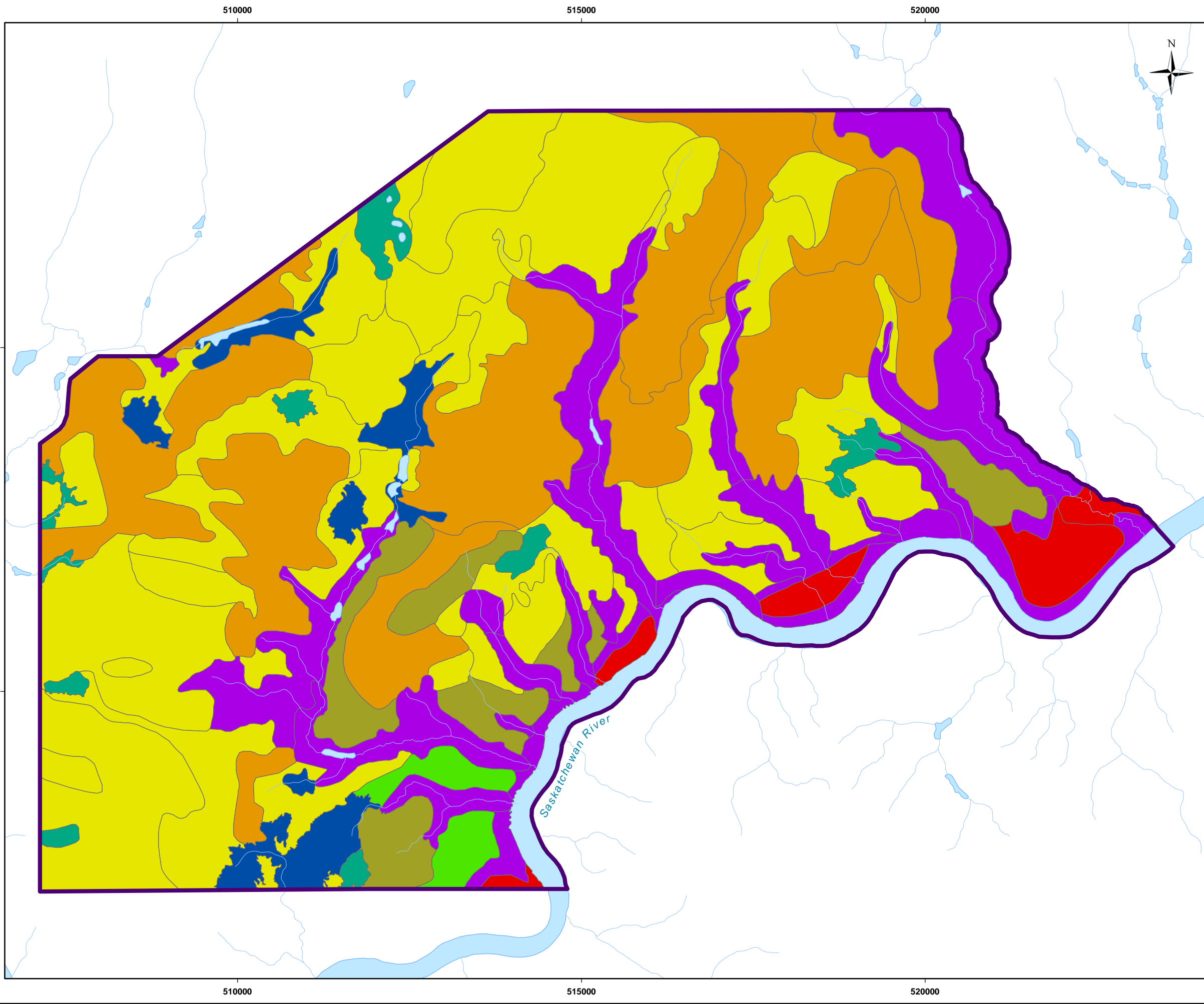
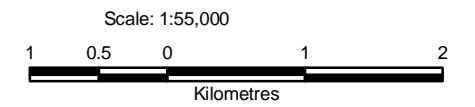


