Technical Memorandum

To:

Alex Smith, Enbridge Energy

From:

Ryan Erickson

Subject: Superior Terminal Historical Contamination - Tank 9

Date: July 8, 2014

BRRTS #: 02-16-552700 (ENBRIDGE ENERGY – TANK 9 PRESSURE LINE)

Project: 49161092.04

This memo summarizes the environmental response actions and waste management assistance provided by Barr Engineering (Barr) at the request of Enbridge Energy (Enbridge) associated with historical contamination identified at the Superior Terminal (Terminal) in Superior, Wisconsin (Figure 1).

Background

Contractors excavating soil for Terminal infrastructure upgrades encountered evidence of hydrocarbon contaminated soil and water in a *Tank 9* infrastructure improvement excavation located in the western corner of the containment basin (Figure 2) in 2015 and 2016. Enbridge was notified about the contamination and an Enbridge representative confirmed that it was not associated with an active release and that the contamination was historical. Observed product was recovered with oil absorbent pads and contaminated soil and water was excavated with a hydrovacuum truck (hydrovac) and was managed in the Terminal soil management area (SMA) until off-site disposal at a landfill facility could be approved and coordinated as described below in the *Waste Management* section of this memo.

Enbridge Environment requested that Barr assist with the following activities:

- assess and document environmental site conditions near the observed contamination
- assist with coordination of the off-site management of contaminated soil
- review the historical release records to identify the possible contamination source(s), and
- prepare a memorandum summarizing the response actions and the site environmental conditions upon the completion of remedial activities.

Field Activities and Results

Barr was onsite on December 7, 2015 and March 9, 2016 to document the conditions present in the *Tank* 9 excavation. The excavation was located in the western corner of the Tank 9 containment basin.

Contaminated soil with a sheen was initially observed in a small hydrovac excavation on December 7 (Photos 1 and 2; Figure 2; Attachment A). Soil field screening and sampling was not conducted at this time because additional excavation in this location was planned. Barr documented the conditions in the final excavation on March 9. The final excavation was approximately 20 feet wide and 10 feet deep and was completed to connect new Tank 9 piping to Terminal infrastructure outside the containment berm (Photo 3). Soil in the excavation sidewalls and bottom consisted of clay with some sand fill around buried infrastructure.

A small, isolated pocket of hydrocarbon contamination was identified by the contractors in some silty sand at the bottom of the final excavation (Photos 3 and 4). Barr field screened soil from the excavation sidewalls and bottom near the observed contamination with a photoionization detector (PID) and

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documented whether other evidence of contamination such as discoloration, odor or sheen were present. Sample S-3 (Attachment A) had a PID headspace of 33.4 parts per million (ppm), a petroleum odor and trace amounts of free-product and rainbow sheen. Soil samples from around the identified contamination were field screened and had headspace readings below 2.9 ppm and no other evidence of impacts. Barr collected soil sample TK9valve-S-1 from the area of contaminated soil for laboratory analysis to document residual contaminant concentrations. Sample TK9valve-S-1 was submitted to the ALS Environmental in

The analyte concentrations detected in *TK9valve-S-1* were below Wisconsin Department of Natural Resources (WDNR) industrial direct contact residual contaminant levels (RCLs), below WDNR groundwater RCLs, and passed the Cumulative Hazard Index criteria. The analytical data is summarized in Table 1 below and the laboratory report is included in Attachment B.

Holland, Michigan for analysis of petroleum volatile organic compounds (PVOC) and naphthalene.

TABLE 1: Analytical Soil Sample Results (all analyte concentrations in mg/kg)

Sample ID	Sample Date	Sample Depth (feet)	1,2,4- Trimethyl benzene	1,3,5- Trimethyl benzene	Benzene	Ethyl benzene	Toluene	Total Xylenes	Naphthalene
Groundwater RCLs			1.3821	1.3821	0.0051	1.57	1.1072	3.96	0.6582
Industrial DC RCLs			219	182	7.41	37	818	260	26
TK9valve-S-1	3/9/2016	3.5	0.074	0.068	<0.013	0.031	<0.019	0.062	0.150

BOLD = Analyte detections

The Tank 9 excavation was backfilled with clean soil upon completion of the project work.

Barr reviewed the WDNR Bureau for Remediation and Redevelopment Tracking System (BRRTS) online database for historical releases near the *Tank 9* excavation and identified the following:

• ENBRIDGE ENERGY – TANK 9 PRESSURE LINE (BRRTS# 02-16-552700): On August 25, 2008, approximately 115 barrels of crude oil were released from the Tank 9 pressure valve approximately 70 feet east of the recent infrastructure excavations described above. The site was closed by the WDNR on December 10, 2008 based on subsequent remediation and investigation activities. There is a significant amount of buried infrastructure connecting the release location and the recent Tank 9 infrastructure excavations. BRRTS# 02-16-558987 was opened and closed in 2012 and addressed historical crude oil contamination from the 2008 release that was encountered in infrastructure improvement excavations.

Receptor Survey

The closest groundwater monitoring wells at the Terminal are *MW-20A and MW-20B*, located approximately 850 feet to the south. Groundwater samples collected from this well on May 21, 2016 had PVOC and naphthalene concentrations below method detection limits. The wells will be sampled again in

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the fall of 2016 as part of the Terminal groundwater monitoring program and the results will be submitted the WDNR.

The residual contamination was located below the ground surface and was buried with clean fill material; therefore, there is no risk to surface water receptors or risk of direct contact exposure.

No vapor receptors were identified within 100 feet of the excavations.

Waste Management

117.40 tons of contaminated soil was segregated from the excavations and was sent to the Shamrock Landfill in Cloquet, Minnesota under waste profile CL14-0028 and to the VONCO V landfill in Duluth, Minnesota under waste profile 16-007-1. The associated Non-Hazardous Shipping Manifests and landfill weight tickets are included in Attachment C.

Any contaminated water with a sheen or product that was encountered in the excavation was removed with a hydrovac truck and the slurry soil was classified as contaminated and disposed of at the VONCO V landfill, as described above. Only small volumes of contaminated water were identified.

Conclusions

Contaminated soil excavated from the Tank 9 basin was managed at an approved landfill. Contaminated soil that could not be excavated had analyte concentrations below the WDNR industrial direct contact RCL's, WDNR groundwater RCL's, and passed the WDNR Cumulative Hazard Index criteria. Groundwater monitoring at the Superior Terminal is conducted on a facility wide basis as part of the hydrogeologic performance standard established in the WDNR SI/RAP (2014). The presence of clean backfill and employee-awareness will help prevent direct contact exposure.

Contaminated soil encountered within the Tank 9 basin is likely associated with the 2008 crude oil release (WDNR BRRTS# 02-16-552700) based on proximity to the historical release and the similar environmental conditions encountered at this location in 2012. It is recommended that this memo be added to the existing and closed historical release BRRTS project file. Barr believes that no further response action will be requested by the WDNR for this site at this time.

Attachments

Site Photos

1 through 4

Figure 1

Site Location

Figure 2

Site Layout

Attachment A

Site Investigation Field Sampling and Screening Log

Attachment B

ALS Laboratory Report

Attachment C

Waste Management Documentation

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Site Photos



Photo 1 Photo 2

Photo 1: Hydrovac excavation in western corner of Tank 9 containment basin. Photo taken facing east on December 7, 2015.

