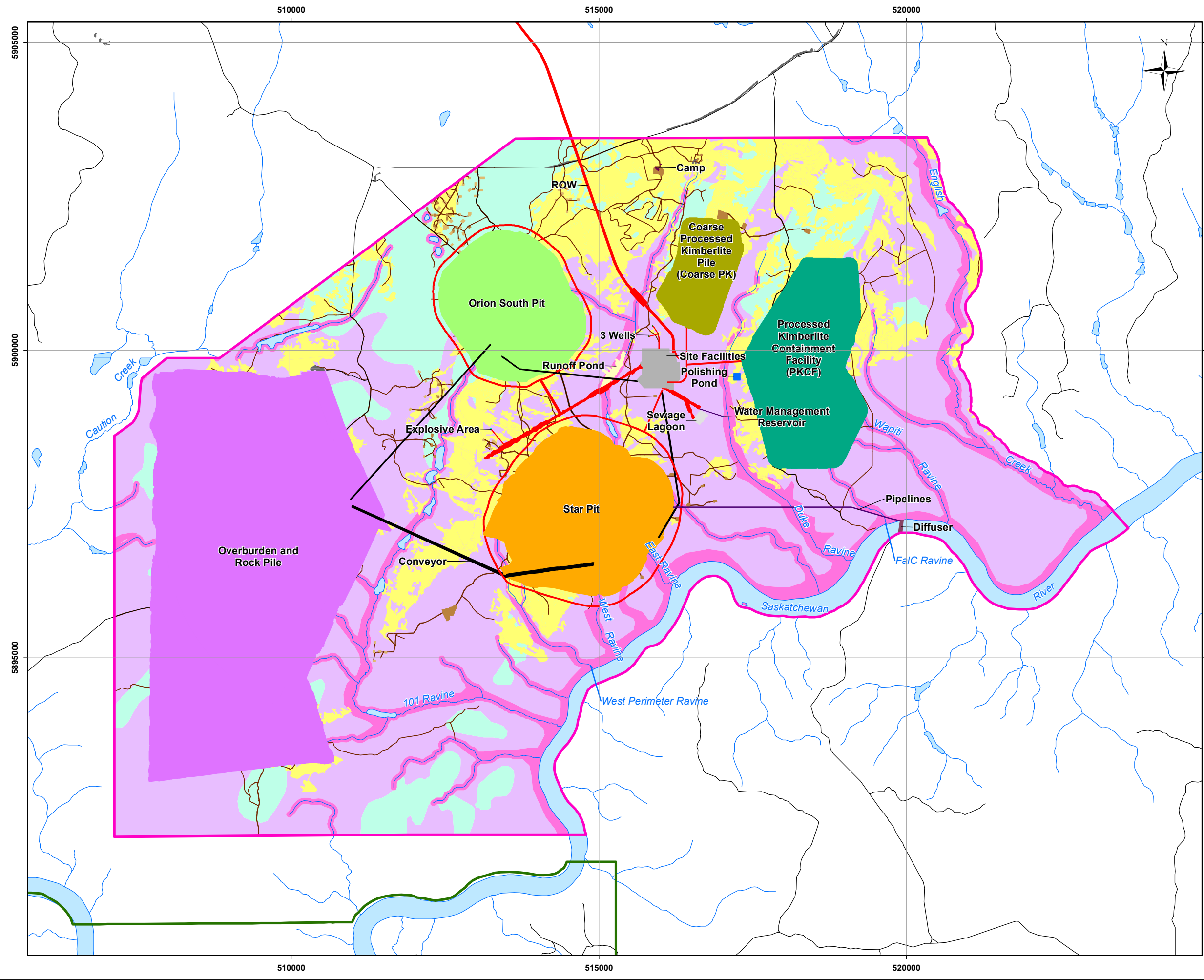
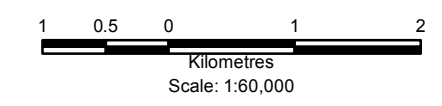