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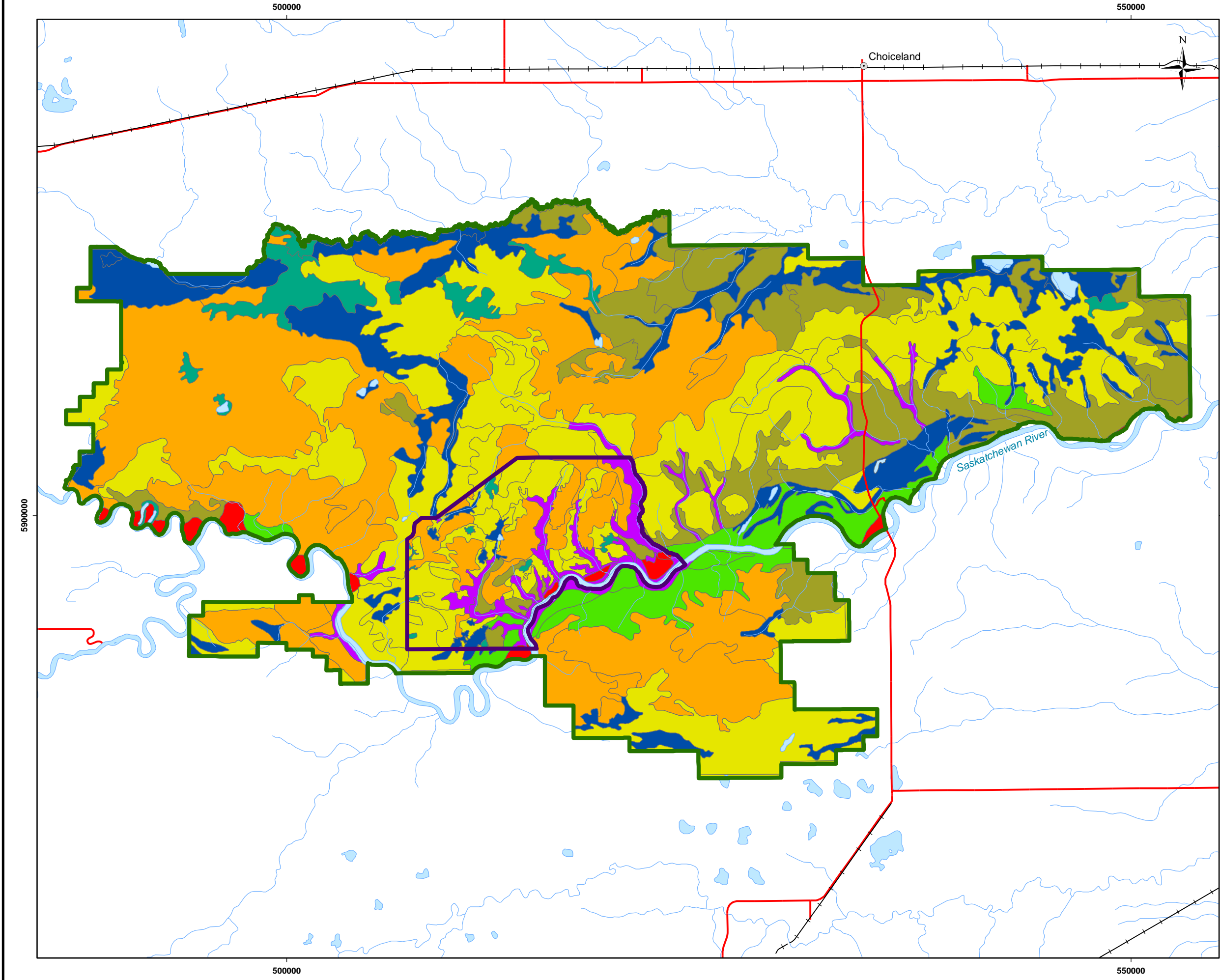
Legend

- Project LSA
- Dominant Surface Material**
- Alluvium (Av)
- Colluvium (C)
- Eolian (E)
- Fluvial-Lacustrine (FL)
- Sandy Glaciolacustrine
- Silty Glaciolacustrine
- Organic (O)
- Organic Veneer
- Water



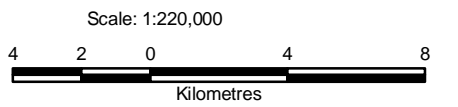
Reference
 Terrain polygon boundaries modified from Anderson and Ellis (1976) as described in Ecodynamics (2009)

CLIENT: 		
PROJECT: Star - Orion South Diamond Project		
Terrain in the LSA		
DATE: May 20, 2010	ANALYST: EO	Figure 5.2.2-1
JOB No: SX0373301	QA/QC: KK	
GIS FILE: 05-100-001.mxd		PDF FILE: 05-100-001_terrain_LSA.pdf
PROJECTION: UTM Zone 13	DATUM: NAD27	



Legend

- Highway
 - + - Railway
 - Project LSA
 - Fort à la Corne Provincial Forest
- Dominant Surface Material**
- Alluvium (Av)
 - Colluvium (C)
 - Eolian (E)
 - Fluvial-Lacustrine (FL)
 - Sandy Glaciolacustrine (GLs)
 - Silty Glaciolacustrine (GLsi)
 - Organic (O)
 - Organic Veneer (Ov)
 - Water