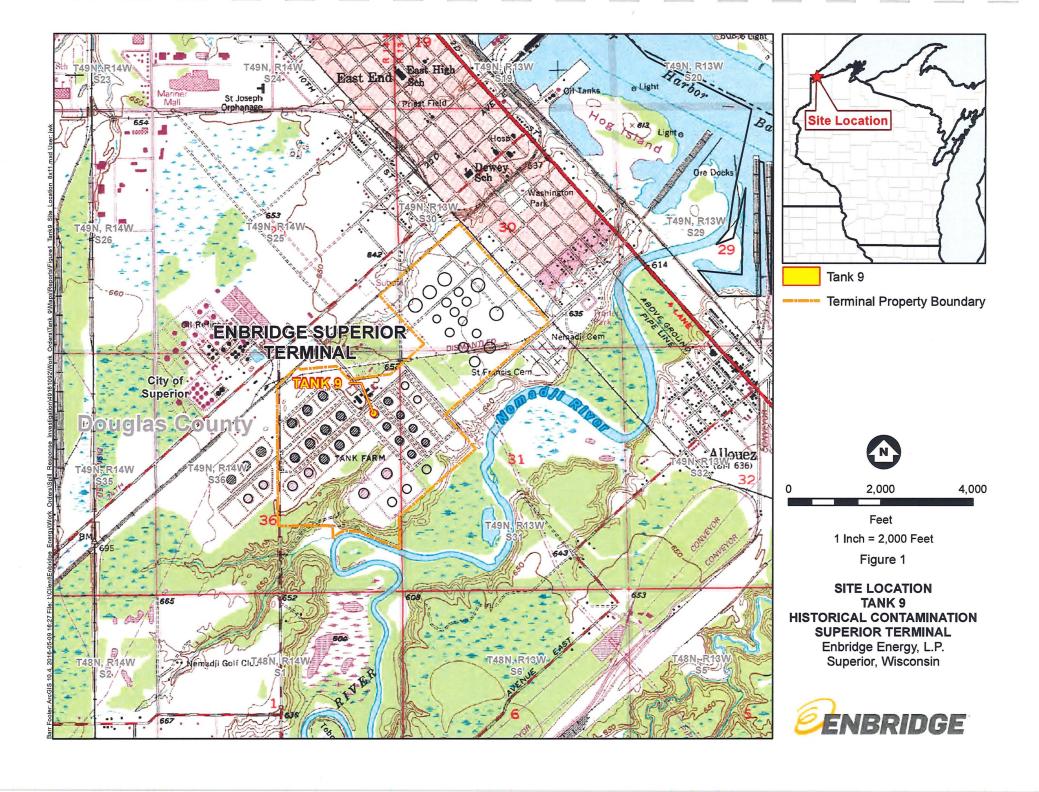
Photo 2: Bottom of Tank 9 excavation with water that has a visible hydrocarbon sheen. Photo taken on December 7, 2015.

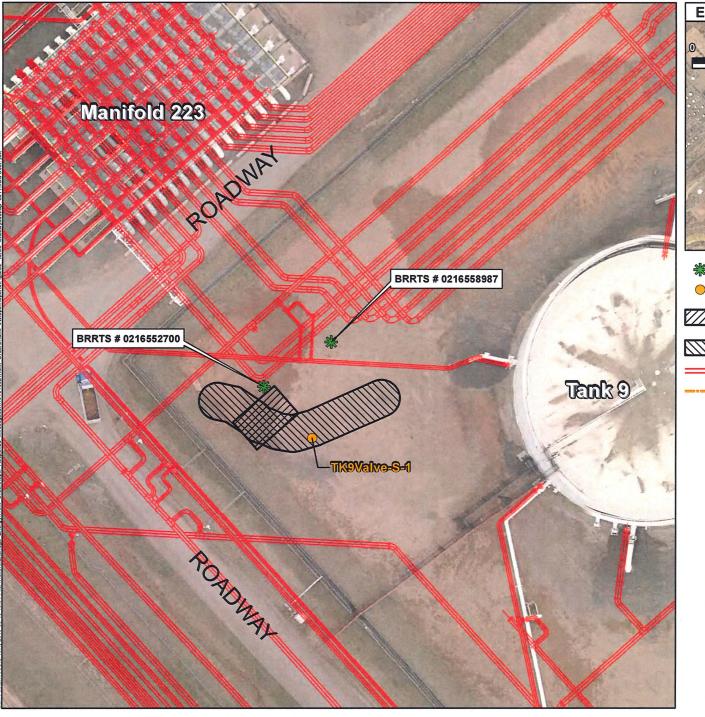


Photo 3 Photo 4

Photo 3: Expanded Tank 9 infrastructure improvement excavation. Hydrocarbon contaminated soil was present in the bottom of the excavation near the white oil absorbent pads visible in the bottom-center of the photo. Photo taken facing northwest on March 9, 2016.

Photo 4: Hydrocarbon contaminated soil and water in the bottom of the excavation. Photo taken facing northwest on March 9, 2016.







Historical Release Location

Analytical Sample Location

Approximate Extent of 12/7/2015 Excavation

Approximate Extent of 3/9/2016 Excavation

Pipeline Infrastructure

Terminal Property Boundary



0 50 100

Feet 1 Inch = 50 Feet

Douglas County Imagery Circa May, 2013

Figure 2

SITE LAYOUT
TANK 9
HISTORICAL CONTAMINATION
SUPERIOR TERMINAL

Enbridge Energy, L.P. Superior, Wisconsin



Attachment A

Site Investigation Field Sampling and Screening Log

E	Location: Equipmer Sample N	Milepost nt used: <u>F</u> omenclat	or Facili <u>ਮਿਹਾਣ</u> - ure (Loc	ty <u> </u>	n K G detecto mple typ	r with <u> 1.7</u> ne - #):	eV lamp	•	Terminal, WT Background Headspace: O.Oppm Date: 3/9/16 Sampler: NR52 Replie = Stockpile Sample Calibration Time: 1300
	Samp	ile ID	Depth	39/16 Time (military)	Soil Type (uscs)	Color/ Discolor	Odor/ Sheen	Headspace Reading (ppm)	SITE SKETCH: north is up; excavation extents & depths, impacted areas, sample locations, borings, wells, structures, utilities, natural features 1 inch/grid = 20 FEET
	Example:	TK99-S-1	4	<u>16:30</u>	CI	Reddish brown	Petroleum/ Rainbow	<u>275</u>	Man. Fold ZZ3
	5 -	i	3.	14:15	CL	Brom	nont/non	0.0	/ Jan. Fold 22
	5-	2	7		CL			0-0	20'
. -	5-	3	9		5M		oderforces	33.4	- Rd
	5-	4	9		CL			2.9	Approximate Extent of
	13-	- 1	10	1	CL			0.0	12/7/2015 Exercised ton
						,			7 Bom
	5								
-	TK9 V	145-	19	1430	CL	Redelish 13.0mm	ow/snu	5-3	DI - Pipe Back
									Rd. TKGVUIN -5-1
L									Rd. TKarvaille
									Bem 1
									5-3.
									Contramoctors 5-1/1
Γ									Contaminated 5-1/ Exercision
									Extents
									3
r									Think 9 Think 9 Basin.
T									Basin.
-	****								
1									· Location Screened of analytical Sample

odur is perroleum oder

Exercation ~ 100' x 15' x 10' deep.

Attachment B

ALS Laboratory Report



15-Mar-2016

Rvan Erickson Barr Engineering Company 4300 MarketPointe Drive Minneapolis, MN 55435

Re: Enbridge Tank 9 Check Valve (49161092.04)

Work Order: 1603669

ALS Environmental received 2 samples on 11-Mar-2016 for the analyses presented in the following

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiare in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to contact me.

Sincerely.

Romer G. B.

