compressor No.2, 1500 Nm³/h @ 1000kPag [E60-AIC-112]	1. ea	160.00	1.30	208.00	103.68	21,565	120.00	120	288.00	288	73,176.96	73,177	95,150.40	95,150



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
G40-50-4314.00	Cyanide Destruction Air Filter [E60-FIL-115]	1. ea	10.00	1.30	13.00	103.68	1,348	9.60	10	9.60	10	1,257.60	1,258	2,624.64	2,625
G40-50-4315.00	Cyanide Destruction Air Receiver, 12 m³ [E60-AIR-118]	1. ea	45.00	1.30	58.50	103.68	6,065	28.80	29	24.00	24	13,745.28	13,745	19,863.36	19,863
G40 - Plant And Instrument Air Services Subtotal					5,791.50		600,463		2,486		4,277		3,131,460		3,738,686
<u>G50 - Sewage Treatment</u>															
G50-50-4317.00	General Sewage Treatment and Disposal - at Plantsite Allowance	1. lot	7,750.00	1.30	10,075.00	103.68	1,044,576	383,999.99	384,000	144,000.00	144,000	479,999.99	480,000	2,052,575.95	2,052,576
G50-50-4318.00	General Sewage Treatment and Disposal - at Minesite Allowance	1. lot	5,000.00	1.30	6,500.00	103.68	673,920	192,000.00	192,000	96,000.00	96,000	287,999.99	288,000	1,249,919.97	1,249,920
G50 - Sewage Treatment Subtotal					16,575.00		1,718,496		576,000		240,000		768,000		3,302,496
<u>G60 - Run-off Water</u>															
G60-50-4320.00	Run-Off Water	1. lot	625.00	1.30	812.50	103.68	84,240	24,000.00	24,000	12,000.00	12,000	36,000.00	36,000	156,240.00	156,240
G60 - Run-off Water Subtotal					812.50		84,240		24,000		12,000		36,000		156,240
<u>G71 - Mitchell Pit - Fuel Station and Storage No. 1</u>															
G71-13-4322.00	Fuel Storage Pad; Detail Excavation	250. m3	0.06	1.30	19.50	103.68	2,022	0.00	0	3.60	900	0.00	0	11.69	2,922
G71-13-4323.00	Fuel Storage Pad; Structural Backfill (assumed dental rock excavation backfilled with concrete)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G71-20-4324.00	Fuel Storage Pad; Concrete work	280. m3	6.50	1.30	2,366.00	103.68	245,307	734.40	205,632	24.00	6,720	0.00	0	1,634.50	457,659
G71-50-4325.00	Fuel Storage Tank No.1 (Double Wall Tank) c/w pumps, filters, valve, hose, meter, ladder and access platform complete, 100,000 L	1. lot	120.00	1.30	156.00	103.68	16,174	0.00	0	1,440.00	1,440	120,000.00	120,000	137,614.08	137,614
G71-50-4326.00	Fuel Storage Tank No.1 Fuel Water Separator	1. ea	45.00	1.30	58.50	103.68	6,065	19,200.00	19,200	480.00	480	0.00	0	25,745.28	25,745
G71-13-4327.00	Fuel Station No.1; Detail Excavation	144. m3	0.06	1.30	11.23	103.68	1,165	0.00	0	3.60	518	0.00	0	11.69	1,683
G71-13-4328.00	Fuel Station No.1; Structural Backfill (assumed dental rock excavation backfilled with concrete)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G71-20-4329.00	Fuel Station No.1; Concrete work	240. m3	6.50	1.30	2,028.00	103.68	210,263	734.40	176,256	24.00	5,760	0.00	0	1,634.50	392,279



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
G71-50-4330.00	Fuel Station No.1	1. lot	780.00	1.30	1,014.00	103.68	105,132	64,800.00	64,800	26,400.00	26,400	105,600.00	105,600	301,931.51	301,932
G71-60-4331.00	Buried Pipeline Allowance	1. lot	600.00	1.30	780.00	103.68	80,870	72,000.00	72,000	4,800.00	4,800	0.00	0	157,670.40	157,670
G71-70-4332.00	Electrical infrastructure includes area grounding, general lighting, emergency lighting, heating tracing, misc power, panels, trays, misc fittings, etc	1. lot	75.00	1.30	97.50	103.68	10,109	12,000.00	12,000	336.00	336	0.00	0	22,444.80	22,445
G71 - Mitchell Pit - Fuel Station and Storage No. 1 Subtotal					6,530.73		677,106	549,888		47,354		225,600		1,499,949	
<u>G73 - Pre Construction - Fuel Station and Storage No.2 & No.3</u>															
G73-13-4334.00	Fuel Storage Pad (x2); Detail Excavation	300. m3	0.06	1.30	23.40	103.68	2,426	0.00	0	3.60	1,080	0.00	0	11.69	3,506
G73-13-4335.00	Fuel Storage Pad (x2); Structural Backfill (assumed dental rock excavation backfilled with concrete)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G73-20-4336.00	Fuel Storage Pad (x2); Concrete work	360. m3	6.50	1.30	3,042.00	103.68	315,395	734.40	264,384	24.00	8,640	0.00	0	1,634.50	588,419
G73-50-4337.00	Fuel Storage Tank No.2 & No.3; (Double Wall Tank) skid mounted c/w pumps, filters, valve, hose, meter	2. lot	60.00	1.30	156.00	103.68	16,174	0.00	0	960.00	1,920	52,320.00	104,640	61,367.04	122,734
G73-13-4338.00	Fuel Station No.2 & No.3; Detail Excavation	290. m3	0.06	1.30	22.62	103.68	2,345	0.00	0	3.60	1,044	0.00	0	11.69	3,389
G73-13-4339.00	Fuel Station No.2 & No.3; Structural Backfill (assumed dental rock excavation backfilled with concrete)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G73-20-4340.00	Fuel Station No.2 & No.3; Concrete work	480. m3	6.50	1.30	4,056.00	103.68	420,526	734.40	352,512	24.00	11,520	0.00	0	1,634.50	784,558
G73-50-4341.00	Fuel Station No.2 & No.3;	2. lot	780.00	1.30	2,028.00	103.68	210,263	64,800.00	129,600	26,400.00	52,800	105,600.00	211,200	301,931.51	603,863
G73-70-4342.00	Electrical infrastructure includes area grounding, general lighting, emergency lighting, heating tracing, misc power, panels, trays, misc fittings, etc	2. lot	75.00	1.30	195.00	103.68	20,218	12,000.00	24,000	336.00	672	0.00	0	22,444.80	44,890
G73 - Pre Construction - Fuel Station and Storage No.2 & No.3 Subtotal					9,523.02		987,347	770,496		77,676		315,840		2,151,359	
<u>G75 - Saddle Staging Area - Fuel Station No. 4</u>															
G75-13-4344.00	Fuel Storage Pad; Detail Excavation	60. m3	0.06	1.30	4.68	103.68	485	0.00	0	3.60	216	0.00	0	11.69	701
G75-13-4345.00	Fuel Storage Pad; Structural Backfill (assumed dental rock excavation backfilled with concrete)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
G75-20-4346.00	Fuel Storage Pad; Concrete work	72. m3	6.50	1.30	608.40	103.68	63,079	734.40	52,877	24.00	1,728	0.00	0	1,634.50	117,684
G75-50-4347.00	Fuel Storage Tank No.4; (Double Wall Tank) skid mounted c/w pumps, filters, valve, hose, meter	1. lot	45.00	1.30	58.50	103.68	6,065	0.00	0	720.00	720	39,240.00	39,240	46,025.28	46,025
G75-13-4348.00	Fuel Station No.4; Detail Excavation	144. m3	0.06	1.30	11.23	103.68	1,165	0.00	0	3.60	518	0.00	0	11.69	1,683
G75-13-4349.00	Fuel Station No.4; Structural Backfill (assumed dental rock excavation backfilled with concrete)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G75-20-4350.00	Fuel Station No.4; Concrete work	240. m3	6.50	1.30	2,028.00	103.68	210,263	734.40	176,256	24.00	5,760	0.00	0	1,634.50	392,279
G75-50-4351.00	Fuel Station No.4;	1. lot	780.00	1.30	1,014.00	103.68	105,132	64,800.00	64,800	26,400.00	26,400	105,600.00	105,600	301,931.51	301,932
G75-70-4352.00	Electrical infrastructure includes area grounding, general lighting, emergency lighting, heating tracing, misc power, panels, trays, misc fittings, etc	1. lot	75.00	1.30	97.50	103.68	10,109	12,000.00	12,000	336.00	336	0.00	0	22,444.80	22,445
G75 - Saddle Staging Area - Fuel Station No. 4 Subtotal					3,822.31		396,297	305,933		35,678		144,840		882,748	
<u>G76 - Plant Site (pre-construction) - Fuel Station and Storage No. 5</u>															
G76-13-4354.00	Fuel Storage Pad; Detail Excavation	60. m3	0.06	1.30	4.68	103.68	485	0.00	0	3.60	216	0.00	0	11.69	701
G76-13-4355.00	Fuel Storage Pad; Structural Backfill (assumed dental rock excavation backfilled with concrete)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G76-20-4356.00	Fuel Storage Pad; Concrete work	72. m3	6.50	1.30	608.40	103.68	63,079	734.40	52,877	24.00	1,728	0.00	0	1,634.50	117,684
G76-50-4357.00	Fuel Storage Tank No.5; (Double Wall Tank) skid mounted c/w pumps, filters, valve, hose, meter	1. lot	60.00	1.30	78.00	103.68	8,087	0.00	0	960.00	960	52,320.00	52,320	61,367.04	61,367
G76-13-4358.00	Fuel Station No.5; Detail Excavation	144. m3	0.06	1.30	11.23	103.68	1,165	0.00	0	3.60	518	0.00	0	11.69	1,683
G76-13-4359.00	Fuel Station No.5; Structural Backfill (assumed dental rock excavation backfilled with concrete)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G76-20-4360.00	Fuel Station No.5; Concrete work	240. m3	6.50	1.30	2,028.00	103.68	210,263	734.40	176,256	24.00	5,760	0.00	0	1,634.50	392,279
G76-50-4361.00	Fuel Station No.5;	1. lot	780.00	1.30	1,014.00	103.68	105,132	64,800.00	64,800	26,400.00	26,400	105,600.00	105,600	301,931.51	301,932



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
G76-70-4362.00	Electrical infrastructure includes area grounding, general lighting, emergency lighting, heating tracing, misc power, panels, trays, misc fittings, etc	1. lot	75.00	1.30	97.50	103.68	10,109	12,000.00	12,000	336.00	336	0.00	0	22,444.80	22,445
G76 - Plant Site (pre-construction) - Fuel Station and Storage No. 5 Subtotal					3,841.81		398,319		305,933		35,918		157,920		898,090
<u>G78 - Kerr Pit - Fuel Station No. 7 [Y13 -Sustaining]</u>															
G78-13-4364.00	[Y26] - Detail Excavation, (Sustaining Capital CAD\$12,783)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G78-13-4365.00	[Y26] - Structural Backfill, (Sustaining Capital CAD\$24,530)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G78-20-4366.00	[Y26] - Concrete work, (Sustaining Capital CAD\$204,312)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G78-50-4367.00	[Y26] - Fuel Station No.7, (Sustaining Capital CAD\$314,512)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G78 - Kerr Pit - Fuel Station No. 7 [Y13 -Sustaining] Subtotal					0.00		0		0		0		0		0
<u>G79 - Kerr Pit - Fuel Storage No. 7 [Y13 - Sustaining]</u>															
G79-13-4369.00	[Y26] - Detail Excavation, (Sustaining Capital CAD\$6,757)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G79-13-4370.00	[Y26] - Structural Backfill, (Sustaining Capital CAD\$13,280)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G79-20-4371.00	[Y26] - Concrete work, (Sustaining Capital CAD\$85,130)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G79-50-4372.00	[Y26] - Fuel Storage Tank No.7, (Sustaining Capital CAD\$498,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G79 - Kerr Pit - Fuel Storage No. 7 [Y13 - Sustaining] Subtotal					0.00		0		0		0		0		0
<u>G80 - Sulphurets Pit - Fuel Station and Storage No. 8</u>															
G80-13-4374.00	Fuel Storage Pad; Detail Excavation	150. m3	0.06	1.30	11.70	103.68	1,213	0.00	0	3.60	540	0.00	0	11.69	1,753
G80-13-4375.00	Fuel Storage Pad; Structural Backfill (assumed dental rock excavation backfilled with concrete)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G80-20-4376.00	Fuel Storage Pad; Concrete work	180. m3	6.50	1.30	1,521.00	103.68	157,697	734.40	132,192	24.00	4,320	0.00	0	1,634.50	294,209
G80-50-4377.00	Fuel Storage Tank No.8 (Double Wall Tank) c/w pumps, filters, valve, hose, meter, ladder and access platform complete	1. lot	100.00	1.30	130.00	103.68	13,478	0.00	0	960.00	960	90,000.00	90,000	104,438.40	104,438



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
G80-50-4378.00	Fuel Storage Tank No.8 Fuel Water Separator	1. ea	45.00	1.30	58.50	103.68	6,065	19,200.00	19,200	480.00	480	0.00	0	25,745.28	25,745
G80-13-4379.00	Fuel Station No.8; Detail Excavation	144. m3	0.06	1.30	11.23	103.68	1,165	0.00	0	3.60	518	0.00	0	11.69	1,683
G80-13-4380.00	Fuel Station No.8; Structural Backfill (assumed dental rock excavation backfilled with concrete)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G80-20-4381.00	Fuel Station No.8; Concrete work	240. m3	6.50	1.30	2,028.00	103.68	210,263	734.40	176,256	24.00	5,760	0.00	0	1,634.50	392,279
G80-50-4382.00	Fuel Station No.8	1. lot	780.00	1.30	1,014.00	103.68	105,132	64,800.00	64,800	26,400.00	26,400	105,600.00	105,600	301,931.51	301,932
G80 - Sulphurets Pit - Fuel Station and Storage No. 8 Subtotal					4,774.43		495,013	392,448		38,978		195,600		1,122,039	
<u>G91 - Fuel Unloading/Pumping Station</u>															
G91-13-4384.00	Fuel Storage Pad; Detail Excavation	550. m3	0.06	1.30	42.90	103.68	4,448	0.00	0	3.60	1,980	0.00	0	11.69	6,428
G91-13-4385.00	Fuel Storage Pad; Structural Backfill (assumed dental rock excavation backfilled with concrete)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G91-20-4386.00	Fuel Storage Pad; Concrete work	660. m3	6.50	1.30	5,577.00	103.68	578,223	734.40	484,704	24.00	15,840	0.00	0	1,634.50	1,078,767
G91-40-4387.00	Fuel Storage Tank; (Double Wall Tank) c/w pumps, filters, valve, hose, meter, ladder and access platform complete	1. lot	800.00	1.30	1,040.00	103.68	107,827	0.00	0	14,400.00	14,400	1,343,999.97	1,344,000	1,466,227.17	1,466,227
G91-40-4388.00	Fuel Storage Tank; Pumping Module	1. lot	120.00	1.30	156.00	103.68	16,174	960.00	960	4,800.00	4,800	431,999.99	432,000	453,934.07	453,934
G91-40-4389.00	Fuel Storage Tank; Pumping Transfer Station	1. lot	80.00	1.30	104.00	103.68	10,783	192.00	192	144.00	144	81,600.00	81,600	92,718.72	92,719
G91-50-4390.00	Fuel Storage Tank; Fuel Water Separator	1. lot	45.00	1.30	58.50	103.68	6,065	19,200.00	19,200	480.00	480	0.00	0	25,745.28	25,745
G91-50-4391.00	Fuel Storage Tank; Housing for Pumps, Electrical, etc. Allowance	1. lot	36.00	1.30	46.80	103.68	4,852	480.00	480	24.00	24	0.00	0	5,356.22	5,356
G91-13-4392.00	Fuel Station; Detail Excavation	144. m3	0.06	1.30	11.23	103.68	1,165	0.00	0	3.60	518	0.00	0	11.69	1,683
G91-13-4393.00	Fuel Station; Structural Backfill (assumed dental rock excavation backfilled with concrete)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
G91-20-4394.00	Fuel Station; Concrete work	240. m3	6.50	1.30	2,028.00	103.68	210,263	734.40	176,256	24.00	5,760	0.00	0	1,634.50	392,279
G91-40-4395.00	Fuel Station;	1. lot	780.00	1.30	1,014.00	103.68	105,132	64,800.00	64,800	26,400.00	26,400	105,600.00	105,600	301,931.51	301,932
G91-70-4396.00	Electrical infrastructure includes area grounding, general lighting, emergency lighting, heating tracing, misc power, panels, trays, misc fittings, etc	1. lot	330.00	1.30	429.00	103.68	44,479	50,880.00	50,880	1,440.00	1,440	0.00	0	96,798.72	96,799
G91-13-4397.00	Berm	1. lot	100.00	1.30	130.00	103.68	13,478	480.00	480	2,880.00	2,880	0.00	0	16,838.40	16,838
G91 - Fuel Unloading/Pumping Station Subtotal					10,637.43		1,102,889		797,952		74,666		1,963,200		3,938,707
<u>J10 - Plant Site - Admin Building</u>															
J10-40-4399.00	Section A, 20m x 50m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J10-40-4400.00	Section B, 3m x 3m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J10-40-4401.00	Section C, 3m x 3m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J10-13-4402.00	Detail Excavation	3,105. m3	0.06	1.30	242.19	103.68	25,110	0.00	0	3.60	11,178	0.00	0	11.69	36,288
J10-13-4403.00	Structural Backfill	2,920. m3	0.10	1.30	379.60	103.68	39,357	7.68	22,426	3.84	11,213	0.00	0	25.00	72,995
J10-20-4404.00	Concrete work	205. m3	7.00	1.30	1,865.50	103.68	193,415	643.20	131,856	19.20	3,936	0.00	0	1,605.89	329,207
J10-40-4405.00	Pre-engineered Building including Roof cladding, Wall cladding, manddoors and misc architectural finishes	1,020. m2	1.20	1.30	1,591.20	103.68	164,976	2,160.00	2,203,200	24.00	24,480	0.00	0	2,345.74	2,392,656
J10-40-4406.00	Furniture and Computer Equipment Allowance	1. lot	315.00	1.30	409.50	103.68	42,457	66,000.00	66,000	9,600.00	9,600	0.00	0	118,056.96	118,057
J10-40-4407.00	Environment Lab Allowance	1. lot	20.00	1.30	26.00	103.68	2,696	96.00	96	144.00	144	479,999.99	480,000	482,935.67	482,936
J10-40-4408.00	Fire Protection - Auto Sprinklers	240. ea	4.00	1.30	1,248.00	103.68	129,393	960.00	230,400	4.80	1,152	0.00	0	1,503.94	360,945
J10-40-4409.00	Fire Protection - Fire Extinguishers	1. lot	8.00	1.30	10.40	103.68	1,078	1,920.00	1,920	19.20	19	0.00	0	3,017.47	3,017



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
J10-58-4410.00	HVAC Allowance	1. lot	480.00	1.00	480.00	103.68	49,766	1,953.60	1,954	20,049.60	20,050	326,654.39	326,654	398,423.99	398,424
J10 - Plant Site - Admin Building Subtotal					6,252.39		648,248		2,657,851		81,772		806,654		4,194,525
<u>J11 - Plant Site - Assay and Met Lab</u>															
J11-40-4446.00	Section A, 13m x 22m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J11-40-4447.00	Section B, 19m x 24m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J11-13-4448.00	Detail Excavation	2,375. m3	0.06	1.30	185.25	103.68	19,207	0.00	0	3.60	8,550	0.00	0	11.69	27,757
J11-13-4449.00	Structural Backfill	2,135. m3	0.10	1.30	277.55	103.68	28,776	7.68	16,397	3.84	8,198	0.00	0	25.00	53,372
J11-20-4450.00	Concrete work	265. m3	7.00	1.30	2,411.50	103.68	250,024	643.20	170,448	19.20	5,088	0.00	0	1,605.89	425,560
J11-40-4451.00	Pre-engineered Building including Roof cladding, Wall cladding, manddoors and misc architectural finishes	740. m2	1.20	1.30	1,154.40	103.68	119,688	2,160.00	1,598,400	24.00	17,760	0.00	0	2,345.74	1,735,848
J11-50-4452.00	Lab Equipment and Supplies Allowance	1. lot	937.50	1.30	1,218.75	103.68	126,360	0.00	0	0.00	0	1,727,999.96	1,728,000	1,854,359.96	1,854,360
J11-40-4453.00	Furniture and Computer Equipment Allowance	1. lot	250.00	1.30	325.00	103.68	33,696	52,800.00	52,800	7,680.00	7,680	0.00	0	94,176.00	94,176
J11-58-4454.00	Fire Protection - Auto Sprinklers	120. ea	4.00	1.30	624.00	103.68	64,696	960.00	115,200	4.80	576	0.00	0	1,503.94	180,472
J11-58-4455.00	Fire Protection - Fire Extinguishers	1. lot	8.00	1.30	10.40	103.68	1,078	1,920.00	1,920	19.20	19	0.00	0	3,017.47	3,017
J11-58-4456.00	HVAC Allowance	1. lot	420.00	1.00	420.00	103.68	43,546	2,702.40	2,702	6,446.40	6,446	205,924.80	205,925	258,619.19	258,619
J11 - Plant Site - Assay and Met Lab Subtotal					6,626.85		687,072		1,957,867		54,318		1,933,925		4,633,182
<u>J12 - Plant Site - Warehouse and Maintenance</u>															
J12-13-4475.00	Warehouse, 23m x 36m x 8m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J12-13-4476.00	Maintenance, 23m x 61m x 8m	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
J12-13-4477.00	Detail Excavation	6,505. m3	0.06	1.30	507.39	103.68	52,606	0.00	0	3.60	23,418	0.00	0	11.69	76,024
J12-13-4478.00	Structural Backfill	5,160. m3	0.10	1.30	670.80	103.68	69,549	7.68	39,629	3.84	19,814	0.00	0	25.00	128,992
J12-20-4479.00	Concrete work	1,675. m3	7.00	1.30	15,242.50	103.68	1,580,342	643.20	1,077,360	19.20	32,160	0.00	0	1,605.89	2,689,862
J12-30-4480.00	Structural Steel	355. t	22.00	1.30	10,153.00	103.68	1,052,663	4,608.00	1,635,840	240.00	85,200	0.00	0	7,813.25	2,773,703
J12-40-4481.00	Wall cladding	2,290. m2	1.00	1.30	2,977.00	103.68	308,655	105.60	241,824	14.40	32,976	0.00	0	254.78	583,455
J12-40-4482.00	Roof cladding	2,230. m2	1.00	1.30	2,899.00	103.68	300,568	105.60	235,488	14.40	32,112	0.00	0	254.78	568,168
J12-40-4483.00	Furniture Allowance	1. lot	0.00	1.30	0.00	103.68	0	13,104.00	13,104	1,920.00	1,920	0.00	0	15,024.00	15,024
J12-40-4484.00	Shelving system Allowance	1. lot	0.00	1.30	0.00	103.68	0	225,599.99	225,600	28,800.00	28,800	0.00	0	254,399.99	254,400
J12-50-4485.00	Waste Oil and Coolant Systems Allowance	1. lot	400.00	1.30	520.00	103.68	53,914	19,200.00	19,200	9,600.00	9,600	158,400.00	158,400	241,113.59	241,114
J12-50-4486.00	Lube System Allowance	1. lot	2,000.00	1.30	2,600.00	103.68	269,568	52,800.00	52,800	24,000.00	24,000	350,399.99	350,400	696,767.98	696,768
J12-50-4487.00	Truckshop and Warehouse Bridge Crane, 75/15T [J12-CRN-XXX]	2. ea	350.00	1.30	910.00	103.68	94,349	480.00	960	2,880.00	5,760	359,999.99	720,000	410,534.39	821,069
J12-50-4488.00	Truckshop and Warehouse Bridge Crane, 15/5T [J12-CRN-XXX]	1. ea	150.00	1.30	195.00	103.68	20,218	240.00	240	1,920.00	1,920	144,000.00	144,000	166,377.60	166,378
J12-58-4489.00	Fire Protection; Auto Sprinklers @ Warehouse	85. ea	4.00	1.30	442.00	103.68	45,827	960.00	81,600	4.80	408	0.00	0	1,503.94	127,835
J12-58-4490.00	Fire Protection; Auto Sprinklers @ Truck Bays	144. ea	4.00	1.30	748.80	103.68	77,636	960.00	138,240	4.80	691	0.00	0	1,503.94	216,567
J12-58-4491.00	Fire Protection; Fire Extinguishers	3. ea	8.00	1.30	31.20	103.68	3,235	1,920.00	5,760	19.20	58	0.00	0	3,017.47	9,052
J12-58-4492.00	HVAC Allowance	1. lot	1,565.00	1.00	1,565.00	103.68	162,259	8,812.80	8,813	40,320.00	40,320	785,279.98	785,280	996,671.98	996,672
J12 - Plant Site - Warehouse and Maintenance Subtotal					39,461.69		4,091,388	3,776,458		339,157		2,158,080		10,365,083	



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
<u>J13 - Plant Site - Ambulance Building</u>															
J13-40-4560.00	Section A, 9m x 11m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J13-40-4561.00	Section B, 9m x 11m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J13-40-4562.00	Opening between A and B, 9m x 17m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J13-13-4563.00	Detail Excavation	1,335. m3	0.06	1.30	104.13	103.68	10,796	0.00	0	3.60	4,806	0.00	0	11.69	15,602
J13-13-4564.00	Structural Backfill	1,240. m3	0.10	1.30	161.20	103.68	16,713	7.68	9,523	3.84	4,762	0.00	0	25.00	30,998
J13-20-4565.00	Concrete work	105. m3	7.00	1.30	955.50	103.68	99,066	643.20	67,536	19.20	2,016	0.00	0	1,605.89	168,618
J13-40-4566.00	Modular (First Aid)	255. m2	1.00	1.30	331.50	103.68	34,370	960.00	244,800	40.00	10,200	0.00	0	1,134.78	289,370
J13-40-4567.00	Modular (Vehicle)	95. m2	1.00	1.30	123.50	103.68	12,804	960.00	91,200	40.00	3,800	0.00	0	1,134.78	107,804
J13-40-4568.00	Furniture and Equipment Allowance	1. lot	156.25	1.00	156.25	103.68	16,200	31,200.00	31,200	4,800.00	4,800	0.00	0	52,200.00	52,200
J13-58-4569.00	Building Services Allowance	1. lot	125.00	1.00	125.00	103.68	12,960	13,440.00	13,440	3,840.00	3,840	11,520.00	11,520	41,760.00	41,760
J13 - Plant Site - Ambulance Building Subtotal					1,957.08		202,910		457,699		34,224		11,520		706,353
<u>J15 - Plant Site - 250 personnel Camp</u>															
J15-13-4571.00	Detail Excavation	4,895. m3	0.06	1.30	381.81	103.68	39,586	0.00	0	3.60	17,622	0.00	0	11.69	57,208
J15-13-4572.00	Structural Backfill	4,230. m3	0.10	1.30	549.90	103.68	57,014	7.68	32,486	3.84	16,243	0.00	0	25.00	105,743
J15-20-4573.00	Concrete work	835. m3	7.00	1.30	7,598.50	103.68	787,812	528.00	440,880	28.80	24,048	0.00	0	1,500.29	1,252,740
J15-40-4574.00	Modular Building including dormitories, kitchen, recreation and commercial laundry facilities, STP and Potable water	6,000. m2	1.00	1.30	7,800.00	103.68	808,704	1,296.00	7,776,000	40.00	240,000	0.00	0	1,470.78	8,824,704
J15 - Plant Site - 250 personnel Camp Subtotal					16,330.21		1,693,116		8,249,366		297,913		0		10,240,396