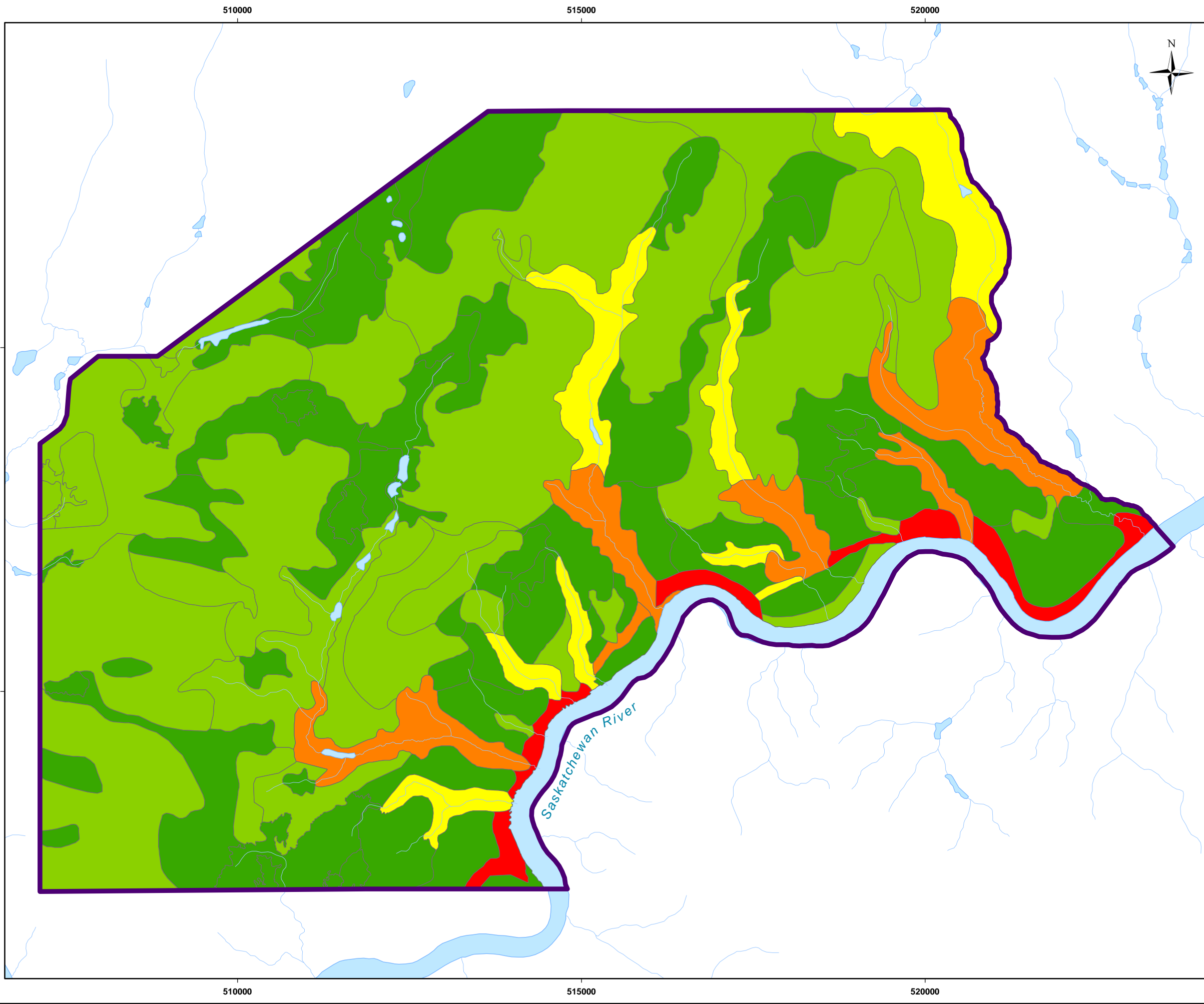


Reference
 Terrain polygon boundaries derived from Anderson and Ellis (1976) as described in Ecodynamics (2009)

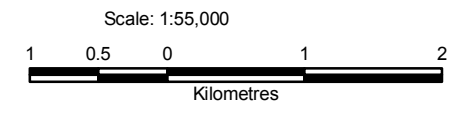
CLIENT: 		
PROJECT: Star - Orion South Diamond Project		
Terrain in the Fort à la Corne Forest		
DATE: May 21, 2010	ANALYST: EO	Figure 5.2.2-2
JOB No: SX0373301	QA/QC: KK	PDF FILE: 05-100-003_terrain_RSA.pdf
GIS FILE: 05-100-003.mxd		
PROJECTION: UTM Zone 13	DATUM: NAD27	

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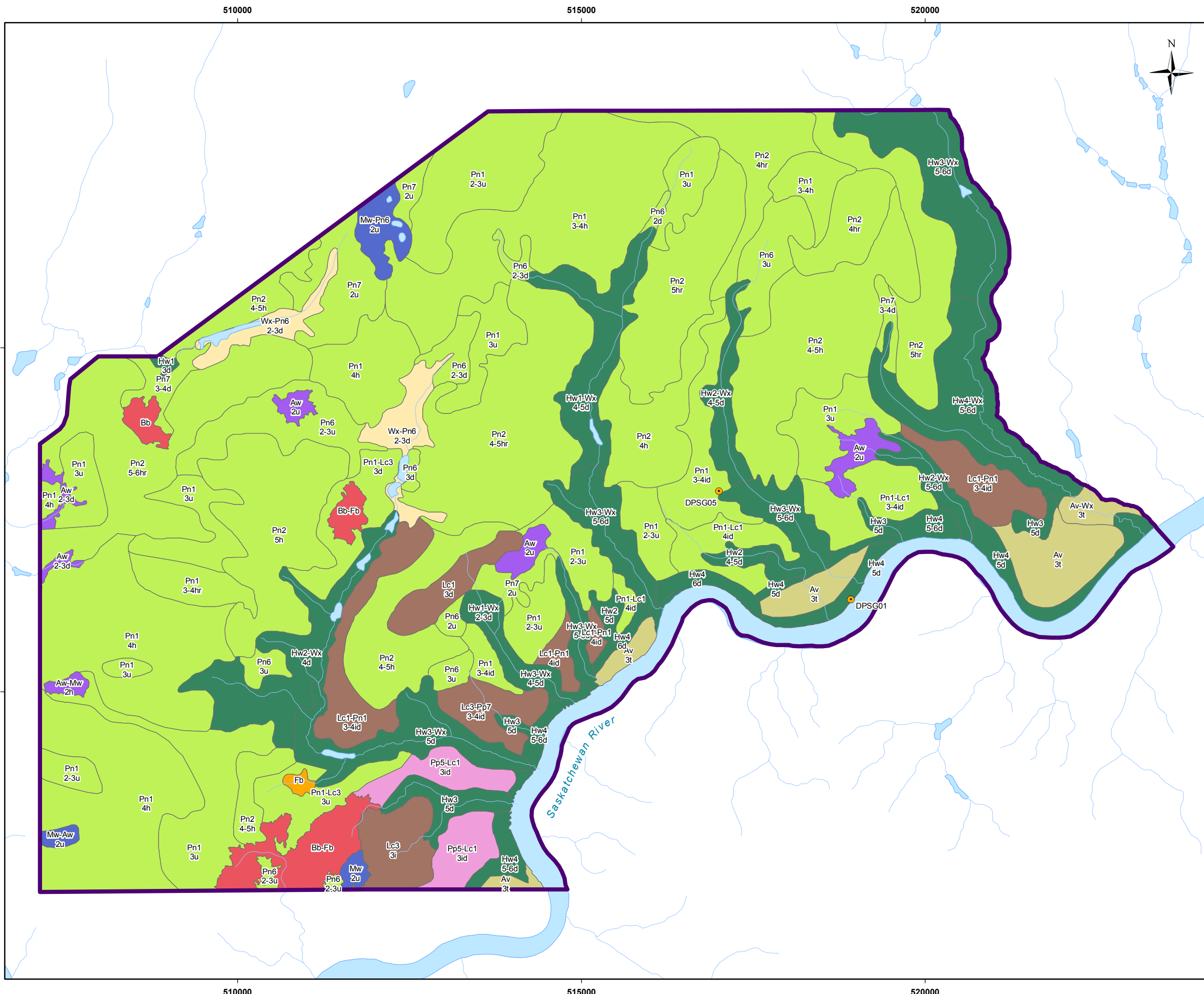
- Legend**
- Project LSA
 - Terrain Stability Class**
 - Class 1 – Negligible likelihood of landslide initiation
 - Class 2 – Very low likelihood of landslide initiation
 - Class 3 – Low likelihood of landslide initiation
 - Class 4 – Moderate likelihood of landslide initiation
 - Class 5 – High likelihood of landslide initiation
 - Water