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- Legend**
- Watercourse
 - Waterbody
 - Local Study Area
 - Regional Study Area
 - Inventory Disturbance
- Baseline Disturbance**
- Linear Disturbance
 - Industrial Clearing
 - Reclaimed Clearing
 - Recent Harvest
- Landscape Class**
- Lowland
 - Upland
 - Riparian
- Project Disturbance (Impact)**
- Camp
 - Coarse PK
 - Conveyor
 - Diffuser
 - Explosive
 - Orion South Pit
 - PKCF
 - Pipeline
 - Polishing Pond
 - ROW
 - Reservoir
 - Runoff Pond
 - Sewage Lagoon
 - Site Facilities
 - Star Pit
 - Overburden and Rock Pile
 - Well



Reference
 Base data: NRCan National Road Network
 NTS 1:50,000 scale: GeoSask
 Mine facilities: AMEC dated July 2010
 Saskatchewan Ministry of Environment 2008.

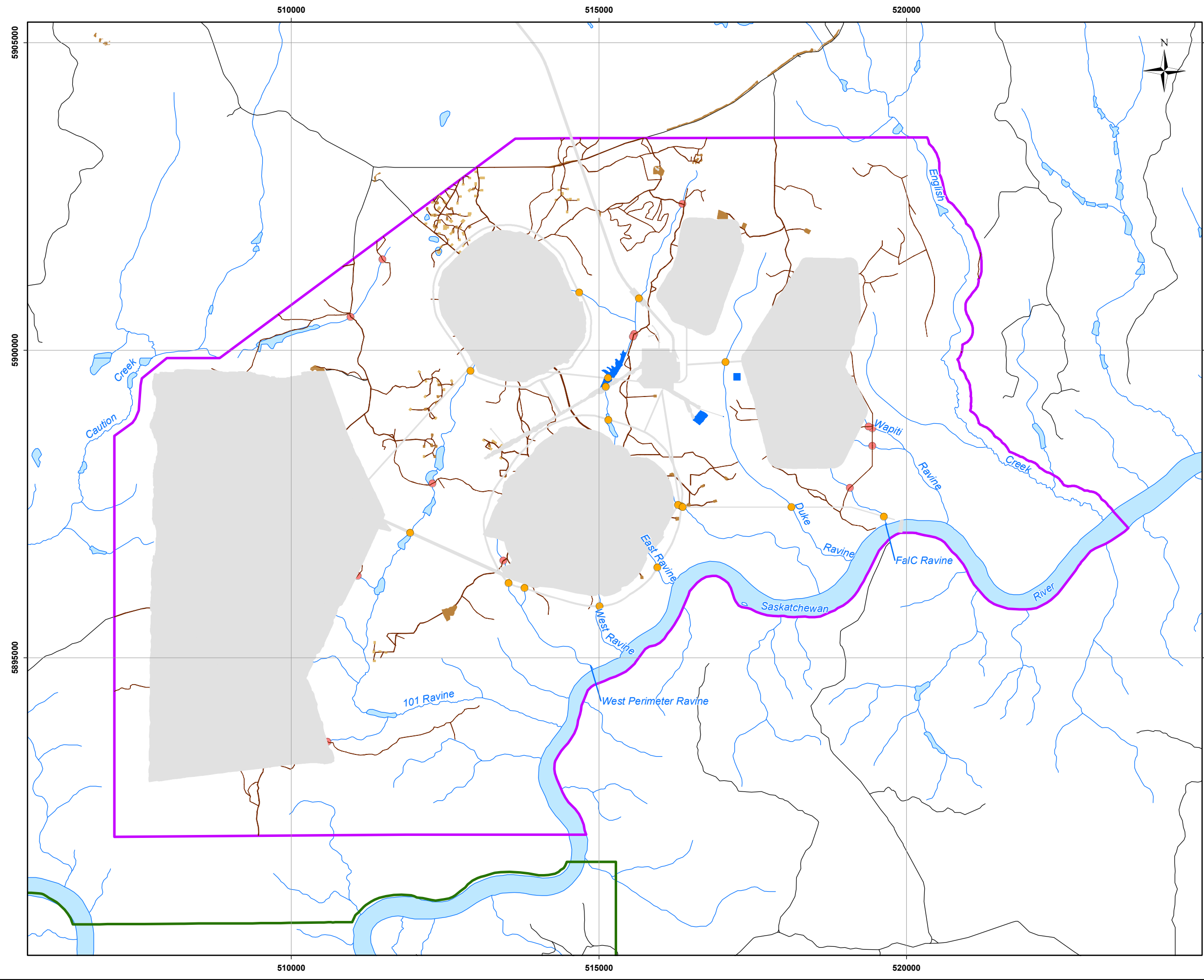
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PROJECT: Star - Orion South Diamond Project

