

Technical Memorandum – Sent Via Email

To: Paul Turner, Enbridge Energy
From: Ryan Erickson
Subject: LHB Geotechnical Drilling Hydrovac Borings (Tank 5 Containment Basin) – Historical Crude Oil Impacts
Date: December 3, 2012
Project: 49161092

This memorandum summarizes the assessment and waste management activities conducted by Barr Engineering (Barr) at the request of Enbridge Energy (Enbridge) in response to the discovery of historical crude oil impacted soil in a hydrovac boring advanced in association with a LHB geotechnical investigation at the Enbridge Superior Terminal in Superior, Wisconsin (Figure 1) in October 2012.

Background

In accordance with Enbridge Superior Terminal utility sweep safety protocols, hydrovac borings were advanced to a depth of approximately 10 feet below ground surface (bgs) prior to the drilling of deeper geotechnical borings. On October 22, 2012, the hydrovac operator noticed a petroleum odor and observed a rainbow sheen on the surface of the water within the two boreholes in the western corner of the Tank 5 containment basin (Figure 2). Enbridge was notified and in turn contacted Barr to assist in confirming the presence of crude oil impacted soil within the borehole and to manage the impacted soil handling and disposal.

Field Documentation

Barr personnel confirmed the presence of crude oil impacts within the two hydrovac borings based on visual observations and olfactory evidence. The hydrovac slurry was placed into a roll-off dumpster located at the terminal contaminated soil stockpile area (Figure 2). No additional crude oil impacted soil was reported to Barr during the remaining geotechnical drilling investigation.

Soil Disposal Coordination and Documentation

The LHB boring was located approximately 30 feet to the northwest of a Geotechnical Boring with crude impacted soil completed by Barr in August 2012 (Figure 2, BH-2; Barr Geotechnical Investigation). that also generated impacted slurry requiring disposal .

Due to the proximity of the Tank 5 borings to BH-2, it was assumed based on generator knowledge that the crude impacts in these borings originated from the same historical release. As a result, the soil from the LHB borings was handled under the Shamrock Landfill profile previously approved for BH-2 (CL12-0067). Approximately 10 tons of soil slurry from the LHB borings was solidified with cement for transportation purposes and hauled to the landfill in November 2012 with other soil that included under the same profile. Waste documentation has been attached to the memo.

Conclusions

Enbridge indicated that the crude oil impacts discovered in the LHB borings were considered historical impacts. Barr checked the Enbridge historical release files and identified a 220-barrel release (#338) approximately 100 feet to the north of the LHB borings that occurred in 1967. This historical release occurred prior to the current WDNR spill reporting requirements and is therefore not part of the WDNR BRRTS database.

As was indicated in our November 28, 2012 memo to Enbridge regarding the BH-2 geotechnical boring, it is unclear whether the WDNR would now require this previously unreported and recently rediscovered spill to be reported since it occurred and was documented prior to the currently established release reporting requirements. It is recommended that Enbridge work with the WDNR to determine the proper reporting protocol (if any) for historic release sites at the Superior Terminal property. The rediscovered presence of this previously unreported release will likely fall under the WDNR spill reporting requirements (s. 292.11). However, unless determined otherwise from discussions Enbridge has with the WDNR, Barr is recommending no further action at this time.