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
J17 - Plant Site - Concentrate and Loadout Building															
J17-40-4576.00	Concentrate Storage and Loadout Building, 46m x 70m x 18m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J17-13-4577.00	Concentrate Storage and Loadout Building; Detail Excavation	8,790. m3	0.06	1.30	685.62	103.68	71,085	0.00	0	3.60	31,644	0.00	0	11.69	102,729
J17-13-4578.00	Concentrate Storage and Loadout Building; Structural Backfill	7,050. m3	0.10	1.30	916.50	103.68	95,023	7.68	54,144	3.84	27,072	0.00	0	25.00	176,239
J17-20-4579.00	Concentrate Storage and Loadout Building; Concrete work	1,930. m3	7.00	1.30	17,563.00	103.68	1,820,932	528.00	1,019,040	28.80	55,584	0.00	0	1,500.29	2,895,556
J17-30-4580.00	Concentrate Storage and Loadout Building; Structural Steel	175. t	22.00	1.30	5,005.00	103.68	518,918	4,608.00	806,400	240.00	42,000	0.00	0	7,813.25	1,367,318
J17-40-4581.00	Concentrate Storage and Loadout Building; Wall cladding	4,175. m2	1.00	1.30	5,427.50	103.68	562,723	105.60	440,880	14.40	60,120	0.00	0	254.78	1,063,723
J17-40-4582.00	Concentrate Storage and Loadout Building; Roof cladding	3,220. m2	1.00	1.30	4,186.00	103.68	434,004	105.60	340,032	14.40	46,368	0.00	0	254.78	820,404
J17-58-4583.00	Concentrate Storage and Loadout Building; Fire Protection; Fire Extinguishers	1. lot	15.00	1.30	19.50	103.68	2,022	2,649.60	2,650	14.40	14	0.00	0	4,685.76	4,686
J17-58-4584.00	Concentrate Storage and Loadout Building; Fire Protection; Fire Hose System	1. lot	20.00	1.30	26.00	103.68	2,696	35,328.00	35,328	19.20	19	0.00	0	38,042.88	38,043
J17-40-4585.00	Concentrate Conveyor, 50m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J17-13-4586.00	Concentrate Conveyor; Detail Excavation	1,250. m3	0.06	1.30	97.50	103.68	10,109	0.00	0	3.60	4,500	0.00	0	11.69	14,609
J17-13-4587.00	Concentrate Conveyor; Structural Backfill	1,140. m3	0.10	1.30	148.20	103.68	15,365	7.68	8,755	3.84	4,378	0.00	0	25.00	28,498
J17-20-4588.00	Concentrate Conveyor; Concrete work	125. m3	7.00	1.30	1,137.50	103.68	117,936	528.00	66,000	28.80	3,600	0.00	0	1,500.29	187,536
J17-13-4589.00	Transformer Station; Detail Excavation	825. m3	0.06	1.30	64.35	103.68	6,672	0.00	0	3.60	2,970	0.00	0	11.69	9,642
J17-13-4590.00	Transformer Station; Structural Backfill	725. m3	0.10	1.30	94.25	103.68	9,772	7.68	5,568	3.84	2,784	0.00	0	25.00	18,124
J17-20-4591.00	Transformer Station; Concrete work	145. m3	7.00	1.30	1,319.50	103.68	136,806	528.00	76,560	28.80	4,176	0.00	0	1,500.29	217,542



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
J17 - Plant Site - Concentrate and Loadout Building Subtotal							36,690.42		3,804,063		2,855,357		285,229	0	6,944,649
<u>J18 - Plant Site - Cold Storage</u>															
J18-40-4593.00	Cold Storage Building, 18.3m x 61m x 8m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J18-13-4594.00	Detail Excavation	3,300. m3	0.06	1.30	257.40	103.68	26,687	0.00	0	3.60	11,880	0.00	0	11.69	38,567
J18-13-4595.00	Structural Backfill	2,945. m3	0.10	1.30	382.85	103.68	39,694	7.68	22,618	3.84	11,309	0.00	0	25.00	73,620
J18-20-4596.00	Concrete work	445. m3	6.50	1.30	3,760.25	103.68	389,863	734.40	326,808	24.00	10,680	0.00	0	1,634.50	727,351
J18-40-4597.00	Pre-engineered Building including Roof cladding, Wall cladding, mandooors and misc architectural finishes	1,115. m2	1.20	1.30	1,739.40	103.68	180,341	2,160.00	2,408,400	24.00	26,760	0.00	0	2,345.74	2,615,501
J18-58-4598.00	Fire Protection - Fire Extinguishers	1. lot	8.00	1.30	10.40	103.68	1,078	1,920.00	1,920	19.20	19	0.00	0	3,017.47	3,017
J18 - Plant Site - Cold Storage Subtotal							6,150.30		637,663		2,759,746		60,648	0	3,458,057
<u>J19 - Plant Site - Waste Management & Incinerator</u>															
J19-40-4600.00	Waste Management & Incinerator, 18.3m x 61m x 8m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J19-13-4601.00	Detail Excavation	1,180. m3	0.06	1.30	92.04	103.68	9,543	0.00	0	3.60	4,248	0.00	0	11.69	13,791
J19-13-4602.00	Structural Backfill	1,000. m3	0.10	1.30	130.00	103.68	13,478	7.68	7,680	3.84	3,840	0.00	0	25.00	24,998
J19-20-4603.00	Concrete work	197. m3	6.50	1.30	1,664.65	103.68	172,591	734.40	144,677	24.00	4,728	0.00	0	1,634.50	321,996
J19-40-4604.00	Incinerator	1. lot	400.00	1.00	400.00	103.68	41,472	239,999.99	240,000	4,800.00	4,800	0.00	0	286,271.99	286,272
J19-40-4605.00	Pre-engineered Building including Roof cladding, Wall cladding, mandooors and misc architectural finishes	495. m2	1.00	1.30	643.50	103.68	66,718	960.00	475,200	24.00	11,880	0.00	0	1,118.78	553,798
J19-58-4606.00	Fire Protection - Fire Extinguishers	1. lot	8.00	1.30	10.40	103.68	1,078	1,440.00	1,440	19.20	19	0.00	0	2,537.47	2,537
J19 - Plant Site - Waste Management & Incinerator Subtotal							2,940.59		304,880		868,997		29,515	0	1,203,392
<u>J20 - Mitchell Site - Truckshop and Emergency Services</u>															



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
J20-40-4608.00	Mitchell Site - Truckshop, 49m x 186m x 20m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J20-13-4609.00	Detail Excavation	51,570. m3	0.06	1.30	4,022.46	103.68	417,049	0.00	0	3.60	185,652	0.00	0	11.69	602,701
J20-13-4610.00	Structural Backfill	45,010. m3	0.10	1.30	5,851.30	103.68	606,663	7.68	345,677	3.84	172,838	0.00	0	25.00	1,125,178
J20-20-4611.00	Concrete work	7,290. m3	7.00	1.30	66,339.00	103.68	6,878,027	643.20	4,688,928	19.20	139,968	0.00	0	1,605.89	11,706,923
J20-40-4612.00	Pre-engineered Building including Roof cladding, Wall cladding, mandooors and misc architectural finishes	9,115. m2	1.20	1.30	14,219.40	103.68	1,474,267	2,160.00	19,688,400	24.00	218,760	0.00	0	2,345.74	21,381,427
J20-50-4613.00	Truck Shop Compressor, 365Am3/h @ 690kPag [J03-AIC-001]	1. ea	70.00	1.30	91.00	103.68	9,435	96.00	96	96.00	96	22,597.44	22,597	32,224.32	32,224
J20-50-4614.00	Truck Shop Air Filter [J03-AIF-021]	1. ea	10.00	1.30	13.00	103.68	1,348	9.60	10	9.60	10	447.36	447	1,814.40	1,814
J20-50-4615.00	Truck Shop Air Receiver, 1 m³ [J03-AIR-031]	1. ea	16.00	1.30	20.80	103.68	2,157	24.00	24	48.00	48	5,438.40	5,438	7,666.94	7,667
J20-50-4616.00	Truckshop and Warehouse Bridge Crane 12m, 75/15T [J03-CRN-XXX]	2. ea	350.00	1.30	910.00	103.68	94,349	480.00	960	2,880.00	5,760	359,999.99	720,000	410,534.39	821,069
J20-50-4617.00	Truckshop and Warehouse Bridge Crane 22m, 15/5T [J03-CRN-XXX]	1. ea	150.00	1.30	195.00	103.68	20,218	240.00	240	1,920.00	1,920	144,000.00	144,000	166,377.60	166,378
J20-50-4618.00	Shop/Warehouse Shelving and Warehouse System Allowance	1. lot	250.00	1.30	325.00	103.68	33,696	239,999.99	240,000	3,840.00	3,840	0.00	0	277,535.99	277,536
J20-50-4619.00	Mining and Truckshop Tools/Equipment Allowance	1. lot	400.00	1.30	520.00	103.68	53,914	671,999.98	672,000	9,600.00	9,600	0.00	0	735,513.58	735,514
J20-50-4620.00	Waste Oil and Coolant Systems Allowance	1. lot	400.00	1.30	520.00	103.68	53,914	14,400.00	14,400	9,600.00	9,600	144,000.00	144,000	221,913.60	221,914
J20-50-4621.00	Lube System Allowance	1. lot	2,000.00	1.30	2,600.00	103.68	269,568	48,000.00	48,000	24,000.00	24,000	335,999.99	336,000	677,567.98	677,568
J20-80-4622.00	Instrument Allowance	1. lot	40.00	1.30	52.00	103.68	5,391	96.00	96	24.00	24	4,800.00	4,800	10,311.36	10,311
J20-58-4623.00	HVAC Including Air Conditioning Unit, Air Handling Units, Exhaust Fans, Supply Fans/Filter, Unit Heaters, Radiant Heaters, Welding Arms, etc	1. lot	730.00	1.30	949.00	103.68	98,392	53,611.20	53,611	11,616.00	11,616	417,119.99	417,120	580,739.51	580,740



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
J20-58-4624.00	Fire Protection Include Auto Sprinklers, Fire Hose Systems, Fire Extinguishers, etc.	1. lot	1,400.00	1.30	1,820.00	103.68	188,698	102,816.00	102,816	0.00	0	104,640.00	104,640	396,153.59	396,154
J20 - Mitchell Site - Truckshop and Emergency Services Subtotal					98,447.96		10,207,084		25,855,257		783,732		1,899,043		38,745,116
<u>J21 - Mitchell Site - 350 personnel Camp</u>															
J21-13-4626.00	Detail Excavation	4,035. m3	0.06	1.30	314.73	103.68	32,631	0.00	0	3.60	14,526	0.00	0	11.69	47,157
J21-13-4627.00	Structural Backfill	2,825. m3	0.10	1.30	367.25	103.68	38,076	7.68	21,696	3.84	10,848	0.00	0	25.00	70,620
J21-20-4628.00	Concrete work	1,345. m3	6.50	1.30	11,365.25	103.68	1,178,349	734.40	987,768	24.00	32,280	0.00	0	1,634.50	2,198,397
J21-40-4629.00	Modular Building including dormitories, kitchen, recreation and commercial laundry facilities , STP and potable water	9,600. m2	1.00	1.30	12,480.00	103.68	1,293,926	960.00	9,216,000	40.00	384,000	0.00	0	1,134.78	10,893,926
J21 - Mitchell Site - 350 personnel Camp Subtotal					24,527.23		2,542,983		10,225,464		441,654		0		13,210,101
<u>J22 - Mitchell Site - AN PRILL/Explosive Magazine Storage (included with Mining)</u>															
J22-40-4631.00	Mitchell Site - ANFO Storage (included with Mining Section)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 - Mitchell Site - AN PRILL/Explosive Magazine Storage (included with Mining Section) Subtotal					0.00		0		0		0		0		0
<u>J23 - Mitchell Site - Emergency Services Building</u>															
J23-40-4635.00	Mitchell Site - Emergency Services Building, 26m x 22m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J23-13-4636.00	Detail Excavation	1,675. m3	0.06	1.30	130.65	103.68	13,546	0.00	0	3.60	6,030	0.00	0	11.69	19,576
J23-13-4637.00	Structural Backfill	1,470. m3	0.10	1.30	191.10	103.68	19,813	7.68	11,290	3.84	5,645	0.00	0	25.00	36,748
J23-20-4638.00	Concrete work	230. m3	6.50	1.30	1,943.50	103.68	201,502	734.40	168,912	24.00	5,520	0.00	0	1,634.50	375,934
J23-40-4639.00	Modular Building	572. m2	1.00	1.30	743.60	103.68	77,096	960.00	549,120	40.00	22,880	0.00	0	1,134.78	649,096
J23-40-4640.00	Furniture and equipment Allowance	1. lot	150.00	1.30	195.00	103.68	20,218	38,400.00	38,400	5,280.00	5,280	0.00	0	63,897.60	63,898
J23-58-4641.00	Building Services Allowance	1. lot	100.00	1.30	130.00	103.68	13,478	14,400.00	14,400	4,800.00	4,800	14,400.00	14,400	47,078.40	47,078



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
J23 - Mitchell Site - Emergency Services Building Subtotal					3,333.85		345,654		782,122		50,155		14,400		1,192,330
<u>J29 - Mitchell Site - Waste Management & Incinerator</u>															
J29-40-4643.00	Waste Management & Incinerator, 18.3m x 61m x 8m	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J29-13-4644.00	Detail Excavation	1,180. m3	0.06	1.30	92.04	103.68	9,543	0.00	0	3.60	4,248	0.00	0	11.69	13,791
J29-13-4645.00	Structural Backfill	1,000. m3	0.10	1.30	130.00	103.68	13,478	7.68	7,680	3.84	3,840	0.00	0	25.00	24,998
J29-20-4646.00	Concrete work	197. m3	6.50	1.30	1,664.65	103.68	172,591	734.40	144,677	24.00	4,728	0.00	0	1,634.50	321,996
J29-40-4647.00	Incinerator	1. lot	400.00	1.00	400.00	103.68	41,472	239,999.99	240,000	4,800.00	4,800	0.00	0	286,271.99	286,272
J29-40-4648.00	Pre-engineered Building including Roof cladding, Wall cladding, manddoors and misc architectural finishes	495. m2	1.00	1.30	643.50	103.68	66,718	960.00	475,200	24.00	11,880	0.00	0	1,118.78	553,798
J29-58-4649.00	Fire Protection - Fire Extinguishers	1. lot	8.00	1.30	10.40	103.68	1,078	1,440.00	1,440	19.20	19	0.00	0	2,537.47	2,537
J29 - Mitchell Site - Waste Management & Incinerator Subtotal					2,940.59		304,880		868,997		29,515		0		1,203,392
<u>K11 - Mitchell Minesite - Plant Mobile Equipment Fleet</u>															
K11-59-4651.00	Backhoe Loader [Cat 446D]	2. ea	40.00	1.30	104.00	103.68	10,783	0.00	0	0.00	0	124,800.00	249,600	130,191.36	260,383
K11-59-4652.00	Dump Truck [LT9513]	2. ea	30.00	1.30	78.00	103.68	8,087	0.00	0	0.00	0	134,400.00	268,800	138,443.52	276,887
K11-59-4653.00	Bus - 37 Passenger [Defender 350]	7. ea	8.00	1.30	72.80	103.68	7,548	0.00	0	0.00	0	105,600.00	739,200	106,678.27	746,748
K11-59-4654.00	Forklift [Cat DP80]	4. ea	20.00	1.30	104.00	103.68	10,783	0.00	0	0.00	0	48,000.00	192,000	50,695.68	202,783
K11-59-4655.00	Bobcat [Cat 256C]	1. ea	16.00	1.30	20.80	103.68	2,157	0.00	0	0.00	0	54,048.00	54,048	56,204.54	56,205
K11-59-4658.00	Boom Truck -20T [International 4300]	1. ea	48.00	1.30	62.40	103.68	6,470	0.00	0	0.00	0	96,000.00	96,000	102,469.63	102,470
K11-59-4659.00	Loader F/E [Cat 966H]	2. ea	48.00	1.30	124.80	103.68	12,939	0.00	0	0.00	0	335,999.99	672,000	342,469.62	684,939



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
K11-59-4660.00	Passenger Van [E-350]	2. ea	8.00	1.30	20.80	103.68	2,157	0.00	0	0.00	0	38,784.00	77,568	39,862.27	79,725
K11-59-4661.00	Truck 1/2 tonne [F150 4x4]	8. ea	8.00	1.30	83.20	103.68	8,626	0.00	0	0.00	0	34,560.00	276,480	35,638.27	285,106
K11-59-4662.00	Snow plow/sanding truck	1. ea	40.00	1.30	52.00	103.68	5,391	0.00	0	0.00	0	115,200.00	115,200	120,591.36	120,591
K11-59-4665.00	Culvert De-icing Machine	2. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	9,600.00	19,200	9,600.00	19,200
K11-59-4666.00	Road maintenance (winter and summer) by contractor	1. lot	11,250.00	1.30	14,625.00	103.68	1,516,320	431,999.99	432,000	1,583,999.96	1,584,000	0.00	0	3,532,319.92	3,532,320
K11 - Mitchell Minesite - Plant Mobile Equipment Fleet Subtotal					15,347.80		1,591,260		432,000		1,584,000		2,760,096		6,367,356
<u>K12 - Teigen Plantsite - Plant Mobile Equipment Fleet</u>															
K12-59-4668.00	Backhoe Loader [Cat 446D]	4. ea	40.00	1.30	208.00	103.68	21,565	0.00	0	0.00	0	124,800.00	499,200	130,191.36	520,765
K12-59-4669.00	Dump Truck [LT9513]	4. ea	30.00	1.30	156.00	103.68	16,174	0.00	0	0.00	0	134,400.00	537,600	138,443.52	553,774
K12-59-4670.00	Bus - 37 Passenger [Defender 350]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
K12-59-4671.00	Forklift [Cat DP80]	4. ea	20.00	1.30	104.00	103.68	10,783	0.00	0	0.00	0	48,000.00	192,000	50,695.68	202,783
K12-59-4672.00	Bobcat [Cat 256C]	3. ea	16.00	1.30	62.40	103.68	6,470	0.00	0	0.00	0	54,048.00	162,144	56,204.54	168,614
K12-59-4673.00	Forklift [Cat DP40]	4. ea	12.00	1.30	62.40	103.68	6,470	0.00	0	0.00	0	33,600.00	134,400	35,217.41	140,870
K12-59-4674.00	Crane - 100T	1. ea	120.00	1.30	156.00	103.68	16,174	0.00	0	0.00	0	815,999.98	816,000	832,174.06	832,174
K12-59-4675.00	Boom Truck -20T [International 4300]	1. ea	48.00	1.30	62.40	103.68	6,470	0.00	0	0.00	0	96,000.00	96,000	102,469.63	102,470
K12-59-4676.00	Loader F/E [Cat 966H]	2. ea	48.00	1.30	124.80	103.68	12,939	0.00	0	0.00	0	335,999.99	672,000	342,469.62	684,939
K12-59-4677.00	Ambulance	1. ea	40.00	1.30	52.00	103.68	5,391	0.00	0	0.00	0	57,600.00	57,600	62,991.36	62,991



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
K12-59-4678.00	Fire Truck	1. ea	40.00	1.30	52.00	103.68	5,391	0.00	0	0.00	0	245,759.99	245,760	251,151.35	251,151
K12-59-4679.00	Passenger Van [E-350]	2. ea	8.00	1.30	20.80	103.68	2,157	0.00	0	0.00	0	38,784.00	77,568	39,862.27	79,725
K12-59-4680.00	Truck 1/2 tonne [F150 4x4]	10. ea	8.00	1.30	104.00	103.68	10,783	0.00	0	0.00	0	34,560.00	345,600	35,638.27	356,383
K12-59-4681.00	Snow plow/sanding truck	2. ea	40.00	1.30	104.00	103.68	10,783	0.00	0	0.00	0	115,200.00	230,400	120,591.36	241,183
K12-59-4682.00	HDPE fusion machine	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	57,600.00	57,600	57,600.00	57,600
K12-59-4683.00	HDPE fusion machine	1. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	24,000.00	24,000	24,000.00	24,000
K12-59-4684.00	Culvert Pressure Washer	2. ea	0.00	1.30	0.00	103.68	0	0.00	0	0.00	0	14,400.00	28,800	14,400.00	28,800
K12-59-4685.00	Road maintenance (winter and summer) by contractor (included in Area K11 - Mitchell Site - Plant Mobile Equipment)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
K12-59-4686.00	[Y5-48] - Replacement cost for Mobile vehicles (\$200,000 per year), (Sustaining Capital CAD\$8,600,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
K12 - Teigen Plantsite - Plant Mobile Equipment Fleet Subtotal					1,268.80		131,549		0		0		4,176,672		4,308,221
<u>M11 - Construction Camps</u>															
M11-13-4688.00	Camp 1 – Granduc Staging camp (80 person) Detail Excavation	1,485. m3	0.06	1.30	115.83	103.68	12,009	0.00	0	3.60	5,346	0.00	0	11.69	17,355
M11-13-4689.00	Camp 1 – Granduc Staging camp (80 person) Structural Backfill	1,040. m3	0.10	1.30	135.20	103.68	14,018	7.68	7,987	3.84	3,994	0.00	0	25.00	25,998
M11-20-4690.00	Camp 1 – Granduc Staging camp (80 person) Concrete work	495. m3	6.50	1.30	4,182.75	103.68	433,668	734.40	363,528	24.00	11,880	0.00	0	1,634.50	809,076
M11-40-4691.00	Camp 1 – Granduc Staging camp (80 person) Standard construction including dormitories, kitchen, washhouse & laundry facilities	1. lot	1,850.00	1.30	2,405.00	103.68	249,350	2,303,999.95	2,304,000	129,600.00	129,600	0.00	0	2,682,950.34	2,682,950
M11-94-4692.00	Camp 1 – Granduc Staging camp (80 person) Freight	1. lot	0.00	1.30	0.00	103.68	0	148,800.00	148,800	0.00	0	0.00	0	148,800.00	148,800
M11-40-4693.00	Camp 1 – Granduc Staging camp (80 person) Water and Well Development	1. lot	200.00	1.30	260.00	103.68	26,957	24,000.00	24,000	4,800.00	4,800	0.00	0	55,756.80	55,757



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
M11-40-4694.00	Camp 1 – Granduc Staging camp (80 person) Water Treatment Hypochlorination	1. lot	180.00	1.30	234.00	103.68	24,261	20,160.00	20,160	2,880.00	2,880	0.00	0	47,301.12	47,301
M11-40-4695.00	Camp 1 – Granduc Staging camp (80 person) Sewage Treatment	1. lot	220.00	1.30	286.00	103.68	29,652	192,000.00	192,000	4,800.00	4,800	0.00	0	226,452.47	226,452
M11-40-4696.00	Camp 1 – Granduc Staging camp (80 person) Helicopter Pad Allowance	1. lot	0.00	1.30	0.00	103.68	0	14,400.00	14,400	0.00	0	0.00	0	14,400.00	14,400
M11-13-4697.00	Camp 2 – Ted Morris Creek Construction camp (60 person) Detail Excavation	1,260. m3	0.06	1.30	98.28	103.68	10,190	0.00	0	3.60	4,536	0.00	0	11.69	14,726
M11-13-4698.00	Camp 2 – Ted Morris Creek Construction camp (60 person) Structural Backfill	880. m3	0.10	1.30	114.40	103.68	11,861	7.68	6,758	3.84	3,379	0.00	0	25.00	21,999
M11-20-4699.00	Camp 2 – Ted Morris Creek Construction camp (60 person) Concrete work	420. m3	6.50	1.30	3,549.00	103.68	367,960	734.40	308,448	24.00	10,080	0.00	0	1,634.50	686,488
M11-40-4700.00	Camp 2 – Ted Morris Creek Construction camp (60 person) Weatherhaven-type including dormitories, kitchen, washhouse & laundry facilities	1. lot	1,020.00	1.30	1,326.00	103.68	137,480	979,199.98	979,200	57,600.00	57,600	0.00	0	1,174,279.65	1,174,280
M11-94-4701.00	Camp 2 – Ted Morris Creek Construction camp (60 person) Freight	1. lot	0.00	1.30	0.00	103.68	0	57,600.00	57,600	0.00	0	0.00	0	57,600.00	57,600
M11-40-4702.00	Camp 2 – Ted Morris Creek Construction camp (60 person) Water and Well Development	1. lot	185.00	1.30	240.50	103.68	24,935	25,440.00	25,440	6,240.00	6,240	0.00	0	56,615.04	56,615
M11-40-4703.00	Camp 2 – Ted Morris Creek Construction camp (60 person) Water Treatment Hypochlorination	1. lot	165.00	1.30	214.50	103.68	22,239	25,440.00	25,440	6,240.00	6,240	0.00	0	53,919.36	53,919
M11-40-4704.00	Camp 2 – Ted Morris Creek Construction camp (60 person) Sewage Treatment	1. lot	225.00	1.30	292.50	103.68	30,326	187,200.00	187,200	4,800.00	4,800	0.00	0	222,326.40	222,326
M11-40-4705.00	Camp 2 – Ted Morris Creek Construction camp (60 person) Helicopter Pad Allowance	1. lot	0.00	1.30	0.00	103.68	0	14,400.00	14,400	0.00	0	0.00	0	14,400.00	14,400
M11-13-4706.00	Camp 3 - Eskay Staging camp (50 person) Detail Excavation	1,125. m3	0.06	1.30	87.75	103.68	9,098	0.00	0	3.60	4,050	0.00	0	11.69	13,148
M11-13-4707.00	Camp 3 - Eskay Staging camp (50 person) Structural Backfill	790. m3	0.10	1.30	102.70	103.68	10,648	7.68	6,067	3.84	3,034	0.00	0	25.00	19,749
M11-20-4708.00	Camp 3 - Eskay Staging camp (50 person) Concrete work	375. m3	6.50	1.30	3,168.75	103.68	328,536	734.40	275,400	24.00	9,000	0.00	0	1,634.50	612,936
M11-40-4709.00	Camp 3 - Eskay Staging camp (50 person) standard construction including dormitories, kitchen, washhouse & laundry facilities	1. lot	1,600.00	1.30	2,080.00	103.68	215,654	1,679,999.96	1,680,000	81,600.00	81,600	0.00	0	1,977,254.36	1,977,254