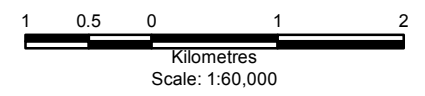
Project Disturbances Within Landscape Classes - LSA

| | | |
|---|--------------|--|
| DATE: March 2012 | ANALYST: NH | Figure 6.3.4-1 |
| JOB No: SX0373306.10 | QA/QC: MY | PDF FILE: Fig6.3.4-1 LSA Impact Landforms 12-03-20.pdf |
| GIS FILE: Fig6.3.4-1 LSA Impact Landforms.mxd | | |
| PROJECTION: UTM Zone 13 | DATUM: NAD27 | |

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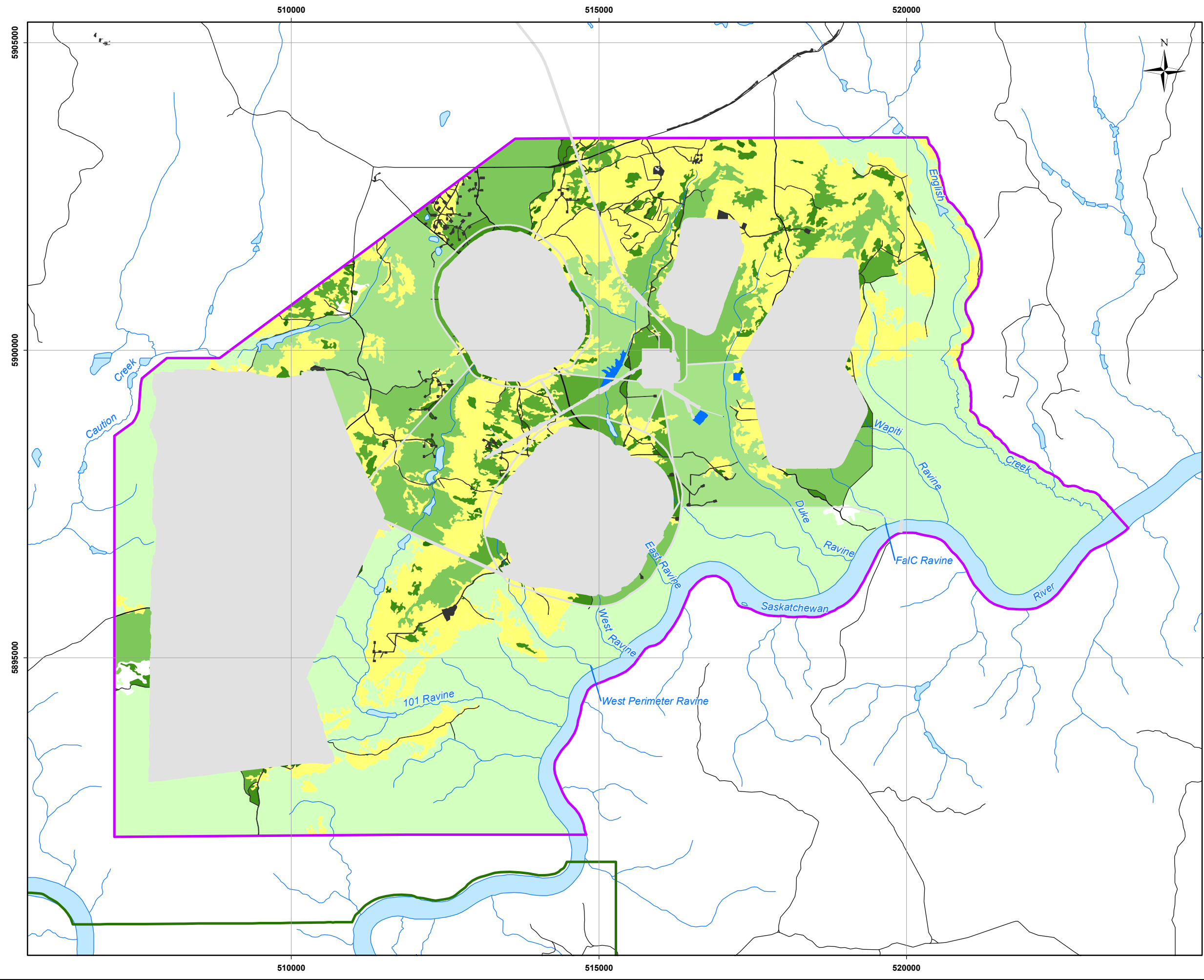
- Legend**
- Watercourse
 - Waterbody
 - Local Study Area
 - Regional Study Area
 - Baseline Disturbance**
 - Linear Disturbance
 - Industrial Clearing
 - Reclaimed Clearing
 - Project Disturbance
 - Project Disturbance (Water Feature)
 - Baseline Creek Crossing
 - Project Creek Crossing