Reference
 Terrain stability classes assigned to terrain polygon boundaries according to British Columbia Ministry of Forests (1999)

CLIENT: 		
PROJECT: Star - Orion South Diamond Project		
Terrain Stability in the LSA		
DATE: May 20, 2010	ANALYST: EO	Figure 5.2.2-3
JOB No: SX0373301	QA/QC: KK	PDF FILE: 05-100-002_terrain_stability_LSA.pdf
GIS FILE: 05-100-002.mxd		
PROJECTION: UTM Zone 13	DATUM: NAD27	

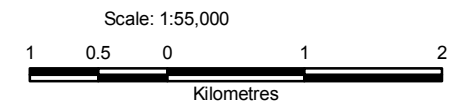
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- Legend**
- Detailed Soil Inspection
 - ▭ Project LSA
 - Dominant Soil Association/Complex
 - Alluvium (Av)
 - Arbow (Aw)
 - Bowl Bog (Bb)
 - Bowl Fen (Fb)
 - Hillwash (Hw)
 - La Corne (Lc)
 - Meadow (Mw)
 - Pine (Pn)
 - Porcupine Plain (Pp)
 - Wetland (Wx)
 - Water

Soil Polygon:

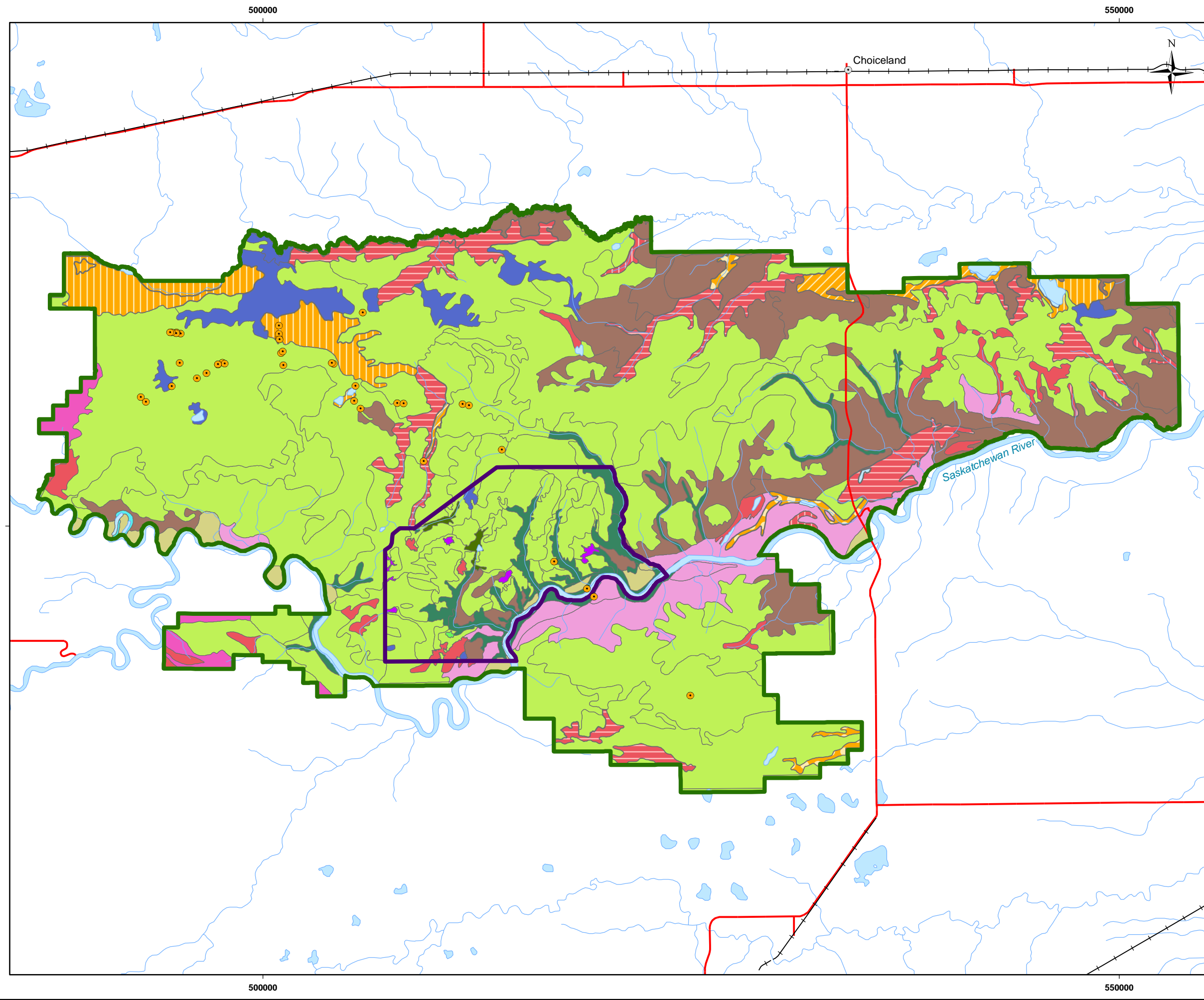
- Soil Map Unit
- Slope Class - Landform