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
M11-94-4710.00	Camp 3 - Eskay Staging camp (50 person) Freight	1. lot	0.00	1.30	0.00	103.68	0	57,600.00	57,600	0.00	0	0.00	0	57,600.00	57,600
M11-40-4711.00	Camp 3 - Eskay Staging camp (50 person) Water and Well Development	1. lot	160.00	1.30	208.00	103.68	21,565	21,120.00	21,120	4,800.00	4,800	0.00	0	47,485.44	47,485
M11-40-4712.00	Camp 3 - Eskay Staging camp (50 person) Water Treatment Hypochlorination	1. lot	160.00	1.30	208.00	103.68	21,565	19,200.00	19,200	2,880.00	2,880	0.00	0	43,645.44	43,645
M11-40-4713.00	Camp 3 - Eskay Staging camp (50 person) Sewage Treatment	1. lot	200.00	1.30	260.00	103.68	26,957	168,000.00	168,000	3,840.00	3,840	0.00	0	198,796.80	198,797
M11-40-4714.00	Camp 3 - Eskay Staging camp (50 person) Helicopter Pad Allowance	1. lot	0.00	1.30	0.00	103.68	0	14,400.00	14,400	0.00	0	0.00	0	14,400.00	14,400
M11-13-4715.00	Camp 4 – Mitchell North Camp (125 person) Detail Excavation	2,475. m3	0.06	1.30	193.05	103.68	20,015	0.00	0	3.60	8,910	0.00	0	11.69	28,925
M11-13-4716.00	Camp 4 – Mitchell North Camp (125 person) Structural Backfill	1,735. m3	0.10	1.30	225.55	103.68	23,385	7.68	13,325	3.84	6,662	0.00	0	25.00	43,372
M11-20-4717.00	Camp 4 – Mitchell North Camp (125 person) Concrete work	825. m3	6.50	1.30	6,971.25	103.68	722,779	734.40	605,880	24.00	19,800	0.00	0	1,634.50	1,348,459
M11-40-4718.00	Camp 4 – Mitchell North Camp (125 person) Weatherhaven-type including dormitories, kitchen, washhouse & laundry facilities	1. lot	1,735.00	1.30	2,255.50	103.68	233,850	1,415,999.97	1,416,000	100,800.00	100,800	0.00	0	1,750,650.20	1,750,650
M11-94-4719.00	Camp 4 – Mitchell North Camp (125 person) Freight	1. lot	0.00	1.30	0.00	103.68	0	100,800.00	100,800	0.00	0	0.00	0	100,800.00	100,800
M11-40-4720.00	Camp 4 – Mitchell North Camp (125 person) Water and Well Development	1. lot	280.00	1.30	364.00	103.68	37,740	36,960.00	36,960	8,400.00	8,400	0.00	0	83,099.52	83,100
M11-40-4721.00	Camp 4 – Mitchell North Camp (125 person) Water Treatment Hypochlorination	1. lot	260.00	1.30	338.00	103.68	35,044	33,600.00	33,600	5,040.00	5,040	0.00	0	73,683.84	73,684
M11-40-4722.00	Camp 4 – Mitchell North Camp (125 person) Sewage Treatment	1. lot	350.00	1.30	455.00	103.68	47,174	293,999.99	294,000	6,720.00	6,720	0.00	0	347,894.39	347,894
M11-40-4723.00	Camp 4 – Mitchell North Camp (125 person) Helicopter Pad Allowance	1. lot	0.00	1.30	0.00	103.68	0	14,400.00	14,400	0.00	0	0.00	0	14,400.00	14,400
M11-13-4724.00	Camp 5 – Teigen Plant Camp (800 person) Detail Excavation	11,895. m3	0.06	1.30	927.81	103.68	96,195	0.00	0	3.60	42,822	0.00	0	11.69	139,017
M11-13-4725.00	Camp 5 – Teigen Plant Camp (800 person) Structural Backfill	8,325. m3	0.10	1.30	1,082.25	103.68	112,208	7.68	63,936	3.84	31,968	0.00	0	25.00	208,112



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
M11-20-4726.00	Camp 5 – Teigen Plant Camp (800 person) Concrete work	3,965. m3	6.50	1.30	33,504.25	103.68	3,473,721	734.40	2,911,896	24.00	95,160	0.00	0	1,634.50	6,480,776
M11-40-4727.00	Camp 5 – Teigen Plant Camp (800 person) standard construction including dormitories, kitchen, washhouse & laundry facilities	1. lot	26,500.00	1.30	34,450.00	103.68	3,571,776	17,582,399.61	17,582,400	719,999.98	720,000	0.00	0	21,874,175.51	21,874,176
M11-94-4728.00	Camp 5 – Teigen Plant Camp (800 person) Freight	1. lot	0.00	1.30	0.00	103.68	0	662,399.99	662,400	0.00	0	0.00	0	662,399.99	662,400
M11-40-4729.00	Camp 5 – Teigen Plant Camp (800 person) Water and Well Development	1. lot	345.00	1.30	448.50	103.68	46,500	81,600.00	81,600	8,160.00	8,160	0.00	0	136,260.48	136,260
M11-40-4730.00	Camp 5 – Teigen Plant Camp (800 person) Water Treatment Hypochlorination	1. lot	310.00	1.30	403.00	103.68	41,783	41,520.00	41,520	4,992.00	4,992	0.00	0	88,295.04	88,295
M11-40-4731.00	Camp 5 – Teigen Plant Camp (800 person) Sewage Treatment	1. lot	435.00	1.30	565.50	103.68	58,631	455,999.99	456,000	8,160.00	8,160	0.00	0	522,791.03	522,791
M11-40-4732.00	Camp 5 – Teigen Plant Camp (800 person) Helicopter Pad Allowance	1. lot	0.00	1.30	0.00	103.68	0	14,400.00	14,400	0.00	0	0.00	0	14,400.00	14,400
M11-13-4733.00	Camp 6 – Teigen Saddle Camp (120 person) Detail Excavation	2,475. m3	0.06	1.30	193.05	103.68	20,015	0.00	0	3.60	8,910	0.00	0	11.69	28,925
M11-13-4734.00	Camp 6 – Teigen Saddle Camp (120 person) Structural Backfill	1,735. m3	0.10	1.30	225.55	103.68	23,385	7.68	13,325	3.84	6,662	0.00	0	25.00	43,372
M11-20-4735.00	Camp 6 – Teigen Saddle Camp (120 person) Concrete work	825. m3	6.50	1.30	6,971.25	103.68	722,779	734.40	605,880	24.00	19,800	0.00	0	1,634.50	1,348,459
M11-40-4736.00	Camp 6 – Teigen Saddle Camp (120 person) Weatherhaven-type including dormitories, kitchen, recreation and commercial laundry facilities	1. lot	1,700.00	1.30	2,210.00	103.68	229,133	1,958,399.96	1,958,400	97,920.00	97,920	0.00	0	2,285,452.75	2,285,453
M11-94-4737.00	Camp 6 – Teigen Saddle Camp (120 person) Freight	1. lot	0.00	1.30	0.00	103.68	0	100,800.00	100,800	0.00	0	0.00	0	100,800.00	100,800
M11-40-4738.00	Camp 6 – Teigen Saddle Camp (120 person) Water and Well Development	1. lot	340.00	1.30	442.00	103.68	45,827	42,432.00	42,432	9,792.00	9,792	0.00	0	98,050.56	98,051
M11-40-4739.00	Camp 6 – Teigen Saddle Camp (120 person) Water Treatment Hypochlorination	1. lot	320.00	1.30	416.00	103.68	43,131	32,640.00	32,640	4,800.00	4,800	0.00	0	80,570.88	80,571
M11-40-4740.00	Camp 6 – Teigen Saddle Camp (120 person) Sewage Treatment	1. lot	360.00	1.30	468.00	103.68	48,522	285,599.99	285,600	6,528.00	6,528	0.00	0	340,650.23	340,650
M11-40-4741.00	Camp 6 – Teigen Saddle Camp (120 person) Helicopter Pad Allowance	1. lot	0.00	1.30	0.00	103.68	0	14,400.00	14,400	0.00	0	0.00	0	14,400.00	14,400



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
M11-13-4742.00	Camp 7 - Unuk North Camp (40 person) Detail Excavation	810. m3	0.06	1.30	63.18	103.68	6,551	0.00	0	3.60	2,916	0.00	0	11.69	9,467
M11-13-4743.00	Camp 7 - Unuk North Camp (40 person) Structural Backfill	565. m3	0.10	1.30	73.45	103.68	7,615	7.68	4,339	3.84	2,170	0.00	0	25.00	14,124
M11-20-4744.00	Camp 7 - Unuk North Camp (40 person) Concrete work	270. m3	6.50	1.30	2,281.50	103.68	236,546	734.40	198,288	24.00	6,480	0.00	0	1,634.50	441,314
M11-40-4745.00	Camp 7 - Unuk North Camp (40 person) Weatherhaven-type including dormitories, kitchen, washhouse & laundry facilities	1. lot	800.00	1.30	1,040.00	103.68	107,827	652,799.99	652,800	46,080.00	46,080	0.00	0	806,707.18	806,707
M11-94-4746.00	Camp 7 - Unuk North Camp (40 person) Freight	1. lot	0.00	1.30	0.00	103.68	0	46,080.00	46,080	0.00	0	0.00	0	46,080.00	46,080
M11-40-4747.00	Camp 7 - Unuk North Camp (40 person) Water and Well Development	1. lot	140.00	1.30	182.00	103.68	18,870	18,480.00	18,480	4,200.00	4,200	0.00	0	41,549.76	41,550
M11-40-4748.00	Camp 7 - Unuk North Camp (40 person) Water Treatment Hypochlorination	1. lot	120.00	1.30	156.00	103.68	16,174	16,800.00	16,800	2,520.00	2,520	0.00	0	35,494.08	35,494
M11-40-4749.00	Camp 7 - Unuk North Camp (40 person) Sewage Treatment	1. lot	175.00	1.30	227.50	103.68	23,587	147,000.00	147,000	3,360.00	3,360	0.00	0	173,947.20	173,947
M11-40-4750.00	Camp 7 - Unuk North Camp (40 person) Helicopter Pad Allowance	1. lot	0.00	1.30	0.00	103.68	0	14,400.00	14,400	0.00	0	0.00	0	14,400.00	14,400
M11-13-4751.00	Camp 8 - Unuk South Camp (40 person) Detail Excavation	810. m3	0.06	1.30	63.18	103.68	6,551	0.00	0	3.60	2,916	0.00	0	11.69	9,467
M11-13-4752.00	Camp 8 - Unuk South Camp (40 person) Structural Backfill	565. m3	0.10	1.30	73.45	103.68	7,615	7.68	4,339	3.84	2,170	0.00	0	25.00	14,124
M11-20-4753.00	Camp 8 - Unuk South Camp (40 person) Concrete work	270. m3	6.50	1.30	2,281.50	103.68	236,546	734.40	198,288	24.00	6,480	0.00	0	1,634.50	441,314
M11-40-4754.00	Camp 8 - Unuk South Camp (40 person) Weatherhaven-type including dormitories, kitchen, washhouse & laundry facilities	1. lot	800.00	1.30	1,040.00	103.68	107,827	652,799.99	652,800	46,080.00	46,080	0.00	0	806,707.18	806,707
M11-94-4755.00	Camp 8 - Unuk South Camp (40 person) Freight	1. lot	0.00	1.30	0.00	103.68	0	46,080.00	46,080	0.00	0	0.00	0	46,080.00	46,080
M11-40-4756.00	Camp 8 - Unuk South Camp (40 person) Water and Well Development	1. lot	140.00	1.30	182.00	103.68	18,870	18,480.00	18,480	4,200.00	4,200	0.00	0	41,549.76	41,550
M11-40-4757.00	Camp 8 - Unuk South Camp (40 person) Water Treatment Hypochlorination	1. lot	120.00	1.30	156.00	103.68	16,174	16,800.00	16,800	2,520.00	2,520	0.00	0	35,494.08	35,494



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
M11-40-4758.00	Camp 8 - Unuk South Camp (40 person) Sewage Treatment	1. lot	175.00	1.30	227.50	103.68	23,587	147,000.00	147,000	3,360.00	3,360	0.00	0	173,947.20	173,947
M11-40-4759.00	Camp 8 - Unuk South Camp (40 person) Helicopter Pad Allowance	1. lot	0.00	1.30	0.00	103.68	0	14,400.00	14,400	0.00	0	0.00	0	14,400.00	14,400
M11-13-4760.00	Camp 9 – Mitchell Initial Camp (140 person) Detail Excavation	2,715. m3	0.06	1.30	211.77	103.68	21,956	0.00	0	3.60	9,774	0.00	0	11.69	31,730
M11-13-4761.00	Camp 9 – Mitchell Initial Camp (140 person) Structural Backfill	1,900. m3	0.10	1.30	247.00	103.68	25,609	7.68	14,592	3.84	7,296	0.00	0	25.00	47,497
M11-20-4762.00	Camp 9 – Mitchell Initial Camp (140 person) Concrete work	905. m3	6.50	1.30	7,647.25	103.68	792,867	734.40	664,632	24.00	21,720	0.00	0	1,634.50	1,479,219
M11-40-4763.00	Camp 9 – Mitchell Initial Camp (140 person) Weatherhaven-type including dormitories, kitchen, recreation and commercial laundry facilities	1. lot	1,865.00	1.30	2,424.50	103.68	251,372	2,145,599.95	2,145,600	106,560.00	106,560	0.00	0	2,503,532.10	2,503,532
M11-94-4764.00	Camp 9 – Mitchell Initial Camp (140 person) Freight	1. lot	0.00	1.30	0.00	103.68	0	100,800.00	100,800	0.00	0	0.00	0	100,800.00	100,800
M11-40-4765.00	Camp 9 – Mitchell Initial Camp (140 person) Water and Well Development	1. lot	370.00	1.30	481.00	103.68	49,870	46,080.00	46,080	10,560.00	10,560	0.00	0	106,510.08	106,510
M11-40-4766.00	Camp 9 – Mitchell Initial Camp (140 person) Water Treatment Hypochlorination	1. lot	350.00	1.30	455.00	103.68	47,174	36,000.00	36,000	5,280.00	5,280	0.00	0	88,454.40	88,454
M11-40-4767.00	Camp 9 – Mitchell Initial Camp (140 person) Sewage Treatment	1. lot	395.00	1.30	513.50	103.68	53,240	302,399.99	302,400	7,200.00	7,200	0.00	0	362,839.67	362,840
M11-40-4768.00	Camp 9 – Mitchell Initial Camp (140 person) Helicopter Pad Allowance	1. lot	0.00	1.30	0.00	103.68	0	14,400.00	14,400	0.00	0	0.00	0	14,400.00	14,400
M11-13-4769.00	Camp 10 – Mitchell Secondary Camp (400 person) Detail Excavation	8,070. m3	0.06	1.30	629.46	103.68	65,262	0.00	0	3.60	29,052	0.00	0	11.69	94,314
M11-13-4770.00	Camp 10 – Mitchell Secondary Camp (400 person) Structural Backfill	5,650. m3	0.10	1.30	734.50	103.68	76,153	7.68	43,392	3.84	21,696	0.00	0	25.00	141,241
M11-20-4771.00	Camp 10 – Mitchell Secondary Camp (400 person) Concrete work	2,690. m3	6.50	1.30	22,730.50	103.68	2,356,698	734.40	1,975,536	24.00	64,560	0.00	0	1,634.50	4,396,794
M11-40-4772.00	Camp 10 – Mitchell Secondary Camp (400 person) standard construction including dormitories, kitchen, recreation and commercial laundry facilities	1. lot	19,900.00	1.30	25,870.00	103.68	2,682,202	10,137,599.77	10,137,600	542,399.99	542,400	0.00	0	13,362,201.30	13,362,201
M11-94-4773.00	Camp 10 – Mitchell Secondary Camp (400 person) Freight	1. lot	0.00	1.30	0.00	103.68	0	355,199.99	355,200	0.00	0	0.00	0	355,199.99	355,200



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
M11-40-4774.00	Camp 10 – Mitchell Secondary Camp (400 person) Water and Well Development	1. lot	225.00	1.30	292.50	103.68	30,326	54,240.00	54,240	5,376.00	5,376	0.00	0	89,942.40	89,942
M11-40-4775.00	Camp 10 – Mitchell Secondary Camp (400 person) Water Treatment Hypochlorination	1. lot	205.00	1.30	266.50	103.68	27,631	27,360.00	27,360	3,360.00	3,360	0.00	0	58,350.72	58,351
M11-40-4776.00	Camp 10 – Mitchell Secondary Camp (400 person) Sewage Treatment	1. lot	285.00	1.30	370.50	103.68	38,413	300,191.99	300,192	5,424.00	5,424	0.00	0	344,029.43	344,029
M11-40-4777.00	Camp 10 – Mitchell Secondary Camp (400 person) Helicopter Pad Allowance (included with Camp 9a)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M11-13-4778.00	Camp 11 - Treaty Creek Camp (60 person) Detail Excavation	1,035. m3	0.06	1.30	80.73	103.68	8,370	0.00	0	3.60	3,726	0.00	0	11.69	12,096
M11-13-4779.00	Camp 11 - Treaty Creek Camp (60 person) Structural Backfill	720. m3	0.10	1.30	93.60	103.68	9,704	7.68	5,530	3.84	2,765	0.00	0	25.00	17,999
M11-20-4780.00	Camp 11 - Treaty Creek Camp (60 person) Concrete work	345. m3	6.50	1.30	2,915.25	103.68	302,253	734.40	253,368	24.00	8,280	0.00	0	1,634.50	563,901
M11-40-4781.00	Camp 11 - Treaty Creek Camp (60 person) Weatherhaven-type including dormitories, kitchen, washhouse & laundry facilities	1. lot	1,020.00	1.30	1,326.00	103.68	137,480	979,199.98	979,200	57,600.00	57,600	0.00	0	1,174,279.65	1,174,280
M11-94-4782.00	Camp 11 - Treaty Creek Camp (60 person) Freight	1. lot	0.00	1.30	0.00	103.68	0	57,600.00	57,600	0.00	0	0.00	0	57,600.00	57,600
M11-40-4783.00	Camp 11 - Treaty Creek Camp (60 person) Water and Well Development	1. lot	185.00	1.30	240.50	103.68	24,935	25,440.00	25,440	6,240.00	6,240	0.00	0	56,615.04	56,615
M11-40-4784.00	Camp 11 - Treaty Creek Camp (60 person) Water Treatment Hypochlorination	1. lot	165.00	1.30	214.50	103.68	22,239	25,440.00	25,440	6,240.00	6,240	0.00	0	53,919.36	53,919
M11-40-4785.00	Camp 11 - Treaty Creek Camp (60 person) Sewage Treatment	1. lot	225.00	1.30	292.50	103.68	30,326	187,200.00	187,200	4,800.00	4,800	0.00	0	222,326.40	222,326
M11-40-4786.00	Camp 11 - Treaty Creek Camp (60 person) Helicopter Pad Allowance	1. lot	0.00	1.30	0.00	103.68	0	14,400.00	14,400	0.00	0	0.00	0	14,400.00	14,400
M11-40-4787.00	Camp 12 - Temporary Access Road Construction Camp (50 men), (included in Area M20)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M11-70-4788.00	Gensets for Construction Camps (Based on 2 x 100kW Gentsets per remote camp)	18. ea	20.00	1.30	468.00	103.68	48,522	28,800.00	518,400	48.00	864	0.00	0	31,543.68	567,786
M11 - Construction Camps Subtotal					189,230.99		19,619,469		54,784,717		2,653,609		0		77,057,795

M12 - Catering and Housekeeping



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
M12-40-4790.00	Catering and Housekeeping (based on 1,640,000 mandays @ \$65/day)	1. lot	0.00	1.30	0.00	103.68	0	102,335,997.71	102,335,998	0.00	0	0.00	0	102,335,997.71	102,335,998
M12-40-4791.00	Catering and Housekeeping (based on 175,000 mandays @ \$65/day) [Mining]	1. lot	0.00	1.30	0.00	103.68	0	10,919,999.76	10,920,000	0.00	0	0.00	0	10,919,999.76	10,920,000
M12 - Catering and Housekeeping Subtotal					0.00		0		113,255,997		0		0		113,255,997
<u>M13 - Temporary Laydown Areas</u>															
M13-13-4793.00	Laydown Areas - Electrical/Transformer Detail Excavation	24. m3	0.06	1.30	1.87	103.68	194	0.00	0	3.60	86	0.00	0	11.69	280
M13-13-4794.00	Laydown Areas - Electrical/Transformer Structural Backfill (assumed dental rock excavation backfilled with concrete)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M13-20-4795.00	Laydown Areas - Electrical/Transformer Concrete work	40. m3	6.50	1.30	338.00	103.68	35,044	734.40	29,376	24.00	960	0.00	0	1,634.50	65,380
M13-40-4796.00	Temporary Laydown Areas (included in bulk excavation) - see tunnels for laydown areas	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M13 - Temporary Laydown Areas Subtotal					339.87		35,238		29,376		1,046		0		65,660
<u>M14 - Construction Administration Office</u>															
M14-13-4798.00	Detail Excavation	270. m3	0.06	1.30	21.06	103.68	2,184	0.00	0	3.60	972	0.00	0	11.69	3,156
M14-13-4799.00	Structural Backfill	250. m3	0.10	1.30	32.50	103.68	3,370	7.68	1,920	3.84	960	0.00	0	25.00	6,250
M14-20-4800.00	Concrete work	20. m3	6.50	1.30	169.00	103.68	17,522	734.40	14,688	24.00	480	0.00	0	1,634.50	32,690
M14-40-4801.00	Modular Building	140. m2	1.00	1.30	182.00	103.68	18,870	960.00	134,400	40.00	5,600	0.00	0	1,134.78	158,870
M14-40-4802.00	Furniture and Computer equipment Allowance	1. lot	95.00	1.30	123.50	103.68	12,804	19,680.00	19,680	2,880.00	2,880	0.00	0	35,364.48	35,364
M14-58-4803.00	Building Services Allowance	1. lot	140.00	1.30	182.00	103.68	18,870	576.00	576	6,000.00	6,000	97,920.00	97,920	123,365.76	123,366
M14 - Construction Administration Office Subtotal					710.06		73,619		171,264		16,892		97,920		359,695
<u>M20 - Camp 12 - Marshalling Yard Construction Camp</u>															
M20-13-4805.00	Detail Excavation	1,875. m3	0.06	1.30	146.25	103.68	15,163	0.00	0	3.60	6,750	0.00	0	11.69	21,913



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
M20-13-4806.00	Structural Backfill	1,575. m3	0.10	1.30	204.75	103.68	21,228	7.68	12,096	3.84	6,048	0.00	0	25.00	39,372
M20-20-4807.00	Concrete work	375. m3	6.50	1.30	3,168.75	103.68	328,536	734.40	275,400	24.00	9,000	0.00	0	1,634.50	612,936
M20-40-4808.00	standard construction including dormitories, kitchen, washhouse & laundry facilities	1. lot	1,600.00	1.30	2,080.00	103.68	215,654	1,679,999.96	1,680,000	81,600.00	81,600	0.00	0	1,977,254.36	1,977,254
M20-94-4809.00	Freight	1. lot	0.00	1.30	0.00	103.68	0	57,600.00	57,600	0.00	0	0.00	0	57,600.00	57,600
M20-40-4810.00	Water and Well Development	1. lot	160.00	1.30	208.00	103.68	21,565	21,120.00	21,120	4,800.00	4,800	0.00	0	47,485.44	47,485
M20-40-4811.00	Water Treatment Hypochlorination	1. lot	160.00	1.30	208.00	103.68	21,565	19,200.00	19,200	2,880.00	2,880	0.00	0	43,645.44	43,645
M20-40-4812.00	Sewage Treatment	1. lot	200.00	1.30	260.00	103.68	26,957	168,000.00	168,000	3,840.00	3,840	0.00	0	198,796.80	198,797
M20 - Camp 12 - Marshalling Yard Construction Camp Subtotal					6,275.75		650,670		2,233,416		114,918		0		2,999,004
<u>M21 - Vehicle Storage Maintenance Shop</u>															
M21-13-4814.00	Detail Excavation	1,320. m3	0.06	1.30	102.96	103.68	10,675	0.00	0	3.60	4,752	0.00	0	11.69	15,427
M21-13-4815.00	Structural Backfill	1,095. m3	0.10	1.30	142.35	103.68	14,759	7.68	8,410	3.84	4,205	0.00	0	25.00	27,373
M21-20-4816.00	Concrete work	280. m3	6.50	1.30	2,366.00	103.68	245,307	734.40	205,632	24.00	6,720	0.00	0	1,634.50	457,659
M21-40-4817.00	Pre-engineered Building including Roof cladding, Wall cladding, manddoors and misc architectural finishes	560. m2	1.20	1.30	873.60	103.68	90,575	2,160.00	1,209,600	24.00	13,440	0.00	0	2,345.74	1,313,615
M21-40-4818.00	Furniture and equipment Allowance	1. lot	220.00	1.30	286.00	103.68	29,652	46,200.00	46,200	6,720.00	6,720	0.00	0	82,572.48	82,572
M21-58-4819.00	Building Services Allowance	1. lot	330.00	1.30	429.00	103.68	44,479	1,344.00	1,344	13,920.00	13,920	228,479.99	228,480	288,222.71	288,223
M21 - Vehicle Storage Maintenance Shop Subtotal					4,199.91		435,447		1,471,186		49,757		228,480		2,184,869
<u>M22 - Fuel Station</u>															
M22-13-4821.00	Detail Excavation	1,025. m3	0.06	1.30	79.95	103.68	8,289	0.00	0	3.60	3,690	0.00	0	11.69	11,979



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
M22-13-4822.00	Structural Backfill	790. m3	0.10	1.30	102.70	103.68	10,648	7.68	6,067	3.84	3,034	0.00	0	25.00	19,749
M22-20-4823.00	Concrete work	300. m3	6.50	1.30	2,535.00	103.68	262,829	734.40	220,320	24.00	7,200	0.00	0	1,634.50	490,349
M22-40-4824.00	Fuel Station	1. lot	780.00	1.30	1,014.00	103.68	105,132	64,800.00	64,800	26,400.00	26,400	105,600.00	105,600	301,931.51	301,932
M22 - Fuel Station Subtotal					3,731.65		386,897		291,187		40,324		105,600		824,008
<u>M23 - Wash Car/Emergency Shower</u>															
M23-13-4826.00	Detail Excavation	455. m3	0.06	1.30	35.49	103.68	3,680	0.00	0	3.60	1,638	0.00	0	11.69	5,318
M23-13-4827.00	Structural Backfill	400. m3	0.10	1.30	52.00	103.68	5,391	7.68	3,072	3.84	1,536	0.00	0	25.00	9,999
M23-20-4828.00	Concrete work	70. m3	6.50	1.30	591.50	103.68	61,327	734.40	51,408	24.00	1,680	0.00	0	1,634.50	114,415
M23-40-4829.00	Modular Building	240. m2	1.00	1.30	312.00	103.68	32,348	960.00	230,400	40.00	9,600	0.00	0	1,134.78	272,348
M23-40-4830.00	Furniture and equipment Allowance	1. lot	40.00	1.30	52.00	103.68	5,391	8,160.00	8,160	1,440.00	1,440	0.00	0	14,991.36	14,991
M23-58-4831.00	Building Services Allowance	1. lot	150.00	1.30	195.00	103.68	20,218	960.00	960	6,240.00	6,240	96,000.00	96,000	123,417.60	123,418
M23 - Wash Car/Emergency Shower Subtotal					1,237.99		128,355		294,000		22,134		96,000		540,489
<u>M25 - Foldaway Warehouses</u>															
M25-13-4837.00	Detail Excavation	2,575. m3	0.06	1.30	200.85	103.68	20,824	0.00	0	3.60	9,270	0.00	0	11.69	30,094
M25-13-4838.00	Structural Backfill	2,160. m3	0.10	1.30	280.80	103.68	29,113	7.68	16,589	3.84	8,294	0.00	0	25.00	53,997
M25-20-4839.00	Concrete work	515. m3	6.50	1.30	4,351.75	103.68	451,189	734.40	378,216	24.00	12,360	0.00	0	1,634.50	841,765
M25-40-4840.00	Pre-engineered Building including Roof cladding, Wall cladding, manddoors and misc architectural finishes	1,145. m2	1.20	1.30	1,786.20	103.68	185,193	2,160.00	2,473,200	24.00	27,480	0.00	0	2,345.74	2,685,873
M25-40-4841.00	Furniture and equipment Allowance	1. lot	315.00	1.30	409.50	103.68	42,457	62,880.00	62,880	9,600.00	9,600	0.00	0	114,936.96	114,937