Reference
 Base data: NRCan National Road Network
 NTS 1:50,000 scale: GeoSask
 Saskatchewan Ministry of Environment 2008.

| | | |
|---|-----------------|---|
| CLIENT: | | |
| PROJECT: Star - Orion South Diamond Project | | |
| Linear Disturbances and Creek Crossings Project Case - LSA | | |
| DATE: March 2012 | ANALYST: NH | Figure 6.3.4-2 |
| JOB No: SX0373306.10 | QA/QC: MY | PDF FILE: Fig6.3.4-2 LSA Impact Crossings 12-03-20.pdf |
| GIS FILE: Fig6.3.4-2 LSA Impact Crossings.mxd | | |
| PROJECTION: UTM Zone 13 | DATUM: NAD27 | |

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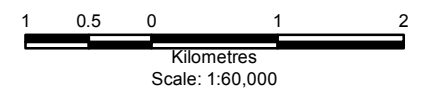


Legend

- Watercourse
- Waterbody
- Local Study Area
- Regional Study Area
- Baseline Disturbance
- Project Disturbance
- Project Disturbance (Water Feature)
- Recent Harvest

Patch Size

- 0 to 1 ha
- 1 to 5 ha
- 5 to 25 ha
- 25 to 100 ha
- 100 to 400 ha
- >400 ha



Reference
 Base data: NRCan National Road Network
 NTS 1:50,000 scale: GeoSask
 Mine facilities: AMEC dated July 2010
 Saskatchewan Ministry of Environment 2008.