Tom Beamish

Client Services Coordinator



Report of Laboratory Analysis

www.alsglobal.com

ALS Group USA, Corp

APHA Standard Methods ASTM

Description Percent of Sample
Micrograms per Kilogram
Micrograms per Kilogram Dry Weight

SW-846 Update III

sw

Units Reported

Date: 15-Mar-16

Client: Project: WorkOrder:	Barr Engineering Company Enbridge Tank 9 Check Valve (49161092.04) 1603669	QUALIFIERS, ACRONYMS, UNITS
Qualifier	Description	
•	Value exceeds Regulatory Limit	
	Not accredited	
В	Analyte detected in the associated Method Blank above the Reporting Limit	
E	Value above quantitation range	
Н	Analyzed outside of Holding Time	
J	Analyte is present at an estimated concentration between the MDL and Report Limit	
n ND	Not offered for accreditation Not Detected at the Reporting Limit	
O	Not Detected at the Reporting Limit Sample amount is > 4 times amount spiked	
P	Dual Column results percent difference > 40%	
R	RPD above laboratory control limit	
s	Spike Recovery outside laboratory control limits	
U	Analyzed but not detected above the MDL	
x	Analyte was detected in the Method Blank between the MDL and PQL, sample results contamination at the observed level.	may exhibit background or reagent
Acronym	Description	
DUP	Method Duplicate	
LCS	Laboratory Control Sample	
LCSD	Laboratory Control Sample Duplicate	
LOD	Limit of Detection (see MDL)	
LOQ	Limit of Quantitation (see PQL)	
MBLK	Method Blank	
MDL	Method Detection Limit	
MS	Matrix Spike	
MSD	Matrix Spike Duplicate	
PQL	Practical Quantitation Limit	
RPD	Relative Percent Difference	
TDL	Target Detection Limit	
TNTC	Too Numerous To Count	

ALS Group USA, Corp

Date: 15-Mar-16

Client: Project: Work Order:	Barr Engineering Compa Enbridge Tank 9 Check 1 1603669	•	Work Order Sample Summar					
Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold		
1603669-01	TK9 Valve-S-1	Soil		3/9/2016 14:30	3/11/2016 10:30			
1603669-02	Trip Blank	Soil		3/9/2016	3/11/2016 10:30			

Sample Summary Page 1 of 1

ALS Group USA, Corp.

Date: 15-Mar-16

	, <u>-</u>	
Client:	Barr Engineering Company	
Project: Work Order:	Enbridge Tank 9 Check Valve (49161092.04) 1603669	Case Narrative

Samples for the above noted Work Order were received on 03/11/16. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:

No deviations or anomalies were noted.

Wet Chemistry: No deviations or anomalies were noted.

ALS Group USA, Corp

Date: 15-Mar-16

| Client: Barr Engineering Company
| Project: Enbridge Tank 9 Check Valve (49161092.04)
| Sample ID: TK9 Valve S-1
| Collection Date: 3/9/2016 02:30 PM

Work Order: 1603669 Lab ID: 1603669-01 Matrix: SOIL

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Meth	od: SW8260B		Prep: SW503	5 / 3/14/16	Analyst: BG
1,2,4-Trimethylbenzene	74		11	56	µg/Kg-dry	1	3/14/2016 17:41
1,3,5-Trimethylbenzene	68		25	56	µg/Kg-dry	1	3/14/2016 17:41
Benzene	U		13	56	µg/Kg-dry	1	3/14/2016 17:41
Ethylbenzene	31	J	13	56	µg/Kg-dry	1	3/14/2016 17:41
m,p-Xylene	62	J	25	110	µg/Kg-dry	1	3/14/2016 17:41
Naphthalene	150	J	9.6	190	µg/Kg-dry	1	3/14/2016 17:41
o-Xylene	U		18	56	µg/Kg-dry	1	3/14/2016 17:41
Toluene	U		19	56	μg/Kg-dry	1	3/14/2016 17:41
Xylenes, Total	62	J	44	170	µg/Kg-dry	1	3/14/2016 17:41
Surr: 1,2-Dichloroethane-d4	102			70-130	%REC	1	3/14/2016 17:41
Surr: 4-Bromofluorobenzene	93.8			70-130	%REC	1	3/14/2016 17:41
Surr: Dibromofluoromethane	₽8.6			70-130	%REC	1	3/14/2016 17:41
Surr: Toluene-d8	96.2			70-130	%REC	1	3/14/2016 17:41
MOISTURE		Meth	od: SW3550C				Analyst: ED
Moisture	30		0.025	0.050	% of sample	1	3/11/2016 18:10

ALS Group USA, Corp

Date: 15-Mar-16

Work Order: 1603669 Lab ID: 1603669-02 Matrix: SOIL

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Meth	od: SW8260B		Prep: SW	5035 / 3/14/16	Analyst: BG
1,2,4-Trimethylbenzene	U		6.0	30	μg/Kg	1	3/14/2016 18:08
1,3,5-Trimethylbenzene	U		13	30	µg/Кg	1	3/14/2016 18:08
Benzene	U		6.8	30	μg/Kg	1	3/14/2016 18:08
Ethylbenzene	U		7.0	30	μg/Kg	1	3/14/2016 18:08
m,p-Xylene	U		13	60	μg/Kg	1	3/14/2016 18:08
Naphthalene	U		5.1	100	μg/Kg	1	3/14/2016 18:08
o-Xylene	U		9.7	30	μg/Kg	1	3/14/2016 18:08
Toluene	U		9.9	30	μg/Kg	1	3/14/2016 18:08
Xylenes, Total	U		23	90	μg/Kg	1	3/14/2016 18:08
Surr: 1,2-Dichloroethane-d4	102			70-130	%REC	1	3/14/2016 18:08
Surr: 4-Bromofluorobenzene	95.2			70-130	%REC	1	3/14/2016 18:08
Surr: Dibromofluoromethane	00.2			70-130	%REC	1	3/14/2016 18:08
Surr: Toluene-d8	00.1			70-130	%REC	1	3/14/2016 18:08

See Qualifiers page for a list of qualifiers and their definitions.

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See Qualifiers page for a list of qualifiers and their definitions.

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ALS Group USA, Corp

Barr Engineering Company 1603669 Enbridge Tank 9 Check Valve (49161092.04) Client: Work Order: Project:

Date: 15-Mar-16

QC BATCH REPORT

Batch ID: 83483	Instrument ID VMS9			Method:	SW8260B						
MBLK Semp	xe ID: MBLK-83483-	83483				nits: µg/l	(g-dry	Analysis Date:	3/15/2018 0	02:38 AM	
Client ID:		Run ID: VMS	9_1603	14B	Ser	qNo: 373	3862	Prep Date: 3/14/2016	DF: 1		
					SPK Ref		Control	RPD Ref	RPD		
Analyte	Result	MDL	PQL	SPK Val		%REC		Value %RPD	Limit	Qual	
1,2,4-Trimethylbenzene	U	6	30								
1,3,5-Trimethylbenzene	U	13	30								
Benzene	U	6.8	30								
Ethylbenzene	U	7	30								
m,p-Xylene	16.5	13	60							J	
Naphthalene	12	5.1	100							J	
o-Xylene	U	9.7	30								
Toluene	19	9.9	30							J	
Xylenes, Total	U	23	90								
Surr: 1,2-Dichloroethane-	d4 1010	0	0	1000	0	101	70-130	0			
Surr: 4-Bromofluorobenze	nı 996.5	0	0	1000	0	09.6	70-130	0			
Surr: Dibromofluorometha	anı 988.6	0	0	1000	0	08.8	70-130	0			
Surr: Toluene-d8	974.5	0	0	1000	0	97.4	70-130	0			

LCS Sample ID:	LCS-83483-83	483			Ur	nite: µg/K	g-dry	Analysis Date: 3/	15/2016 12:55 PM
Client ID:		Run ID: VMSI	1603	14B	Seq	No: 3733	875 P	rep Date: 3/14/2016	DF: 1
					SPK Ref		Control	RPD Ref	RPD
Analyte	Result	MDL	PQL	SPK Val	Value	%REC	Limit	Value %RPD	Limit Qual
1,2,4-Trimethylbenzene	1102	6	30	1000	0	110	65-135	0	
1,3,5-Trimethylbenzene	1134	13	30	1000	0	113	65-135	0	
Benzene	1036	6.8	30	1000	0	104	75-125	0	
Ethylbenzene	1085	7	30	1000	0	108	75-125	0	
m,p-Xylene	2202	13	60	2000	0	110	80-125	0	
Naphthalene	1076	5.1	100	1000	0	108	40-140	0	
o-Xylene	1063	9.7	30	1000	0	106	75-125	0	
Toluene	1058	9.9	30	1000	0	106	70-125	0	
Xylenes, Total	3264	23	90	3000	0	109	75-125	0	
Surr: 1,2-Dichloroethane-d4	1004	0	0	1000	0	100	70-130	0	
Surr: 4-Bromofluorobenzena	1004	0	0	1000	0	100	70-130	0	
Surr: Dibromofluoromethana	1008	0	0	1000	0	101	70-130	0	
Surr: Toluene-d8	1000	0	0	1000	0	100	70-130	0	