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
M25-58-4842.00	Building Services Allowance	1. lot	300.00	1.30	390.00	103.68	40,435	1,440.00	1,440	14,400.00	14,400	144,000.00	144,000	200,275.20	200,275
M25 - Foldaway Warehouses Subtotal					7,419.10		769,212		2,932,325		81,404		144,000		3,926,941
<u>M26 - Project Office Security</u>															
M26-13-4844.00	Detail Excavation	270. m3	0.06	1.30	21.06	103.68	2,184	0.00	0	3.60	972	0.00	0	11.69	3,156
M26-13-4845.00	Structural Backfill	235. m3	0.10	1.30	30.55	103.68	3,167	7.68	1,805	3.84	902	0.00	0	25.00	5,875
M26-20-4846.00	Concrete work	42. m3	6.50	1.30	354.90	103.68	36,796	734.40	30,845	24.00	1,008	0.00	0	1,634.50	68,649
M26-40-4847.00	Modular Building	140. m2	1.00	1.30	182.00	103.68	18,870	960.00	134,400	40.00	5,600	0.00	0	1,134.78	158,870
M26-40-4848.00	Furniture and equipment Allowance	1. lot	50.00	1.30	65.00	103.68	6,739	9,600.00	9,600	960.00	960	0.00	0	17,299.20	17,299
M26-58-4849.00	Building Services Allowance	1. lot	70.00	1.30	91.00	103.68	9,435	480.00	480	3,360.00	3,360	48,000.00	48,000	61,274.88	61,275
M26 - Project Office Security Subtotal					744.51		77,191		177,130		12,802		48,000		315,123
<u>N11 - Capital Cost Contribution to BC Hydro (Treaty Creek Switching Station)</u>															
N11-1.13-4851.00	Estimated Cost Contribution to BC Hydro to build the Tearty Creek Switching Station on the NTL	1. LS	0.00	1.30	0.00	103.68	0	10,175,999.77	10,176,000	0.00	0	0.00	0	10,175,999.77	10,176,000
N11 - Capital Cost Contribution to BC Hydro (Treaty Creek Switching Station) Subtotal					0.00		0		10,176,000		0		0		10,176,000
<u>N12 - Substation 1 - Flotation Plant</u>															
N12-1.13-4853.00	Rough Grading (includes allowance for rock)	1,750. m3	0.00	1.00	0.00	103.68	0	14.40	25,200	0.00	0	0.00	0	14.40	25,200
N12-1.13-4854.00	Excavation, foundation and escape tunnel	2,600. m3	0.00	1.00	0.00	103.68	0	8.64	22,464	0.00	0	0.00	0	8.64	22,464
N12-1.13-4855.00	Excavation,retaining walls	2,100. m3	0.00	1.00	0.00	103.68	0	8.64	18,144	0.00	0	0.00	0	8.64	18,144
N12-1.13-4856.00	Backfill	400. m3	0.00	1.00	0.00	103.68	0	20.16	8,064	0.00	0	0.00	0	20.16	8,064
N12-1.13-4857.00	Fine grading	10,000. m2	0.00	1.00	0.00	103.68	0	6.24	62,400	0.00	0	0.00	0	6.24	62,400



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
N12-1.13-4858.00	GIS reinforced concrete bulding (includes formwork & rebar). Refer to drawings. Building is 30 m X 20.4 m in area	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N12-1.13-4859.00	Concrete, roof slab	240. m3	0.00	1.00	0.00	103.68	0	1,536.00	368,640	0.00	0	0.00	0	1,536.00	368,640
N12-1.13-4860.00	Concrete, beams	80. m3	0.00	1.00	0.00	103.68	0	1,536.00	122,880	0.00	0	0.00	0	1,536.00	122,880
N12-1.13-4861.00	Concrete, walls	930. m3	0.00	1.00	0.00	103.68	0	1,536.00	1,428,480	0.00	0	0.00	0	1,536.00	1,428,480
N12-1.13-4862.00	Concrete,columns	260. m3	0.00	1.00	0.00	103.68	0	1,536.00	399,360	0.00	0	0.00	0	1,536.00	399,360
N12-1.13-4863.00	Concrete, elevated slab	160. m3	0.00	1.00	0.00	103.68	0	1,536.00	245,760	0.00	0	0.00	0	1,536.00	245,760
N12-1.13-4864.00	Concrete, slab on grade	150. m3	0.00	1.00	0.00	103.68	0	1,536.00	230,400	0.00	0	0.00	0	1,536.00	230,400
N12-1.13-4865.00	Concrete, equipment foundation	140. m3	0.00	1.00	0.00	103.68	0	1,536.00	215,040	0.00	0	0.00	0	1,536.00	215,040
N12-1.13-4866.00	Concrete, sumps	30. m3	0.00	1.00	0.00	103.68	0	1,536.00	46,080	0.00	0	0.00	0	1,536.00	46,080
N12-1.13-4867.00	Concrete, building foundation, footings	240. m3	0.00	1.00	0.00	103.68	0	1,536.00	368,640	0.00	0	0.00	0	1,536.00	368,640
N12-1.13-4868.00	Concrete, grade walls	170. m3	0.00	1.00	0.00	103.68	0	1,536.00	261,120	0.00	0	0.00	0	1,536.00	261,120
N12-1.13-4869.00	Louvres, allowance	1. lot	0.00	1.00	0.00	103.68	0	33,316.80	33,317	0.00	0	0.00	0	33,316.80	33,317
N12-1.13-4870.00	Structural steelincluding crane beam, 2nd floor wall panel, rails and embedded metal	18. t	0.00	1.00	0.00	103.68	0	6,707.52	120,735	0.00	0	0.00	0	6,707.52	120,735
N12-1.13-4871.00	Building Services, lighting. H&V	1,020. m2	1.00	1.00	1,020.00	103.68	105,754	48.00	48,960	24.00	24,480	0.00	0	175.68	179,194
N12-1.13-4872.00	Mandoors, single, fire rated	13. ea	0.00	1.00	0.00	103.68	0	3,134.40	40,747	0.00	0	0.00	0	3,134.40	40,747
N12-1.13-4873.00	Equipment Door (double mandoor, 3 m high	1. ea	0.00	1.00	0.00	103.68	0	7,200.00	7,200	0.00	0	0.00	0	7,200.00	7,200



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
N12-1.13-4874.00	Bridge Crane in GIS room, 5 tonne c/w bus bars, electrical safety disconnect switch and pendant control	1. ea	190.00	1.00	190.00	103.68	19,699	0.00	0	0.00	0	44,160.00	44,160	63,859.20	63,859
N12-1.13-4875.00	Siemens GIS equipment	1. lot	2,100.00	1.00	2,100.00	103.68	217,728	147,600.00	147,600	0.00	0	5,399,999.88	5,400,000	5,765,327.87	5,765,328
N12-1.13-4876.00	Addition for contact viewing camera, etc.	1. lot	0.00	1.00	0.00	103.68	0	0.00	0	0.00	0	57,600.00	57,600	57,600.00	57,600
N12-1.13-4877.00	Addition to Siemens equipment for longer bus bars	1. lot	0.00	1.00	0.00	103.68	0	0.00	0	0.00	0	383,999.99	384,000	383,999.99	384,000
N12-1.13-4878.00	Transformers T1 & T2, 287-25 kV, 1050 kV BIL, oil filled, ONAN/ONAF, 90/120 MVA, conservator type, c/w automatic tap changers,	3. ea	450.00	1.00	1,350.00	103.68	139,968	98,160.00	294,480	0.00	0	1,949,999.96	5,850,000	2,094,815.95	6,284,448
N12-1.13-4879.00	Allowance for 287 kV cable bushings	3. lot	150.00	1.00	450.00	103.68	46,656	3,360.00	10,080	0.00	0	52,800.00	158,400	71,712.00	215,136
N12-1.13-4880.00	Reactors, 004 & 005, 11 H, 287 kV	2. ea	300.00	1.00	600.00	103.68	62,208	48,480.00	96,960	0.00	0	1,391,999.97	2,784,000	1,471,583.97	2,943,168
N12-1.13-4881.00	Allowance for 287 kV reactor cable bushings	2. lot	150.00	1.00	300.00	103.68	31,104	3,360.00	6,720	0.00	0	52,800.00	105,600	71,712.00	143,424
N12-1.13-4882.00	287 kV cable to connect transformers and reactors - part of tunnel cable order	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N12-1.13-4883.00	287 kV Single Core Terminations	18. ea	100.00	1.00	1,800.00	103.68	186,624	25,440.00	457,920	0.00	0	0.00	0	35,808.00	644,544
N12-1.13-4884.00	Protective Relay Panel	1. ea	750.00	1.00	750.00	103.68	77,760	16,800.00	16,800	0.00	0	168,000.00	168,000	262,559.99	262,560
N12-1.13-4885.00	Misc steel supports	1,000. kg	0.50	1.00	500.00	103.68	51,840	4.80	4,800	0.00	0	0.00	0	56.64	56,640
N12-1.13-4886.00	Communications Equipment	1. lot	500.00	1.00	500.00	103.68	51,840	0.00	0	0.00	0	216,000.00	216,000	267,839.99	267,840
N12-1.13-4887.00	Zig zag grounding transformer and resistor with CTs & relay	3. ea	175.00	1.00	525.00	103.68	54,432	2,880.00	8,640	0.00	0	52,800.00	158,400	73,824.00	221,472
N12-1.13-4888.00	Static Var Compensator	1. lot	600.00	1.00	600.00	103.68	62,208	120,705.00	120,705	0.00	0	2,692,649.94	2,692,650	2,875,562.94	2,875,563
N12-1.13-4889.00	Station ground grid	1. lot	900.00	1.00	900.00	103.68	93,312	239,999.99	240,000	0.00	0	0.00	0	333,311.99	333,312



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
N12-1.13-4890.00	Station 25 kV service transformer (500 kVA)	1. lot	175.00	1.00	175.00	103.68	18,144	14,400.00	14,400	0.00	0	45,000.00	45,000	77,544.00	77,544
N12-1.13-4891.00	600 Volt MCC with Transfer Switch	1. ea	250.00	1.00	250.00	103.68	25,920	5,000.00	5,000	0.00	0	35,000.00	35,000	65,920.00	65,920
N12-1.13-4892.00	Allowance for fire detection and inert gas suppression in 25 KV switchgear room	1. lot	650.00	1.00	650.00	103.68	67,392	7,200.00	7,200	0.00	0	72,000.00	72,000	146,592.00	146,592
N12-1.13-4893.00	Battery bank, chargers, and panels	1. lot	150.00	1.00	150.00	103.68	15,552	0.00	0	0.00	0	72,960.00	72,960	88,512.00	88,512
N12-1.13-4894.00	25 kV Metalclad Switchgear	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N12-1.13-4895.00	Main & tie breakers, 4000 A	3. ea	50.00	1.00	150.00	103.68	15,552	4,368.00	13,104	0.00	0	94,080.00	282,240	103,632.00	310,896
N12-1.13-4896.00	Feeder breakers, 1200 A	22. ea	25.00	1.00	550.00	103.68	57,024	2,928.00	64,416	0.00	0	63,360.00	1,393,920	68,880.00	1,515,360
N12-1.13-4897.00	25 kV 3 Phase Bus Bar	75. m	12.00	1.00	900.00	103.68	93,312	1,440.00	108,000	0.00	0	0.00	0	2,684.16	201,312
N12-1.13-4898.00	Power & Control Cable, Tray & Conduit (Excludes all 25 kV cables except to station service and grounding transformers)	1. lot	22,000.00	1.00	22,000.00	103.68	2,280,960	144,000.00	144,000	0.00	0	0.00	0	2,424,959.95	2,424,960
N12-1.13-4899.00	Construction Power from Plansite	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N12-1.13-4900.00	General Equip Rental	8. mth	0.00	1.00	0.00	103.68	0	9,600.00	76,800	0.00	0	0.00	0	9,600.00	76,800
N12-1.13-4901.00	Design and Engineering (Note, design and engineering of GIS equipment by vendor)	1. lot	0.00	1.00	0.00	103.68	0	1,119,999.97	1,120,000	0.00	0	0.00	0	1,119,999.97	1,120,000
N12-1.13-4902.00	Construction Office, (Abolition and safety part of plantsite facilities).	8. mth	0.00	1.00	0.00	103.68	0	5,000.00	40,000	0.00	0	0.00	0	5,000.00	40,000
N12-1.13-4903.00	Construction Management including, pickups, office equipment, etc. excludes safety & first aid, supplied from plantsite)	8. mth	400.00	1.00	3,200.00	134.40	430,080	7,500.00	60,000	9,120.00	72,960	0.00	0	70,380.00	563,040
N12-1.13-4904.00	Vendor reps	1. lot	0.00	1.00	0.00	124.80	0	4,320.00	4,320	148,320.00	148,320	0.00	0	152,640.00	152,640
N12-1.13-4905.00	QA/QC, Testing	8. mth	200.00	1.00	1,600.00	115.20	184,320	4,320.00	34,560	4,320.00	34,560	0.00	0	31,680.00	253,440



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
N12-1.13-4906.00	Commissioning	2. mth	600.00	1.00	1,200.00	134.40	161,280	4,320.00	8,640	35,520.00	71,040	0.00	0	120,480.00	240,960
N12-1.13-4907.00	Spares	1. lot	0.00	1.00	0.00	103.68	0	575,999.99	576,000	0.00	0	0.00	0	575,999.99	576,000
N12 - Substation 1 - Flotation Plant Subtotal					42,410.00		4,550,669		7,754,776		351,360		19,919,930		32,576,734
<u>N13 - High Voltage Cable Substation 1 To Substation 2</u>															
N13-1.13-4909.00	138 kV single core, 3000 MCM, copper conductor, XLPE, with copper wires and tape (Use of Al conductor will provide some savings)	73,500. m	0.10	1.15	8,452.50	103.68	876,355	0.00	0	0.00	0	117.12	8,608,320	129.04	9,484,675
N13-1.13-4910.00	Freight to return reels	1. lot	0.00	1.15	0.00	103.68	0	47,040.00	47,040	1,440.00	1,440	0.00	0	48,480.00	48,480
N13-1.13-4911.00	138 kV Outdoor Terminations	6. ea	30.00	1.15	207.00	103.68	21,462	0.00	0	480.00	2,880	9,024.00	54,144	13,080.96	78,486
N13-1.13-4912.00	138 kV pre-moulded splices	48. ea	30.00	1.15	1,656.00	103.68	171,694	0.00	0	480.00	23,040	7,488.00	359,424	11,544.96	554,158
N13-1.13-4913.00	Steel galv messenger cable, 5/16th grade 180 (note, this system also supports conveyor and fire alarm cables)	161,000. m	0.03	1.15	5,554.50	103.68	575,891	1.82	293,664	0.10	15,456	0.00	0	5.50	885,011
N13-1.13-4914.00	Misc. materials	1. lot	150.00	1.15	172.50	103.68	17,885	11,520.00	11,520	0.00	0	0.00	0	29,404.80	29,405
N13-1.13-4915.00	CAB cable clips	161,000. ea	0.01	1.15	1,851.50	103.68	191,964	2.16	347,760	0.08	12,365	0.00	0	3.43	552,088
N13-1.13-4916.00	Rock Bolts consisting of 6 ft Dywidag threadbar, for messenger cable support (3 man crew, one scissor deck operator and 2 miners, 0.25 MH per bolt). Material includes bits and steel, bolt, nut, plates, resin. See drawing 2012-27-E-6550 and 6561	5,704. ea	0.25	1.15	1,639.90	103.68	170,025	23.04	131,420	7.68	43,807	0.00	0	60.53	345,252
N13-1.13-4917.00	Angle iron messenger support, ss cable ubolts, etc. See drawing 2010-27-E-6549	2,300. ea	1.00	1.15	2,645.00	103.68	274,234	504.00	1,159,200	7.68	17,664	0.00	0	630.91	1,451,098
N13-1.13-4918.00	Messenger seismic restraint, see drawing 2012-27-E-6562	230. ea	2.00	1.15	529.00	103.68	54,847	144.00	33,120	7.68	1,766	0.00	0	390.14	89,733
N13-1.13-4919.00	Messenger cable dead-end, see drawings 2012-27-E-6551 and 6563	24. ea	40.00	1.15	1,104.00	103.68	114,463	62,979.84	1,511,516	192.00	4,608	0.00	0	67,941.12	1,630,587
N13-1.13-4920.00	Fibreoptic cable, single mode, two runs	48,000. m	0.10	1.15	5,520.00	103.68	572,314	2.50	119,808	0.10	4,608	0.00	0	14.52	696,730
N13-1.13-4921.00	Spares	1. lot	0.00	1.15	0.00	103.68	0	239,999.99	240,000	0.00	0	0.00	0	239,999.99	240,000



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
N13-1.13-4922.00	Design and Engineering (note, the majority of the design is in the water to wire package which would include the turbine, generator, switchgear, controls, etc.	1. lot	0.00	1.15	0.00	103.68	0	192,000.00	192,000	0.00	0	0.00	0	192,000.00	192,000
N13-1.13-4923.00	Construction Management excludes offices, safety & first aid, supplied from plantsite)	8. mth	200.00	1.15	1,840.00	134.40	247,296	0.00	0	14,400.00	115,200	0.00	0	45,312.00	362,496
N13-1.13-4924.00	Vendor reps -(would actually be included in water to wire equipment package)	2. mth	200.00	1.15	460.00	134.40	61,824	4,800.00	9,600		0	0.00	0	35,712.00	71,424
N13-1.13-4925.00	QA/QC, Testing	2. mth	200.00	1.15	460.00	115.20	52,992	3,600.00	7,200	4,800.00	9,600	0.00	0	34,896.00	69,792
N13-1.13-4926.00	Commissioning	1. mth	200.00	1.15	230.00	134.40	30,912	0.00	0	4,800.00	4,800	0.00	0	35,712.00	35,712
N13 - High Voltage Cable Substation 1 To Substation 2 Subtotal					32,321.90		3,434,155		4,103,848		257,234		9,021,888		16,817,125
<u>N14 - GIS Substation 2 - Mitchell (138kV)</u>															
N14-1.13-4928.00	Rough Grading (includes allowance for rock)	1,750. m3	0.00	1.00	0.00	103.68	0	14.40	25,200	0.00	0	0.00	0	14.40	25,200
N14-1.13-4929.00	Excavation, foundation and escape tunnel	2,600. m3	0.00	1.00	0.00	103.68	0	8.64	22,464	0.00	0	0.00	0	8.64	22,464
N14-1.13-4930.00	Excavation,retaining walls	2,100. m3	0.00	1.00	0.00	103.68	0	8.64	18,144	0.00	0	0.00	0	8.64	18,144
N14-1.13-4931.00	Backfill	400. m3	0.00	1.00	0.00	103.68	0	20.16	8,064	0.00	0	0.00	0	20.16	8,064
N14-1.13-4932.00	Fine grading	10,000. m2	0.00	1.00	0.00	103.68	0	6.24	62,400	0.00	0	0.00	0	6.24	62,400
N14-1.13-4933.00	GIS reinforced concrete bulding (includes formwork & rebar). Refer to drawings. Building is 30 m X 20.4 m in area	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N14-1.13-4934.00	Concrete, roof slab	240. m3	0.00	1.00	0.00	103.68	0	1,536.00	368,640	0.00	0	0.00	0	1,536.00	368,640
N14-1.13-4935.00	Concrete, beams	80. m3	0.00	1.00	0.00	103.68	0	1,536.00	122,880	0.00	0	0.00	0	1,536.00	122,880
N14-1.13-4936.00	Concrete, walls	930. m3	0.00	1.00	0.00	103.68	0	1,536.00	1,428,480	0.00	0	0.00	0	1,536.00	1,428,480
N14-1.13-4937.00	Concrete,columns	260. m3	0.00	1.00	0.00	103.68	0	1,536.00	399,360	0.00	0	0.00	0	1,536.00	399,360



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
N14-1.13-4938.00	Concrete, elevated slab	160. m3	0.00	1.00	0.00	103.68	0	1,536.00	245,760	0.00	0	0.00	0	1,536.00	245,760
N14-1.13-4939.00	Concrete, slab on grade	150. m3	0.00	1.00	0.00	103.68	0	1,536.00	230,400	0.00	0	0.00	0	1,536.00	230,400
N14-1.13-4940.00	Concrete, equipment foundation	140. m3	0.00	1.00	0.00	103.68	0	1,536.00	215,040	0.00	0	0.00	0	1,536.00	215,040
N14-1.13-4941.00	Concrete, sumps	30. m3	0.00	1.00	0.00	103.68	0	1,536.00	46,080	0.00	0	0.00	0	1,536.00	46,080
N14-1.13-4942.00	Concrete, building foundation, footings	240. m3	0.00	1.00	0.00	103.68	0	1,536.00	368,640	0.00	0	0.00	0	1,536.00	368,640
N14-1.13-4943.00	Concrete, grade walls	170. m3	0.00	1.00	0.00	103.68	0	1,536.00	261,120	0.00	0	0.00	0	1,536.00	261,120
N14-1.13-4944.00	Louvres, allowance	1. lot	0.00	1.00	0.00	103.68	0	33,316.80	33,317	0.00	0	0.00	0	33,316.80	33,317
N14-1.13-4945.00	Structural steel including crane beam, 2nd floor wall panel, rails and embedded metal	18. t	0.00	1.00	0.00	103.68	0	6,707.52	120,735	0.00	0	0.00	0	6,707.52	120,735
N14-1.13-4946.00	Building Services, lighting. H&V	1,020. m2	1.00	1.00	1,020.00	103.68	105,754	48.00	48,960	24.00	24,480	0.00	0	175.68	179,194
N14-1.13-4947.00	Mandoors, single, fire rated	13. ea	0.00	1.00	0.00	103.68	0	3,134.40	40,747	0.00	0	0.00	0	3,134.40	40,747
N14-1.13-4948.00	Equipment Door (double mandoor, 3 m high)	1. ea	0.00	1.00	0.00	103.68	0	7,200.00	7,200	0.00	0	0.00	0	7,200.00	7,200
N14-1.13-4949.00	Bituminous paint to grade walls and roof slab	1,146. m3	0.00	1.00	0.00	103.68	0	11.81	13,532	0.00	0	0.00	0	11.81	13,532
N14-1.13-4950.00	Bridge Crane in GIS room, 5 tonne c/w bus bars, electrical safety disconnect switch and pendant control	1. ea	190.00	1.00	190.00	103.68	19,699	0.00	0	0.00	0	44,160.00	44,160	63,859.20	63,859
N14-1.13-4951.00	Siemens GIS equipment including: Qty 2. Cable feeders, connected via SF6/cable termination, Qty 2. Transformer feeders, connected via SF6 busduct with SF6/cable termination Qty 1. Incoming Line feeder, connected via SF6 busduct with SF6/cable termination	1. lot	2,100.00	1.00	2,100.00	103.68	217,728	147,600.00	147,600	0.00	0	3,339,999.93	3,340,000	3,705,327.92	3,705,328
N14-1.13-4952.00	Addition for contact viewing camera, etc.	1. lot	0.00	1.00	0.00	103.68	0	0.00	0	0.00	0	57,600.00	57,600	57,600.00	57,600
N14-1.13-4953.00	Addition to Siemens equipment for longer bus bars	1. lot	0.00	1.00	0.00	103.68	0	0.00	0	0.00	0	383,999.99	384,000	383,999.99	384,000