Attachments

Figure 1 – Boring Site Location

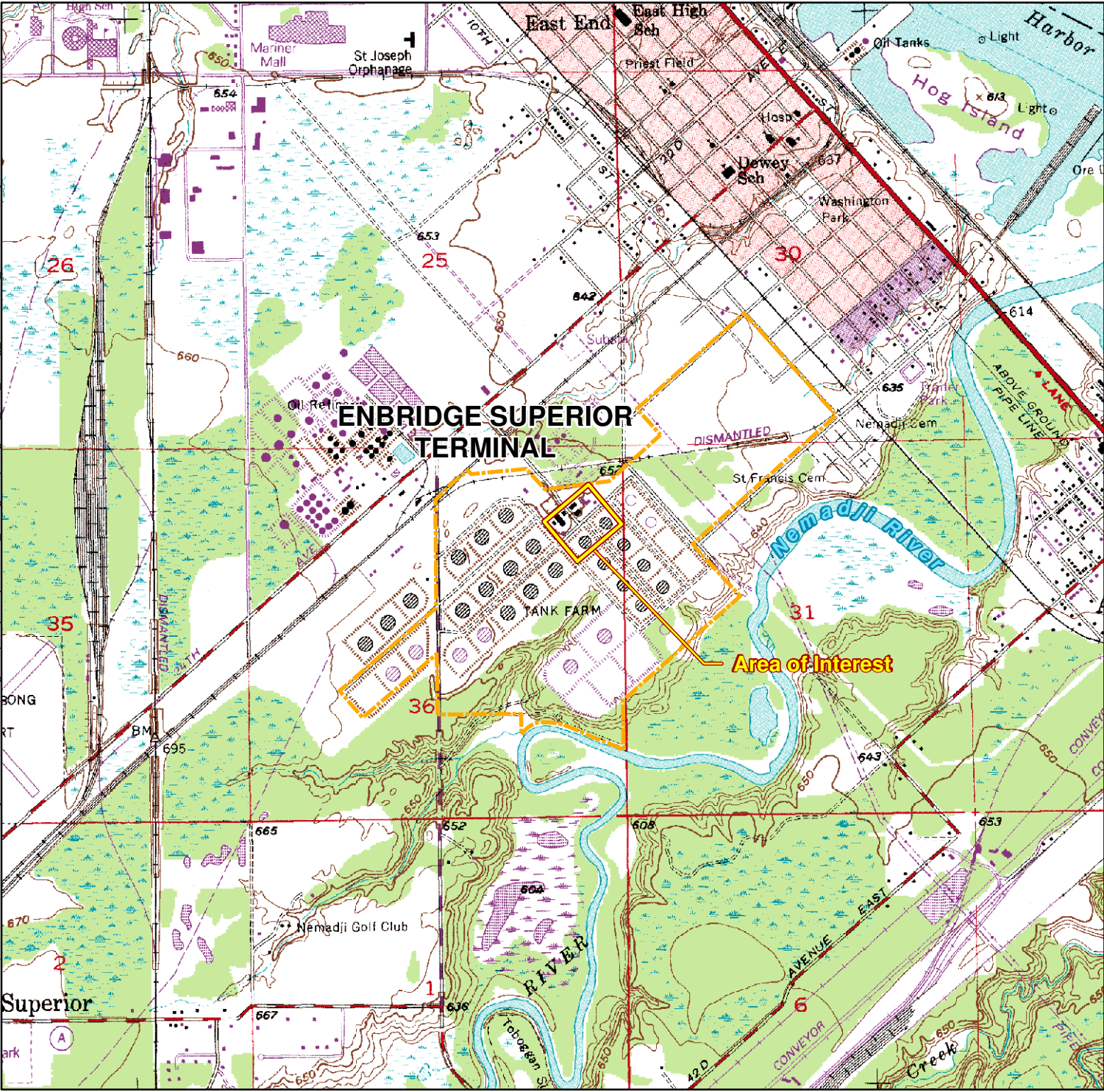
Figure 2 – Site Map LHB Borings

SKB Soil Profile with Legend Analytical Report for BH-2

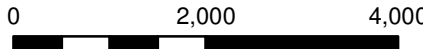
SKB Waste Acceptance Letter for BH-2

Waste Disposal Documentation for LHB Borings (CL12-0067)

Barr Footer: ArcGIS 10.0, 2012-11-28 13:34 File: I:\Projects\491161\1092\Enbridge Map\Maps\Reports\LHB_Borings\Map\Figure1_LHB_Boring_SiteLocation_8x11.mxd User: iwk