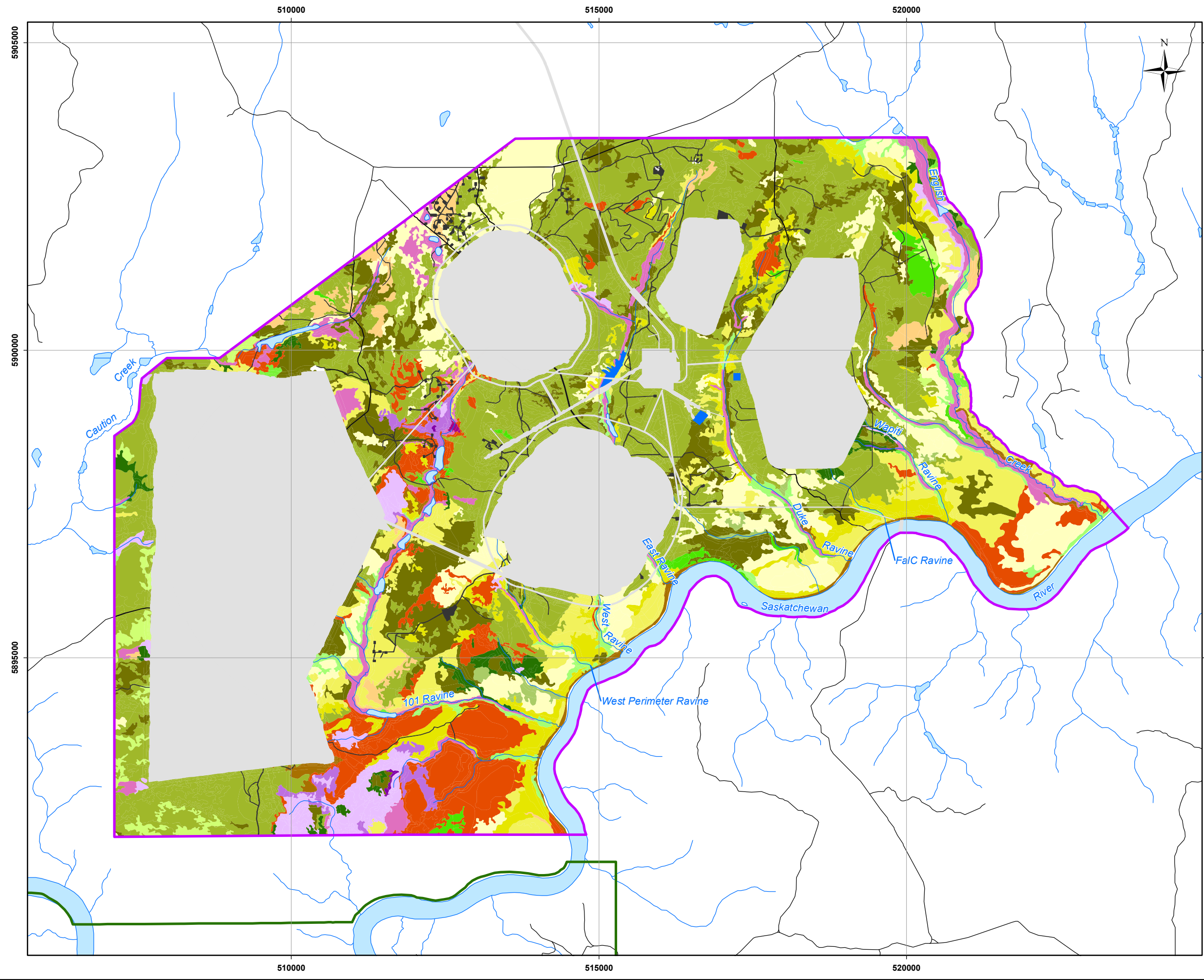
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PROJECT: Star - Orion South Diamond Project

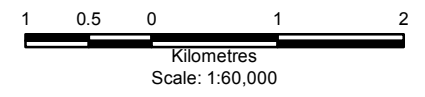
**Natural Patches by
 Size Classes Project Case - LSA**

| | | |
|--|-----------------|-----------------------|
| DATE: March 2012 | ANALYST: NH | Figure 6.3.4-3 |
| JOB No: SX0373306.10 | QA/QC: MY | |
| GIS FILE: Fig6.3.4-3 LSA Impact Patches.mxd | | |
| PROJECTION: UTM Zone 13 | DATUM: NAD27 | |