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
N14-1.13-4954.00	Transformers T1 & T2, 138-25 kV, 1050 kV BIL, oil filled, ONAN/ONAF, 25/33 MVA, conservator type, c/w automatic tap changers,	2. ea	450.00	1.00	900.00	103.68	93,312	98,160.00	196,320	0.00	0	1,449,999.97	2,900,000	1,594,815.96	3,189,632
N14-1.13-4955.00	Allowance for 138 kV Cable Boxes	2. ea	150.00	1.00	300.00	103.68	31,104	3,360.00	6,720	0.00	0	52,800.00	105,600	71,712.00	143,424
N14-1.13-4956.00	Reactos, 004 & 005, 11 H, 138 kV	2. ea	300.00	1.00	600.00	103.68	62,208	48,480.00	96,960	0.00	0	949,999.98	1,900,000	1,029,583.98	2,059,168
N14-1.13-4957.00	Allowance for 138 kV Cable Bushings	2. ea	150.00	1.00	300.00	103.68	31,104	3,360.00	6,720	0.00	0	52,800.00	105,600	71,712.00	143,424
N14-1.13-4958.00	138 kV cable to connect transformers and reactors - part of tunnel cable order	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N14-1.13-4959.00	138 kV Single Core Terminations	12. ea	100.00	1.00	1,200.00	103.68	124,416	11,200.00	134,400	0.00	0	0.00	0	21,568.00	258,816
N14-1.13-4960.00	Protective Relay Panel	1. ea	750.00	1.00	750.00	103.68	77,760	16,800.00	16,800	0.00	0	168,000.00	168,000	262,559.99	262,560
N14-1.13-4961.00	Misc steel supports	1,000. kg	0.50	1.00	500.00	103.68	51,840	4.80	4,800	0.00	0	0.00	0	56.64	56,640
N14-1.13-4962.00	Communications Equipment	1. lot	500.00	1.00	500.00	103.68	51,840	0.00	0	0.00	0	216,000.00	216,000	267,839.99	267,840
N14-1.13-4963.00	Zig zag grounding transformer and resistor with CTs & relay	2. ea	175.00	1.00	350.00	103.68	36,288	2,880.00	5,760	0.00	0	52,800.00	105,600	73,824.00	147,648
N14-1.13-4964.00	Station ground grid	1. lot	900.00	1.00	900.00	103.68	93,312	239,999.99	240,000	0.00	0	0.00	0	333,311.99	333,312
N14-1.13-4965.00	Station 25 kV service transformer (45 kVA) and panel	2. ea	200.00	1.00	400.00	103.68	41,472	14,400.00	28,800	0.00	0	65,000.00	130,000	100,136.00	200,272
N14-1.13-4966.00	600 Volt Switchgear and MCCs	1. lot	200.00	1.00	200.00	103.68	20,736	7,000.00	7,000	0.00	0	72,000.00	72,000	99,736.00	99,736
N14-1.13-4967.00	Allowance for fire detection and inert gas suppression in 25 KV switchgear room	1. lot	650.00	1.00	650.00	103.68	67,392	7,200.00	7,200	0.00	0	72,000.00	72,000	146,592.00	146,592
N14-1.13-4968.00	Battery bank, chargers, and panels	1. lot	150.00	1.00	150.00	103.68	15,552	0.00	0	0.00	0	72,960.00	72,960	88,512.00	88,512
N14-1.13-4969.00	25 kV Metalclad Switchgear (Arc-proof)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
N14-1.13-4970.00	Main & tie breakers, 3000 A	3. ea	50.00	1.00	150.00	103.68	15,552	4,368.00	13,104	0.00	0	94,000.00	282,000	103,552.00	310,656
N14-1.13-4971.00	Feeder breakers, 1200 A	16. ea	25.00	1.00	400.00	103.68	41,472	2,928.00	46,848	0.00	0	72,000.00	1,152,000	77,520.00	1,240,320
N14-1.13-4972.00	25 kV 3 Phase Bus Bar	75. m	12.00	1.00	900.00	103.68	93,312	1,440.00	108,000	0.00	0	0.00	0	2,684.16	201,312
N14-1.13-4973.00	Power & Control Cable, Tray & Conduit (Excludes all 25 kV cables except to station service and grounding transformers)	1. lot	22,000.00	1.00	22,000.00	103.68	2,280,960	144,000.00	144,000	0.00	0	0.00	0	2,424,959.95	2,424,960
N14-1.13-4974.00	Construction Power from Plansite	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N14-1.13-4975.00	General Equip Rental	12. mth	0.00	1.00	0.00	103.68	0	9,600.00	115,200	0.00	0	0.00	0	9,600.00	115,200
N14-1.13-4976.00	Design and Engineering (Note, design and engineering of GIS equipment by vendor)	1. lot	0.00	1.00	0.00	103.68	0	921,599.98	921,600	0.00	0	0.00	0	921,599.98	921,600
N14-1.13-4977.00	Construction Office, (Abolition and safety part of plantsite facilities).	12. mth	0.00	1.00	0.00	103.68	0	3,360.00	40,320	0.00	0	0.00	0	3,360.00	40,320
N14-1.13-4978.00	Construction Management including, pickups, office equipment, etc. excludes safety & first aid, supplied from plantsite)	12. mth	400.00	1.00	4,800.00	140.00	672,000	7,200.00	86,400	9,120.00	109,440	0.00	0	72,320.00	867,840
N14-1.13-4979.00	Vendor reps	1. lot	0.00	1.00	0.00	130.00	0	4,320.00	4,320	148,320.00	148,320	0.00	0	152,640.00	152,640
N14-1.13-4980.00	QA/QC, Testing	12. mth	200.00	1.00	2,400.00	120.00	288,000	4,320.00	51,840	4,320.00	51,840	0.00	0	32,640.00	391,680
N14-1.13-4981.00	Commissioning	2. mth	600.00	1.00	1,200.00	140.00	168,000	4,320.00	8,640	35,520.00	71,040	0.00	0	123,840.00	247,680
N14-1.13-4982.00	Spares	1. lot	0.00	1.00	0.00	103.68	0	575,999.99	576,000	0.00	0	0.00	0	575,999.99	576,000
N14 - GIS Substation 2 - Mitchell (138kV) Subtotal					42,860.00		4,700,813		7,102,515		405,120		11,107,520		23,315,968
<u>N15 - BC Hydro, Basic Line Extension & Metering</u>															
N15-1.13-4984.00	BC Hydro, Basic Line Extension & Metering allowance; This covers the metering, feeder breaker and line protection at the point of metering	1. lot	0.00	1.30	0.00	103.68	0	5,759,999.87	5,760,000	0.00	0	0.00	0	5,759,999.87	5,760,000
N15 - BC Hydro, Basic Line Extension & Metering Subtotal					0.00		0		5,760,000		0		0		5,760,000
<u>N16 - Contribution to NTL</u>															



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
N16-1.13-4986.00	Estimated KSM contribution to the NTL capital cost shortfall. BC Hydro as of April 1, 2012 has not published the NTL Tariff, the contribution calculated herein is based on preliminary information from BC Hydro														
	1. lot		0.00	1.30	0.00	103.68	0	81,599,998.18	81,599,998	0.00	0	0.00	0	81,599,998.18	81,599,998
	N16 - Contribution to NTL Subtotal				0.00		0		81,599,998		0		0		81,599,998
<u>N17 - 287 kV Transmission Line Treaty Creek To Mine Sub # 1</u>															
N17-1.13-4988.00	287 KV Transmission Line, Treaty Creek switching station to Teigen No. 1 substation. Steel Mono Pole steel construction in road right-of-way														
	28. km		2,193.32	1.15	70,625.00	103.68	7,322,400	392,357.13	10,986,000	23,357.14	654,000	0.00	0	677,228.56	18,962,400
N17-1.13-4989.00	Avalanche resistant concrete piers for 10 structures.														
	780. m3		10.00	1.15	8,970.00	103.68	930,010	480.00	374,400	24.00	18,720	0.00	0	1,696.32	1,323,130
N17-1.13-4990.00	Excavation for 8 concrete piers														
	1,200. m3		0.15	1.15	207.00	103.68	21,462	0.00	0	5.76	6,912	0.00	0	23.64	28,374
N17-1.13-4991.00	Backfill for 8 concrete piers														
	900. m3		0.20	1.15	207.00	103.68	21,462	14.40	12,960	5.76	5,184	0.00	0	44.01	39,606
N17-1.13-4992.00	The Treaty Creek transmission line follows the road which is characterized in geohazard reports as "the terrain intersected by the proposed Treaty access road is in summary 20.2 km of the road cross colluvial slopes, 7.1km cross slopes underlain by til														
	-		-	-	-	-	-	-	-	-	-	-	-	-	-
N17-1.13-4993.00	Duct Bank, 287 KV cables to Substation No. 1, install cable														
	300. m		0.10	1.15	34.50	103.68	3,577	0.00	0	4.80	1,440	0.00	0	16.72	5,017
N17-1.13-4994.00	Duct, DB2														
	900. m		0.00	1.15	0.00	103.68	0	14.40	12,960	0.00	0	0.00	0	14.40	12,960
N17-1.13-4995.00	Concrete														
	225. m3		10.00	1.15	2,587.50	103.68	268,272	480.00	108,000	24.00	5,400	0.00	0	1,696.32	381,672
N17-1.13-4996.00	Manholes, precast														
	1. ea		50.00	1.15	57.50	103.68	5,962	4,800.00	4,800	0.00	0	0.00	0	10,761.60	10,762
N17-1.13-4997.00	Duct Bank, 138 KV cables from Substation No. 1 to tunnel, install cable														
	1,000. m		0.10	1.15	115.00	103.68	11,923	0.00	0	4.80	4,800	0.00	0	16.72	16,723
N17-1.13-4998.00	Duct, DB2														
	3,000. m		0.00	1.15	0.00	103.68	0	14.40	43,200	0.00	0	0.00	0	14.40	43,200
N17-1.13-4999.00	Concrete														
	750. m3		10.00	1.15	8,625.00	103.68	894,240	480.00	360,000	24.00	18,000	0.00	0	1,696.32	1,272,240
N17-1.13-5000.00	Manholes, precast														
	2. ea		50.00	1.15	115.00	103.68	11,923	4,800.00	9,600	0.00	0	0.00	0	10,761.60	21,523
N17-1.13-5001.00	Allowance for Local 25 kV Power Distribution along HW37														
	20. km		0.00	1.15	0.00	103.68	0	62,400.00	1,248,000	0.00	0	0.00	0	62,400.00	1,248,000



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
N17-1.13-5002.00	Spares	1. lot	0.00	1.15	0.00	103.68	0	239,999.99	240,000	0.00	0	0.00	0	239,999.99	240,000
N17-1.13-5003.00	Survey	1. lot	0.00	1.15	0.00	103.68	0	479,999.99	480,000	0.00	0	0.00	0	479,999.99	480,000
N17-1.13-5004.00	Design and Engineering (note, the majority of the design is in the water to wire package which would include the turbine, generator, switchgear, controls, etc.	1. lot	0.00	1.15	0.00	103.68	0	479,999.99	480,000	0.00	0	0.00	0	479,999.99	480,000
N17-1.13-5005.00	Construction Office, Abolition, etc. - part of site facilities, vehicles	12. mth	0.00	1.15	0.00	103.68	0	3,840.00	46,080	7,200.00	86,400	0.00	0	11,040.00	132,480
N17-1.13-5006.00	Construction Management excludes offices, safety & first aid, supplied from plantsite)	12. mth	200.00	1.15	2,760.00	134.40	370,944	2,880.00	34,560	14,400.00	172,800	0.00	0	48,192.00	578,304
N17-1.13-5007.00	Vendor reps -(would actually be included in water to wire equipment package)	2. mth	200.00	1.15	460.00	134.40	61,824	7,200.00	14,400	4,800.00	9,600	0.00	0	42,912.00	85,824
N17-1.13-5008.00	QA/QC, Testing	10. mth	200.00	1.15	2,300.00	115.20	264,960	3,120.00	31,200	4,800.00	48,000	0.00	0	34,416.00	344,160
N17-1.13-5009.00	Commissioning	1. mth	400.00	1.15	460.00	134.40	61,824	4,800.00	4,800	4,800.00	4,800	0.00	0	71,424.00	71,424
N17 - 287 kV Transmission Line Treaty Creek To Mine Sub # 1 Subtotal					97,523.50		10,250,782		14,490,960		1,036,056		0		25,777,798
<u>N18 - Combustion Turbine, Terrace</u>															
N18-1.13-5011.00	(Located in or near Terrace BC, this turbine is installed to keep the peak power demand below 150 MW)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N18-1.13-5012.00	Land acquisition, survey, tax, etc.	4. ha	0.00	1.15	0.00	103.68	0	96,000.00	384,000	0.00	0	0.00	0	96,000.00	384,000
N18-1.13-5013.00	Fence in front of U/G substations and around surface substations, chainlink, 2400 high, 3 strands barbed wire, including gates, and grounding	400. m	0.40	1.15	184.00	103.68	19,077	33.60	13,440	6.72	2,688	0.00	0	88.01	35,205
N18-1.13-5014.00	Clearing & grubbing	4. ha	75.00	1.15	345.00	103.68	35,770	0.00	0	2,070.00	8,280	0.00	0	11,012.40	44,050
N18-1.13-5015.00	Bulk Excavation	800. m3	0.10	1.15	92.00	103.68	9,539	0.00	0	4.80	3,840	0.00	0	16.72	13,379
N18-1.13-5016.00	Detailed excavation	300. m3	0.15	1.15	51.75	103.68	5,365	0.00	0	5.76	1,728	0.00	0	23.64	7,093
N18-1.13-5017.00	Backfill	300. m3	0.15	1.15	51.75	103.68	5,365	9.60	2,880	4.80	1,440	0.00	0	32.28	9,685



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
N18-1.13-5018.00	Concrete (Terrace BC)	650. m3	8.00	1.15	5,980.00	103.68	620,006	384.00	249,600	19.20	12,480	0.00	0	1,357.06	882,086
N18-1.13-5019.00	Prefab building with services (H&V, Lighting, etc.)	300. m2	0.00	1.15	0.00	103.68	0	1,440.00	432,000	0.00	0	0.00	0	1,440.00	432,000
N18-1.13-5020.00	Potable water	1. lot	0.00	1.15	0.00	103.68	0	24,000.00	24,000	0.00	0	0.00	0	24,000.00	24,000
N18-1.13-5021.00	Septic system	1. lot	0.00	1.15	0.00	103.68	0	14,400.00	14,400	0.00	0	0.00	0	14,400.00	14,400
N18-1.13-5022.00	Transmission Interconnection	3. km	0.00	1.15	0.00	103.68	0	96,000.00	288,000	0.00	0	0.00	0	96,000.00	288,000
N18-1.13-5023.00	Protection panel, bateries, etc.	1. lot	250.00	1.15	287.50	103.68	29,808	2,400.00	2,400	0.00	0	105,600.00	105,600	137,808.00	137,808
N18-1.13-5024.00	Substation with Step-up transformer, 25 MVA,	1. ea	360.00	1.15	414.00	103.68	42,924	4,224.00	4,224	3,360.00	3,360	422,399.99	422,400	472,907.51	472,908
N18-1.13-5025.00	HV circuit breaker, lightning arresters, PTs and Cts, etc.	1. lot	100.00	1.15	115.00	103.68	11,923	1,200.00	1,200	1,440.00	1,440	120,000.00	120,000	134,563.20	134,563
N18-1.13-5026.00	BC Hydro interconnection cost, allowance	1. lot	0.00	1.15	0.00	103.68	0	959,999.98	960,000	0.00	0	0.00	0	959,999.98	960,000
N18-1.13-5027.00	AltaGas Interconnection allowance	1. lot	0.00	1.15	0.00	103.68	0	1,439,999.97	1,440,000	0.00	0	0.00	0	1,439,999.97	1,440,000
N18-1.13-5028.00	Telephone service to power plant	1. lot	0.00	1.15	0.00	103.68	0	52,800.00	52,800	0.00	0	0.00	0	52,800.00	52,800
N18-1.13-5029.00	Combustion turbine, simple cycle, 23 MVA	1. ea	0.00	1.15	0.00	103.68	0	595,199.99	595,200	0.00	0	11,903,999.73	11,904,000	12,499,199.72	12,499,200
N18-1.13-5030.00	Turbine Instillation includes mechanical, electrical and instrumentation	1. lot	0.00	1.15	0.00	103.68	0	1,785,599.96	1,785,600	0.00	0	0.00	0	1,785,599.96	1,785,600
N18-1.13-5031.00	Misc pimps tanks, etc.	1. lot	100.00	1.15	115.00	103.68	11,923	4,800.00	4,800	0.00	0	0.00	0	16,723.20	16,723
N18-1.13-5032.00	3 runs 15 kV, 400 MCM, Teck	300. m	0.40	1.15	138.00	103.68	14,308	163.20	48,960	0.96	288	0.00	0	211.85	63,556
N18-1.13-5033.00	Trenching & backfill	50. m	0.40	1.15	23.00	103.68	2,385	19.20	960	19.20	960	0.00	0	86.09	4,305



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
N18-1.13-5034.00	Connectors, splice kits, etc.	1. lot	100.00	1.15	115.00	103.68	11,923	2,400.00	2,400	288.00	288	0.00	0	14,611.20	14,611
N18-1.13-5035.00	Grounding; Ground wire, 2/0 AWG	1,500. m	0.05	1.15	86.25	103.68	8,942	6.62	9,936	0.96	1,440	0.00	0	13.55	20,318
N18-1.13-5036.00	Grounding; Ground Connectors, compression	250. ea	0.50	1.15	143.75	103.68	14,904	0.00	0	0.00	0	0.00	0	59.62	14,904
N18-1.13-5037.00	Grounding; Ground wire, 4/0	100. m	0.15	1.15	17.25	103.68	1,788	9.98	998	0.96	96	0.00	0	28.83	2,883
N18-1.13-5038.00	Grounding; Trenching	300. m	0.20	1.15	69.00	103.68	7,154	0.00	0	7.68	2,304	0.00	0	31.53	9,458
N18-1.13-5039.00	Grounding; Intrusion Detection	1. lot		1.15	0.00	103.68	0	9,600.00	9,600	0.00	0	0.00	0	9,600.00	9,600
N18-1.13-5040.00	Grounding; Fire detection	1. lot		1.15	0.00	103.68	0	11,520.00	11,520	0.00	0	0.00	0	11,520.00	11,520
N18-1.13-5041.00	Grounding; CCTV	1. lot		1.15	0.00	103.68	0	10,560.00	10,560	0.00	0	0.00	0	10,560.00	10,560
N18-1.13-5042.00	Grounding; Fire protection, inert gas	1. lot		1.15	0.00	103.68	0	86,400.00	86,400	0.00	0	0.00	0	86,400.00	86,400
N18-1.13-5043.00	Combustion Turbine Spares	1. lot	0.00	1.15	0.00	103.68	0	335,999.99	336,000	0.00	0	0.00	0	335,999.99	336,000
N18-1.13-5044.00	Engineering	1. lot	0.00	1.15	0.00	103.68	0	335,999.99	336,000	0.00	0	0.00	0	335,999.99	336,000
N18-1.13-5045.00	Construction Management; Construction Offices & Office Equipment	5. mth	0.00	1.15	0.00	103.68	0	2,400.00	12,000	5,280.00	26,400	2,400.00	12,000	10,080.00	50,400
N18-1.13-5046.00	Construction Management of electrical & inst.	5. mth	200.00	1.15	1,150.00	134.40	154,560	9,600.00	48,000	7,200.00	36,000	0.00	0	47,712.00	238,560
N18-1.13-5047.00	Construction Management; QA/QC	3. mth	200.00	1.15	690.00	115.20	79,488	4,800.00	14,400	3,360.00	10,080	0.00	0	34,656.00	103,968
N18-1.13-5048.00	Commissioning personnel	2. mth	400.00	1.15	920.00	134.40	123,648	7,200.00	14,400	4,800.00	9,600	4,800.00	9,600	78,624.00	157,248
N18-1.13-5049.00	Vendor Reps (in addition to proposal)	1. lot	0.00	1.15	0.00	103.68	0	192,000.00	192,000	0.00	0	0.00	0	192,000.00	192,000
N18 - Combustion Turbine, Terrace Subtotal					10,988.25		1,210,801		7,388,678		122,712		12,573,600		21,295,791



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
<u>N21 - Mitchell Diversion Mini Hydro Plant</u>															
N21-1.14-5051.00	Mitchell Diversion Mini Hydro Plant allowance	1. lot	15,400.00	1.00	15,400.00	103.68	1,596,672	2,675,903.94	2,675,904	0.00	0	12,263,327.73	12,263,328	16,535,903.63	16,535,904
N21 - Mitchell Diversion Mini Hydro Plant Subtotal					15,400.00		1,596,672		2,675,904		0		12,263,328		16,535,904
<u>N22 - McTagg Diversion Mini Hydro Plant</u>															
N22-1.14-5053.00	[Y2] - McTagg Diversion Power Plant allowance, (Sustaining Capital CAD\$35,022,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N22 - McTagg Diversion Mini Hydro Plant Subtotal					0.00		0		0		0		0		0
<u>N32 - Slurry Pipeline Energy Recovery Plant</u>															
N32-1.15-5055.00	Detail Excavation	1,875. m3	0.06	1.30	146.25	103.68	15,163	0.00	0	3.60	6,750	0.00	0	11.69	21,913
N32-1.15-5056.00	Structural Backfill	1,731. m3	0.10	1.30	225.03	103.68	23,331	7.68	13,294	3.84	6,647	0.00	0	25.00	43,272
N32-1.15-5057.00	Concrete work	160. m3	7.00	1.30	1,456.00	103.68	150,958	643.20	102,912	19.20	3,072	0.00	0	1,605.89	256,942
N32-1.15-5058.00	Structural Steel	56. t	22.00	1.30	1,601.60	103.68	166,054	4,608.00	258,048	240.00	13,440	0.00	0	7,813.25	437,542
N32-1.15-5059.00	Wall cladding	322. m2	1.50	1.30	627.90	103.68	65,101	120.00	38,640	14.40	4,637	0.00	0	336.58	108,377
N32-1.15-5060.00	Roof cladding	125. m2	1.00	1.30	162.50	103.68	16,848	105.60	13,200	14.40	1,800	0.00	0	254.78	31,848
N32-1.15-5061.00	Pump	2. lot	170.00	1.30	442.00	103.68	45,827	288.00	576	960.00	1,920	315,193.91	630,388	339,355.19	678,710
N32-1.15-5062.00	induction generator	2. lot	40.00	1.30	104.00	103.68	10,783	0.00	0	96.00	192	67,200.00	134,400	72,687.36	145,375
N32-1.15-5063.00	7.5t overhead crane	2. lot	75.00	1.30	195.00	103.68	20,218	0.00	0	0.00	0	55,680.00	111,360	65,788.80	131,578
N32-1.15-5064.00	piping	2. lot	275.00	1.30	715.00	103.68	74,131	14,400.00	28,800	10.56	21	4,800.00	9,600	56,276.16	112,552
N32-1.15-5065.00	HVAC and building services icdg lighting	2. lot	200.00	1.30	520.00	103.68	53,914	23,040.00	46,080	2.64	5	1,111.98	2,224	51,111.42	102,223



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
N32-1.15-5066.00	Fire protection (extinguishers only)	2. lot	40.00	1.30	104.00	103.68	10,783	2,400.00	4,800	3,360.00	6,720	0.00	0	11,151.36	22,303
N32-1.15-5067.00	Control and Instrumentation, includes PLC	2. lot	200.00	1.30	520.00	103.68	53,914	7,200.00	14,400	144.00	288	28,800.00	57,600	63,100.80	126,202
N32-1.15-5068.00	25 kV Powerline Terminations only(Fused LB Switch, LA, Cable)	2. lot	71.23	1.30	185.19	103.68	19,200	17,280.00	34,560	14,400.00	28,800	0.00	0	41,280.00	82,560
N32-1.15-5069.00	Transformers (Including Grounding Resistors)	2. lot	125.00	1.30	325.00	103.68	33,696	51,264.00	102,528	11,184.00	22,368	290,495.99	580,992	369,791.99	739,584
N32-1.15-5070.00	Bus/Cable Duct from Transformer Secondaries	2. lot	75.00	1.30	195.00	103.68	20,218	11,520.00	23,040	19.20	38	0.00	0	21,648.00	43,296
N32-1.15-5071.00	4kV MCCs c/w Starters	2. lot	80.00	1.30	208.00	103.68	21,565	2,400.00	4,800	960.00	1,920	18,240.00	36,480	32,382.72	64,765
N32-1.15-5072.00	Cable, Tray & Grounding	2. lot	175.00	1.30	455.00	103.68	47,174	24,000.00	48,000	2,880.00	5,760	6,720.00	13,440	57,187.20	114,374
N32-1.15-5073.00	Terminations	2. lot	130.00	1.30	338.00	103.68	35,044	3,360.00	6,720	960.00	1,920	0.00	0	21,841.92	43,684
N32-1.15-5074.00	Transformer & 600 V MCC (For aux. loads, Includes HVAC)	2. lot	70.00	1.30	182.00	103.68	18,870	9,984.00	19,968	1,536.00	3,072	16,320.00	32,640	37,274.88	74,550
N32-1.15-5075.00	Misc starters & control stations	2. lot	45.00	1.30	117.00	103.68	12,131	9,120.00	18,240	4,320.00	8,640	6,720.00	13,440	26,225.28	52,451
N32 - Slurry Pipeline Energy Recovery Plant Subtotal					8,824.47		914,921		778,606		118,011		1,622,564		3,434,101
<u>N33 - Water Treatment Energy Recovery Plant</u>															
N33-1.15-5077.00	Detailed excavation and backfill	400. m3	0.10	1.00	40.00	103.68	4,147	0.00	0	3.36	1,344	0.00	0	13.73	5,491
N33-1.15-5078.00	Foundations	220. m3	9.00	1.00	1,980.00	103.68	205,286	600.00	132,000	24.00	5,280	0.00	0	1,557.12	342,566
N33-1.15-5079.00	Pre-engineering building with services H&V, lighting, fire alarm system. 12 x 16 m	200. m2	0.00	1.00	0.00	103.68	0	2,976.00	595,200	0.00	0	0.00	0	2,976.00	595,200
N33-1.15-5080.00	7.5 tonne bridge crane c/w bus bars, safety switch, etc.	1. ea	100.00	1.00	100.00	103.68	10,368	1,632.00	1,632	0.00	0	44,160.00	44,160	56,160.00	56,160
N33-1.15-5081.00	Water turbine, Turgo impulse type, Up to 2500 kW, up to 1.7 cms, 133 to 146 m net heat, 201 m gross head withstand (no flow), 4160 volt synchronous generator	1. ea	500.00	1.00	500.00	103.68	51,840	4,800.00	4,800	4,800.00	4,800	1,306,799.97	1,306,800	1,368,239.97	1,368,240



Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Project No: 1252880100-EST-R0001-00

Client: Seabridge Gold Inc.