Reference
 Soil map unit boundaries modified from Anderson and Ellis (1976) as described in Ecodynamics (2009). Soil map units, slope classes and landform symbols are explained in the EIS Section 4.2.

CLIENT: 		
PROJECT: Star - Orion South Diamond Project		
Soil Map Units and Soil Inspection Points in the LSA		
DATE: June 4, 2010	ANALYST: EO	Figure 5.2.2-4
JOB No: SX0373301	QA/QC: KK	
GIS FILE: 05-100-008.mxd		PDF FILE: 05-100-008_soil_unit_LSA.pdf
PROJECTION: UTM Zone 13	DATUM: NAD27	

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Legend

- Detailed Soil Inspection
- Highway
- +— Railway
- ▭ Project LSA
- ▭ Fort à la Corne Provincial Forest

Dominant Soil Association/Complex

- ▭ Alluvium (Av)
- ▭ Arbow (Aw)
- ▭ Bowl Bog (Bb)
- ▭ Flat Bog (Bf)
- ▭ Bowl Fen (Fb)
- ▭ Stream Bog (Bs)
- ▭ Floating Fen (Ff)
- ▭ Horizontal Fen (Fh)
- ▭ Patterned Fen (Fp)
- ▭ Stream Fen (Fs)
- ▭ Hillwash (Hw)
- ▭ La Corne (Lc)
- ▭ Marsh (Mh)
- ▭ Meadow (Mw)
- ▭ Nisbet (Nt)
- ▭ Pine (Pn)
- ▭ Porcupine Plain (Pp)
- ▭ Wetland (Wx)
- ▭ Water

Scale: 1:220,000

4 2 0 4 8
Kilometres

Reference
Terrain polygon boundaries derived from Anderson and Ellis (1976) as described in Ecodynamics (2009)

CLIENT:

PROJECT: Star - Orion South Diamond Project

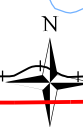
Soils in the Fort à la Corne Forest

DATE: May 21, 2010	ANALYST: EO	Figure 5.2.2-5
JOB No: SX0373301	QA/QC: KK	PDF FILE: 05-100-003_terrain_RSA.pdf
GIS FILE: 05-100-003.mxd		
PROJECTION: UTM Zone 13	DATUM: NAD27	