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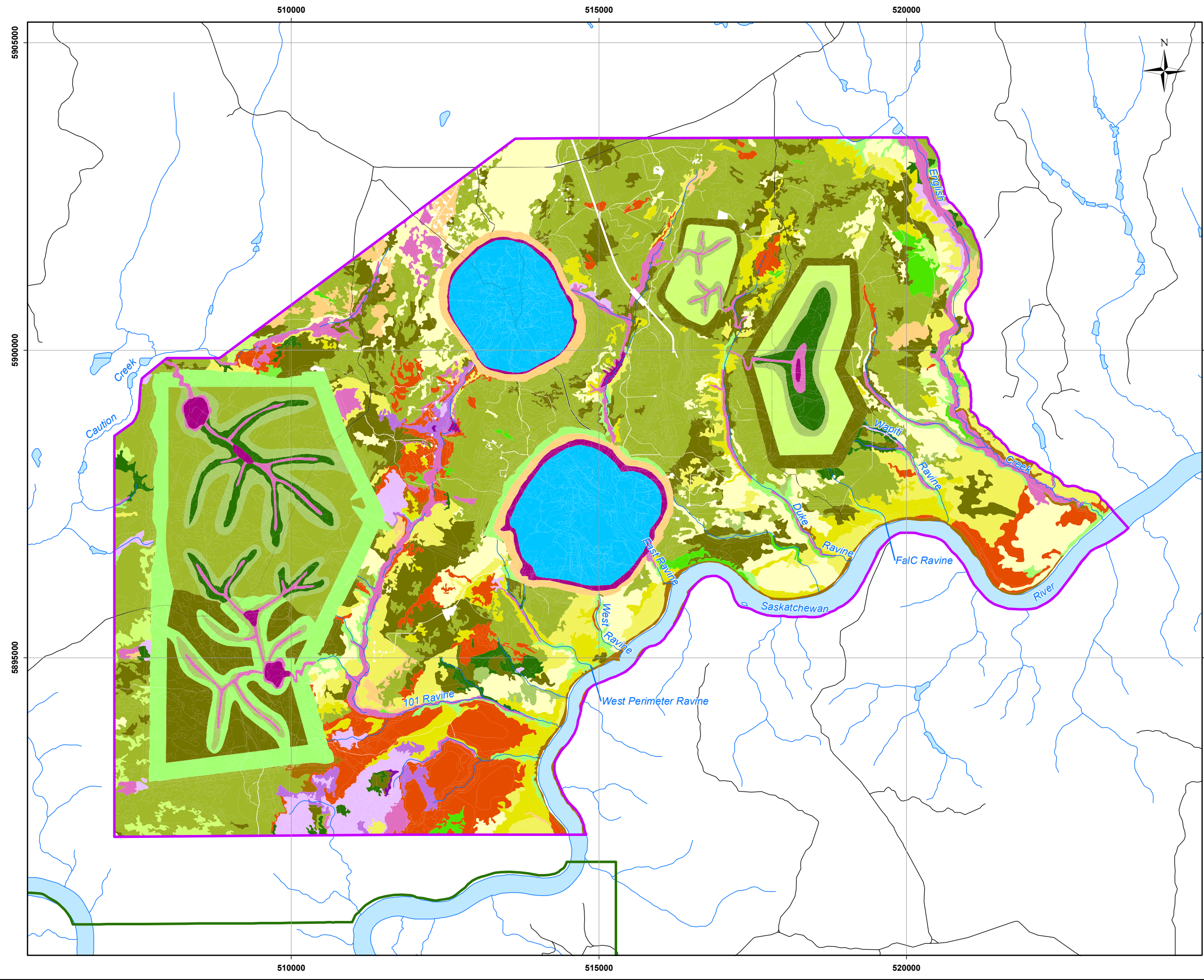
- Legend**
- Watercourse
 - Waterbody
 - Local Study Area
 - Regional Study Area
 - Baseline Disturbance
 - Project Disturbance
 - Project Disturbance (Water Feature)
- Boreal Plain Ecosites**
- BP01
 - BP01a
 - BP02
 - BP03
 - BP04
 - BP05
 - BP06
 - BP07
 - BP09
 - BP10
 - BP11
 - BP12
 - BP14
 - BP15
 - BP16
 - BP18
 - BP18a
 - BP19
 - BP23
 - BP25
 - BP28