Client: Barr Engineering Company Work Order: Project:

1603669 Enbridge Tank 9 Check Valve (49161092.04)

QC BATCH REPORT

Batch ID: 83483	nstrument ID VMS9			Method:	SW8260B				
	D: 1603851-03A M	3			Ur	nits; µg/K	g-dry	Analysis Date: 3.	/14/2016 09:03 PM
Client ID:	R	un ID: VMS	9_1603	14A	Seq	No:3733	529	Prep Date: 3/14/2016	DF: 1
					SPK Ref		Control	RPD Ref	RPD
Analyte	Result	MDL	PQL	SPK Val	Value	%REC	Limit	Value %RPD	Limit Qual
1,2,4-Trimethylbenzene	1325	7	35	1160	0	114	65-135	0	
1,3,5-Trimethylbenzene	1383	15	35	1160	0	119	65-135	0	
Benzene	1251	7.9	35	1160	0	108	75-125	0	
Ethylbenzene	1245	8.1	35	1160	0	107	75-125	0	
m,p-Xylene	2564	16	70	2320	0	111	80-125	0	
Naphthalene	1084	5.9	120	1160	0	93.4	40-140	0	
o-Xylene	1250	11	35	1160	0	108	75-125	0	
Toluene	1220	12	35	1160	0	105	70-125	0	
Xylenes, Total	3814	27	100	3479	0	110	75-125	0	
Surr: 1,2-Dichloroethane-d	4 1189	0	0	1100	0	103	70-130	0	
Surr: 4-Bromofluorobenzer	1223	0	0	1100	0	105	70-130	0	
Surr: Dibromofluoromethar	N 1199	0	0	1160	0	103	70-130	0	
Surr: Toluene-d8	1143	0	0	1100	. 0	98.6	70-130	0	

ASD Sample ID: 1603651-03A MSD								Analysis Date: 3/14/2016 09:29 PM				
Ru	ID: VMS	9_1603	14A	Seq	No: 3733	530	Prep Date: 3/14/	2016	DF: 1			
Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
1314	7	35	1160	0	113	65-135	1325	0.835	30			
1356	15	35	1160	0	117	65-135	1383	1.91	30			
1236	7.9	35	1160	0	107	75-125	1251	1.21	30			
1237	8.1	35	1160	0	107	75-125	1245	0.654	30			
2521	16	70	2320	0	109	80-125	2564	1.66	30			
1125	5.9	120	1160	0	97	40-140	1084	3.73	30			
1240	11	35	1160	0	107	75-125	1250	0.745	30			
1184	12	35	1160	0	102	70-125	1220	2.99	30			
3762	27	100	3479	0	108	75-125	3814	1.36	30			
1160	0	0	1160	0	100	70-130	1189	2.47	30			
1209	0	0	1160	0	104	70-130	1223	1.14	30			
1155	0	0	1100	. 0	99.0	70-130	1199	3.75	30			
1117	0	0	1160	0	98.4	70-130	1143	2.20	30			
	Rosuk 1314 1356 1236 1237 2521 1125 1240 1184 3762 1160 1200 1156	Rosult MDL 1314 7. 1314 7. 1328 7.9 1228 7.9 1237 8.1 1252 16 1125 5.9 1240 11 1184 12 3702 27 1160 0 1200 0 1200 0	Run ID: VMS9_1603 Rosult MDL PQL 1314 7 35 1356 15 35 1227 8.1 35 1227 8.1 35 1237 8.1 35 1240 11 35 1184 12 35 1184 12 35 1160 0 0 1200 0 0 1200 0 0 1200 0 0	Run ID: VMS0_160314A	Run ID: VMS0_160314A Seq Result MDL POL SPK Vel Value Va	Run ID: VMS9_160314A SeqNo: 3732	Rosult MOL POL SPK Val Value SeqNo:3733830 Control	Roult Note Roult Roul	Roult WIND Prol SPK Val Value Rep Re	RoralD: VMS9 60314A SeqN::373:350 Prep Date:31-L2*16 DF: 1		

Client: Barr Engineering Company QC BATCH REPORT Work Order: 1603669 Enbridge Tank 9 Check Valve (49161092.04) Project: Batch ID: R183344 Instrument ID MOIST Method: SW3550C Units: % of sample Analysis Date: 3/11/2016 06:10 PM Run ID: MOIST_160311B SeqNo: 3730953 Prep Date: DF: 1 Client ID: Sample ID: LCS-R183344 Run ID: MOIST_160311B Units: % of sample LCS Analysis Date: 3/11/2016 06:10 PM Client ID:
 Result
 MDL
 PQL SPK Val

 100
 0.025
 0.050
 100
 Analyte Moisture | No. DUP Client ID: DUP

Run ID: MOIST_160311B

The following samples were analyzed in this batch: 1603669-01B

lanation.

QC Page: 3 of 3

Chain of (ody													er a	Cor	tair	cn/	Pres			_		1	coc)	ar (
4700 West 77th Alinneapolis, MN (952) 832-2600	Street 5543:	5-4803						1			Т	Τ	ΤŤ	Ater	П	-	П	Т	Τ	So.	T	J.	†	1	Project BE	
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reject Name: Enbrids					٠	_	_	t		7		_	Ш	ĝ					L		1	15	-		Project QC Contact:	ET
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Attachment C

Waste Management Documentation

Shamrock Landfill	namrock Landfill					00	002754	LANDFILL	-	Maynard D					
r61 minnesota 45 Cloquet, MN 55720					DAT	EIN	DATE OU	T TIME IN	TIME OUT	VERICLE	ROLL OFF				
Jioquet, Min 55720					01/27	/16	01/27/16	09:00	09:00	U27	14-0028				
02133 Enbridge F					6.8	REFE	RENDE		700	ORIGIN	ORIGIN				
1100 Louisian Houston TX 7		3300				14-00	28	v	'IN: 5309	1W-WI-6AXLES	-WI-6AXLES				
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					SITE TICKET			GHII		WEIGHMASTER					
Shamrock Landf					01	001	002753	LANDFILL		Maynard D					
761 Minnesota 4 Cloquet, MN 557					DAT	E IN	DATE OU	TIME IN	TIME OUT	VEHICLE	ROLL OFF				
002133 Enbridg		nited Per			01/27	/16	01/27/16	08:56	08:56	U25	14-0028				
	iana Ave, Ste 3					HEFE	BENCE			ORIGIN					
Houston TX						14-002	28	V	IN: 60483	6W-WI-6AXLE	V-WI-6AXLES				
	Scale 1 Gross		70180	LB	Inbound - Charge ticket										
1	Stored Tare V Net Weight	Vt.	34200 35980	LB LB											
CTY.	UNIT	DESCRIP				RATE	EX	ENSION	FEE	TOTAL					
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Generator: Ef	NDDINGE DIDE	LINES LIMITE	D DAD								CHANGE				
	20 GRAND AV		DIAN												
City/ST: SUPERIOR, WI 54880											CHECK NO.				
Manifest: 160	SIGNA	n 106						<u></u>							

Shamrock Landfill	R
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Job# 16-014