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
N33-1.15-5082.00	Powerhouse manifold/local hydro piping	20. m	10.00	1.00	200.00	103.68	20,736	216.00	4,320	0.00	0	0.00	0	1,252.80	25,056
N33-1.15-5083.00	Hydraulic power unit (Equipment cost included with with turbine)	1. ea	100.00	1.00	100.00	103.68	10,368	0.00	0	0.00	0	0.00	0	10,368.00	10,368
N33-1.15-5084.00	TIV with bypass and actuator	1. ea	100.00	1.00	100.00	103.68	10,368	0.00	0	0.00	0	52,800.00	52,800	63,168.00	63,168
N33-1.15-5085.00	Allowance for by-pass orifice station	1. lot	200.00	1.00	200.00	103.68	20,736	0.00	0	0.00	0	48,000.00	48,000	68,736.00	68,736
N33-1.15-5086.00	5 kV switchgear, 800 Amp bus, incoming main breaker, generator breaker with integrated gen protective relays, main breaker and cell with fused switch and dry type 4160 -600 volt 45 kva station service transformer.	1. lot	250.00	1.00	250.00	103.68	25,920	4,800.00	4,800	0.00	0	126,720.00	126,720	157,440.00	157,440
N33-1.15-5087.00	Misc. piping	1. lot	200.00	1.00	200.00	103.68	20,736	11,520.00	11,520	0.00	0	0.00	0	32,256.00	32,256
N33-1.15-5088.00	Control panel with PLC and HMI with SCADA interface for remote monitoring. Includes software and programming.	1. lot	0.00	1.00	0.00	103.68	0	9,600.00	9,600	0.00	0	359,999.99	360,000	369,599.99	369,600
N33-1.15-5089.00	Physically install control panel	1. lot	80.00	1.00	80.00	103.68	8,294	2,400.00	2,400	0.00	0	0.00	0	10,694.40	10,694
N33-1.15-5090.00	Battery bank charger and DC panel	1. ea	40.00	1.00	40.00	103.68	4,147	0.00	0	0.00	0	24,000.00	24,000	28,147.20	28,147
N33-1.15-5091.00	Ground Grid	1. lot	150.00	1.00	150.00	103.68	15,552	12,000.00	12,000	0.00	0	0.00	0	27,552.00	27,552
N33-1.15-5092.00	Power and control cables, misc. pilot devices, instruments, switches, etc.	1. lot	750.00	1.00	750.00	103.68	77,760	115,200.00	115,200	0.00	0	0.00	0	192,960.00	192,960
N33-1.15-5093.00	25 kV, 3c 2/0 Teck, direct burried, includes terminations	100. m	0.40	1.00	40.00	103.68	4,147	120.00	12,000	9.60	960	0.00	0	171.07	17,107
N33-1.15-5094.00	Power Transformer, 25-4.16 kV, 2.2/3 MVA ONAN/ONAF, pad mount	1. ea	125.00	1.00	125.00	103.68	12,960	3,936.00	3,936	960.00	960	78,720.00	78,720	96,576.00	96,576
N33-1.15-5095.00	25 KV Primary recloser, air break switch, terminal pole and lightning arresters	1. lot	80.00	1.00	80.00	103.68	8,294	3,744.00	3,744	0.00	0	24,960.00	24,960	36,998.40	36,998
N33-1.15-5096.00	General Equip. Rental (equipment will be readily available from the nearby construction site)	1. lot	0.00	1.00	0.00	103.68	0	0.00	0	28,800.00	28,800	0.00	0	28,800.00	28,800
N33-1.15-5097.00	Construction Power is from Mitchell portal power plant	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
N33-1.15-5098.00	Spares	1. lot	0.00	1.00	0.00	103.68	0	239,999.99	240,000	0.00	0	0.00	0	239,999.99	240,000
N33-1.15-5099.00	Design and Engineering (note, the majority of the design is in the water to wire package which would include the turbine, generator, switchgear, controls, etc.)	1. lot	0.00	1.00	0.00	103.68	0	192,000.00	192,000	0.00	0	0.00	0	192,000.00	192,000
N33-1.15-5100.00	Construction Management excludes offices, safety & first aid, supplied from plantsite)	1. lot	600.00	1.00	600.00	134.40	80,640	0.00	0	14,400.00	14,400	0.00	0	95,040.00	95,040
N33-1.15-5101.00	Vendor reps -(would actually be included in water to wire equipment package)	1. lot	150.00	1.00	150.00	134.40	20,160	4,800.00	4,800	0.00	0	0.00	0	24,960.00	24,960
N33-1.15-5102.00	QA/QC, Testing	1. lot	100.00	1.00	100.00	134.40	13,440	7,200.00	7,200	4,800.00	4,800	0.00	0	25,440.00	25,440
N33-1.15-5103.00	Commissioning	1. lot	200.00	1.00	200.00	134.40	26,880	0.00	0	4,800.00	4,800	0.00	0	31,680.00	31,680
N33 - Water Treatment Energy Recovery Plant Subtotal					5,985.00		652,781		1,357,152		66,144		2,066,160	4,142,237	
<u>P13 - Coulter Creek Access Road (CCAR) - 34km</u>															
P13-1.16-5105.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; Site Preparation; Right-of-Way Logging	28,000. m3	0.09	1.00	2,395.56	103.68	248,371	17.42	487,872	5.39	150,797	0.00	0	31.68	887,040
P13-1.16-5106.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; Site Preparation; Clearing & Grubbing	69. ha	8.30	1.00	572.96	103.68	59,405	1,691.13	116,688	522.71	36,067	0.00	0	3,074.78	212,160
P13-1.16-5107.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; Subgrade Construction; O.M. (Other Material)	212,000. m3	0.02	1.00	3,518.15	103.68	364,762	3.38	716,496	1.04	221,462	0.00	0	6.14	1,302,720
P13-1.16-5108.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; Subgrade Construction; Rippable Rock	18,000. m3	0.02	1.00	388.89	103.68	40,320	4.40	79,200	1.36	24,480	0.00	0	8.00	144,000
P13-1.16-5109.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; Subgrade Construction; Solid Rock/End Haul/Drill & Blast	336,000. m3	0.05	1.00	17,422.22	103.68	1,806,336	10.56	3,548,160	3.26	1,096,704	0.00	0	19.20	6,451,200
P13-1.16-5110.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; Subgrade Construction; Rock Scaling & Rock Bolting	10,000. m	0.31	1.00	3,111.11	103.68	322,560	63.36	633,600	19.58	195,840	0.00	0	115.20	1,152,000
P13-1.16-5111.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; Road Base and Surfacing; Select Granular Base (surfacing)	44,200. m3	0.02	1.00	860.74	103.68	89,242	3.97	175,296	1.23	54,182	0.00	0	7.21	318,720
P13-1.16-5112.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; Drainage Culverts; 600 mm dia. CSP	1,750. m	0.54	1.00	936.57	103.68	97,104	79.27	138,720	23.78	41,616	0.00	0	158.54	277,440
P13-1.16-5113.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; Drainage Culverts; 800 mm dia. CSP	95. m	0.72	1.00	68.06	103.68	7,056	106.11	10,080	31.83	3,024	0.00	0	212.21	20,160



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
P13-1.16-5114.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; Drainage Culverts; 1000 mm dia. CSP	260. m	0.97	1.00	252.78	103.68	26,208	144.00	37,440	43.20	11,232	0.00	0	288.00	74,880
P13-1.16-5115.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; Drainage Culverts; 1200 mm dia. CSP	90. m	1.30	1.00	116.67	103.68	12,096	192.00	17,280	57.60	5,184	0.00	0	384.00	34,560
P13-1.16-5116.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; Drainage Culverts; 1400 mm dia. CSP	23. m	1.97	1.00	45.37	103.68	4,704	292.17	6,720	87.65	2,016	0.00	0	584.35	13,440
P13-1.16-5117.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; Drainage Culverts; 1600 mm dia. CSP	17. m	2.67	1.00	45.37	103.68	4,704	395.29	6,720	118.59	2,016	0.00	0	790.59	13,440
P13-1.16-5118.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; Drainage Culverts; 1800 mm dia. CSP	65. m	3.24	1.00	210.65	103.68	21,840	480.00	31,200	144.00	9,360	0.00	0	960.00	62,400
P13-1.16-5119.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; Drainage Culverts; 2430 mm dia. CSP	29. m	5.25	1.00	152.31	103.68	15,792	777.93	22,560	233.38	6,768	0.00	0	1,555.86	45,120
P13-1.16-5120.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; Drainage Culverts; Riprap (All Classes)	2,000. m3	0.21	1.00	421.30	103.68	43,680	31.20	62,400	9.36	18,720	0.00	0	62.40	124,800
P13-1.16-5121.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; Bridge Construction 9m - 20m spans (1 bridge)	18. m	40.51	1.00	729.17	103.68	75,600	6,000.00	108,000	1,800.00	32,400	0.00	0	12,000.00	216,000
P13-1.16-5122.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; Bridge Construction 20m - 100m spans (5 bridges - 2 multi-span)	220. m	51.85	1.00	11,407.41	103.68	1,182,720	7,680.00	1,689,600	2,304.00	506,880	0.00	0	15,360.00	3,379,200
P13-1.16-5123.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; Mobilization & Demobilization (norm. 5%)	1. LS	3,888.89	1.00	3,888.89	103.68	403,200	791,999.98	792,000	244,799.99	244,800	0.00	0	1,439,999.97	1,440,000
P13-1.16-5124.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; Crew Transportation (Included in Construction Indirects)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P13-1.16-5125.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; Camp cost (Included in Construction Indirects)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P13-1.16-5126.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; Helicopter Support (Included in Construction Indirects)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P13-1.16-5127.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; First Aid & Supervision	2,500. man	4.41	1.00	11,018.52	103.68	1,142,400	897.60	2,244,000	277.44	693,600	0.00	0	1,632.00	4,080,000
P13-1.16-5128.00	Coulter Creek Access Road - Eskay Creek to and including Unuk River Crossing; Construction Surveys	500. cre	6.48	1.00	3,240.74	103.68	336,000	1,320.00	660,000	408.00	204,000	0.00	0	2,400.00	1,200,000
P13-1.16-5130.00	Coulter Creek Access Road - East of Unuk; Site Preparation; Right-of-Way Logging	5,500. m3	0.09	1.00	471.85	103.68	48,922	17.47	96,096	5.40	29,702	0.00	0	31.77	174,720



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
P13-1.16-5131.00	Coulter Creek Access Road - East of Unuk; Site Preparation; Clearing & Grubbing	14. ha	8.33	1.00	116.67	103.68	12,096	1,697.14	23,760	524.57	7,344	0.00	0	3,085.71	43,200
P13-1.16-5132.00	Coulter Creek Access Road - East of Unuk; Subgrade Construction; O.M. (Other Material)	26,700. m3	0.02	1.00	443.33	103.68	45,965	3.38	90,288	1.05	27,907	0.00	0	6.15	164,160
P13-1.16-5133.00	Coulter Creek Access Road - East of Unuk; Subgrade Construction; Rippable Rock	14,000. m3	0.02	1.00	303.33	103.68	31,450	4.41	61,776	1.36	19,094	0.00	0	8.02	112,320
P13-1.16-5134.00	Coulter Creek Access Road - East of Unuk; Subgrade Construction; Solid Rock/End Haul/Drill & Blast	258,000. m3	0.05	1.00	13,377.78	103.68	1,387,008	10.56	2,724,480	3.26	842,112	0.00	0	19.20	4,953,600
P13-1.16-5135.00	Coulter Creek Access Road - East of Unuk; Subgrade Construction; Rock Scaling & Rock Bolting	6,000. m	0.31	1.00	1,866.67	103.68	193,536	63.36	380,160	19.58	117,504	0.00	0	115.20	691,200
P13-1.16-5136.00	Coulter Creek Access Road - East of Unuk; Road Base and Surfacing; Select Granular Base (surfacing)	8,700. m3	0.02	1.00	171.11	103.68	17,741	4.01	34,848	1.24	10,771	0.00	0	7.28	63,360
P13-1.16-5137.00	Coulter Creek Access Road - East of Unuk; Drainage Culverts; 600 mm dia. CSP	400. lm	0.53	1.00	213.89	103.68	22,176	79.20	31,680	23.76	9,504	0.00	0	158.40	63,360
P13-1.16-5138.00	Coulter Creek Access Road - East of Unuk; Drainage Culverts; 2740 mm dia. CSP	60. m	5.67	1.00	340.28	103.68	35,280	840.00	50,400	252.00	15,120	0.00	0	1,680.00	100,800
P13-1.16-5139.00	Coulter Creek Access Road - East of Unuk; Drainage Culverts; Riprap (All Classes)	500. m3	0.21	1.00	106.94	103.68	11,088	31.68	15,840	9.50	4,752	0.00	0	63.36	31,680
P13-1.16-5141.00	Coulter Creek Access Road - East of Unuk including Mitchell Bridge; Site Preparation; Right-of-Way Logging	10,000. m3	0.09	1.00	855.56	103.68	88,704	17.42	174,240	5.39	53,856	0.00	0	31.68	316,800
P13-1.16-5142.00	Coulter Creek Access Road - East of Unuk including Mitchell Bridge; Site Preparation; Clearing & Grubbing	26. ha	8.38	1.00	217.78	103.68	22,579	1,705.85	44,352	527.26	13,709	0.00	0	3,101.54	80,640
P13-1.16-5143.00	Coulter Creek Access Road - East of Unuk including Mitchell Bridge; Subgrade Construction; O.M. (Other Material)	22,000. m3	0.02	1.00	365.56	103.68	37,901	3.38	74,448	1.05	23,011	0.00	0	6.15	135,360
P13-1.16-5144.00	Coulter Creek Access Road - East of Unuk including Mitchell Bridge; Subgrade Construction; Rippable Rock	13,000. m3	0.02	1.00	280.00	103.68	29,030	4.39	57,024	1.36	17,626	0.00	0	7.98	103,680
P13-1.16-5145.00	Coulter Creek Access Road - East of Unuk including Mitchell Bridge; Subgrade Construction; Solid Rock/End Haul/Drill & Blast	249,000. m3	0.06	1.00	16,138.89	103.68	1,673,280	13.20	3,286,800	4.08	1,015,920	0.00	0	24.00	5,976,000
P13-1.16-5146.00	Coulter Creek Access Road - East of Unuk including Mitchell Bridge; Subgrade Construction; Rock Scaling & Rock Bolting	15,000. m	0.31	1.00	4,666.67	103.68	483,840	63.36	950,400	19.58	293,760	0.00	0	115.20	1,728,000
P13-1.16-5147.00	Coulter Creek Access Road - East of Unuk including Mitchell Bridge; Subgrade Construction; Overhaul	400,000. km-	0.01	1.00	3,111.11	103.68	322,560	1.58	633,600	0.49	195,840	0.00	0	2.88	1,152,000



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
P13-1.16-5148.00	Coulter Creek Access Road - East of Unuk including Mitchell Bridge; Road Base and Surfacing; Select Granular Base (surfacing)	17,250. m3	0.02	1.00	337.04	103.68	34,944	3.98	68,640	1.23	21,216	0.00	0	7.23	124,800
P13-1.16-5149.00	Coulter Creek Access Road - East of Unuk including Mitchell Bridge; Drainage Culverts; 600 mm dia. CSP	740. lm	0.54	1.00	398.61	103.68	41,328	79.78	59,040	23.94	17,712	0.00	0	159.57	118,080
P13-1.16-5150.00	Coulter Creek Access Road - East of Unuk including Mitchell Bridge; Drainage Culverts; 800 mm dia. CSP	35. lm	0.74	1.00	25.93	103.68	2,688	109.71	3,840	32.91	1,152	0.00	0	219.43	7,680
P13-1.16-5151.00	Coulter Creek Access Road - East of Unuk including Mitchell Bridge; Drainage Culverts; 1000 mm dia. CSP	65. lm	1.00	1.00	64.81	103.68	6,720	147.69	9,600	44.31	2,880	0.00	0	295.38	19,200
P13-1.16-5152.00	Coulter Creek Access Road - East of Unuk including Mitchell Bridge; Drainage Culverts; 1200 mm dia. CSP	65. lm	1.30	1.00	84.26	103.68	8,736	192.00	12,480	57.60	3,744	0.00	0	384.00	24,960
P13-1.16-5153.00	Coulter Creek Access Road - East of Unuk including Mitchell Bridge; Drainage Culverts; 1400 mm dia. CSP	40. lm	1.94	1.00	77.78	103.68	8,064	288.00	11,520	86.40	3,456	0.00	0	576.00	23,040
P13-1.16-5154.00	Coulter Creek Access Road - East of Unuk including Mitchell Bridge; Drainage Culverts; 1800 mm dia. CSP	40. lm	3.24	1.00	129.63	103.68	13,440	480.00	19,200	144.00	5,760	0.00	0	960.00	38,400
P13-1.16-5155.00	Coulter Creek Access Road - East of Unuk including Mitchell Bridge; Drainage Culverts; 2000 mm dia. CSP	26. lm	3.99	1.00	103.70	103.68	10,752	590.77	15,360	177.23	4,608	0.00	0	1,181.54	30,720
P13-1.16-5156.00	Coulter Creek Access Road - East of Unuk including Mitchell Bridge; Drainage Culverts; 2200 mm dia. CSP	22. lm	4.57	1.00	100.46	103.68	10,416	676.36	14,880	202.91	4,464	0.00	0	1,352.73	29,760
P13-1.16-5157.00	Coulter Creek Access Road - East of Unuk including Mitchell Bridge; Drainage Culverts; Riprap (All Classes)	800. m3	0.21	1.00	168.52	103.68	17,472	31.20	24,960	9.36	7,488	0.00	0	62.40	49,920
P13-1.16-5158.00	Coulter Creek Access Road - East of Unuk including Mitchell Bridge; Avanelanche Protection; Earth Berm / Misc.	2,500. m	0.65	1.00	1,620.37	103.68	168,000	96.00	240,000	28.80	72,000	0.00	0	192.00	480,000
P13-1.16-5159.00	Coulter Creek Access Road - East of Unuk including Mitchell Bridge; Avanelanche Protection; Snow Sheds	370. m	97.22	1.00	35,972.22	103.68	3,729,600	14,400.00	5,328,000	4,320.00	1,598,400	0.00	0	28,800.00	10,656,000
P13-1.16-5160.00	Coulter Creek Access Road - East of Unuk including Mitchell Bridge; Bridge Construction 20m - 100m spans (2 bridges)	60. m	51.85	1.00	3,111.11	103.68	322,560	7,680.00	460,800	2,304.00	138,240	0.00	0	15,360.00	921,600
P13-1.16-5162.00	Coulter Creek Access Road - South of Mitchell; Site Preparation; Right-of-Way Logging	5,000. m3	0.09	1.00	427.78	103.68	44,352	17.42	87,120	5.39	26,928	0.00	0	31.68	158,400
P13-1.16-5163.00	Coulter Creek Access Road - South of Mitchell; Site Preparation; Clearing & Grubbing	13. ha	8.38	1.00	108.89	103.68	11,290	1,705.85	22,176	527.26	6,854	0.00	0	3,101.54	40,320
P13-1.16-5164.00	Coulter Creek Access Road - South of Mitchell; Subgrade Construction; O.M. (Other Material)	160,000. m3	0.02	1.00	2,654.81	103.68	275,251	3.38	540,672	1.04	167,117	0.00	0	6.14	983,040



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
P13-1.16-5165.00	Coulter Creek Access Road - South of Mitchell; Subgrade Construction; Rippable Rock	2,500. m3	0.02	1.00	54.44	103.68	5,645	4.44	11,088	1.37	3,427	0.00	0	8.06	20,160
P13-1.16-5166.00	Coulter Creek Access Road - South of Mitchell; Subgrade Construction; Solid Rock/End Haul/Drill & Blast	44,000. m3	0.05	1.00	2,281.48	103.68	236,544	10.56	464,640	3.26	143,616	0.00	0	19.20	844,800
P13-1.16-5167.00	Coulter Creek Access Road - South of Mitchell; Road Base and Surfacing; Select Granular Base (surfacing)	6,350. m3	0.02	1.00	124.44	103.68	12,902	3.99	25,344	1.23	7,834	0.00	0	7.26	46,080
P13-1.16-5168.00	Coulter Creek Access Road - South of Mitchell; Drainage Culverts; 600 mm dia. CSP	300. m	0.54	1.00	162.04	103.68	16,800	80.00	24,000	24.00	7,200	0.00	0	160.00	48,000
P13-1.16-5169.00	Coulter Creek Access Road - South of Mitchell; Drainage Culverts; Riprap (All Classes)	400. m3	0.21	1.00	84.26	103.68	8,736	31.20	12,480	9.36	3,744	0.00	0	62.40	24,960
P13 - Coulter Creek Access Road (CCAR) - 34km Subtotal					151,943.43		15,753,494		27,770,063		8,506,521		0		52,030,079
<u>P14 - Hwy 37 Intersection Upgrade</u>															
P14-1.16-5172.00	Hwy 37 Intersection Upgrade	1. LS	3,500.00	1.00	3,500.00	103.68	362,880	712,799.98	712,800	220,320.00	220,320	0.00	0	1,295,999.97	1,296,000
P14 - Hwy 37 Intersection Upgrade Subtotal					3,500.00		362,880		712,800		220,320		0		1,296,000
<u>P15 - Treaty Main Access Road (32km)</u>															
P15-1.16-5174.00	Site Preparation; Right-of-Way Logging	27,500. m3	0.09	1.00	2,354.07	103.68	244,070	17.43	479,424	5.39	148,186	0.00	0	31.70	871,680
P15-1.16-5175.00	Site Preparation; Clearing & Grubbing	110. ha	8.30	1.00	912.59	103.68	94,618	1,689.60	185,856	522.24	57,446	0.00	0	3,072.00	337,920
P15-1.16-5176.00	Subgrade Construction; O.M. (Other Material)	435,000. m3	0.02	1.00	7,217.78	103.68	748,339	3.38	1,469,952	1.04	454,349	0.00	0	6.14	2,672,640
P15-1.16-5177.00	Subgrade Construction; Rippable Rock	13,000. m3	0.02	1.00	280.00	103.68	29,030	4.39	57,024	1.36	17,626	0.00	0	7.98	103,680
P15-1.16-5178.00	Subgrade Construction; Solid Rock/End Haul/Drill & Blast	253,000. m3	0.05	1.00	13,118.52	103.68	1,360,128	10.56	2,671,680	3.26	825,792	0.00	0	19.20	4,857,600
P15-1.16-5179.00	Subgrade Construction; Rock Scaling & Rock Bolting	10,000. m	0.31	1.00	3,111.11	103.68	322,560	63.36	633,600	19.58	195,840	0.00	0	115.20	1,152,000
P15-1.16-5180.00	Subgrade Construction; Overhaul	100,000. km-	0.01	1.00	777.78	103.68	80,640	1.58	158,400	0.49	48,960	0.00	0	2.88	288,000
P15-1.16-5181.00	Road Base and Surfacing; Select Granular Base (surfacing)	74,460. m3	0.02	1.00	1,449.26	103.68	150,259	3.96	295,152	1.23	91,229	0.00	0	7.21	536,640



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
P15-1.16-5182.00	Drainage Culverts; 600 mm dia. CSP (est)	2,000. m	0.53	1.00	1,069.44	103.68	110,880	79.20	158,400	23.76	47,520	0.00	0	158.40	316,800
P15-1.16-5183.00	Drainage Culverts; 800 mm dia. CSP	420. m	0.72	1.00	301.39	103.68	31,248	106.29	44,640	31.89	13,392	0.00	0	212.57	89,280
P15-1.16-5184.00	Drainage Culverts; 1000 mm dia. CSP	1,000. m	0.97	1.00	972.22	103.68	100,800	144.00	144,000	43.20	43,200	0.00	0	288.00	288,000
P15-1.16-5185.00	Drainage Culverts; 1200 mm dia. CSP	225. m	1.30	1.00	291.67	103.68	30,240	192.00	43,200	57.60	12,960	0.00	0	384.00	86,400
P15-1.16-5186.00	Drainage Culverts; 1400 mm dia. CSP	65. m	1.94	1.00	126.39	103.68	13,104	288.00	18,720	86.40	5,616	0.00	0	576.00	37,440
P15-1.16-5187.00	Drainage Culverts; 1600 mm dia. CSP	160. m	2.59	1.00	414.81	103.68	43,008	384.00	61,440	115.20	18,432	0.00	0	768.00	122,880
P15-1.16-5188.00	Drainage Culverts; 1800 mm dia. CSP	72. m	3.24	1.00	233.33	103.68	24,192	480.00	34,560	144.00	10,368	0.00	0	960.00	69,120
P15-1.16-5189.00	Drainage Culverts; 2000 mm dia. CSP	100. m	3.89	1.00	388.89	103.68	40,320	576.00	57,600	172.80	17,280	0.00	0	1,152.00	115,200
P15-1.16-5190.00	Drainage Culverts; 2200 mm dia. CSP	62. m	4.55	1.00	281.94	103.68	29,232	673.55	41,760	202.06	12,528	0.00	0	1,347.10	83,520
P15-1.16-5191.00	Drainage Culverts; 2740 mm dia. CSP	35. m	5.74	1.00	200.93	103.68	20,832	850.29	29,760	255.09	8,928	0.00	0	1,700.57	59,520
P15-1.16-5192.00	Drainage Culverts; Open Bottom Arch (3660mm span)	24. m3	9.72	1.00	233.33	103.68	24,192	1,440.00	34,560	432.00	10,368	0.00	0	2,880.00	69,120
P15-1.16-5193.00	Drainage Culverts; Riprap (All Classes)	4,000. m3	0.21	1.00	842.59	103.68	87,360	31.20	124,800	9.36	37,440	0.00	0	62.40	249,600
P15-1.16-5194.00	Drainage Culverts; MSE Retaining Walls	200. m3	1.13	1.00	226.85	103.68	23,520	168.00	33,600	50.40	10,080	0.00	0	336.00	67,200
P15-1.16-5195.00	Avanlanche Protection; Earth Berm / Misc.	3,000. m	0.65	1.00	1,944.44	103.68	201,600	96.00	288,000	28.80	86,400	0.00	0	192.00	576,000
P15-1.16-5196.00	Bridge Construction 9m - 20m spans (3)	51. m	40.54	1.00	2,067.59	103.68	214,368	6,004.71	306,240	1,801.41	91,872	0.00	0	12,009.41	612,480
P15-1.16-5197.00	Bridge Construction 20m - 100m spans (5 bridges - 2 multi-span)	230. m	51.85	1.00	11,925.93	103.68	1,236,480	7,680.00	1,766,400	2,304.00	529,920	0.00	0	15,360.00	3,532,800



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
P15-1.16-5198.00	Mobilization & Demobilization (norm. 5%)	1. LS	1,944.44	1.00	1,944.44	103.68	201,600	395,999.99	396,000	122,400.00	122,400	0.00	0	719,999.98	720,000
P15-1.16-5199.00	Crew Transportation (Included in Construction Indirects)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P15-1.16-5200.00	Camp cost (Included in Construction Indirects)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P15-1.16-5201.00	Helicopter Support (Included in Construction Indirects)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P15-1.16-5202.00	First Aid & Supervision	1,500. man	4.41	1.00	6,611.11	103.68	685,440	897.60	1,346,400	277.44	416,160	0.00	0	1,632.00	2,448,000
P15-1.16-5203.00	Construction Surveys	300. cre	6.48	1.00	1,944.44	103.68	201,600	1,320.00	396,000	408.00	122,400	0.00	0	2,400.00	720,000
P15 - Treaty Main Access Road (32km) Subtotal					61,242.87		6,349,661		11,277,168		3,456,691		0		21,083,520
<u>P16b - North Treaty Lower Access Road (11.7km)</u>															
P16b-1.16-5206.00	Site Preparation; Right-of-Way Logging	9,000. m3	0.09	1.00	770.00	103.68	79,834	17.42	156,816	5.39	48,470	0.00	0	31.68	285,120
P16b-1.16-5207.00	Site Preparation; Clearing & Grubbing	35. ha	8.30	1.00	290.37	103.68	30,106	1,689.60	59,136	522.24	18,278	0.00	0	3,072.00	107,520
P16b-1.16-5208.00	Subgrade Construction; O.M. (Other Material)	227,000. m3	0.02	1.00	3,767.04	103.68	390,566	3.38	767,184	1.04	237,130	0.00	0	6.14	1,394,880
P16b-1.16-5209.00	Subgrade Construction; Rippable Rock	26,000. m3	0.02	1.00	560.00	103.68	58,061	4.39	114,048	1.36	35,251	0.00	0	7.98	207,360
P16b-1.16-5210.00	Subgrade Construction; Solid Rock/End Haul/Drill & Blast	233,000. m3	0.05	1.00	12,081.48	103.68	1,252,608	10.56	2,460,480	3.26	760,512	0.00	0	19.20	4,473,600
P16b-1.16-5211.00	Subgrade Construction; Rock Scaling & Rock Bolting	1,000. m	0.31	1.00	311.11	103.68	32,256	63.36	63,360	19.58	19,584	0.00	0	115.20	115,200
P16b-1.16-5212.00	Subgrade Construction; Overhaul	350,000. km-	0.01	1.00	2,722.22	103.68	282,240	1.58	554,400	0.49	171,360	0.00	0	2.88	1,008,000
P16b-1.16-5213.00	Road Base and Surfacing; Select Granular Base (surfacing)	30,100. m3	0.02	1.00	585.93	103.68	60,749	3.96	119,328	1.23	36,883	0.00	0	7.21	216,960
P16b-1.16-5214.00	Drainage Culverts; 600 mm dia. CSP	770. m	0.54	1.00	414.81	103.68	43,008	79.79	61,440	23.94	18,432	0.00	0	159.58	122,880