- Area of Interest
- Terminal Property Boundary



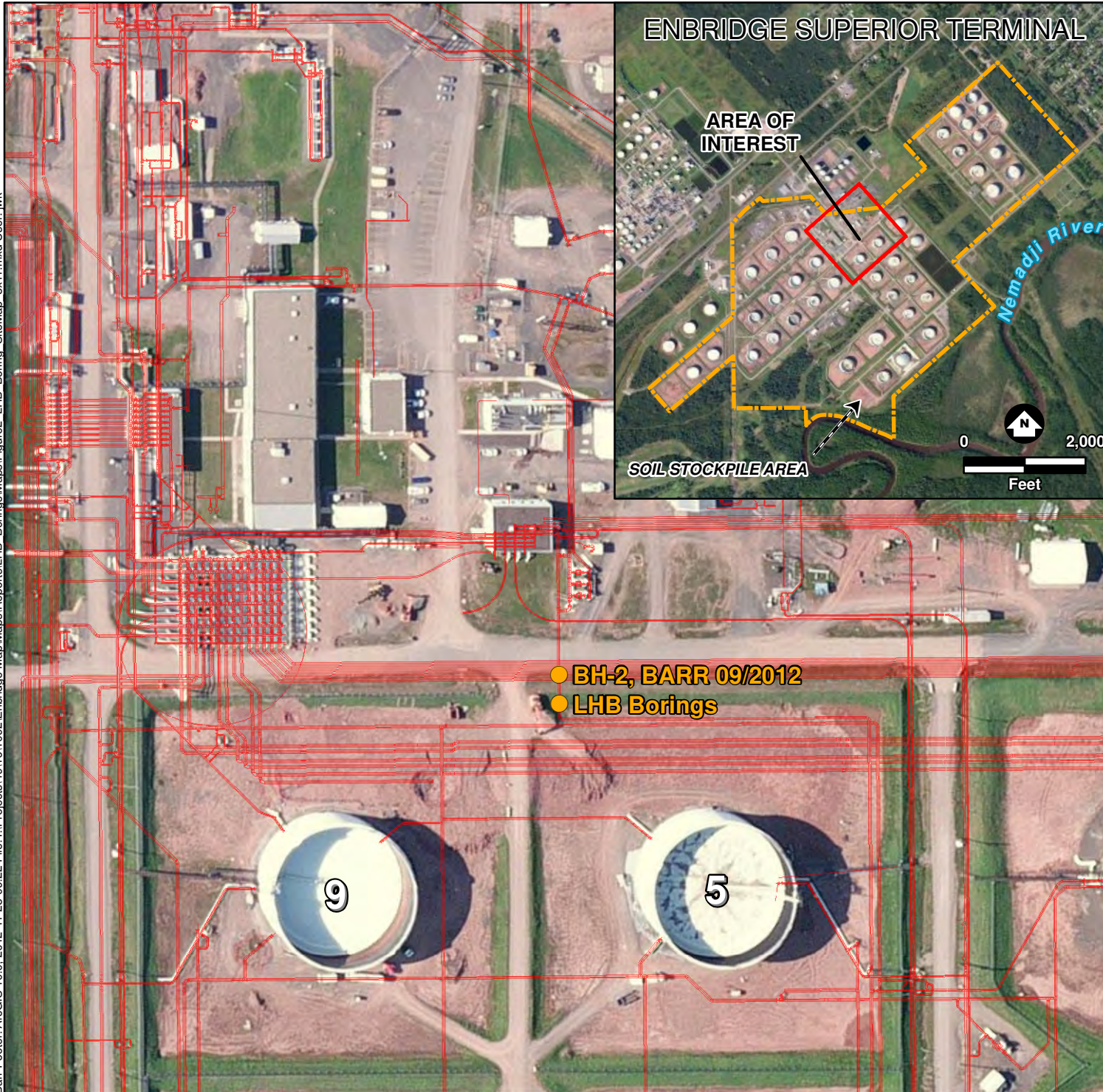
Feet
1 Inch = 2,000 Feet

Figure 1

SITE LOCATION
LHB BORING
SUPERIOR TERMINAL
Enbridge Energy, L.P.
Superior, Wisconsin



Barr Footer: ArcGIS 10.0, 2012-11-28 09:22 File: I:\Projects\491161\1092\Enbridge Map\Reports\LHB Borings\Map\Reports\LHB Borings\Map\Reports\Figure2_LHB Borings\Map\Reports\Figure2_LHB Borings_SiteMap_8x11.mxd User: mwk



- Crude Oil Impacted Hydrovac
- Pipeline Infrastructure
- - - Terminal Property Boundary

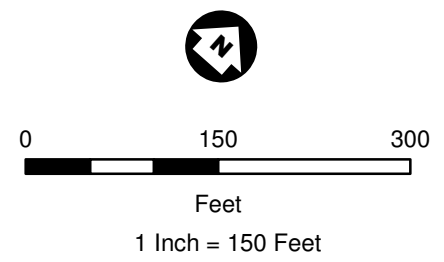


Figure 2

SITE MAP
LHB BORINGS
 Enbridge Energy, L.P.
 Superior, Wisconsin





REPORT NAME: **Tons Each Load By WSID**
DESCRIPTION: **Tonnage for EACH LOAD, grouped by customer**
DATE RANGE: **01/01/2012 to 11/30/2012**
PRINTED ON (DATE): **Friday, November 30, 2012**

ENBS1

Enbridge Pipelines Limited Partnership,
2800 East 21st St
Superior WI 54880

LOAD #	MANIFEST	ARRIVED	WASTE STREAM	WASTE NAME	CELL	SPOT.	LIFT	TONS
5762 (A)	10873	11/12/2012	CL12-0067	Crude Contaminated Soil (Pipe Rac	1A	T34	1170	12.24
5765 (A)	10874	11/12/2012	CL12-0067	Crude Contaminated Soil (Pipe Rac	1A	T34	1170	14.56
5766 (A)	10875	11/12/2012	CL12-0067	Crude Contaminated Soil (Pipe Rac	1A	T34	1170	9.93

Total # of Loads: 3 **Total Tons: 36.73**

Grand Total (Tons): 36.73
Grand Total (Loads): 3



Waste Profile Sheet



P.O. Number	Customer Code	SKB Representative Jon Penheiter	CL
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I. Generator Information

Generator Name: Enbridge Pipelines Limited Partnership, LLC		Generator EPA ID Number	SIC Code
Generator Location: Enbridge Superior Terminal -Pipe Rack Boring	County: Douglas	Generator Contact: Paul Turner	
Generator Mailing Address (if different: 1320 Grand Ave, Superior, WI 54880)		Phone: 715-398-4752	Fax: 715-398-3223
Bill To Name & Address: Enbridge Energy, 1100 Louisiana Ave, STE. 3300, Houston, TX 77002		Bill To #:	Billing Contact: Paul Turner
Invoice Contact:		Phone: 715-398-9192	Fax: 715-398-3223
		Billing Email Address: paul.turner@enbridge.com	