Shipping Manifest		's US EPA ID N	o. (if any)	1 1			1. Pa	je 1 of	page	÷(s)
3. Generator's Name and Facility Address Enbridge Pipelines Limited Partnership, LLC Enbridge Superior Terminal 1320 Grand Ave., Superior, WI 54880 4. Generator's Phone: 715-398-4795 5. Transporter 1 Company Name				Mailing A Enbrid Enbrid 1320 G Fax: 832	ge Pip ge Sur Brand /	elines berior Ave., S	Limited Termina Superior	Partners WI 548	ship, LLC 80	
udeen-	Truck	ina		Phone:	715	- 30	14-0	18/	5	
6. Transporter 2 Company Name				Phone:						
7. Designated Facility Name and Site Address		k Environn Highway 4	nental,							
		MN 55720			Pi		218-	878-0	112	
8. U.S. DOT Description (including Proper Shippin	g navne)		9. Co No.	ntainers Type		10. Tota Quant	i ity	11. Unit Wt/Vol	12. Waste P Shee	rofil
a. Non Hazardous Industrial Waste	9 valu	10					15	A.A.	Cl 14-00	V.E
ь.	IVIAID						1 1		(11,00	40
c.			Н.	ļl			l .l			
d.			Ш		Ш					82
		1	11	lr	l	1	: 1			
13. Additional Descriptions for Materials Listed Above (no. B. CL 14-0028	deate waste stream	Approval 4 below)	14. S	oscial flan	dEng Pr	ocedur	es for W	stes List	nd Above	
b. CL c. CL d. CL					6.6				2	
 Special Handling Instructions and Additional In Emergency Contact: 	formation	1	1	111.			- 1	B Use C	only 7.7	5 6
							100	10 #		
 GENERATOR'S CERTIFICATION: I hereby de proper shipping name and are classified, packe according to applicable international and nation 	id, marked, an	diabeled, and a	consigna re jo all r	ent are fo	uliy and	i accu	rately d dition fo	escribed r transp	l above by ort by highway	,
Printed/Typed Name 1241 9 NOS PLEASE BE SURE GENERATOR HAS SIGNED AND	ic 1	Signature	hai	922	b l	H	9.	Mo	onth Day	
 Transporter 1 Acknowledged of Receipt of Mat. 			THE MA	WIFEST					<u> </u>	
Printed/Typed Name		Signature	20	in				Mo	onth Day	Z
 Transporter 2 Acknowledgement of Receipt of I Printed/Typed Name 	Materials	Slonature						Ma	onth Day	
19. Discrepancy Indication Space	i								L.L.	
20. Facility Owner or Operator: Certification of rec	eipt of non-haz	ardous materia	s covere	d by this	Manife	st exc	ept as i	oted in	item 19.	
Printed/Typed Name		Signature						110	onth -Day	

Shamrock	
Landfill	

Jch # 16-c14
Non Hazardous Industrial Waste

160806

Shipping Manifest	1. Generator's US EPA ID N	. (if any)		1. F	age 1 of	page(s)
Generator's Name and Facility Address Enbridge Pipelines Limited Partnership, LLC Enbridge Superior Terminal 1320 Crand Ave., Superior, WI 54880 Generator's Phone: 715-398-4795	1 1 1 1		Enbride 1320 G	Idress le Pipelines Limiti le Superior Termin rand Ave., Superi 325-5511	nal	
5. Transporter 1 Company Name	Trucking		_	115-394	. (,0)	E
6. Transporter 2 Company Name	TIUCKING		Phone: ,	113 379	701	7
7. Designated Facility Name and Site Address	1. 45		Phone:		****	
Toologisted Family Harlo and Cite Page 13	Shamrock Environn 761 MN Highway 4		LLC			
	Cloquet, MN 55720			Phone: 21		112
 U.S. DOT Description (including Proper Shipping 	g name)	9, Cor No.	Type	10. Total Quantity	11. Unit Wt/Vol	12. Waste Profile Sheet#
a. Non Hazardous Industrial Waste	9 valle	i i			3 3	C114-ec 2
b. MATA	9 valle	H) 3	Cuy-cone
				4		
G.						
d.					-	
		1.			Ì	
13. Additional Discriptions for Materials Listed Above (in a. CL IU – CC IE 6. CL c. CL d. CL	dicato waste stram Approval il below)	14. Sp	ccial Hand	Ing Procedures for	Wastos List	ed Above
16. Special Handling Instructions and Additional Intergency Contact:	formation	J			KB Use (2760
16. GENERATOR'S CERTIFICATION: I hereby de proper shipping name and are classified, packe according to applicable international and nation	ed, marked, and labeled, and a hal government regulations.	consignm re it/áli re	ent are fu	lly and accurately proper condition	for transp	ort by highway
Printed/Typed Name PLEASE BE SURE GENERATOR HAS SIGNED AND 17. Transporter 1 Acknowledged of Receipt of Materials (Control of Mate	D DATED IN THIS SECTION OF	THE MA	NIFESTI	we		onth Day)
Printed/Typed Name 18. Transporter 2 Acknowledgement of Receipt of	Z Signature Materials	žα			M	onth Day Y
Printed/Typed Name	Signature				M	onth Day
18. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of rec-	eipt of non-hazardous materia	s covered	by this f	dandest except a	s noted in	item 19.

Goldenrod - Generator Copy

		-										
Shamrock Landf	Shamrock Landfill						002760	LANDFILL	.	Maynard D		
761 Minnesota 4					DAT	EW	DATE OU	T TIME IN	TIME OUT	VEHICLE	ROLL OFF	
Cloquet, MN 557	20				01/27	/16	01/27/16	10:59	10:59	U25	14-0028	
002133 Enbridg						11979	RENGE		28000	ORIGIN		
1100 Louisi Houston TX	iana Ave. Ste 3 (77002	300				14-002	28	v	IN: 6048	6W-WI-6AXLE	s	
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		A									NET AMOUNT	
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	NBRIDGE PIPE		D PAR								CHANGE	
City/ST: SUI	20 GRAND AV PERIOR, WI 54 0806 DECREDER CONTA	1880	87-2861	SIGNA	TURE						CHECK NO.	

Sharrock Landfill					01 0000252			LANDFILL		Maynard D		
761 Minnesota 45 Cloquet, MN 55720					DAT	E IN	DATE OU	T TIME IN	TIME OUT	VEHICLE	ROLL OFF	
Gioquei, MIN 55720					01/13	1/16	01/13/16	12:34	12:34	U40	14-0029	
002133 Enbridge P						111543	DENGE			ÓRIGIN		
1100 Louisiana Houston TX 77		300				14-00		V	IN: 39449	X-WI-5AXLES		
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	RIDGE PIPE	LINES LIMITE	D PAR								CHANGE	
	RIOR, WI 54										CHECK NO.	

