



**ENBRIDGE PIPELINES INC. INTEGRITY PROGRAM
PRELIMINARY ASSESSMENT FORM**

Screening Team

Inspector: Tyler Adams
Surveyor: Midwest Surveys Inc.
Land Agent:
Consultant: Stantec Consulting Ltd.

NAME:	Jayne Viglas
DATE:	October 9, 2014
REPORT #:	23A – GW 85560

LOCATION

Line: 23A	GW: 85560	MP:	KP:
Project number: 113256715	Latitude: _____ Longitude: _____	UTM <u>14 U</u>	(E): <u>337205</u> (N): <u>5512141</u>

ACCESS

Does the access follow the existing right-of-way?		Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Partial	<input type="checkbox"/>				
Surrounding Land Use:	Cultivated	<input type="checkbox"/>	Forest	<input type="checkbox"/>	Hay	<input type="checkbox"/>	Pasture	<input checked="" type="checkbox"/>	Meadow	<input type="checkbox"/>	
	Row Crop	<input type="checkbox"/>	Industrial	<input type="checkbox"/>	Residential	<input type="checkbox"/>	Other	<input checked="" type="checkbox"/>	Disturbed		
Are there any watercourse crossings to access the proposed dig site?								Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
Type of watercourse (general description):											
Type of crossing required:	Culvert	<input type="checkbox"/>	Free-span	<input type="checkbox"/>	Existing	<input type="checkbox"/>					
	Ice Bridge	<input type="checkbox"/>	Snow Fill	<input type="checkbox"/>	N/A	<input type="checkbox"/>					
If yes, does it have defined beds and banks								Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
Approx. Channel width: _____ m				Approx. Channel width: _____ m							
Comments (i.e., description of access, secondary access identified, no. of crossings, etc.):											
A Stantec Consulting Ltd. (Stantec) representative surveyed the access road while accompanied by an Enbridge Pipelines (Saskatchewan) Inc. (EPSI) inspector. The dig site is located in close proximity to two roads and will be accessed from the existing right-of-way.											

GENERAL DIG SITE INFORMATION

Surrounding Land Use:	Cultivated	<input checked="" type="checkbox"/>	Forest	<input type="checkbox"/>	Hay	<input type="checkbox"/>	Pasture	<input type="checkbox"/>	Meadow	<input type="checkbox"/>	
	Row Crop	<input type="checkbox"/>	Industrial	<input type="checkbox"/>	Residential	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>	_____		
Comments:											
A Stantec representative surveyed the dig site while accompanied by an EPSI inspector. The dig site located in tame pasture. A disturbed area is located north of the dig site.											



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WILDLIFE

Is there potential for habitat that would require a wildlife sweep? Yes ☒ No ☐

Species of Concern potential: Yes ☒ No ☐

Comments & Field Observations (*i.e.*, Habitat concerns, sightings, signs, etc.):

No historical records of species of concern were identified within 1 km of the dig site. Tame pasture and wetlands in vicinity of the dig site are potential wildlife habitat.

VEGETATION

Composition of vegetation: (list species for determination of seed mixes)

smooth brome (*Bromus inermis*) 75 %

reed canary grass (*Phalaris arundinacea*) <1 %

Canada thistle (*Cirsium arvense*) <1 %

Vegetation Removal Required on Access Yes ☐ No ☒ Undetermined ☐

Vegetation Removal Required on Dig Site Yes ☒ No ☐ Undetermined ☐

Comments (*i.e.*, species present, species to be removed, no. and location to be removed, etc.):

Vegetation species that are listed above will be removed within the dig footprint.

Invasive Species:

Weeds/Invasive species present? Yes ☒ No ☐

Species composition : (list species) % off right-of-way % on right-of-way

Canada thistle 1% 1%

white sweet clover (*Melilotus alba*) 1% <1%

perennial sow thistle (*Sonchus arvensis*) <1% <1%

Comments:



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SOIL

Is there admixing visible?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Undetermined <input type="checkbox"/>
Is there evidence of compaction?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Undetermined <input type="checkbox"/>
Are there rocks present?	<u><1% off right-of way</u>		<u><1% on right-of-way</u>

Comments (i.e., soil issues, subsidence, bare areas, sparse vegetation patches, etc.):

WETLANDS

Dig site:

Wetland(s) Present: Yes ☒ No ☐

Distance from edge of disturbance: See below

Wetland comments: (classification, hydrology, cover type, wetland and riparian vegetation, wildlife habitat)

Wetland 1 (14U E: 337196, N: 5512153) – This Class II wetland is located 24 m from the dig site. The dominant vegetation species included narrow-leaved cattail (*Typha angustifolia*), curled dock (*Rumex crispus*), water smartweed (*Polygonum amphibium*), foxtail barley (*Hordeum jubatum*), reed canary grass and slough grass (*Beckmannia syzigachne*).

