

MUNICIPAL AUTHORITY		RURAL MUNICIPALITY EDENWOLD NO. 158											
OWNERSHIP		PATENTED											
ENVIRONMENTAL PROTECTION PLAN	SEED MIX		N/A										
	TOPSOIL SALVAGE	PROCEDURE	FULL ROW; REDUCE WHERE APPROPRIATE										
		DEPTH (cm)	10-15	20	15-20					10			
	POTENTIAL SOILS ISSUES AND PROTECTION MEASURES	COMPACTION/RUTTING	COMPACTION AND RUTTING; EN-01										
		TOPSOIL											
		EROSION											
		TRENCH											
	GENERAL	[SALINE UPPER SOILS; EN-07]											
	OTHER POTENTIAL ISSUES AND PROTECTION MEASURES	WETLANDS	[WETLAND; EN-09] [WETLAND; EN-09] [WETLAND; EN-09]										
		WATERCOURSES/HYDROLOGY											
WILDLIFE													
VEGETATION													
SOCIO-ECONOMICS													
CONSTRUCTION TIMING RESTRICTIONS													
BIOSECURITY		[LEVEL 4 - DISINFECTION; EN-16]											
LAND USE		CULTIVATED											
LEGEND													
ENVIRONMENTAL SETTING	ECOREGION	MOIST MIXED GRASSLAND - REGINA PLAIN											
	SOILS PARENT MATERIAL	GLACIOLACUSTRINE											
	CLI SOILS CLASSIFICATION	SOIL CLI CLASS 2C AND 3X											
	WETLANDS	[CLASS I/CLASS II (SK-1433)] [CLASS I/CLASS II (SK-1434)] [CLASS I/CLASS II (SK-1435)]											
	WATERCOURSES/HYDROLOGY												
	FISH HABITAT QUALITY												
	WILDLIFE & WILDLIFE HABITAT												
	VEGETATION												
SOCIO-ECONOMICS													
BIOSECURITY	[HIGH PRIORITY]												
ENVIRONMENTAL PROTECTION PLAN NOTES		SOURCES		SOIL NOTATIONS				LINE 3 REPLACEMENT PROGRAM ENVIRONMENTAL ALIGNMENT SHEETS		 A CH2M HILL Company		SCALE:	1:10,000
Items included on these EAS were documented during the planning phase of the Line 3 Replacement Program. For all Environmental Notes (EN), refer to the index sheets in the EAS package. For example, EN-06 refers to Note 06 and has corresponding mitigation measures to be implemented during construction. Feature identification numbers have been assigned to: - watercourses and waterbodies (AB-WC##, SK-WC##, MB-WC##); - wildlife features and areas (WF-##); and - wetlands (AB-###, SK-###, MB-###). These numbers (i.e. AB-WC##) can be used to cross reference specific environmental features with the summary tables provided in the index sheets which provide additional information. Although there is no reason to believe that there are any errors associated with the data used to generate this product itself, users of the data are advised that errors in the data may be present.		UTM Zone 13N Proposed Pipeline Current to April 2015 (V 5.0); Colour Imagery provided by Enbridge Pipeline Inc 2013 Licensed by Pictometry 2012; Roads: IHS Inc. 2015; Rural Municipalities/Cities/Towns: ISCS 2014, Manitoba Community Planning Services 2007, AltaLIS 2014; Hydrography: Natural Resources Canada 2007-2011; Railways: NRCan 2012; Indian Reserves: Government of Canada 2015; Parks & Protected Areas: MDC 2011; AESB Community Pasture: Saskatchewan Environment 2013.		<div><div>× 10</div><div>⊙ 31</div><div>⊙ D4</div><div></div><div></div><div>glAGS(35)</div><div>3</div></div> <div>Soil Investigation Site Soil Sampling Site Drill & Soil Sample Site to the 1.9m depth Soil Break Soil Phase Soil Unit Depth of Topsoil (cm) Topography Class</div> <div>Topography Classes: 1. 0 to 0.5% - level 2. >0.5 to 2% - nearly level 3. >2 to 5% - very gentle slopes 4. >5 to 10% - gentle slopes 5. >10 to 15% - moderate slopes 6. >15 to 30% - strong slopes 7. >30 to 45% - very strong slopes</div>								DATE:	April 2015
						SHEET:	014 of 019						
						PROJECT:		L3RP_AS_Richardson_10K_V5.0					