II. Waste Generation Information

Waste Name: Pipe Rack Boring	Estimated rate of waste generation: 10 <input type="checkbox"/> Lbs. <input type="checkbox"/> tons <input checked="" type="checkbox"/> cy <input type="checkbox"/> drums	<input checked="" type="checkbox"/> one time <input type="checkbox"/> yearly
Generator Facility Operations and/or Site History: Enbridge Pipeline Terminal		
Describe the generating process or source of contaminated soil/debris and/or waste: Pipeline Terminal Activities		

III. Waste Composition and Constituents (list all known)

	Actual Range	
	%	ppm
Crude contaminated soil	100	

IV. Waste Properties

Physical state: <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Sludge <input type="checkbox"/> Gas	Free Liquids: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Content _____ %	pH Range: <input type="checkbox"/> <2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 5-8 <input type="checkbox"/> 8-12.4 <input type="checkbox"/> >12.5	Flash point: <input type="checkbox"/> ≤ 140°F <input type="checkbox"/> > 140°F to < 200°F <input type="checkbox"/> > 200°F	Color: Brown	Odor (describe): petroleum odor
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V. Waste Classification

Waste stream properties (answer ALL questions)	Does this waste contain absorbents? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does this waste contain lethal (by Minn. Rules 7045.0131 Subp. 6)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Does this waste stream contain any D, F, K, U or P listed as hazardous waste, either in pure form, as a mixture, or treatment residue? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does this waste stream contain PCB material If yes, concentration: _____ppm <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is this waste recyclable? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Does this waste stream contain fuming acids? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does this waste contain asbestos? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is this waste explosive? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Does this waste contain oxidizers? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does this waste contain radioactive material? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is this waste infectious? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Please attach any available information or analytical test results that have previously been performed on this waste that substantiates these determinations. Include MSDS's and any information from other agencies (i.e., MPCA, USEPA)		Is this waste putrescible waste? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Is this waste demolition debris? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Is this waste sewer sludge? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

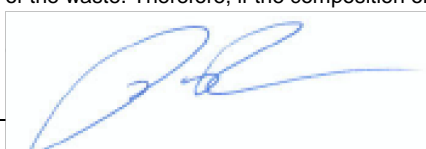
VI. Shipping Information

Proper DOT Shipping Name (per CFR 172.101) where applicable			
Reportable Quantity	DOT Hazard Class	UN/NA Number	Packing Group
Method of packaging: <input type="checkbox"/> drums (size _____) <input checked="" type="checkbox"/> Bulk Solids <input type="checkbox"/> boxes (size _____)		Method of shipment <input type="checkbox"/> Roll-off <input checked="" type="checkbox"/> End dump <input type="checkbox"/> Rail <input type="checkbox"/> Other (Specify) _____	

VII. Certification of Non Hazardous Waste & Approval Conditions

I hereby certify and warrant, on behalf of the generator and myself that, to the best of my knowledge and belief, the information contained herein is accurate, and true and that the waste is nonhazardous as defined in Title 42, Unites States Code Section 6903, Minnesota Statute Section 116.06, Subdivision 13, and/or any rules adopted by the Minnesota Pollution Control Agency under Minnesota Statute Section 116.07.

I understand that any approval is no longer valid if there are any changes in the process generating the waste or there have been changes in the composition of the waste. Therefore, if the composition of the waste stream changes or potentially changes, I or someone representing the generator, will immediately generator, hereby agree to fully indemnify SKB Environmental for any damages and/or costs incurred as a result



_____ Paul Turner Environmental Analyst _____
Printed Name Title Date



88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

August 15, 2012

REVISION

Ms. Andrea Nord
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 1203709
RE: 49161172

This is a revised report. The details of the revision are listed in the case narrative on the following page.

Enclosed are the results of analyses for samples received by the laboratory on 08/10/12. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

WI Certification #998022410

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Handwritten signature of Bach Pham in black ink.

Bach Pham
Client Manager I
bpham@legend-group.com

Handwritten signature of Tyler Jones in black ink.

Tyler Jones
Chemist I
tjones@legend-group.com

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 49161172 Project Number: 49161172 Pipe Rock Project Manager: Ms. Andrea Nord	Work Order #: 1203709 Date Reported: 08/15/12
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pipe Rock	1203709-01	Soil	08/09/12 14:00	08/10/12 08:45
Trip Blank	1203709-02	Methanol	08/09/12 00:00	08/10/12 08:45

Shipping Container Information

Default Cooler Temperature (°C): 6.8

Received on ice: Yes Temperature blank was present Received on ice pack: No
 Received on melt water: No Ambient: No Acceptable (IH/ISO only): No
 Custody seals: No

Case Narrative:

This report was revised on August 15, 2012 to attach the DRO chromatogram for the sample. This report supercedes the report dated August 14, 2012.