Wetland 2 (14U E: 337185, N: 5512210) – This wetland is located 71 m from the dig site. Dominant vegetation species included willow species (*Salix spp.*), smooth brome, curled dock and western snowberry (*Symphoricarpos occidentalis*).



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Access:

Wetland(s) Present: Yes ☐ No ☒

Are there any wetland crossings? Yes ☐ No ☒

Distance from edge of disturbance:

Wetland comments: (classification, hydrology, cover type, wetland and riparian vegetation, wildlife habitat, matting requirements)

The planned access route avoids wetlands that are in vicinity to the dig site.

OTHER CONCERNS

Is a fish rescue / salvage required? Yes ☐ No ☒

Will the dig require isolation (aqua dam, coffer dam, porta dam, etc.)? Yes ☐ No ☒

(Soil issues, subsidence, bare areas, sparse vegetation patches, garbage, etc.)

N/A

CLUB ROOT

Samples collected? Yes ☒ No ☐ N/A ☐

Description: (GPS coordinates, LSD, sample ID, on or off right-of-way)

23A85560-1 (14U E: 337177, 5512139) – This sample was taken on the right-of-way from within the dig site at SE 18-09-28 W1M.

23A85560-2 (14U E: 337246, 5512209) – This sample was taken off of the right-of-way on the access route at SE 18-09-28 W1M.

Samples were shipped to Biovison Seed Labs in Edmonton, Alberta for analysis on October 15, 2014.



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REGULATORY REQUIREMENTS

NEB Notification Trigger

DIG SITE ENVIRONMENTAL SCREENING

Will the project involve ground disturbance using power operated equipment within 30 m of a wetland or waterbody or a substrate of the wetland or waterbody? Yes ☒ No ☐

Type of wetland or waterbody (if yes): Class II wetland

Distance: 24 m

ACCESS ROUTE ENVIRONMENTAL SCREENING

Will the proposed access require ground disturbance using power operated equipment within 30 m of a wetland or waterbody or a substrate of the wetland or waterbody? Yes ☐ No ☒

Type of wetland or waterbody (if yes):

Distance _____ m

FISHERIES PROTECTION

Are there potential impacts to fish or fish habitat that are part of or support a commercial, recreational or Aboriginal fishery? Yes ☐ No ☒

If in water, what type of habitat? Wetland ☐ Watercourse ☐

If yes, will impacts be avoided or mitigated? Yes ☐ No ☐

If no, will impact result in serious harm to fish? Yes ☐ No ☐

Site Characteristics: Alberta (separate)

If on Crown Land, will work occur outside the ROW boundary or is creation of a new access to the ROW required? Yes ☐ No ☐

Will off-ROW activities be required (access, excavation, temp workspace)? Yes ☐ No ☐
Please illustrate off-ROW work in site drawing.

Other Permitting Required: TFA ☐ TDL ☐ Other ☐

Site Characteristics: Saskatchewan (separate)

Is the proposed disturbance within 45 m of a non-fish bearing wetland/watercourse? Yes ☒ No ☐

Is the proposed disturbance within 90 m of a fish bearing watercourse? Yes ☐ No ☒

Is the proposed disturbance within a Class III or higher wetland or watercourse? Yes ☐ No ☒

Will off-ROW activities be required (access, excavation, temp workspace)? Yes ☐ No ☒

Site Characteristics: Manitoba (separate)

Will the project require diversion from a waterbody? Yes ☐ No ☐

Site Characteristics: Ontario (separate)

Are there any activities within the boundaries of a wetland? Yes ☐ No ☐

If yes, is there standing water in excess of 0.3 m in depth? Yes ☐ No ☐

Is Dig Site near a Provincially Significant Wetland (PSW)? Yes ☐ No ☐



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If yes, distance from the edge of disturbance to the PSW: _____ m

Does the work site or access road take place in an area of low topographic relief (valley, flood plain, etc.)? Yes ☐ No ☐

Will the project require the diversion of water from a waterbody? Yes ☐ No ☐

Will the excavation require dewatering of more than 50,000 L/day of groundwater throughout the course of any calendar day during the project? Yes ☐ No ☐

Site Characteristics: Quebec (separate)