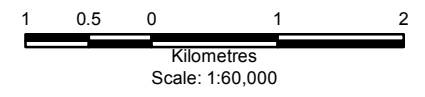
Reference
 Base data: NRCan National Road Network
 NTS 1:50,000 scale: GeoSask
 Mine facilities: AMEC dated July 2010
 Ecosite Classification: Saskatchewan Ministry of Environment 2010.

| | | |
|---|-----------------|---|
| CLIENT: | | |
| PROJECT: Star - Orion South Diamond Project | | |
| Ecosites and Disturbances Project Case - LSA | | |
| DATE: March 2012 | ANALYST: NH | Figure 6.3.4-4 |
| JOB No: SX0373302 | QA/QC: MY | PDF FILE: Fig6.3.4-4 LSA Impact ELC 12-03-21.pdf |
| GIS FILE: Fig6.3.4-4 LSA Impact ELC.mxd | | |
| PROJECTION: UTM Zone 13 | DATUM: NAD27 | |

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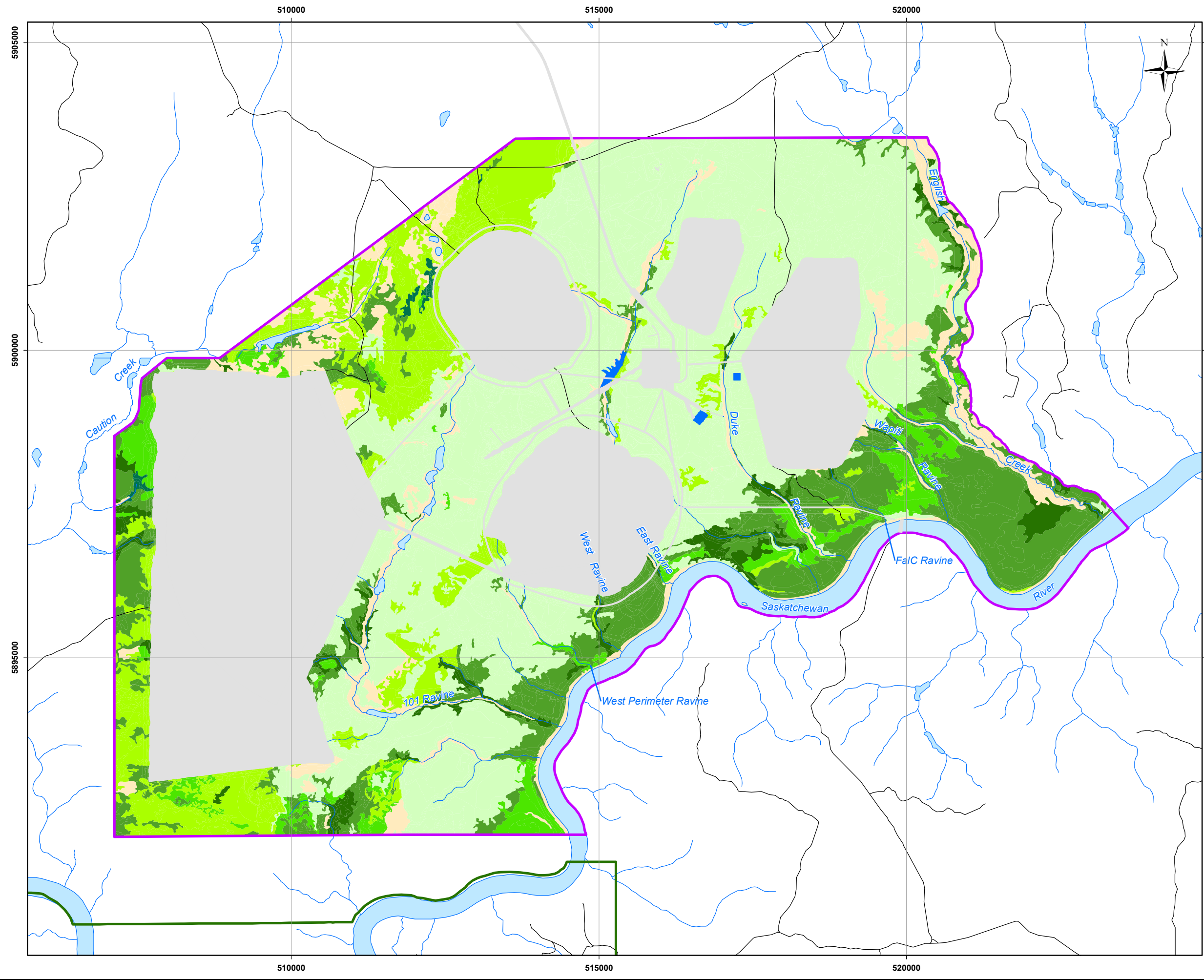
- Legend**
- Road
 - Watercourse
 - Waterbody
 - Local Study Area
 - Regional Study Area
- Boreal Plain Ecosites**
- BP01
 - BP01a
 - BP02
 - BP03
 - BP04
 - BP05
 - BP06
 - BP07
 - BP09
 - BP10
 - BP11
 - BP12
 - BP14
 - BP15
 - BP16
 - BP18
 - BP18a
 - BP19
 - BP23
 - BP25
 - BP28
 - Reclaimed Open Water Feature