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	TOPSOIL SALVAGE	PROCEDURE	FULL ROW; REDUCE WHERE APPROPRIATE					
		DEPTH (cm)	10-15					
	POTENTIAL SOILS ISSUES AND PROTECTION MEASURES	COMPACTION/RUTTING	COMPACTION AND RUTTING; EN-01					
		TOPSOIL						
		EROSION						
		TRENCH						
	OTHER POTENTIAL ISSUES AND PROTECTION MEASURES	GENERAL						
		WETLANDS						
		WATERCOURSES/HYDROLOGY						
WILDLIFE								
VEGETATION								
SOCIO-ECONOMICS								
CONSTRUCTION TIMING RESTRICTIONS								
	BIOSECURITY							
LAND USE		CULTIVATED						
LEGEND								
	Valve Sites							
	Station Kilometre Post							
	Richardson Reroute							
	Highway/Paved Road							
	Gravel/Dirt/Loose Surface							
	Municipality Boundary							
	Provincial Boundary							
	Railway							
	Construction Kickoff Site							
	Construction Right-of-Way							
	Extra Workspace							
	Access/Shoofly							
	Terminal/Pump Station							
	Proposed Pump Station Expansion							
	Previously Approved Expansion Area							
	City / Town Boundary							
	Indian Reserve							
	Parks & Protected Areas							
Wetlands								
	Wetland							
	Non-wetland							
ENVIRONMENTAL SETTING	ECOREGION	MOIST MIXED GRASSLAND - REGINA PLAIN						
	SOILS PARENT MATERIAL	GLACIOLACUSTRINE						
	CLI SOILS CLASSIFICATION	SOIL CLI CLASS 2C	SOIL CLI CLASS 3S					
	WETLANDS							
	WATERCOURSES/HYDROLOGY							
	FISH HABITAT QUALITY							
	WILDLIFE & WILDLIFE HABITAT							
	VEGETATION							
SOCIO-ECONOMICS								
BIOSECURITY								
ENVIRONMENTAL PROTECTION PLAN NOTES		SOURCES	SOIL NOTATIONS		LINE 3 REPLACEMENT PROGRAM ENVIRONMENTAL ALIGNMENT SHEETS	 A CH2M HILL Company	SCALE: 1:10,000	
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Feature identification numbers have been assigned to: - watercourses and waterbodies (AB-WC##, SK-WC##, MB-WC##); - wildlife features and areas (WF-##); and - wetlands (AB-###, SK-###, MB-###). These numbers (i.e. AB-WC##) can be used to cross reference specific environmental features with the summary tables provided in the index sheets which provide additional information. Although there is no reason to believe that there are any errors associated with the data used to generate this product itself, users of the data are advised that errors in the data may be present.							SHEET: 016 of 019	

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TOPSOIL SALVAGE		FULL ROW; REDUCE WHERE APPROPRIATE			
		10-15	20	15-20	
POTENTIAL SOILS ISSUES AND PROTECTION MEASURES		COMPACTION/RUTTING			
		TOPSOIL			
		EROSION			
		TRENCH			
		GENERAL		[SALINE UPPER SOILS; EN-07]	
OTHER POTENTIAL ISSUES AND PROTECTION MEASURES		WETLANDS		[WETLAND; EN-09]	
		WATERCOURSES/HYDROLOGY			
		WILDLIFE			
		VEGETATION			
		SOCIO-ECONOMICS			
		CONSTRUCTION TIMING RESTRICTIONS			
		BIOSECURITY			
LAND USE		CULTIVATED			
LEGEND					
ECOREGION		MOIST MIXED GRASSLAND - REGINA PLAIN			
SOILS PARENT MATERIAL		GLACIOLACUSTRINE			
CLI SOILS CLASSIFICATION		SOIL CLI CLASS 3S	SOIL CLI CLASS 2C		
WETLANDS		[CLASS II (SK-1436)]			
WATERCOURSES/HYDROLOGY					
FISH HABITAT QUALITY					
WILDLIFE & WILDLIFE HABITAT					
VEGETATION					
SOCIO-ECONOMICS					
BIOSECURITY					
ENVIRONMENTAL PROTECTION PLAN NOTES		SOURCES		SOIL NOTATIONS	
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				LINE 3 REPLACEMENT PROGRAM ENVIRONMENTAL ALIGNMENT SHEETS	
				SCALE: 1:10,000 DATE: April 2015 SHEET: 017 of 019 PROJECT: L3RP_AS_Richardson_10K_V5.0	

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ENVIRONMENTAL PROTECTION PLAN	SEED MIX		N/A		
	TOPSOIL SALVAGE	PROCEDURE	FULL ROW; REDUCE WHERE APPROPRIATE		
		DEPTH (cm)	15-20	20	10-15
	POTENTIAL SOILS ISSUES AND PROTECTION MEASURES	COMPACTION/RUTTING	COMPACTION AND RUTTING; EN-01		
		TOPSOIL			
		EROSION			
		TRENCH			
		GENERAL	[SALINE UPPER SOILS; EN-07]		
	OTHER POTENTIAL ISSUES AND PROTECTION MEASURES	WETLANDS	[WETLAND; EN-09]		
		WATERCOURSES/HYDROLOGY			
		WILDLIFE			
		VEGETATION			
		SOCIO-ECONOMICS			
		CONSTRUCTION TIMING RESTRICTIONS			
		BIOSECURITY			
LAND USE			CULTIVATED		
<div>LEGEND</div> <div><div><div><div><div></div></div><div>Valve Sites</div></div><div><div><div></div></div><div>Station Kilometre Post</div></div><div><div><div></div></div><div>Richardson Reroute</div></div><div><div><div></div></div><div>Highway/Paved Road</div></div><div><div><div></div></div><div>Gravel/Dirt/Loose Surface</div></div><div><div><div></div></div><div>Municipality Boundary</div></div><div><div><div></div></div><div>Provincial Boundary</div></div><div><div><div></div></div><div>Railway</div></div><div><div><div></div></div><div>Construction Kickoff Site</div></div><div><div><div></div></div><div>Construction Right-of-Way</div></div><div><div><div></div></div><div>Extra Workspace</div></div><div><div><div></div></div><div>Access/Shoofly</div></div><div><div><div></div></div><div>Terminal/Pump Station</div></div><div><div><div></div></div><div>Proposed Pump Station Expansion</div></div><div><div><div></div></div><div>Previously Approved Expansion Area</div></div><div><div><div></div></div><div>City / Town Boundary</div></div><div><div><div></div></div><div>Indian Reserve</div></div><div><div><div></div></div><div>Parks & Protected Areas</div></div></div><div><div>Wetlands</div><div><div><div></div></div><div>Wetland</div></div><div><div><div></div></div><div>Non-wetland</div></div></div></div>					