Are there any activities within the boundaries or 30 m of a wetland? Yes ☐ No ☐

Identify the nearest road intersection:

What is the distance from the intersection to the integrity dig site? _____ m

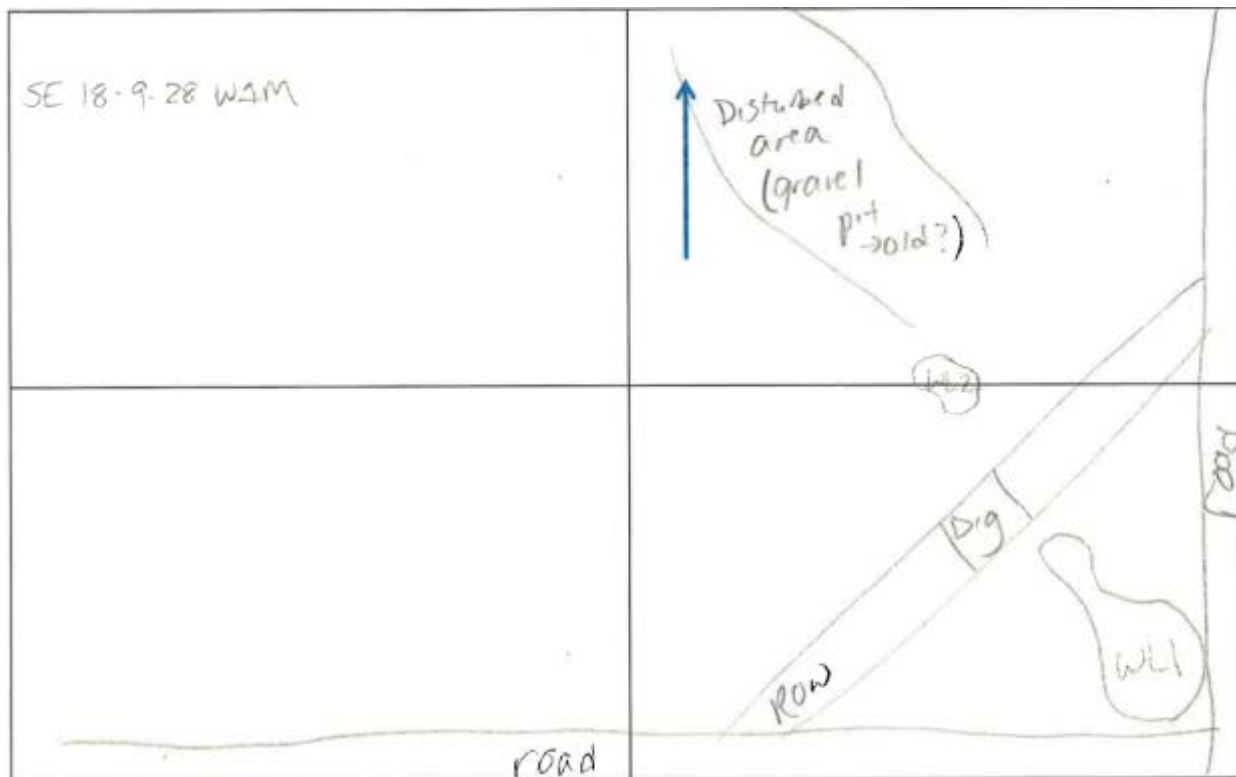
What is the current land use: Agricultural ☐ Natural Area ☐ Commercial ☐ Residential ☐

Does the work site or access road take place in an area of low topographic relief (valley, flood plain, etc.)? Yes ☐ No ☐

Will the project require the diversion of water from a waterbody? Yes ☐ No ☐

Will any of the work site or road access cross crown land? Yes ☐ No ☐

SKETCH SHEET – SE 18-09-28 W1M





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PHOTOPLATES



Photo 1: Looking north from the dig site located at SE 18-09-28 W1M.



Photo 2: Looking east from the dig site located at SE 18-09-28 W1M.



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Photo 3: Looking south from the dig site located at SE 18-09-28 W1M.



Photo 4: Looking west from the dig site located at SE 18-09-28 W1M.



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Photo 5: View of Wetland 1 at SE 18-09-28 W1M.



Photo 6: View of Wetland 2 at SE 18-09-28 W1M.



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Photo 7: View of the representative ground cover at clubroot sampling location 23A85560-1. This sample was taken within the dig site at SE 18-09-28 W1M.



Photo 8: View of the representative ground cover at clubroot sampling location 23A85560-2. This sample was taken within the existing right-of-way along the access route at SE 18-09-28 W1M.