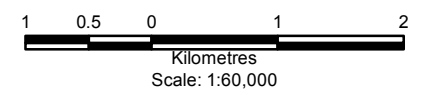
Reference
 Base data: NRCan National Road Network
 NTS 1:50,000 scale: GeoSask
 Mine facilities: AMEC dated July 2010
 Ecosite Classification: Saskatchewan Ministry of Environment 2010.

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|--|-----------------|--|
| CLIENT: | | |
| PROJECT: Star - Orion South Diamond Project | | |
| Post Reclamation Ecosites - LSA | | |
| DATE: March 2012 | ANALYST: NH | Figure 6.3.4-5 |
| JOB No: SX0373306.10 | QA/QC: MY | PDF FILE: Fig6.3.4-5 LSA C&R ELC 12-03-21.pdf |
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| PROJECTION: UTM Zone 13 | DATUM: NAD27 | |

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- Legend**
- Watercourse
 - Waterbody
 - Local Study Area
 - Regional Study Area
 - Project Disturbance
 - Project Disturbance (Water Feature)
- Forest Age**
- <20 years
 - 20 to 39 years
 - 40 to 59 years
 - 60 to 79 years
 - 80 to 99 years
 - 100 to 119 years
 - ≥120 years



Reference
 Base data: NRCan National Road Network
 NTS 1:50,000 scale: GeoSask
 Forest Inventory: Saskatchewan Ministry of Environment 2008.

| | | |
|--|-----------------|--|
| CLIENT: | | |
| PROJECT: Star - Orion South Diamond Project | | |
| Forest Age and Old Growth Forest Project Case - LSA | | |
| DATE: March 2012 | ANALYST: NH | Figure 6.3.4-6 |
| JOB No: SX0373306.10 | QA/QC: MY | PDF FILE: Fig6.3.4-6 LSA Impact Old Growth 12-03-23.pdf |
| GIS FILE: Fig6.3.4-6 LSA Impact Old Growth.mxd | | |
| PROJECTION: UTM Zone 13 | DATUM: NAD27 | |