amrock andfill	Job # 16-014 Non Hazardous Industrial Waste

Landfill Non Haza	irdous Indus	trial	was	ste				160832
Shipping Manifest	Generator's US EPA ID No	1 1	1 1	1	-	. Pag	e 1 of	page(s)
3. Generator's Name and Facility Address Enbridge Pipellinus Limited Partnership, LLC Enbridge Superior Terminal 1320 Grand Ave., Superior, WI 54880 4. Generator's Pirone: 715-398-4795			Enbride	e Pipel e Supe rand Av	rior Ter re., Sup	minal	Partner WI 548	ship, LLC 80
5. Transporter 1 Company Name (Ideer) T	rucking		hone: /	-		1-0	1914	5 :
6. Transporter 2 Company Name	1.25		hone:	,	<i>-</i> 1	•	101	
	hamrock Environm	ental, l						
	61 MN Highway 4:	5						
	loquet, MN 55720			Pho		218-	878-0	
8. U.S. DOT Description (including Proper Shipping nan	ne)	9. Cor No.	Type	c	10. Total Juantity		11. Unit Wt/Vol	Waste Profile Sheet#
a. Non Hazardous Industrial Waste Tank9 v	alve				/	5	好	cl14-628
b.						1		
C.				i	1 	1		
d.						i 		
13. Additional Descriptions for Materials Listed Above (nocato) a. Cl. / \mathcal{L} - \mathcal{L} \mathcal{E} b. Cl. c. Cl. d. Cl.	waste stream Approval # below)	14. Sp	ecial Hand	ing Pro	cedures	for Wa	istes List	led Above
15. Special Handling Instructions and Additional Informs Emergency Contact:	tion	11		4 .	í		BUse (Only 2753
 GENERATOR'S CERTIFICATION: I hereby declare proper shipping name and are classified, packed, in according to applicable international and national go 	arked, and labeled, and a	consignm re in/all re	ent are fu espects in	lly and	accura r condi	tely d	escribe or transp	d above by bort by highway
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Printed/Typęd Name	Signature						M	onth Day Ye
18. Discrepancy Indication Space								1 1 1 1 1
20. Facility Owner or Operator: Certification of receipt of	of non-hazardous maleria	s covered	by this	Manifes	it excep	ot as	noted in	item 19.
Printed/Typed Name / (1)	Signature	M.)				J.C	onth Day Ye
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5	Shamrock Jo Landfill Non Hazardo	ら <i>料 1</i> 6 us Indus					te					1607	93	
4	Shipping Manifest	r's US EPA ID No.	(if a	пу)					1.1	Pag	e t of	ŗ	age(s)	-
-	Generator's Name and Facility Address Enturidge Pipelines Limited Partnership, LLC Enturidge Superior Terminal 1320 Grand Ave, Superior, VM 54860 4, Generator's Phone: 715-388-4795				Fnh	ridgi ridgi 3 Gr	Pipe Sup and A	elines entor	Termi	inal	Partners WI 5485	ship, LLC		-
	5. Transporter 1 Company Name (Ideen Trus 6. Transporter 2 Company Name	ck:19					15	- :	390	1	- 48	15		-
	761 MN	ck Environme Highway 45 MN 55720			LLC	:	Pł	one	: 21	8-1	878-0	112		
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¥GEN.	e. Non Hazardous Industrial Waste Val Ve 9									5	y Us	c 614	.002	9
ERATO	b.			I			-	-						
Ř	C .						L	-	Ш					
	d.													
	13. Additional Dissorptions for Materials Licted Above (notice westerstead). CL U = 002 Q b. CL c. CL	m Aparoval B belowi	1.	l. Sp	ectal H	landi	ng Pr	uced	res for	Wa	sates Liat	ed Above		
	d. CL 15. Special Handling Instructions and Additional Information Emergency Contact:									SKI	B Use C	Inly 25.2	L ,	
Total and the second se	GENERATOR'S CERTIFICATION: I hereby declare that the proper shipping name and are classified, packed, marked, a according to applicable high-mational and national government.	contents of this cond labeled, and an regulations.	ons e jh	gnm áli ro	ent ar	e ful	ly an	d acc	uratel politice	ly d	escribec or transp	i above by ort by high	way	
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÷	200 - Deling States of Operator. Ceromodium of receipt of normal	man advas menter ette		- 61-67	, .				pt					

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Pink - Transporter

Goldenrod - Generator Copy

Shamrock Landfill					01	00	002523	LANDFILL		Maynard D	
761 Minnesota 45 Cloquet, MN 55720					DAT	EIN	DATE OU	T TIME IN	TIME OUT	VEHICLE	ROLL OFF
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002133 Enbridge Pi 1100 Louisiana					386	REFE	RENGE			ORIGIN	
Houston TX 770		300				14-00	29	V	IN: 39449	X-WI-5AXLES	
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	nual Tare	Wt.	30100	LB							
OTY. Ne	t Weight	T	28100 DESCRIE	LB			RATE	FY	TENSION) FEE	TOTAL
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Address: 1320 G	RAND AV		D PAR								TENDERED CHANGE CHECK NO.
City/ST: SUPER Manifest: 160794 SKB-WCI 4410 TO REOF			7-2861	SIGNA	TURE _						23300170

					SITE	1	ICKET	GRII)	WEIGH	MASTER
Shamrock Landfill					01	00	002517	LANDFILL	- 1	Maynard D	
761 Minnesota 45					DAT	EIN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
Cloquet, MN 55720					01/13	V16	01/13/16	08:56	08:56	U40	14-0029
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1100 Louisiana		1300			and the same of th	No Cardindon					
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Address: 1320	GRAND AV RIOR, WI 54			PICALAT	TIOE.						TENDERED CHANGE CHECK NO.

Shamrock _

Job # 16-001

1	1. Generator's US EP	A ID No. 61 and			1. Page 1		60794
ipping Manifest	I. Generalor s Co Er	A ID NO. (ii wily)	. 1	1 1	i. rage i	OI .	page(s)
 Generator's Name and Facifity Address Entsidge Pipelines Limited Partnership, LLC Entsidge Superior Terminal 1320 Grand Ave., Superior, WI 54880 Generator's Phone: 715-398-4795 			Enbride 1320 G	dress ge Pipelines L ge Superior Ti rand Ave., Si -325-5511	eminal .		, LLC
5. Transporter 1 Company Name	en Truci	King	Phone:	7/5-	194	- 48	315
6. Transporter 2 Company Name		,	Phone:				
Designated Facility Name and Site Address	Shamrock Env						TO SECURE AND ADDRESS OF THE PARTY OF THE PA
	761 MN High						
	Cloquet, MN 5				218-87		
 U.S. DOT Description (including Proper Shi 	pping name)	9. Co	Type	10. Total Quanti	y L	ii. Init t√ol	12. Waste Profile Sheet#
a. Non Hazardous Industrial Waste	Ive 9		1		15	ds c	(14-002
b.			11		-	Ť	
					11	-	
6.	·				11	1	*****************
d.			1-1-	L_L_i_i			
			1	1 1 1 1		- 1	
13, Additional Descriptions for Materials Listed Abo a. CL 4 - cr C Z 9 b. CL	vo (indicate valate etream Approvat i	t below) 14. St	pecial Harac	ling Procedure	s for Waste	s Listert A	bove
a. CL 4 - c c Z 4 c. CL d. CL f5. Special Handling Instructions and Addition Emergency Contact:	n/Jr/formation				SKB U Load #	ise Only	523
a. CL 4 - cr c Z 9 b. CL c. CL d. CL 15. Special Handling Instructions and Addition	a Unformation y declare that the contents acked marked and labeled	of this consignm	nent are fu	fly and accu	SKB U Load #	ise Only	5 Z Z
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a. Ct. [4 - c 2] b. ct. c. Ct. d. Ct. 15. Special Handling Instructions and Addition Emergency Contact: 16. GENERATOR'S CERTIFICATION: Theme proper shipping name and yes classified, a according to applicable inferinational and Printed/Typed Name PLEASE BE SUPE GENERATOR HAS SIGNED 17. Transporter 1 Acknowledged of Receipt of Printed/Typed Name	al-information y declare that the contents acked, marked, and labele- glidyful government regulation. AND DATED IN THIS SECT	of this consignm , and are mall re ons. re ACU ION OF THE MA	nent are fu	fly and accu	SKB U Load #	ribed at ansport	ove by by Highway Day Ye.
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	ndfill Non Hazar	norator's US EPA ID No	el a					14	D	e 1 of	1607	
	Shipping Manifest	ICINIO S OS EFA IO NO	i pra	יעניי	1 1			١,	Pag	ie i oi	pa	ge(s)
En En	enerator's Name and Facility Address bridge Pipelines Limited Partnership, LLC bridge Superior Terminal 20 Grand Ave., Superior, WI 54880 interator's Prone: 715-398-4795	mahamadaa a I a sadaas .			Enbride 1320 G	ge Pip ge Sur irand /	oline Serio Ave.,	r Term	ninal	Partners WI 5488	hlp, LLC	
	enerator's Phone: 715-398-4795 ensporter 1 Company Name			F	ax: 832	-325-6	5511					
	Insporter 2 Company Name	cucking	_	F	hone.	2/	5.	- 3	9	4-0	181	5
o	majories a company transc	,			hone:							
7. De		mrock Environm MN Highway 45										N/ Montablema
	Clo	quet, MN 55720				Pl	ıon	e: 2	18-	878-0	112	
8. U.	S. DOT Description (including Proper Shipping name)		9. N		Type		To Qua	tal		11. Unit WI/Vol	1: Waste She	Profile
a. N	Ion Hazardous Industrial Waste	Q	2.4044				1	1	5	yrds	C(14	-00
b.		1		i	-	1						
			Ц			Li			L			
C.			1	1			1	ı				
d.			-	-					1			
13. / a. Cl b. Cl c. Cl d. Cl	-	la kheam Approvol e below)	14	. Sp	ecial Han	ding Pr	cced	ures fo	or Wa	estec List	ed Above	
	pecial Handling Instructions and Additional Informatic	xn .	J						SK	B Use C	nly	
	Emergency Contact:								Loa	adê	Z5.57	
P PLEA	SENERATOR'S CERTIFICATION: I hereby declare the ropes shipping name anglare classified, packed, markecoording to applicable/frientational and patighted victorial and patighted virinted Typed Name Language 1975 AUSE SE SURE GENERATOR HAS SIGNED AND DATE rapsporter 1 Acknowledged of Theceipt of Materials	ed, and labeled, and a roment regulations. Signature		all re	epects in	06	d ac	curate onditio	ely d	lescribed or transp	ort by highw	ay Yea
4	rinted/Typed Name / ransporter 2 Acknowledgement of Receipt of Material	Signature	i.							Mc jul	nth Day	1/6
	Printed/Typed Name	Signature								Mo	nth Day	Yea
	Discrepancy Indication Space										لـــــــــــــــــــــــــــــــــــــ	