500000

550000

Choiceland



5900000

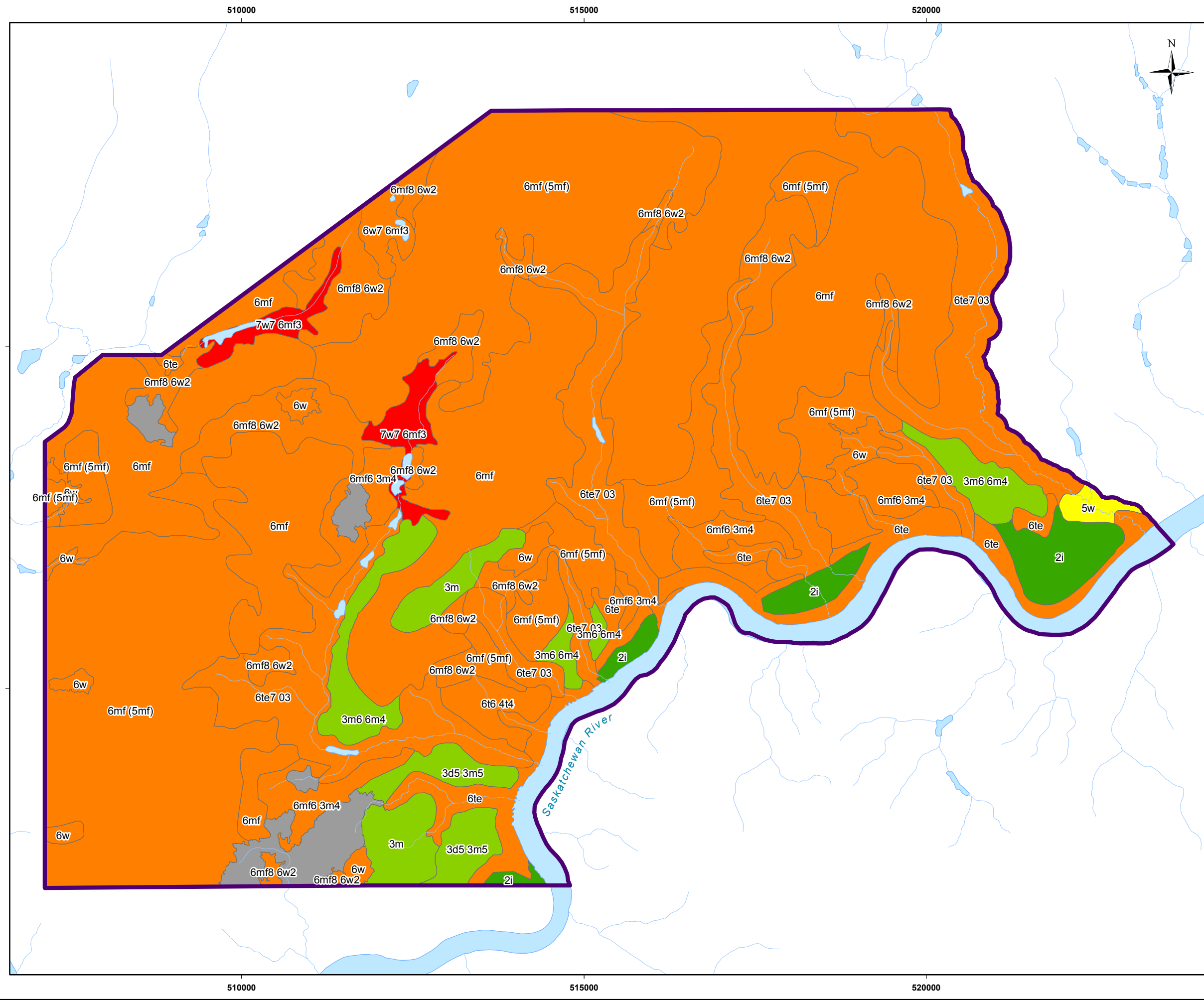
5900000

500000

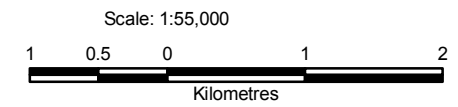
550000

Saskatchewan River

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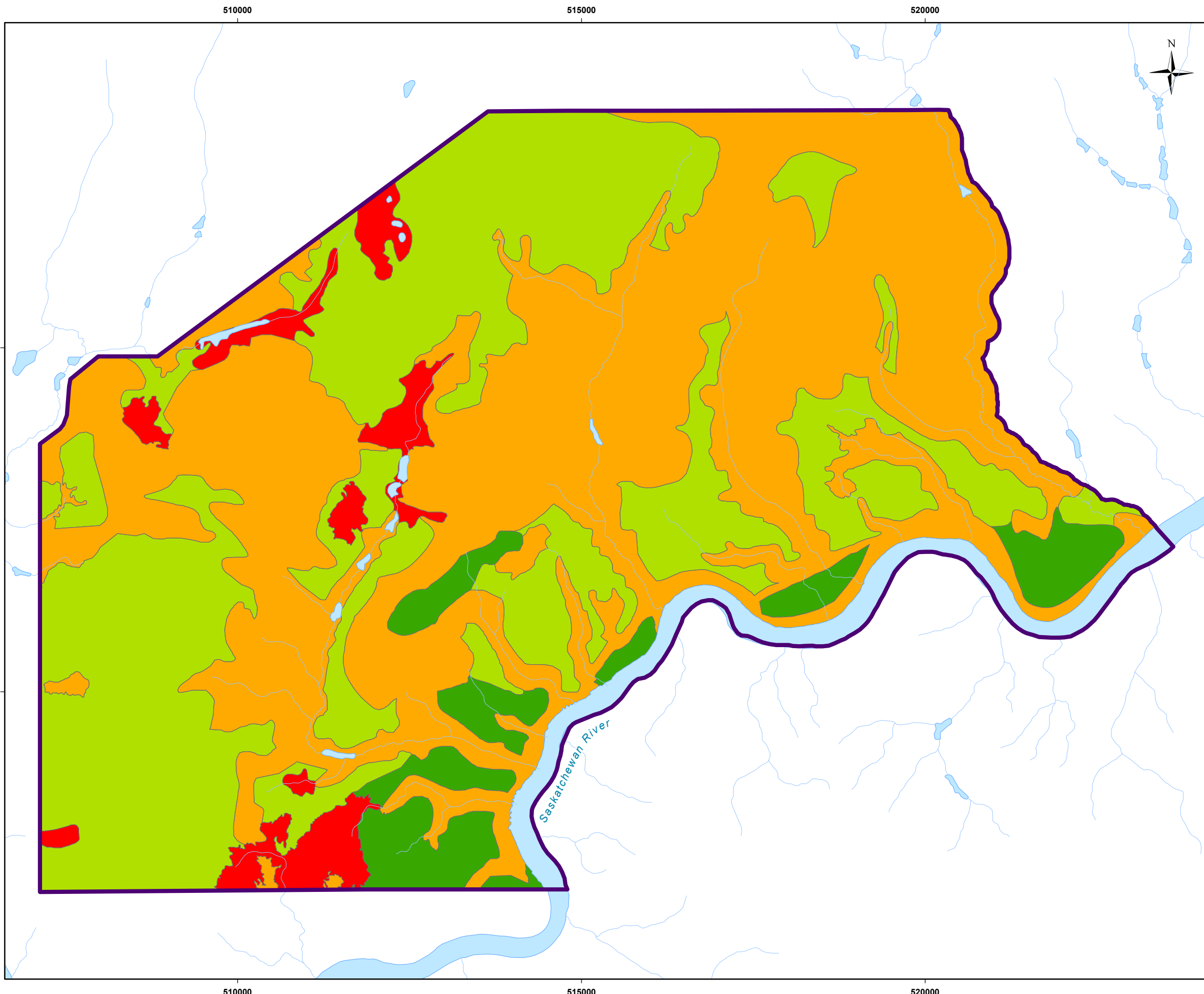
- Legend**
- Project LSA
 - Land Capability for Agriculture Class
 - Class 2 Dominant
 - Class 3 Dominant
 - Class 5 Dominant
 - Class 6 Dominant
 - Class 7 Dominant
 - Water
 - Not Classified (Organic Soils)