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 49161172 Project Number: 49161172 Pipe Rock Project Manager: Ms. Andrea Nord	Work Order #: 1203709 Date Reported: 08/15/12
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DRO/8015B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pipe Rock (1203709-01) Soil Sampled: 08/09/12 14:00 Received: 08/10/12 8:45										
Diesel Range Organics	120	14	2.3	mg/kg dry	1	B2H1312	08/13/12	08/13/12	WI(95) DRO	L1
Surrogate: <i>Triacotane (C-30)</i>	86.5			70-130 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 49161172 Project Number: 49161172 Pipe Rock Project Manager: Ms. Andrea Nord	Work Order #: 1203709 Date Reported: 08/15/12
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WI(95) GRO/8015B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pipe Rock (1203709-01) Soil Sampled: 08/09/12 14:00 Received: 08/10/12 8:45										
Benzene	<0.036	0.036	0.0054	mg/kg dry	1	B2H1306	08/13/12	08/13/12	WI(95) GRO	
Ethylbenzene	<0.036	0.036	0.0067	mg/kg dry	1	"	"	"	"	
Toluene	<0.036	0.036	0.0034	mg/kg dry	1	"	"	"	"	
Xylenes (total)	<0.11	0.11	0.017	mg/kg dry	1	"	"	"	"	
<i>Surrogate: 4-Fluorochlorobenzene</i>	98.2			80-150 %		"	"	"	"	
Trip Blank (1203709-02) Methanol Sampled: 08/09/12 00:00 Received: 08/10/12 8:45										
Benzene	<0.025	0.025	0.0038	mg/kg wet	1	B2H1306	08/13/12	08/13/12	WI(95) GRO	
Ethylbenzene	<0.025	0.025	0.0047	mg/kg wet	1	"	"	"	"	
Toluene	<0.025	0.025	0.0024	mg/kg wet	1	"	"	"	"	
Xylenes (total)	<0.075	0.075	0.012	mg/kg wet	1	"	"	"	"	
<i>Surrogate: 4-Fluorochlorobenzene</i>	94.3			80-150 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 49161172 Project Number: 49161172 Pipe Rock Project Manager: Ms. Andrea Nord	Work Order #: 1203709 Date Reported: 08/15/12
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PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pipe Rock (1203709-01) Soil Sampled: 08/09/12 14:00 Received: 08/10/12 8:45										
% Solids	65			%	1	B2H1408	08/14/12	08/14/12	% calculation	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 49161172 Project Number: 49161172 Pipe Rock Project Manager: Ms. Andrea Nord	Work Order #: 1203709 Date Reported: 08/15/12
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DRO/8015B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B2H1312 - Sonication (Wisc DRO)											
Blank (B2H1312-BLK1)											
						Prepared & Analyzed: 08/13/12					
Diesel Range Organics	< 8.0	8.0	1.3	mg/kg wet							
Surrogate: <i>Triacontane (C-30)</i>	11.6			mg/kg wet	16.0		72.7	70-130			
LCS (B2H1312-BS1)											
						Prepared & Analyzed: 08/13/12					
Diesel Range Organics	50.7	8.0	1.3	mg/kg wet	64.0		79.2	70-120			
Surrogate: <i>Triacontane (C-30)</i>	12.4			mg/kg wet	16.0		77.8	70-130			
LCS Dup (B2H1312-BSD1)											
						Prepared: 08/13/12 Analyzed: 08/14/12					
Diesel Range Organics	51.5	8.0	1.3	mg/kg wet	64.0		80.4	70-120	1.59	20	
Surrogate: <i>Triacontane (C-30)</i>	13.6			mg/kg wet	16.0		85.3	70-130			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 49161172 Project Number: 49161172 Pipe Rock Project Manager: Ms. Andrea Nord	Work Order #: 1203709 Date Reported: 08/15/12
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WI(95) GRO/8015B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B2H1306 - EPA 5035 Soil (Purge and Trap)

Blank (B2H1306-BLK1)

Prepared & Analyzed: 08/13/12

Benzene	< 0.025	0.025	0.0038	mg/kg wet							
Ethylbenzene	< 0.025	0.025	0.0047	mg/kg wet							
Toluene	< 0.025	0.025	0.0024	mg/kg wet							
Xylenes (total)	< 0.075	0.075	0.012	mg/kg wet							
Surrogate: 4-Fluorochlorobenzene	23.0			ug/L	25.0		91.9	80-150			

LCS (B2H1306-BS1)

Prepared & Analyzed: 08/13/12

Benzene	92.6			ug/L	100		92.6	80-120			
Ethylbenzene	95.9			ug/L	100		95.9	80-120			
Toluene	93.1			ug/L	100		93.1	80-120			
Xylenes (total)	288			ug/L	300		95.9	80-120			
Surrogate: 4-Fluorochlorobenzene	24.0			ug/L	25.0		96.1	80-150			