Goldenrod - Generator Copy

Vonco V Duluth, LLC 1100 West Gary Street Duluth, MN 55808 (218) 626-3830 001342 Enbridge Pipelines LLC 1100 Louisans Avenue TICKET #: 272442 Operator: Jarod In: 03/30/2016 Out: 03/30/2016 Vehicle: S39449X

INBOUND INVOICE

10:59 am 10:59 am

Contract: 16-007-I SUP Termnal Enhancement Hist

Work Order#: 0 Cell;

GROSS 54,920.00 LB TARE 31,620.00 LB NET 23,300.00 LB Scale In Tare Out

11.65 TN

Quantity Description
11.65 TN Contaminated Soil Tons

Vonc: V Duluth, LLC 1100 West Gary Street Duluth, MN 55808 (218) 626-3830			TICKET #; Operator: In : Out:	272463 Jarod 03/30/2016 03/30/2016	12:27 pm 12:27 pm
001342			Vehicle:	S36746W	12.27 pill
Enbridge Pipelines L 1100 Louisana Avenue	.c		INBOUND		
			INVOICE		
Contract: 16-007-I St	IP Termnal Enhancem	ent Hist			
Reference:		Wor	k Order#: 0 Cell:		
	Contract.		OCII.		
GROSS 56,900.00 LB	Toro Out				
TARE 28,480.00 LB	rare Out				
NET 28,420.00 LB	14.21 TN	Signatu	re:		
Quantity Descripti	on	Rate	Extension	Tax	Total
14.21 TN Contami	nated Soil Tons				

VONCOV, LLC. Job#16-001

IND	USTRIAL/NON-HAZARDOUS MATERIAL T	
	Work Site Name Enbridge Superior Terminal	Profile #: ## 6528/6-007-1
	Address 2800 East 21st Street	Customer #: 1342
	City, St., Zip Superior, WI 54880	3. Waste Disposal Site VONCO V, LLC.
	Contact's Name Alex Smith	Mailing Address 1100 West Gary Street
	Contact's Phone No. 715-398-4795	City, St., Zip Duluth, MN 55808
	2. Consultant/Contractor Ryan Erickson - Barr	4. Responsible Agency MN Pollution Control Agency
G	Address 325 South Lake Ave, Suite 700	Address 520 Lafayette Road
E	City. St Zip Duluth, MN 55802	City, St., Zip St. Paul, MN 55155-3898
N	Operator's Phone 612-418-0166	
R	5. Description Of Materials Contaminated Soil	6. Containers (notype) 7. Total Quantity (m³ or yd²)
A	valve 9	15 yd ³
O		
R	8. Special Handling Instructions and Additional Information	9. Disposal Cell
	10. Generator's certification: I hereby declare that the conte by proper shipping name and are classified, packed, marked, and highway according to applicable highralitoral tand governmental waste as defined by 40 CFR Pat/\$61 or any applicate state law	I labeled, and are in all respects in proper condition for transport by regulations. The above/listed material(s) is (are) not a hazardous
	Name & Title (Printed or Typed) 27419 NUBLE	
F	11. Transporter 1 (Acknowledgement of receipt of materials)	Signature As M Date 3/50//6
A	NamerTitle Udeen Trucking	- , , , ,
S		, St., ZipPhone No
R	12. Transporter 2 (Acknowledgement of receipt of materials)	_
I	Name/Title	
R	<u> </u>	, St., ZipPhone No
13.		te Owner or Operator: Certification of receipt of non- covered by this manifest
Ton	is: // U5 Yards: Name/Title (Printed	or Typed)
	ket #: 272447 Signature	Date 3/30//(0
	CONTRACTOR - WHITE TRANSPORTER - CANARY WAST	E DISPOSAL SITE - PINK GENERATOR/OPERATOR - GOLD