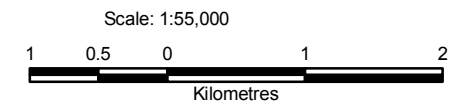
Reference
 Land capability for agriculture class assigned to delineated soil map units as described in Ecodynamics (2009) based on Shields et al. (1968)

CLIENT: 		
PROJECT: Star - Orion South Diamond Project		
Land Capability for Agriculture in the LSA		
DATE: May 20, 2010	ANALYST: EO	Figure 5.2.2-6
JOB No: SX0373301	QA/QC: KK	PDF FILE: 05-100-006_agri_cap_lsa.pdf
GIS FILE: 05-100-006.mxd		
PROJECTION: UTM Zone 13	DATUM: NAD27	

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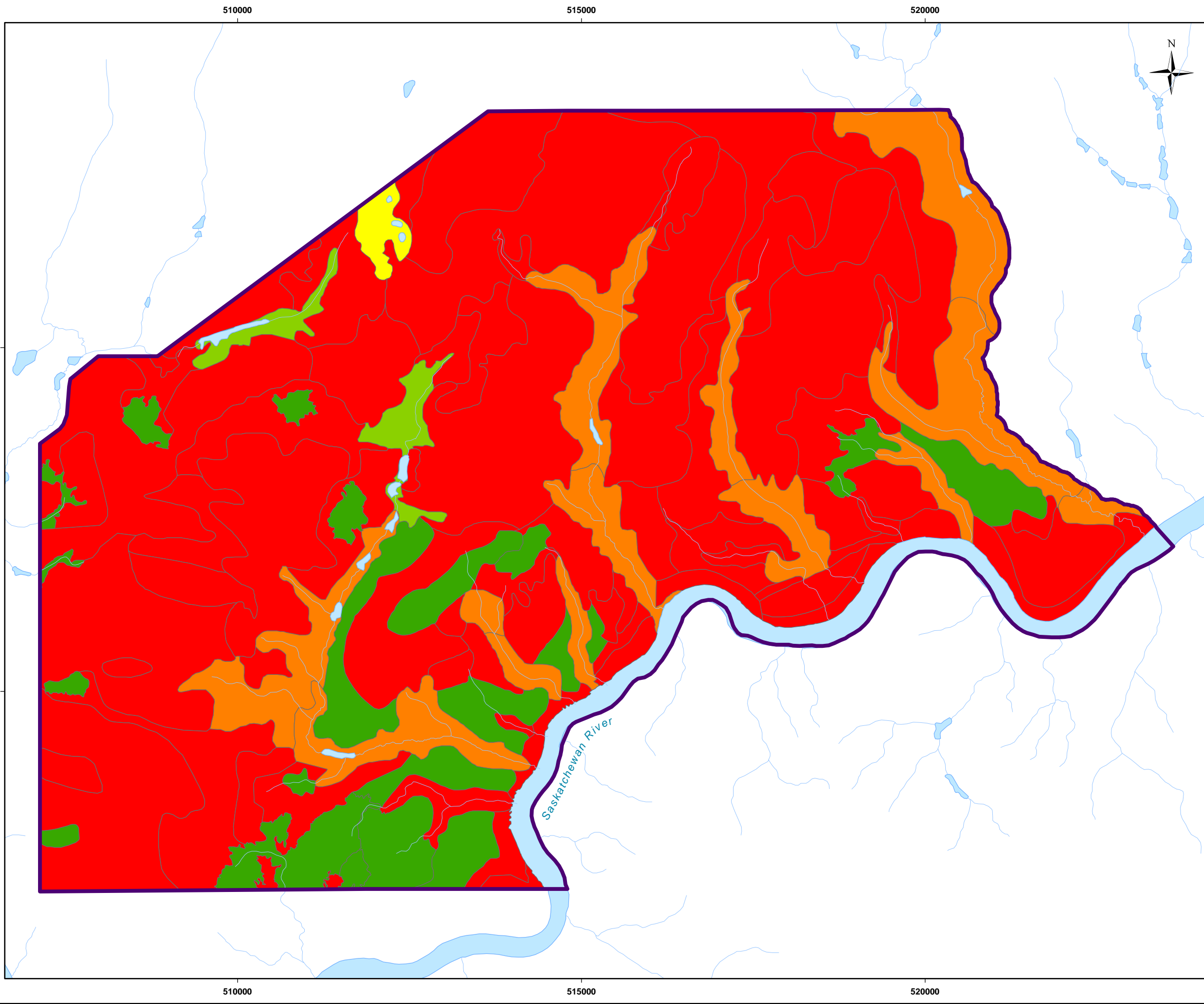
- Legend**
- Project LSA
 - Land Capability for Forestry Class
 - Class 4 Dominant
 - Class 5 Dominant
 - Class 6 Dominant
 - Class 7 Dominant
 - Water










Reference
 Land capability for forestry class assigned to delineated soil map units as described in Ecodynamics (2009) based on Kabzems et al. (1972)

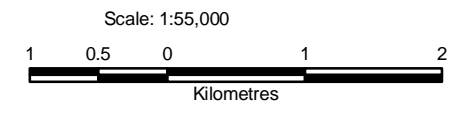
CLIENT: 		
PROJECT: Star - Orion South Diamond Project		
Land Capability for Forestry in the LSA		
DATE: May 26, 2010	ANALYST: EO	Figure 5.2.2-7
JOB No: SX0373301	QA/QC: KK	PDF FILE: 05-100-007_frst_cap_1sa.pdf
GIS FILE: 05-100-007.mxd		
PROJECTION: UTM Zone 13	DATUM: NAD27	