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
P16b-1.16-5215.00	Drainage Culverts; 800 mm dia. CSP	100. m	0.71	1.00	71.30	103.68	7,392	105.60	10,560	31.68	3,168	0.00	0	211.20	21,120
P16b-1.16-5216.00	Drainage Culverts; 1000 mm dia. CSP	30. m	0.97	1.00	29.17	103.68	3,024	144.00	4,320	43.20	1,296	0.00	0	288.00	8,640
P16b-1.16-5217.00	Drainage Culverts; Riprap (All Classes)	300. m3	0.22	1.00	64.81	103.68	6,720	32.00	9,600	9.60	2,880	0.00	0	64.00	19,200
P16b-1.16-5218.00	Avanlanche Protection; Earth Berm / Misc.	500. m	0.65	1.00	324.07	103.68	33,600	96.00	48,000	28.80	14,400	0.00	0	192.00	96,000
P16b-1.16-5219.00	Mobilization & Demobilization (norm. 5%)	1. LS	1,296.30	1.00	1,296.30	103.68	134,400	263,999.99	264,000	81,600.00	81,600	0.00	0	479,999.99	480,000
P16b-1.16-5220.00	Crew Transportation (Included in Construction Indirects)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16b-1.16-5221.00	Camp cost (Included in Construction Indirects)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16b-1.16-5222.00	Helicopter Support (Included in Construction Indirects)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16b-1.16-5223.00	First Aid & Supervision	350. man	4.41	1.00	1,542.59	103.68	159,936	897.60	314,160	277.44	97,104	0.00	0	1,632.00	571,200
P16b-1.16-5224.00	Construction Surveys	120. cre	6.48	1.00	777.78	103.68	80,640	1,320.00	158,400	408.00	48,960	0.00	0	2,400.00	288,000
P16b - North Treaty Lower Access Road (11.7km) Subtotal					25,608.98		2,655,139		5,165,232		1,595,309		0		9,415,680
<u>P16c - North Treaty Upper Access Road (3.1km) (Sustaining)</u>															
P16c-1.16-5227.00	[Y20] - Phase 1 (includes Uphill Cutoff Ditch); Site Preparation; Right-of-Way Logging, (Sustaining Capital CAD\$99,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5228.00	[Y20] - Phase 1 (includes Uphill Cutoff Ditch); Site Preparation; Clearing & Grubbing, (Sustaining Capital CAD\$32,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5229.00	[Y20] - Phase 1 (includes Uphill Cutoff Ditch); Subgrade Construction; O.M. (Other Material), (Sustaining Capital CAD\$461,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5230.00	[Y20] - Phase 1 (includes Uphill Cutoff Ditch); Subgrade Construction; Rippable Rock, (Sustaining Capital CAD\$183,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5231.00	[Y20] - Phase 1 (includes Uphill Cutoff Ditch); Subgrade Construction; Solid Rock/End Haul/Drill & Blast, (Sustaining Capital CAD\$3,860,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
P16c-1.16-5232.00	[Y20] - Phase 1 (includes Uphill Cutoff Ditch); Subgrade Construction; Rock Scaling & Rock Bolting, (Sustaining Capital CAD\$48,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5233.00	[Y20] - Phase 1 (includes Uphill Cutoff Ditch); Subgrade Construction; Overhaul, (Sustaining Capital CAD\$900,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5234.00	[Y20] - Phase 1 (includes Uphill Cutoff Ditch); Road Base and Surfacing; Select Granular Base (surfacing), (Sustaining Capital CAD\$60,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5235.00	[Y20] - Phase 1 (includes Uphill Cutoff Ditch); Drainage Culverts; 600 mm dia. CSP, (Sustaining Capital CAD\$53,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5236.00	[Y20] - Phase 1 (includes Uphill Cutoff Ditch); Drainage Culverts; Riprap (All Classes), (Sustaining Capital CAD\$4,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5237.00	[Y20] - Phase 1 (includes Uphill Cutoff Ditch); Mobilization & Demobilization (norm. 5%)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5238.00	[Y20] - Phase 1 (includes Uphill Cutoff Ditch); Crew Transportation (Included in Construction Indirects)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5239.00	[Y20] - Phase 1 (includes Uphill Cutoff Ditch); Camp cost (Included in Construction Indirects)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5240.00	[Y20] - Phase 1 (includes Uphill Cutoff Ditch); First Aid & Supervision, (Sustaining Capital CAD\$238,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5241.00	[Y20] - Phase 1 (includes Uphill Cutoff Ditch); Construction Surveys, (Sustaining Capital CAD\$75,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5243.00	[Y20] - Phase 2 (Intersection with Treaty Main); Site Preparation; Right-of-Way Logging, (Sustaining Capital CAD\$132,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5244.00	[Y20] - Phase 2 (Intersection with Treaty Main); Site Preparation; Clearing & Grubbing, (Sustaining Capital CAD\$48,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5245.00	[Y20] - Phase 2 (Intersection with Treaty Main); Subgrade Construction; O.M. (Other Material), (Sustaining Capital CAD\$538,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5246.00	[Y20] - Phase 2 (Intersection with Treaty Main); Subgrade Construction; Rippable Rock, (Sustaining Capital CAD\$208,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5247.00	[Y20] - Phase 2 (Intersection with Treaty Main); Subgrade Construction; Solid Rock/End Haul/Drill & Blast, (Sustaining Capital CAD\$4,520,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5248.00	[Y20] - Phase 2 (Intersection with Treaty Main); Subgrade Construction; Rock Scaling & Rock Bolting, (Sustaining Capital CAD\$72,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
P16c-1.16-5249.00	[Y20] - Phase 2 (Intersection with Treaty Main); Subgrade Construction; Overhaul, (Sustaining Capital CAD\$1,500,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5250.00	[Y20] - Phase 2 (Intersection with Treaty Main); Road Base and Surfacing; Select Granular Base (surfacing), (Sustaining Capital CAD\$93,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5251.00	[Y20] - Phase 2 (Intersection with Treaty Main); Drainage Culverts; 600 mm dia. CSP, (Sustaining Capital CAD\$76,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5252.00	[Y20] - Phase 2 (Intersection with Treaty Main); Drainage Culverts; 800 mm dia. CSP, (Sustaining Capital CAD\$22,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5253.00	[Y20] - Phase 2 (Intersection with Treaty Main); Drainage Culverts; 1000 mm dia. CSP, (Sustaining Capital CAD\$9,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5254.00	[Y20] - Phase 2 (Intersection with Treaty Main); Drainage Culverts; Riprap (All Classes), (Sustaining Capital CAD\$10,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5255.00	[Y20] - Phase 2 (Intersection with Treaty Main); Crew Transportation (Included in Construction Indirects)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5256.00	[Y20] - Phase 2 (Intersection with Treaty Main); Camp cost (Included in Construction Indirects)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5257.00	[Y20] - Phase 2 (Intersection with Treaty Main); First Aid & Supervision, (Sustaining Capital CAD\$357,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c-1.16-5258.00	[Y20] - Phase 2 (Intersection with Treaty Main); Construction Surveys, (Sustaining Capital CAD\$125,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16c - North Treaty Upper Access Road (3.1km) (Sustaining) Subtotal					0.00	0	0	0	0	0	0	0	0	0	0
<u>P17 - Eskay Creek Existing Access Road Improvement</u>															
P17-1.16-5261.00	Eskay Creek Existing Access Road Improvement Allowance	1. lot	3,240.74	1.00	3,240.74	103.68	336,000	479,999.99	480,000	144,000.00	144,000	0.00	0	959,999.98	960,000
P17 - Eskay Creek Existing Access Road Improvement Subtotal					3,240.74	336,000	480,000	144,000	0	0	0	0	0	959,999.98	960,000
<u>P18 - Construction Access Adit Road (12km)</u>															
P18-1.16-5263.00	Site Preparation; Right-of-Way Logging	2,500. m3	0.09	1.00	215.19	103.68	22,310	17.53	43,824	5.42	13,546	0.00	0	31.87	79,680
P18-1.16-5264.00	Site Preparation; Clearing & Grubbing	12. ha	8.43	1.00	101.11	103.68	10,483	1,716.00	20,592	530.40	6,365	0.00	0	3,120.00	37,440
P18-1.16-5265.00	Subgrade Construction; O.M. (Other Material)	27,000. m3	0.02	1.00	448.52	103.68	46,502	3.38	91,344	1.05	28,234	0.00	0	6.15	166,080



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
P18-1.16-5266.00	Subgrade Construction; Rippable Rock	8,000. m3	0.02	1.00	173.70	103.68	18,010	4.42	35,376	1.37	10,934	0.00	0	8.04	64,320
P18-1.16-5267.00	Subgrade Construction; Solid Rock/End Haul/Drill & Blast	72,000. m3	0.05	1.00	3,733.33	103.68	387,072	10.56	760,320	3.26	235,008	0.00	0	19.20	1,382,400
P18-1.16-5268.00	Subgrade Construction; Rock Scaling & Rock Bolting	500. m	0.26	1.00	129.63	103.68	13,440	52.80	26,400	16.32	8,160	0.00	0	96.00	48,000
P18-1.16-5269.00	Subgrade Construction; Overhaul	25,000. km-	0.01	1.00	194.44	103.68	20,160	1.58	39,600	0.49	12,240	0.00	0	2.88	72,000
P18-1.16-5270.00	Road Base and Surfacing; Select Granular Base (surfacing)	7,310. m3	0.02	1.00	142.59	103.68	14,784	3.97	29,040	1.23	8,976	0.00	0	7.22	52,800
P18-1.16-5271.00	Drainage Culverts; 600 mm dia. CSP	400. lm	0.53	1.00	213.89	103.68	22,176	79.20	31,680	23.76	9,504	0.00	0	158.40	63,360
P18-1.16-5272.00	Drainage Culverts; Riprap (All Classes)	200. m3	0.21	1.00	42.13	103.68	4,368	31.20	6,240	9.36	1,872	0.00	0	62.40	12,480
P18-1.16-5273.00	Avanlanche Protection; Earth Berm	300. m	0.65	1.00	194.44	103.68	20,160	96.00	28,800	28.80	8,640	0.00	0	192.00	57,600
P18-1.16-5274.00	Crew Transportation (Included in Construction Indirects)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P18-1.16-5275.00	Camp cost (Included in Construction Indirects)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P18-1.16-5276.00	Helicopter Support (Included in Construction Indirects)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P18-1.16-5277.00	First Aid & Supervision	200. man	4.41	1.00	881.48	103.68	91,392	897.60	179,520	277.44	55,488	0.00	0	1,632.00	326,400
P18-1.16-5278.00	Construction Surveys	40. cre	6.48	1.00	259.26	103.68	26,880	1,320.00	52,800	408.00	16,320	0.00	0	2,400.00	96,000
P18-1.16-5281.00	Site Preparation; Right-of-Way Logging	3,000. m3	0.09	1.00	256.67	103.68	26,611	17.42	52,272	5.39	16,157	0.00	0	31.68	95,040
P18-1.16-5282.00	Site Preparation; Clearing & Grubbing	12. ha	8.43	1.00	101.11	103.68	10,483	1,716.00	20,592	530.40	6,365	0.00	0	3,120.00	37,440
P18-1.16-5283.00	Subgrade Construction; O.M. (Other Material)	76,000. m3	0.02	1.00	1,262.59	103.68	130,906	3.38	257,136	1.05	79,478	0.00	0	6.15	467,520



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
P18-1.16-5284.00	Subgrade Construction; Rippable Rock	23,000. m3	0.02	1.00	495.19	103.68	51,341	4.38	100,848	1.36	31,171	0.00	0	7.97	183,360
P18-1.16-5285.00	Subgrade Construction; Solid Rock/End Haul/Drill & Blast	207,000. m3	0.05	1.00	10,733.33	103.68	1,112,832	10.56	2,185,920	3.26	675,648	0.00	0	19.20	3,974,400
P18-1.16-5286.00	Subgrade Construction; Rock Scaling & Rock Bolting	1,000. m	0.31	1.00	311.11	103.68	32,256	63.36	63,360	19.58	19,584	0.00	0	115.20	115,200
P18-1.16-5287.00	Subgrade Construction; Overhaul	300,000. km-	0.01	1.00	2,333.33	103.68	241,920	1.58	475,200	0.49	146,880	0.00	0	2.88	864,000
P18-1.16-5288.00	Road Base and Surfacing; Select Granular Base (surfacing)	30,100. m3	0.02	1.00	585.93	103.68	60,749	3.96	119,328	1.23	36,883	0.00	0	7.21	216,960
P18-1.16-5289.00	Crew Transportation (Included in Construction Indirects)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P18-1.16-5290.00	Camp cost (Included in Construction Indirects)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P18-1.16-5291.00	First Aid & Supervision	100. man	4.41	1.00	440.74	103.68	45,696	897.60	89,760	277.44	27,744	0.00	0	1,632.00	163,200
P18-1.16-5292.00	Construction Surveys	30. cre	6.48	1.00	194.44	103.68	20,160	1,320.00	39,600	408.00	12,240	0.00	0	2,400.00	72,000
P18 - Construction Access Adit Road (12km) Subtotal					23,444.17		2,430,691		4,749,552		1,467,437		0		8,647,680
<u>P21 - Temporary Winter Access Roads</u>															
P21-1.15-5295.00	Frank Mackie Glacier Route (41.7km) - road construction, maintenance including equipment, labour, 2 x 30men camps, catering , hauling costs, mob and demob	1. lot	66,647.44	1.00	66,647.44	103.68	6,910,006	1,100,534.38	1,100,534	8,652,691.97	8,652,692	0.00	0	16,663,232.51	16,663,233
P21-1.15-5296.00	Frank Mackie Glacier Route (41.7km) - sewage treatment plant for both camps	2. lot	120.00	1.00	240.00	103.68	24,883	0.00	0	0.00	0	0.00	0	12,441.60	24,883
P21-1.15-5297.00	Frank Mackie Glacier Route (41.7km) - avanlanche control crew (assumed 4 men x 6 mths)	1. lot	7,200.00	1.00	7,200.00	103.68	746,496	5,760.00	5,760	0.00	0	0.00	0	752,255.98	752,256
P21-1.15-5298.00	Frank Mackie Glacier Route (41.7km) - fuel costs	800,000. L	0.00	1.00	0.00	103.68	0	0.96	768,000	0.00	0	0.00	0	0.96	768,000
P21-1.15-5299.00	Frank Mackie Glacier Route (41.7km) - transport labour from Terrace, BC to Granduc ; Included in Indirect	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P21-1.15-5300.00	Frank Mackie Glacier Route (41.7km) - pre-construction scouting trip (by helicopter) ; Included in Indirect	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
P21-1.15-5301.00	Frank Mackie Glacier Route (41.7km) - Transport equipment by Helicopter (assumed 300 half hour trips @ \$500/trip) ; Included in Indirect	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P21-1.15-5302.00	Frank Mackie Glacier Route (41.7km) - clearing or merchantable timber ; not included	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P21 - Temporary Winter Access Roads Subtotal					74,087.44		7,681,385		1,874,294		8,652,692		0		18,208,372
<u>Q10 - Off-site Concentrate Storage at Stewart, BC</u>															
Q10-1.18-5304.00	Site Preparation including Earthworks and Site Preparation	1. lot	11,574.07	1.00	11,574.07	103.68	1,200,000	1,199,999.97	1,200,000	2,399,999.95	2,400,000	0.00	0	4,799,999.89	4,800,000
Q10-1.18-5305.00	Concentrate truck receiving station (Including Building etc)	1. lot	11,574.07	1.00	11,574.07	103.68	1,200,000	1,199,999.97	1,200,000	2,399,999.95	2,400,000	0.00	0	4,799,999.89	4,800,000
Q10-1.18-5306.00	Pavement	1. lot	4,444.44	1.00	4,444.44	103.68	460,800	479,999.99	480,000	19,200.00	19,200	0.00	0	959,999.98	960,000
Q10-1.18-5307.00	Sheet pile Wall	1. lot	34,722.22	1.00	34,722.22	103.68	3,600,000	3,599,999.92	3,600,000	7,199,999.84	7,200,000	0.00	0	14,399,999.68	14,400,000
Q10-1.18-5308.00	Concentrate storage bldg 120x 55@ 5000/m2 (Bldg 6600m2 @ \$4700 per m2)	1. lot	86,111.11	1.00	86,111.11	103.68	8,928,000	19,343,999.57	19,344,000	1,487,999.97	1,488,000	0.00	0	29,759,999.33	29,759,999
Q10-1.18-5309.00	Conveyors , 600m @ 10,000/m incl dust collect	1. lot	15,277.78	1.00	15,277.78	103.68	1,584,000	3,431,999.92	3,432,000	263,999.99	264,000	0.00	0	5,279,999.88	5,280,000
Q10-1.18-5310.00	Shiploader Upgrade	1. lot	5,555.56	1.00	5,555.56	103.68	576,000	1,247,999.97	1,248,000	96,000.00	96,000	0.00	0	1,919,999.96	1,920,000
Q10-1.18-5311.00	FE Loaders	1. lot	0.00	1.00	0.00	103.68	0	0.00	0	0.00	0	479,999.99	480,000	479,999.99	480,000
Q10-1.18-5312.00	Lay down Areas (included)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Q10-1.18-5313.00	Environmental Issues (Fisheries/Oceans)Permits & Reclamation	1. lot	0.00	1.00	0.00	103.68	0	479,999.99	480,000	0.00	0	0.00	0	479,999.99	480,000
Q10-1.18-5314.00	Electrical – included	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Q10-1.18-5315.00	Trailers/Facilities - included	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Q10-1.18-5316.00	Tie-ins/Demolition/Abandon Existing Facilities	1. lot	1,157.41	1.00	1,157.41	103.68	120,000	120,000.00	120,000	239,999.99	240,000	0.00	0	479,999.99	480,000



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
Q10-1.18-5317.00	Barge Ramp Access	1. lot	2,314.81	1.00	2,314.81	103.68	240,000	239,999.99	240,000	479,999.99	480,000	0.00	0	959,999.98	960,000
Q10-1.18-5318.00	Cost adjustment to the cost reported in the 2010 study Allowance	1. lot	25,909.72	1.00	25,909.72	103.68	2,686,320	4,701,599.89	4,701,600	2,188,079.95	2,188,080	0.00	0	9,575,999.79	9,576,000
Q10 - Off-site Concentrate Storage at Stewart, BC Subtotal					198,641.20		20,595,120		36,045,599		16,775,280		480,000		73,895,998
X10 - Construction Indirects															
X10-91-5321.00	Site Indirects/ Common Distributables	1. lot	421,415.08	1.00	421,415.08	103.68	43,692,315	101,948,734.68	101,948,735	0.00	0	0.00	0	145,641,049.54	145,641,050
X10-91-5322.00	Construction Indirects (Tunnel)	1. lot	77,481.23	1.00	77,481.23	103.68	8,033,254	18,744,258.87	18,744,259	0.00	0	0.00	0	26,777,512.68	26,777,513
X10-91-5323.00	KSM direction and assistance for construction in areas of security, logistics, safety/training, environmental, community and governmental/permit management Allowance	1. lot	75,603.81	1.00	75,603.81	103.68	7,838,603	18,290,073.58	18,290,074	0.00	0	0.00	0	26,128,676.54	26,128,677
X10-91-5324.00	Tailings Management Facilities; Mobilization	1. LS	1,500.00	1.00	1,500.00	103.68	155,520	0.00	0	2,075,879.95	2,075,880	0.00	0	2,231,399.95	2,231,400
X10-91-5325.00	[>Y65] - Tailings Management Facilities; De-Mobilization, (Sustaining Capital CAD\$2,063,380)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X10-91-5326.00	Tailings Management Facilities; Construction Indirects	24. mth	2,120.00	1.00	50,880.00	120.00	6,105,600	86,004.48	2,064,107	69,237.12	1,661,691	0.00	0	409,641.59	9,831,398
X10-91-5327.00	Tunnel Construction; Overall Indirects [I-00]	1,287. DY	87.10	1.00	112,097.70	90.98	10,198,338	1,146.27	1,475,243	1,812.96	2,333,279	0.00	0	10,883.34	14,006,861
X10-91-5328.00	Tunnel Construction; Mitchell Indirects [I-10]	1,287. DY	60.20	1.00	77,477.40	93.51	7,245,270	1,184.71	1,524,727	1,331.28	1,713,357	0.00	0	8,145.57	10,483,354
X10-91-5329.00	Tunnel Construction; Upper Treaty Indirects [I-15-20-40]	1,287. DY	80.00	1.00	102,960.00	92.68	9,542,786	1,184.71	1,524,727	1,331.28	1,713,357	0.00	0	9,930.75	12,780,870
X10-91-5330.00	Tunnel Construction; Saddle Indirects [I-21-22-25-30]	638. DY	60.20	1.00	38,407.60	93.51	3,591,672	1,184.71	755,847	1,331.28	849,357	0.00	0	8,145.57	5,196,876
X10-91-5331.00	Tunnel Construction; Teigen Indirects [I-35]	638. DY	60.20	1.00	38,407.60	93.51	3,591,672	1,184.71	755,847	1,410.00	899,580	0.00	0	8,224.29	5,247,100
X10-91-5332.00	Tunnel Construction; Mitchell Diversion Indirects [I-60-130]	936. DY	120.40	1.00	112,694.40	93.51	10,538,574	2,334.15	2,184,762	2,505.12	2,344,792	0.00	0	16,098.43	15,068,129
X10-91-5333.00	Tunnel Construction; McTagg Diversion Indirects [I-140-240]	700. DY	120.40	1.00	84,280.00	93.51	7,881,412	2,334.15	1,633,903	2,505.12	1,753,584	0.00	0	16,098.43	11,268,900



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
X10-91-5334.00	Tunnel Construction; WSDT Construction Diversion Tunnel Indirects [I-250]	178. DY	76.70	1.00	13,652.60	92.11	1,257,551	1,184.71	210,879	1,410.00	250,980	0.00	0	9,659.60	1,719,410
X10-91-5335.00	[Y22] - Tunnel Construction; Sulphurets-Mitchell Conveyor Tunnel Indirects, (Sustaining Capital CAD\$5,194,388) [I-260-270]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X10-91-5336.00	Tunnel Construction; East Catchment Tunnels Indirects [I-280-290]	569. DY	60.20	1.00	34,253.80	93.51	3,203,231	1,184.71	674,102	1,410.00	802,290	0.00	0	8,224.29	4,679,623
X10-91-5337.00	Tunnel Diesel Requirement; Mitchel Teigen Tunnel	19,311,550. L	0.00	1.00	0.00	103.68	0	0.96	18,539,088	0.00	0	0.00	0	0.96	18,539,088
X10-91-5338.00	Tunnel Diesel Requirement; Mitchell Diversion Tunnels	11,260,191. L	0.00	1.00	0.00	103.68	0	0.96	10,809,783	0.00	0	0.00	0	0.96	10,809,783
X10-91-5339.00	Tunnel Diesel Requirement; McTagg Diversion Tunnels	16,359,886. L	0.00	1.00	0.00	103.68	0	0.96	15,705,490	0.00	0	0.00	0	0.96	15,705,490
X10-91-5340.00	Tunnel Diesel Requirement; WSDT Construction Diversion Tunnel	714,500. L	0.00	1.00	0.00	103.68	0	0.96	685,920	0.00	0	0.00	0	0.96	685,920
X10-91-5341.00	[Y22] - Tunnel Diesel Requirement; Sulphurets-Mitchell Conveyor Tunnel, (Sustaining Capital CAD\$3,221,100)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X10-91-5342.00	Tunnel Diesel Requirement; East Catchment Tunnel	2,420,710. L	0.00	1.00	0.00	103.68	0	0.96	2,323,882	0.00	0	0.00	0	0.96	2,323,882
X10-91-5343.00	TMCC Personnel Turn-arounds (based on 4000 trips x 16hrs @ \$55.00)	1. lot	0.00	1.00	0.00	103.68	0	3,379,199.92	3,379,200	0.00	0	0.00	0	3,379,199.92	3,379,200
X10-91-5344.00	TMCC Personnel Turn-arounds (Replacemts)	1. lot	0.00	1.00	0.00	103.68	0	337,919.99	337,920	0.00	0	0.00	0	337,919.99	337,920
X10-91-5345.00	TMCC Personnel Turn-arounds Air Flights to Terrace (based on 4wk in,2 wks out) 4,000 trips @ \$500 per round trip	1. lot	0.00	1.00	0.00	103.68	0	1,919,999.96	1,920,000	0.00	0	0.00	0	1,919,999.96	1,920,000
X10-91-5346.00	TMCC Personnel Turn-arounds Travel Expenses	1. sum	0.00	1.00	0.00	103.68	0	479,999.99	480,000	0.00	0	0.00	0	479,999.99	480,000
X10-91-5347.00	Helicopter Costs Medivac Helicopter 4.5 years - Bell 210 (also use for servicing camp)	4.5 yrs	0.00	1.00	0.00	103.68	0	5,220,019.08	23,490,086	0.00	0	0.00	0	5,220,019.08	23,490,086
X10-91-5348.00	Helicopter Costs - Fuel for Medivac Helicopter 4.5 years - Bell 210	1. sum	0.00	1.00	0.00	103.68	0	2,375,999.95	2,376,000	0.00	0	0.00	0	2,375,999.95	2,376,000
X10-91-5349.00	Helicopter Costs Medivac Helicopter 2.5 years - Bell 210 (also use for servicing camp and smaller lifts)	2.5 yrs	0.00	1.00	0.00	103.68	0	5,220,019.08	13,050,048	0.00	0	0.00	0	5,220,019.08	13,050,048