LCS Dup (B2H1306-BSD1)

Prepared & Analyzed: 08/13/12

Benzene	95.1			ug/L	100		95.1	80-120	2.72	20	
Ethylbenzene	98.5			ug/L	100		98.5	80-120	2.77	20	
Toluene	96.1			ug/L	100		96.1	80-120	3.17	20	
Xylenes (total)	301			ug/L	300		100	80-120	4.59	20	
Surrogate: 4-Fluorochlorobenzene	25.0			ug/L	25.0		100	80-150			

Matrix Spike (B2H1306-MS1)

Source: 1203710-01

Prepared & Analyzed: 08/13/12

Benzene	94.1			ug/L	100	<	94.1	80-120			
Ethylbenzene	97.7			ug/L	100	0.134	97.5	80-120			
Toluene	95.5			ug/L	100	0.139	95.4	80-120			
Xylenes (total)	293			ug/L	300	<	97.7	80-120			
Surrogate: 4-Fluorochlorobenzene	23.7			ug/L	25.0		94.7	80-150			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 49161172 Project Number: 49161172 Pipe Rock Project Manager: Ms. Andrea Nord	Work Order #: 1203709 Date Reported: 08/15/12
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PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B2H1408 - General Preparation											
Duplicate (B2H1408-DUP1)											
	Source: 1203714-02		Prepared & Analyzed: 08/14/12								
% Solids	91.0			%		91.0			0.00	20	
Duplicate (B2H1408-DUP2)											
	Source: 1203714-04		Prepared & Analyzed: 08/14/12								
% Solids	93.0			%		94.0			1.07	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 49161172 Project Number: 49161172 Pipe Rock Project Manager: Ms. Andrea Nord	Work Order #: 1203709 Date Reported: 08/15/12
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Notes and Definitions

L1	Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)



Chain of Custody

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

1203709
Enbridge

Project Number: 4916-1172

Project Name: Pipe Rack Geotechnical

Sample Origination State WI (use two letter postal state abbreviation)

COC Number: No 35266

Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix		Type		Number of Containers/Preservative										Total Number Of Containers					
						Water	Soil	Grab	Comp.	QC	Water					Soil									
										VOCs (HCl) #1	SVOCS (unpreserved) #2	Dissolved Metals (HNO ₃)	Total Metals (HNO ₃)	General (unpreserved) #3	Diesel Range Organics (HCl)	Nutrients (H ₂ SO ₄) #4	VOCs (tared MeOH) #1	GRX, BTEX (tared MeOH) #1	DRO (tared unpreserved)	Metals (unpreserved)	SVOCS (unpreserved) #2	% Solids (plastic vial, unpres.)	BTEX		
1. Pipe Rack	-	-	-	8/19/12	1400			X	X										X			X	X		3
2. Trip Blank																									
3. 3/19/12 #																									
4.																									
5.																									
6.																									
7.																									
8.																									
9.																									
10.																									

COC 1 of 1

Project Manager: REE

Project QC Contact: AAN

Sampled by: BSL2

Laboratory: Legend

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRX, TPH, 8260 Full List

#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs

#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate

#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By: [Signature] On Ice? No Yes Date: 8/20/12 Time: 1430

Relinquished By: [Signature] On Ice? No Yes Date: 8/19/12 Time: 8:45

Received by: [Signature] Date: 8/19/12 Time: 8:45

Samples Shipped VIA: Air Freight Federal Express Sampler Other: _____ Air Bill Number: _____

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator
Fedex 6.8⁰⁰



88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

Legend Technical Services, Inc. The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Page 10 of 11

Data File: \\lts-target\targetdata\chem\FID6.i\Aug13.b\009.d

Date : 13-AUG-2012 17:48

Client ID:

Sample Info: 1203709-01

Pipe Rock

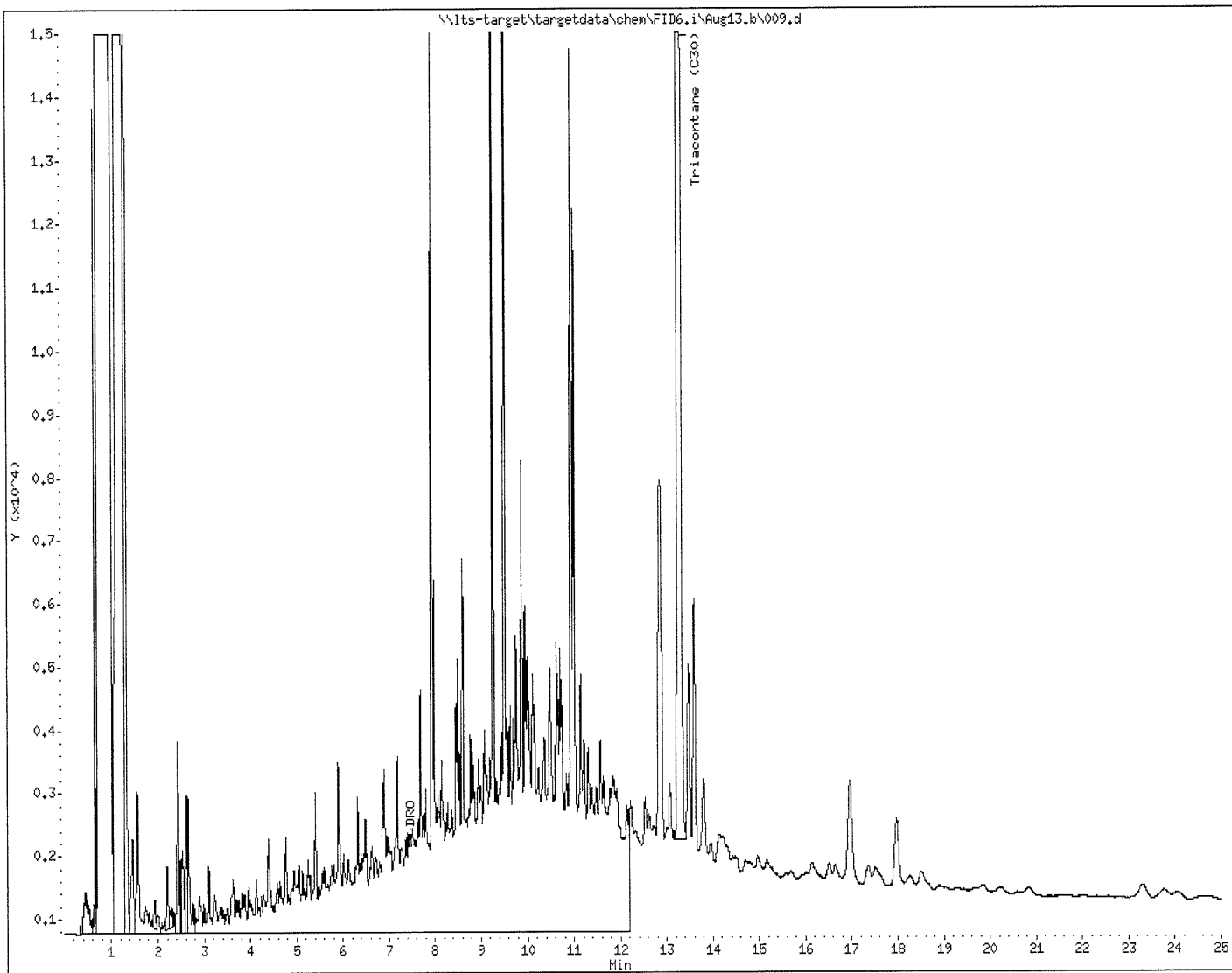
Instrument: FID6.i

Operator: TL

Column diameter: 0.53

Column phase:

VF 6141e





August 27, 2012

Paul Turner
Enbridge Pipelines Limited Partnership, LLC
Central Square Office
1320 Grand Ave
Superior, WI 54880

RE: CL12-0067 Crude Contaminated Soil (Pipe Rack Boring)

Dear Mr. Turner,

This agreement will confirm the price and length of service for disposal and /or transportation of your non-hazardous industrial material at our facility. This agreement is for the term of the Waste Approval granted by SKB and is for all services ordered and performance initiated within such period and does include the disposal surcharge fees which you are obligated to pay as of the date of this agreement. SKB may incur additional costs including but not limited to increases in state and local taxes. SKB may pass these costs on to the customer only after notification to the Customer. This agreement grants SKB the exclusive right to dispose of the referenced waste for the term of this agreement. This agreement shall automatically renew thereafter for an additional term of 24 months "Renewal Term" unless either party gives the other party written notification of termination at least 90 days prior to the termination of the then-existing term. SKB will notify the customer prior to the expiration of the agreement of any rate changes prior to the start of the Renewal Term.

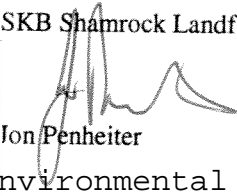
Payment and terms are net thirty (30) days. Interest will be charged at a rate of 1 ½% per month (18% annually) on any unpaid balance 30 days after the date of the invoice. In the event Customer terminates this Agreement prior to its expiration other than as a result of a breach by SKB or SKB terminates this agreement for Customer's breach (including nonpayment) Customer agrees to pay to SKB as liquidated damages a sum calculated as follows: (1) if the remaining term under this agreement is six or more months Customer shall pay its average monthly charges multiplied by six; or (2) if the remaining term under this agreement is less than six months Customer shall pay its average monthly charge multiplied by the number of months remaining in the term. Customer expressly acknowledges that in the event of an unauthorized termination of this agreement the anticipated loss to SKB in such event is estimated to be the amount set forth in the foregoing liquidated damages provision and such estimated value is reasonable and is not imposed as a penalty.