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Legend

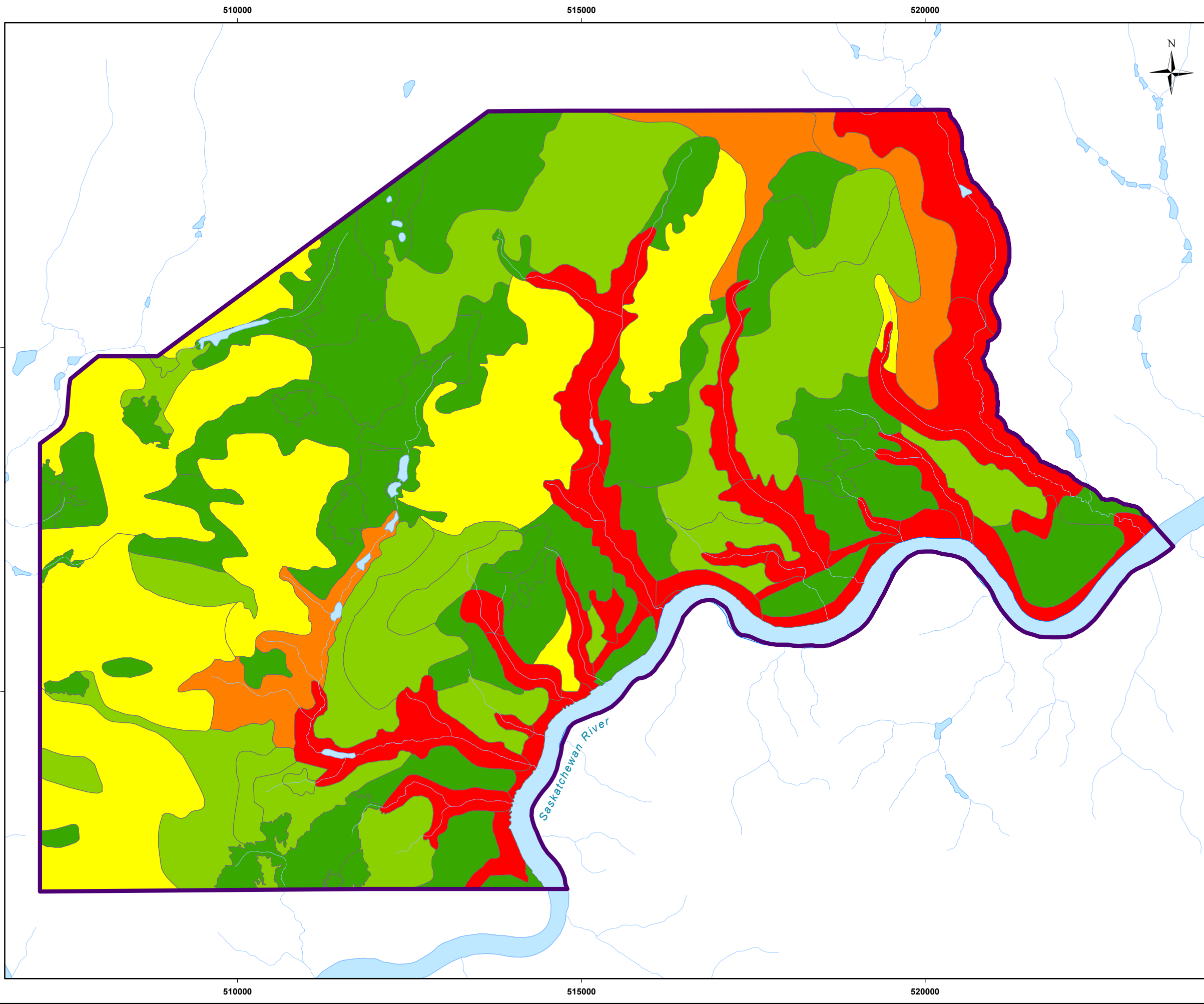
-  Project LSA
- Wind Erosion Risk
 -  Very Low
 -  Low
 -  Moderate
 -  High (Organic)
 -  High
 -  Water










Reference
 Wind erosion risk classes assigned to soil map units delineated in the LSA as outlined in Ecodynamics (2009) based on Alberta Agriculture (1985) and Pedocan Land Evaluation Ltd. (1993)

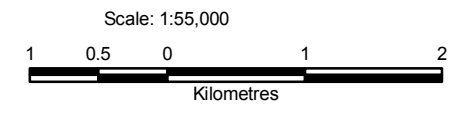
CLIENT: 		
PROJECT: Star - Orion South Diamond Project		
Wind Erosion Risk in the LSA		
DATE: May 20, 2010	ANALYST: EO	Figure 5.2.2-8
JOB No: SX0373301	QA/QC: KK	PDF FILE: 05-100-004_wind_erosion_1sa.pdf
GIS FILE: 05-100-004.mxd		
PROJECTION: UTM Zone 13	DATUM: NAD27	

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Legend

-  Project LSA
- Water Erosion Risk
 -  Very Low
 -  Low
 -  Moderate
 -  High
 -  Very High
 -  Water



Reference
 Water erosion risk classes assigned to soil map units delineated in the LSA as outlined in Ecodynamics (2009) based on application of the modified Universal Soil Loss Equation (Tajek et al. 1985)

CLIENT: 		
PROJECT: Star - Orion South Diamond Project		
Water Erosion Risk in the LSA		
DATE: May 20, 2010	ANALYST: EO	Figure 5.2.2-9
JOB No: SX0373301	QA/QC: KK	PDF FILE: 05-100-005_water_erosion_1sa.pdf
GIS FILE: 05-100-005.mxd		
PROJECTION: UTM Zone 13	DATUM: NAD27	