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
X10-91-5350.00	Helicopter Costs - Fuel for Medivac Helicopter 2.5 years - Bell 210	1. sum	0.00	1.00	0.00	103.68	0	1,559,999.97	1,560,000	0.00	0	0.00	0	1,559,999.97	1,560,000
X10-91-5351.00	Helicopter Costs Medivac Helicopter Bell 210 - mob and demob	2. sum	0.00	1.00	0.00	103.68	0	96,000.00	192,000	0.00	0	0.00	0	96,000.00	192,000
X10-91-5352.00	Helicopter Costs Sikorski /equal helicopter (utilize for lift up to 5T) For information only	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X10-91-5353.00	Helicopter Costs Sikorski /equal helicopter (3 weeks) (tunnel equipment, camps and supplies) - Aug & Sept 2012	1. sum	0.00	1.00	0.00	103.68	0	1,199,999.97	1,200,000	0.00	0	0.00	0	1,199,999.97	1,200,000
X10-91-5354.00	Helicopter Costs Sikorski /equal helicopter (3 weeks) (base of glacier) - Dec 2012 (4days duration)	1. sum	0.00	1.00	0.00	103.68	0	239,999.99	240,000	0.00	0	0.00	0	239,999.99	240,000
X10-91-5355.00	Helicopter Costs Camp 11 (road building and camps) - Mar 2013	1. sum	0.00	1.00	0.00	103.68	0	383,999.99	384,000	0.00	0	0.00	0	383,999.99	384,000
X10-91-5356.00	Helicopter Costs Camp 4 (tunnelling equipment, U/G and surface equipment) - May 2013	1. sum	0.00	1.00	0.00	103.68	0	623,999.99	624,000	0.00	0	0.00	0	623,999.99	624,000
X10-91-5357.00	Helicopter Costs Camp 8 (road building equipment for Eskay Creek Road) - Mar 2013	1. sum	0.00	1.00	0.00	103.68	0	671,999.98	672,000	0.00	0	0.00	0	671,999.98	672,000
X10-91-5358.00	Helicopter Costs Miscellaneous work allowance	1. sum	0.00	1.00	0.00	103.68	0	287,999.99	288,000	0.00	0	0.00	0	287,999.99	288,000
X10-91-5359.00	Helicopter Costs - Fuel for Sikorski /equal helicopter	1. sum	0.00	1.00	0.00	103.68	0	1,151,999.97	1,152,000	0.00	0	0.00	0	1,151,999.97	1,152,000
X10-91-5360.00	Helicopter Costs Sikorski /equal helicopter - Mod and demob	1. sum	0.00	1.00	0.00	103.68	0	383,999.99	384,000	0.00	0	0.00	0	383,999.99	384,000
X10-91-5361.00	Helicopter Costs Sikorski /equal helicopter Standby time	1. sum	0.00	1.00	0.00	103.68	0	959,999.98	960,000	0.00	0	0.00	0	959,999.98	960,000
X10-91-5362.00	Helicopter Costs Skytrain (Lift from 5t to 10t) Sikroski 64 or Equal (deliver Tunnel, UG and Surface Equipment to Camps)	1. sum	0.00	1.00	0.00	103.68	0	4,799,999.89	4,800,000	0.00	0	0.00	0	4,799,999.89	4,800,000
X10-91-5363.00	Helicopter Costs - Fuel for Skytrain (Lift from 5t to 10t), included	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X10-91-5364.00	Helicopter Costs Skytrain - Mob-demob (Lift from 5t to 10t)	2. sum	0.00	1.00	0.00	103.68	0	239,999.99	480,000	0.00	0	0.00	0	239,999.99	480,000
X10-91-5365.00	Helicopter Costs Skytrain (Lift from 5t to 10t) Standby time	1. sum	0.00	1.00	0.00	103.68	0	479,999.99	480,000	0.00	0	0.00	0	479,999.99	480,000



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
X10-91-5366.00	Helicopter Costs Fuel Transportation (Based on 9000lbs max. lift capacity per flight)	6,660. hr	0.00	1.00	0.00	103.68	0	7,584.00	50,509,439	0.00	0	0.00	0	7,584.00	50,509,439
X10 - Construction Indirects Subtotal					1,241,111.22		122,875,799	308,810,067	16,398,148	0	448,084,013				
<u>X11 - Tunnels, Camps and Construction Site Power Supply</u>															
X11-91-5369.00	TP1 (5550kW Prime) - 4 modular units	1. lot	750.00	1.00	750.00	103.68	77,760	9,600.00	9,600	19,200.00	19,200	5,768,975.87	5,768,976	5,875,535.87	5,875,536
X11-91-5370.00	TP1 (5550kW Prime) - Install gensets	4. ea	250.00	1.00	1,000.00	177.60	177,600	4,800.00	19,200	0.00	0	0.00	0	49,200.00	196,800
X11-91-5371.00	TP1 (5550kW Prime) - Install switchgear enclosure	1. ea	150.00	1.00	150.00	177.60	26,640	4,800.00	4,800	0.00	0	0.00	0	31,440.00	31,440
X11-91-5372.00	TP1 (5550kW Prime) - Test & Commission	1. lot	200.00	1.00	200.00	177.60	35,520	0.00	0	0.00	0	0.00	0	35,520.00	35,520
X11-91-5373.00	TP1 (5550kW Prime) - Site preparation	1. lot	0.00	1.00	0.00	103.68	0	120,000.00	120,000	0.00	0	0.00	0	120,000.00	120,000
X11-91-5374.00	TP1 (5550kW Prime) - Foundations	60. m3	0.00	1.00	0.00	103.68	0	1,440.00	86,400	0.00	0	0.00	0	1,440.00	86,400
X11-91-5375.00	TP1 (5550kW Prime) - Fuel Storage 50,000 litre double walled environmental tanks	10. ea	100.00	1.00	1,000.00	103.68	103,680	57,600.00	576,000	960.00	9,600	0.00	0	68,928.00	689,280
X11-91-5376.00	TP1 (5550kW Prime) - Pumping System (Material supplied with gensets)	1. lot	300.00	1.00	300.00	103.68	31,104	0.00	0	0.00	0	0.00	0	31,104.00	31,104
X11-91-5377.00	TP1 (5550kW Prime) - Step-up transformer for tunnel, 4160 volts to 13.8 kV 5 MVA, installed cost	1. lot	150.00	1.00	150.00	103.68	15,552	4,800.00	4,800	4,800.00	4,800	172,800.00	172,800	197,952.00	197,952
X11-91-5378.00	TP1 (5550kW Prime) - Local power distribution system	1. lot	0.00	1.00	0.00	103.68	0	177,600.00	177,600	7,680.00	7,680	0.00	0	185,280.00	185,280
X11-91-5379.00	TP1 (5550kW Prime) - Freight	1. lot	0.00	1.00	0.00	103.68	0	0.00	0	57,600.00	57,600	0.00	0	57,600.00	57,600
X11-91-5380.00	TP2 (3000kW) - 4 modular units	1. lot	600.00	1.00	600.00	103.68	62,208	9,600.00	9,600	14,400.00	14,400	3,851,316.39	3,851,316	3,937,524.39	3,937,524
X11-91-5381.00	TP2 (3000kW) - Assemble gensets	4. ea	200.00	1.00	800.00	177.60	142,080	2,400.00	9,600	0.00	0	0.00	0	37,920.00	151,680
X11-91-5382.00	TP2 (3000kW) - Assemble switchgear enclosure	1. ea	150.00	1.00	150.00	177.60	26,640	2,400.00	2,400	0.00	0	0.00	0	29,040.00	29,040



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
X11-91-5383.00	TP2 (3000kW) - Test & Commission	1. lot	200.00	1.00	200.00	177.60	35,520	0.00	0	0.00	0	0.00	0	35,520.00	35,520
X11-91-5384.00	TP2 (3000kW) - Site preparation	1. lot	0.00	1.00	0.00	103.68	0	72,000.00	72,000	0.00	0	0.00	0	72,000.00	72,000
X11-91-5385.00	TP2 (3000kW) - Foundations	30. m3	0.00	1.00	0.00	103.68	0	1,920.00	57,600	0.00	0	0.00	0	1,920.00	57,600
X11-91-5386.00	TP2 (3000kW) - Fuel Storage 50,000 litre double walled environmental tanks	5. ea	100.00	1.00	500.00	103.68	51,840	57,600.00	288,000	960.00	4,800	0.00	0	68,928.00	344,640
X11-91-5387.00	TP2 (3000kW) - Pumping System	1. lot	300.00	1.00	300.00	103.68	31,104	0.00	0	48,000.00	48,000	0.00	0	79,104.00	79,104
X11-91-5388.00	TP2 (3000kW) - Step-up transformer for tunnel, 4160 volts to 13.8 kV 4 MVA, installed cost	1. lot	125.00	1.00	125.00	103.68	12,960	124,800.00	124,800	4,800.00	4,800	0.00	0	142,560.00	142,560
X11-91-5389.00	TP2 (3000kW) - Local power distribution system	1. lot	0.00	1.00	0.00	103.68	0	158,400.00	158,400	4,800.00	4,800	0.00	0	163,200.00	163,200
X11-91-5390.00	TP2 (3000kW) - Freight to Bell 2	1. lot	0.00	1.00	0.00	103.68	0	0.00	0	57,600.00	57,600	0.00	0	57,600.00	57,600
X11-91-5391.00	TP3 (5550kW) - 4 modular units	1. lot	750.00	1.00	750.00	103.68	77,760	9,600.00	9,600	19,200.00	19,200	5,768,975.87	5,768,976	5,875,535.87	5,875,536
X11-91-5392.00	TP3 (5550kW) - Install gensets	4. ea	250.00	1.00	1,000.00	177.60	177,600	0.00	0	0.00	0	0.00	0	44,400.00	177,600
X11-91-5393.00	TP3 (5550kW) - Install switchgear enclosure	1. ea	150.00	1.00	150.00	177.60	26,640	4,800.00	4,800	0.00	0	0.00	0	31,440.00	31,440
X11-91-5394.00	TP3 (5550kW) - Test & Commission	1. lot	200.00	1.00	200.00	177.60	35,520	0.00	0	0.00	0	0.00	0	35,520.00	35,520
X11-91-5395.00	TP3 (5550kW) - Site preparation	1. lot	0.00	1.00	0.00	103.68	0	120,000.00	120,000	0.00	0	0.00	0	120,000.00	120,000
X11-91-5396.00	TP3 (5550kW) - Foundations	60. m3	0.00	1.00	0.00	103.68	0	1,440.00	86,400	0.00	0	0.00	0	1,440.00	86,400
X11-91-5397.00	TP3 (5550kW) - Fuel Storage 50,000 litre double walled environmental tanks	10. ea	40.00	1.00	400.00	103.68	41,472	57,600.00	576,000	9,600.00	96,000	0.00	0	71,347.20	713,472
X11-91-5398.00	TP3 (5550kW) - Pumping System	1. lot	300.00	1.00	300.00	103.68	31,104	72,000.00	72,000	0.00	0	0.00	0	103,104.00	103,104



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
X11-91-5399.00	TP3 (5550kW) - Step-up transformer for tunnel,	1. lot	150.00	1.00	150.00	103.68	15,552	177,600.00	177,600	4,800.00	4,800	0.00	0	197,952.00	197,952
X11-91-5400.00	TP3 (5550kW) - Local power distribution system 4160 volts to 13.8 kV 5 MVA, installed cost	1. lot	0.00	1.00	0.00	103.68	0	177,600.00	177,600	4,800.00	4,800	0.00	0	182,400.00	182,400
X11-91-5401.00	TP3 (5550kW) - Freight	1. lot	0.00	1.00	0.00	103.68	0	0.00	0	96,000.00	96,000	0.00	0	96,000.00	96,000
X11-91-5402.00	TP4 (1820kW) - 3 modular units	1. lot	500.00	1.00	500.00	103.68	51,840	9,600.00	9,600	14,400.00	14,400	2,604,420.42	2,604,420	2,680,260.42	2,680,260
X11-91-5403.00	TP4 (1820kW) - Assemble gensets	3. ea	200.00	1.00	600.00	177.60	106,560	0.00	0	0.00	0	9,600.00	28,800	45,120.00	135,360
X11-91-5404.00	TP4 (1820kW) - Assemble switchgear enclosure	1. ea	150.00	1.00	150.00	177.60	26,640	0.00	0	0.00	0	9,600.00	9,600	36,240.00	36,240
X11-91-5405.00	TP4 (1820kW) - Test & Commission	1. lot	200.00	1.00	200.00	177.60	35,520	0.00	0	0.00	0	0.00	0	35,520.00	35,520
X11-91-5406.00	TP4 (1820kW) - Site preparation	1. lot	0.00	1.00	0.00	103.68	0	72,000.00	72,000	0.00	0	0.00	0	72,000.00	72,000
X11-91-5407.00	TP4 (1820kW) - Foundations	30. m3	0.00	1.00	0.00	103.68	0	1,920.00	57,600	0.00	0	0.00	0	1,920.00	57,600
X11-91-5408.00	TP4 (1820kW) - Fuel Storage Double walled, environmental tanks	2. ea	200.00	1.00	400.00	103.68	41,472	0.00	0	57,600.00	115,200	0.00	0	78,336.00	156,672
X11-91-5409.00	TP4 (1820kW) - Pumping System	1. lot	300.00	1.00	300.00	103.68	31,104	0.00	0	72,000.00	72,000	0.00	0	103,104.00	103,104
X11-91-5410.00	TP4 (1820kW) - Step-up transformer for tunnel, 4160 volts to 13.8 kV 2 MVA, installed cost	1. ea	100.00	1.00	100.00	103.68	10,368	0.00	0	62,400.00	62,400	0.00	0	72,768.00	72,768
X11-91-5411.00	TP4 (1820kW) - Local power distribution system	1. lot	0.00	1.00	0.00	103.68	0	153,600.00	153,600	4,800.00	4,800	0.00	0	158,400.00	158,400
X11-91-5412.00	TP4 (1820kW) - Freight to Bell 2	1. lot	0.00	1.00	0.00	103.68	0	0.00	0	57,600.00	57,600	0.00	0	57,600.00	57,600
X11-91-5413.00	TP5 (1820kW) - 3 modular units	1. lot	500.00	1.00	500.00	103.68	51,840	9,600.00	9,600	14,400.00	14,400	2,604,420.42	2,604,420	2,680,260.42	2,680,260
X11-91-5414.00	TP5 (1820kW) - Assemble gensets	3. ea	200.00	1.00	600.00	177.60	106,560	0.00	0	0.00	0	9,600.00	28,800	45,120.00	135,360



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
X11-91-5415.00	TP5 (1820kW) - Assemble switchgear enclosure	1. ea	150.00	1.00	150.00	177.60	26,640	0.00	0	0.00	0	9,600.00	9,600	36,240.00	36,240
X11-91-5416.00	TP5 (1820kW) - Test & Commission	1. lot	200.00	1.00	200.00	177.60	35,520	0.00	0	0.00	0	0.00	0	35,520.00	35,520
X11-91-5417.00	TP5 (1820kW) - Site preparation	1. lot	0.00	1.00	0.00	103.68	0	72,000.00	72,000	0.00	0	0.00	0	72,000.00	72,000
X11-91-5418.00	TP5 (1820kW) - Foundations	30. m3	0.00	1.00	0.00	103.68	0	1,920.00	57,600	0.00	0	0.00	0	1,920.00	57,600
X11-91-5419.00	TP5 (1820kW) - Fuel Storage Double walled, environmental tanks	2. ea	200.00	1.00	400.00	103.68	41,472	0.00	0	57,600.00	115,200	0.00	0	78,336.00	156,672
X11-91-5420.00	TP5 (1820kW) - Pumping System	1. lot	300.00	1.00	300.00	103.68	31,104	0.00	0	72,000.00	72,000	0.00	0	103,104.00	103,104
X11-91-5421.00	TP5 (1820kW) - Step-up transformer for tunnel, 4160 volts to 13.8 kV 2 MVA, installed cost	1. ea	100.00	1.00	100.00	103.68	10,368	0.00	0	62,400.00	62,400	0.00	0	72,768.00	72,768
X11-91-5422.00	TP5 (1820kW) - Local power distribution system	1. lot	0.00	1.00	0.00	103.68	0	153,600.00	153,600	4,800.00	4,800	0.00	0	158,400.00	158,400
X11-91-5423.00	TP5 (1820kW) - Freight to Bell 2	1. lot	0.00	1.00	0.00	103.68	0	0.00	0	57,600.00	57,600	0.00	0	57,600.00	57,600
X11-91-5424.00	TP6 (1820kW) - 3 modular units	1. lot	500.00	1.00	500.00	103.68	51,840	9,600.00	9,600	14,400.00	14,400	2,604,420.42	2,604,420	2,680,260.42	2,680,260
X11-91-5425.00	TP6 (1820kW) - Assemble gensets	3. ea	200.00	1.00	600.00	177.60	106,560	0.00	0	0.00	0	9,600.00	28,800	45,120.00	135,360
X11-91-5426.00	TP6 (1820kW) - Assemble switchgear enclosure	1. ea	150.00	1.00	150.00	177.60	26,640	0.00	0	0.00	0	9,600.00	9,600	36,240.00	36,240
X11-91-5427.00	TP6 (1820kW) - Test & Commission	1. lot	200.00	1.00	200.00	177.60	35,520	0.00	0	0.00	0	0.00	0	35,520.00	35,520
X11-91-5428.00	TP6 (1820kW) - Site preparation	1. lot	0.00	1.00	0.00	103.68	0	72,000.00	72,000	0.00	0	0.00	0	72,000.00	72,000
X11-91-5429.00	TP6 (1820kW) - Foundations	30. m3	0.00	1.00	0.00	103.68	0	1,920.00	57,600	0.00	0	0.00	0	1,920.00	57,600
X11-91-5430.00	TP6 (1820kW) - Fuel Storage Double walled, environmental tanks	2. ea	200.00	1.00	400.00	103.68	41,472	0.00	0	57,600.00	115,200	0.00	0	78,336.00	156,672



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
X11-91-5431.00	TP6 (1820kW) - Pumping System	1. lot	300.00	1.00	300.00	103.68	31,104	0.00	0	72,000.00	72,000	0.00	0	103,104.00	103,104
X11-91-5432.00	TP6 (1820kW) - Step-up transformer for tunnel, 4160 volts to 13.8 kV 2 MVA, installed cost	1. ea	100.00	1.00	100.00	103.68	10,368	0.00	0	62,400.00	62,400	0.00	0	72,768.00	72,768
X11-91-5433.00	TP6 (1820kW) - Local power distribution system	1. lot	0.00	1.00	0.00	103.68	0	153,600.00	153,600	4,800.00	4,800	0.00	0	158,400.00	158,400
X11-91-5434.00	TP6 (1820kW) - Freight to Bell 2	1. lot	0.00	1.00	0.00	103.68	0	0.00	0	57,600.00	57,600	0.00	0	57,600.00	57,600
X11-91-5435.00	TP7 (1820kW) - 3 modular units	1. lot	500.00	1.00	500.00	103.68	51,840	9,600.00	9,600	14,400.00	14,400	2,604,420.42	2,604,420	2,680,260.42	2,680,260
X11-91-5436.00	TP7 (1820kW) - Assemble gensets	3. ea	200.00	1.00	600.00	177.60	106,560	0.00	0	0.00	0	9,600.00	28,800	45,120.00	135,360
X11-91-5437.00	TP7 (1820kW) - Assemble switchgear enclosure	1. ea	150.00	1.00	150.00	177.60	26,640	0.00	0	0.00	0	9,600.00	9,600	36,240.00	36,240
X11-91-5438.00	TP7 (1820kW) - Test & Commission	1. lot	200.00	1.00	200.00	177.60	35,520	0.00	0	0.00	0	0.00	0	35,520.00	35,520
X11-91-5439.00	TP7 (1820kW) - Site preparation	1. lot	0.00	1.00	0.00	103.68	0	72,000.00	72,000	0.00	0	0.00	0	72,000.00	72,000
X11-91-5440.00	TP7 (1820kW) - Foundations	30. m3	0.00	1.00	0.00	103.68	0	1,920.00	57,600	0.00	0	0.00	0	1,920.00	57,600
X11-91-5441.00	TP7 (1820kW) - Fuel Storage Double walled, environmental tanks	2. ea	200.00	1.00	400.00	103.68	41,472	0.00	0	57,600.00	115,200	0.00	0	78,336.00	156,672
X11-91-5442.00	TP7 (1820kW) - Pumping System	1. lot	300.00	1.00	300.00	103.68	31,104	0.00	0	72,000.00	72,000	0.00	0	103,104.00	103,104
X11-91-5443.00	TP7 (1820kW) - Step-up transformer for tunnel, 4160 volts to 13.8 kV 2 MVA, installed cost	1. ea	100.00	1.00	100.00	103.68	10,368	0.00	0	62,400.00	62,400	0.00	0	72,768.00	72,768
X11-91-5444.00	TP7 (1820kW) - Local power distribution system	1. lot	0.00	1.00	0.00	103.68	0	153,600.00	153,600	4,800.00	4,800	0.00	0	158,400.00	158,400
X11-91-5445.00	TP7 (1820kW) - Camp & Remote Gensets and Power Distribution	1. lot	1,800.00	1.00	1,800.00	103.68	186,624	349,999.99	350,000	749,999.98	750,000	0.00	0	1,286,623.97	1,286,624
X11-91-5446.00	TP7 (1820kW) - Freight to Bell 2	1. lot	0.00	1.00	0.00	103.68	0	0.00	0	57,600.00	57,600	0.00	0	57,600.00	57,600
X11 - Tunnels, Camps and Construction Site Power Supply Subtotal					19,975.00		2,636,496	4,466,000		2,509,680		26,133,350		35,745,526	



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqpt Unit Cost	Const Eqpt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
<u>X13 - All Construction Power Operating Cost, Tunnel, Plantsite and Camps</u>															
X13-91-5448.00	Diesel Construction Power Operating Cost, Tunnels & Plantsite	1. lot	0.00	1.30	0.00	103.68	0	55,638,998.76	55,638,999	0.00	0	0.00	0	55,638,998.76	55,638,999
X13-91-5449.00	Utility Construction Power Purchase	1. lot	0.00	1.30	0.00	103.68	0	1,199,999.97	1,200,000	0.00	0	0.00	0	1,199,999.97	1,200,000
X13 - All Construction Power Operating Cost, Tunnel, Plantsite and Camps Subtotal					0.00		0		56,838,999		0		0		56,838,999
<u>X20 - Spares</u>															
X20-92-5451.00	Mechanical Equipment Spares	1. lot	0.00	1.30	0.00	103.68	0	23,540,159.47	23,540,159	0.00	0	0.00	0	23,540,159.47	23,540,159
X20-92-5452.00	HPGR Spare Tires Set	1. lot	0.00	1.30	0.00	103.68	0	3,237,119.93	3,237,120	0.00	0	0.00	0	3,237,119.93	3,237,120
X20-92-5453.00	Mining Spares - Capital 5% of Mine Rolling Stock 5% of \$144,443,886	1. lot	0.00	1.00	0.00	103.68	0	6,934,079.85	6,934,080	0.00	0	0.00	0	6,934,079.85	6,934,080
X20 - Spares Subtotal					0.00		0		33,711,359		0		0		33,711,359
<u>X30 - Initial Fills</u>															
X30-93-5455.00	Initial Fills	1. lot	0.00	1.30	0.00	103.68	0	29,759,999.33	29,759,999	0.00	0	0.00	0	29,759,999.33	29,759,999
X30 - Initial Fills Subtotal					0.00		0		29,759,999		0		0		29,759,999
<u>X40 - Freight And Logistic</u>															
X40-94-5457.00	Freight And Logistic	1. lot	0.00	1.30	0.00	103.68	0	70,522,862.20	70,522,862	0.00	0	0.00	0	70,522,862.20	70,522,862
X40 - Freight And Logistic Subtotal					0.00		0		70,522,862		0		0		70,522,862
<u>X50 - Commissioning and Pre-operational Startup</u>															
X50-95-5459.00	Commissioning And Startup Construction Forces allow 24men for 4mths @ \$125/hr (including travel and expenses)	1. lot	34,560.00	1.00	34,560.00	120.00	4,147,200	0.00	0	0.00	0	0.00	0	4,147,199.91	4,147,200
X50-95-5460.00	Commissioning And Startup CM Forces allow 8men for 4mths @ \$150/hr (including travel and expenses)	1. lot	11,520.00	1.00	11,520.00	144.00	1,658,880	0.00	0	0.00	0	0.00	0	1,658,879.96	1,658,880
X50-95-5461.00	Commissioning And Startup Vendors allow 8men for 2mths @ \$160/hr (including travel and expenses)	1. lot	5,760.00	1.00	5,760.00	153.60	884,736	0.00	0	0.00	0	0.00	0	884,735.98	884,736
X50-95-5462.00	Commissioning And Startup Operator training by vendors (Included in Owners Costs)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Project No: 1252880100-EST-R0001-00
 Client: Seabridge Gold Inc.

Kerr-Sulphurets-Mitchell Project
 Prefeasibility Study Update 2012 (HPGR Option)

SEABRIDGE GOLD

Report Date: 28-Jun-12

Rev E5

Sorted By Area and Sequence

Area-Sec-Seq	Description	Qty	Labour Unit Mhr	Prod. Factor	Labour Manhour	Labour Rate	Labour Cost	Material Unit Cost	Material Cost	Const Eqt Unit Cost	Const Eqt Cost	Process Eqpt Unit Cost	Process Eqpt Cost	Total Unit Cost	Total Cost (USD)
X50-95-5463.00	Commissioning And Startup DCS Programming	4,000. mhr	0.00	1.00	0.00	103.68	0	144.00	576,000	0.00	0	0.00	0	144.00	576,000
X50 - Commissioning and Pre-operational Startup Subtotal					51,840.00		6,690,816		576,000		0		0		7,266,816
X60 - EPCM															
X60-96-5465.00	Engineering & Procurement (Wardrop)	1. lot	0.00	1.30	0.00	103.68	0	115,288,462.72	115,288,463	0.00	0	0.00	0	115,288,462.72	115,288,463
X60-96-5466.00	Construction Management	1. lot	#####	1.00	1,800,000.00	129.60	233,279,995	4,381,291.10	4,381,291	0.00	0	0.00	0	237,661,285.89	237,661,286
X60-96-5467.00	Engineering and Procurement (Tunnel)	1. lot	0.00	1.00	0.00	103.68	0	17,851,675.12	17,851,675	0.00	0	0.00	0	17,851,675.12	17,851,675
X60-96-5468.00	Engineering and Procurement (Stewart Port Facility)	1. lot	0.00	1.00	0.00	103.68	0	959,999.98	960,000	0.00	0	0.00	0	959,999.98	960,000
X60-96-5469.00	Construction Management (Stewart Port Facility)	1. lot	0.00	1.00	0.00	103.68	0	1,919,999.96	1,920,000	0.00	0	0.00	0	1,919,999.96	1,920,000
X60-96-5470.00	Construction Management - Vendor support (Allowance)	1. lot	2,500.00	1.00	2,500.00	103.68	259,200	359,999.99	360,000	48,000.00	48,000	0.00	0	667,199.99	667,200
X60-96-5471.00	Construction Management - Consultants (Allowance)	1. lot	1,000.00	1.00	1,000.00	103.68	103,680	144,000.00	144,000	24,000.00	24,000	0.00	0	271,679.99	271,680
X60 - EPCM Subtotal					1,803,500.00		233,642,875		140,905,429		72,000		0		374,620,304
Y10 - Owner's Costs															
Y10-98-5476.00	Owner's Costs	1. lot	0.00	1.30	0.00	103.68	0	106,315,197.62	106,315,198	0.00	0	0.00	0	106,315,197.62	106,315,198
Y10 - Owner's Costs Subtotal					0.00		0		106,315,198		0		0		106,315,198
Z10 - Contingency															
Z10-99-5481.00	Contingency 14.0%	1. lot	0.00	1.30	0.00	103.68	0	593,515,636.12	593,515,636	0.00	0	0.00	0	593,515,636.12	593,515,636
Z10-99-5482.00	Contingency (MTT & MTDT only) 20.0%	1. lot	0.00	1.30	0.00	103.68	0	52,227,047.43	52,227,047	0.00	0	0.00	0	52,227,047.43	52,227,047
Z10 - Contingency Subtotal					0.00		0		645,742,684		0		0		645,742,684
Prefeasibility Study Update 2012 (HPGR Option) Total					13,183,347.61		1,398,789,675		2,627,288,337		403,532,334		826,526,985		5,256,137,330