These prices are based on an approved waste stream composition. In the event that a non-conforming waste is received, you will be notified of additional charges, when applicable.

To accept this agreement, please sign one copy and return it to our Rosemount, MN office at SKB Rosemount, 13425 Courthouse Blvd, Rosemount, MN 55068 or Via Fax at 651/438-1549 or email to jonp@skbinc.com.

SKB Shamrock Landfill




Jon Penheiter
Environmental Analyst

Customer ACCEPTED

DATE: 8/28/2012

WASTE APPROVAL Period: 8/27/2012 to 8/9/2014



Bill To Customer

Enbridge Pipelines Limited Partnership, LLC
Central Square Office
1320 Grand Ave
Superior, WI 54880

Service For Generator

Enbridge Pipelines Limited Partnership, LLC
2800 East 21st St
Superior, WI 54880

Disposal

Waste Description: Crude Contaminated Soil (Pipe Rack Boring)

Estimated Volume: 10 YARDS / ONE TIME ONLY

Disposal Method: Secure Non-Hazardous Landfill

Treatment Method: None Expected For Conforming Waste

Pricing

Disposal	\$19.00	Per Ton	Crude Contaminated Soil (Pipe Rack Boring)
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Notification of Waste Acceptance

PAGE 1 of 2
8/27/2012

CUSTOMER INFORMATION

EPA ID#: WID981092133
Enbridge Pipelines Limited Partnership,
Enbridge Superior Terminal

2800 East 21st St
Superior, WI 54880
Contact: Paul Turner
Phone: (715) 398-4752

INVOICE INFORMATION

Bill #: 2133
Enbridge Pipelines Limited Partnership,
Central Square Office

1320 Grand Ave
Superior, WI 54880
Contact: Paul Turner
Phone: (715) 398-4752

Profile Sheet #:
Waste Stream #: CL12-0067
Waste Name: Crude Contaminated Soil (Pipe Rack Boring)

Thank you for selecting SKB SHAMROCK LANDFILL for your waste management requirements. Your waste stream has been reviewed and is acceptable for management at our facility based on the information provided in the profile sheet number listed above and conditions below. Our facility has the necessary permits to allow the storage, treatment, or disposal of this waste. The above referenced acceptance number should be listed on all shipping documents and correspondence. Please retain these documents for your records and future reference.

To schedule a shipment, or should you have any questions, please contact the facility at (218) 878-0112.

ACCEPTANCE INFORMATION

The waste stream identified by the reference above is acceptable for disposal.
The anticipated frequency of shipment is 10 YARDS / ONE TIME ONLY

This waste is acceptable for delivery beginning on 8/27/2012 thru 8/9/2014 at which time the material will need to be reanalyzed and recertified.

PCB Statement: The Minnesota Pollution Control Agency encourages generators of non-hazardous PCB waste to voluntarily manage the waste as hazardous waste or to seek an alternative to land disposal such as incineration

Spill Reporting Reminder: Proper County and MPCA spill reporting procedures must be followed.

Empty Container Statement: Each shipment containing empty containers must be accompanied with a completed 'EMPTY CONTAINER CERTIFICATION FORM'.

Free Liquid Statement: Free liquids will not be placed in cells at SKB Shamrock Landfill. Free liquids must be solidified either prior to shipment to SKB Shamrock Landfill or at SKB Shamrock Landfill.

Shipping Requirements A NON-HAZARDOUS certificate is required to be on file, certifying the waste is non-hazardous as specified per 40 CFR 261.4. The shipment must be accompanied with an SKB Shamrock Landfill manifest.

WASTE STREAM ANALYSIS INFORMATION

Waste Name: Crude Contaminated Soil (Pipe Rack Boring)
Physical State: Solid
Process Producing Waste: pipeline terminal activities

PRE-ACCEPTANCE SAMPLE RESULTS

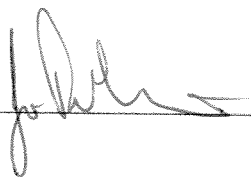
Color:		Physical State:	
Dust Present:	0	Free Liquids:	0
Paint Filter Test:	0	Odor:	
Flash Point Range:		Density:	
Radioactive?:	0	Water Reactivity:	0
pH Range:		React to Acid:	0
React to Base:	0	% Moisture:	
OVN Sniff:		Sulfide:	
Oxidizers:	0	Cyanide:	
Reacts with Air:	0		

This analysis is solely for use by SKB Shamrock Landfill employees for the purpose of determining waste acceptability. No other claims are made or implied.

COMMENTS

AUTHORIZATION

Approval: _____



Date: _____

8/28/12