VONCOV, LLC. Job# 16-001

Address 2800 East 21st Street City, St., Zip Superior, WI 54880 Contact's Name Alex Smith Contact's Phone No. 715-398-4795 2. Consultant/Contractor Ryan Erickson - Barr Address 325 South Lake Ave, Suite 700 City, St., Zip Duluth, MN 55802 Operator's Phone 612-418-0166 5. Description of Materials Contaminated Soil AT TOO R 8. Special Handling Instructions and Additional Information 9. Disposal Cell 10. Generator's certification: I hereby declare that the contents of this consignment are fully and accurately described about by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport highway according to applicable integrational and governmental regulations. The above listed materials is defined by 40 CFR Part 20 or any applicable faller law. Name 8 Title (Printed or Typed) T 11. Transporter 1 (Acknowledgement of receipt of materials) Name/Title Address City, St., Zip Phone No. Disposal Stite Vonco V, LLC. Mailing Address 1100 West Gary Street City, St., Zip Duluth, MN 55808 4. Responsible Agency MN Pollution Control Agency Address 520 Lafayette Road City, St., Zip St. Duluth, MN 55155-3898 5. Description of Materials Contaminated Soil 4. Responsible Agency MN Pollution Control Agency Address 520 Lafayette Road City, St., Zip St. Duluth, MN 55155-3898 5. Description of Materials 8. Contaliners (notype) 7. Total Quantity (m³ or y contained and proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport highway according to applicable integrational and governmental regulations. The above listed materials is granture 11. Transporter 1 (Acknowledgement of receipt of materials) Name/Title Address City, St., Zip Phone No. Date 3 facility Date 110 Type 1	ND	_	Entridge Superior Terminal	Profile #: 14-0028/6-007-/
City, St. 2ip Superior, WI 54880 Contact's Name Alex Smith Contact's Phone No. 715-398-4795 2. Consultant/Contractor Ryan Erickson - Barr Address 325 South Lake Ave, Suite 700 City, St. 2ip Duluth, MN 55802 Operator's Phone 612-418-0166 5. Description of Materials Contaminated Soil Contami		1.		
Contact's Name Alex Smith Contact's Phone No. 715-398-4795 2. Consultant/Contractor Ryan Erickson - Barr Address 325 South Lake Ave, Suite 700 City, St., Zip Duluth, MN 55802 Operator's Phone 612-418-0166 5. Description of Materials Contaminated Soil A T O R 8. Special Handling Instructions and Additional Information 9. Disposal Cell 10. Generator's certification: I hereby declare that the contents of this consignment are fully and accurately described about by proper chipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport highway according to applicable integrational and governmental regulations. The above listed materials is defined by 40 CF Part 27 or any applicable faller law. Name & Title (Printed or Typed) T T Name/Title Address City, St., Zip Duluth, MN 55808 4. Responsible Agency MN Pollution Control Agency Address City, St., Zip Duluth, MN 55808 5. Description of Materials Contaminated Soil 4. Responsible Agency MN Pollution Control Agency Address City, St., Zip Duluth, MN 55808 5. Contaliners (notype) 7. Total Quantity (m² or y 15 yell) 8. Special Handling Instructions and Additional Information 9. Disposal Cell 10. Generator's certification: I hereby declare that the contents of this consignment are fully and accurately described about by proper chipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport highway according to applicable integrational and governmental regulations. The above listed materials is ginetic law. Name & Title (Printed or Typed) 11. Transporter 1 (Acknowledgement of receipt of materials) Name/Title Address City, St., Zip Phone No. Date 3 faulty Date 3 faulty Name/Title Description of receipt of materials Name/Title Security Address City, St., Zip Phone No. DISPOSAL SITE				
Contact's Phone No. 715-398-4795 Consultant/Contractor Ryan Erickson - Barr Address 325 South Lake Ave, Suite 700 City, St. Zip Dulluth, MN 55802 Operator's Phone 612-418-0166 E. S. Description of Materials Contaminated Soil A T O R a. Special Handling Instructions and Additional Information 10. Generator's certification: I hereby declare that the contents of this consignment are fully and accurately described about by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport highway according to applicable integrational and governmental regulations. The above listed materials) is (are) not a hazardowards as defined by 40 CF Part 20 or any applicable faite law. Name & Title (Printed or Typed) T. Transporter 1 (Acknowledgement of receipt of materials) Name/Title				- '
2. Consultant/Contractor Ryan Erickson - Barr Address 325 South Lake Ave, Suite 700 City, St., Zip Duluth, MN 55802 Operator's Phone 612-418-0166 5. Description of Materials Contaminated Soil A T O R 8. Special Handling Instructions and Additional Information 9. Disposal Cell 10. Generator's certification: I hereby declare that the contents of this consignment are fully and accurately described about by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport highway according to applicable integrational and governmental regulations. The above tested materials is (are) not a hazardo waste as defined by 40 CF Part 27 MB/LC. Signature T 11. Transporter 1 (Acknowledgement of receipt of materials) Name 8 Title (Printed or Typed) T 11. Transporter 1 (Acknowledgement of receipt of materials) Name/Title Signature Date 3 fra/l/Le Address City, St., Zip Phone No. DISPOSAL SITE 14. Weste Disposal Site Owner or Operator: Certification of receipt of non-				-
Address 325 South Lake Ave, Suite 700 City, St., Zip Duluth, MN 55802 Operator's Phone 612-418-0166 5. Description Of Materials Contaminated Soil A T O R 8. Special Handling Instructions and Additional Information 9. Disposal Cell 10. Generator's certification: I hereby declare that the contents of this consignment are fully and accurately described about by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport highway according to applicable integrational and governmental regulations. The above fisted materials is (are) not a hazardo waste as defined by 40 CFR Parally or any applicable faller law. Name & Title (Printed or Typed) T 1. Transporter 1 (Acknowledgement of receipt of materials) Name/Title Signature Date 3/ta/l/ Address City, St., Zip Phone No. DISPOSAL SITE 14. Waste Disposal Site Owner or Operator: Certification of receipt of non-				City, St., Zip Duluth, MN 55808
City, St., Zip Duluth, MN 55802 Operator's Phone 612-418-0166 E 5. Description Of Materials Contaminated Soil A T O R a. Special Handling Instructions and Additional Information 10. Generator's certification: I hereby declare that the contents of this consignment are fully and accurately described about by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport highway according to applicable integrational and governmental regulations. The above listed materials is (are) not a hazardo waste as defined by 40 CFR Part 2ft or any applicable failet law. Name & Title (Printed or Typed) T 11. Transporter 1 (Acknowledgement of receipt of materials) Name/Title Signature Date 3/fa/l/6 Address City, St., Zip Phone No. DISPOSAL SITE 14. Waste Disposal Site Owner or Operator: Certification of receipt of non-		2.	Consultant/Contractor Ryan Erickson - Barr	4. Responsible Agency MN Pollution Control Agency
City, St., ZipPhone No	G			
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R S. Description of Materials Contaminated Soil A T O R a. Special Handling Instructions and Additional Information 10. Generator's certification: I hereby declare that the contents of this consignment are fully and accurately described also by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport highway according to applicable integrational and governmental regulations. The abovg listed materials (a) is (are) not a hazardo waste as defined by 40 CFR Part 25 or any applicable fails law. Name & Title (Printed or Typed) 11. Transporter 1 (Acknowledgement of receipt of materials) Name/Title	N		Operator's Phone 612-418-0166	
a. Special Handling Instructions and Additional Information a. Special Handling Instructions and Additional Information 10. Generator's certification: I hereby declare that the contents of this consignment are fully and accurately described alwoby proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport highway according to applicable integrational and governmental regulations. The abovy listed materials (are) not a hazardowaste as defined by 40 CFR Part 25 or any applicable faitals law. Name & Title (Printed or Typed) 11. Transporter 1 (Acknowledgement of receipt of materials) Name/Title \(\text{Modifies} \) 12. Transporter 2 (Acknowledgement of receipt of materials) Name/Title \(\text{Modifies} \) 13. Transporter 2 (Acknowledgement of receipt of materials) Name/Title \(\text{Signature} \) 14. Weste Disposal Site Owner or Operator: Certification of receipt of non-	_	5.	• • • • • • • • • • • • • • • • • • • •	6. Containers (notype) 7. Total Quantity (m³ or yd
R 8. Special Handling Instructions and Additional Information 9. Disposal Cell				
8. Special Handling Instructions and Additional Information 9. Disposal Cell 10. Generator's certification: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transpring highway according to applicable integrated regulations. The above listed materials is (are) not a hazardov waste as defined by 40 CFR Part 25/1 or any applicable fiste law. Name & Title (Printed or Typed) 11. Transporter 1 (Acknowledgement of receipt of materials) Name/Title Address City, St. Zip Phone No. Disposal Cell 12. Transporter 2 (Acknowledgement of receipt of materials) Name/Title Signature Date Date Date Date Date Date 14. Waste Disposal Stite Owner or Operator: Certification of receipt of non-			valve 9	15 yd 3
8. Special Handling Instructions and Additional Information 9. Disposal Cell 10. Generator's certification: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transpring highway according to applicable inspirally size. The above listed markeful is (are) not a hazardov waste as defined by 40 CFR Part 257 or any applicable distellary. Name & Title (Printed or Typed) T. Transporter 1 (Acknowledgement of receipt of materials) Name/Title Address City, St. Zip Phone No. Disposal Cell Signature Date 3/to/le Name/Title Signature Date 3/to/le Name/Title Date 4/to/size Date 5/to/le Name/Title Date 5/to/le				
10. Generator's certification: I hereby declare that the contents of this consignment are fully and accurately described alon by proper shipching name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transpring highway according to applicable integrated and proper shipching according to applicable inflamental regulations. The above listed materials (see) not a hazardo waste as defined by 40 CFR Part 29) or any applicable flate law. Name & Title (Printed or Typed) 11. Transporter 1 (Acknowledgement of receipt of materials) Name/Title Date 3/to/le Address City, St. Zip Phone No.	_			
by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport highway according to applicable integrational and governipselal regulations. The above listed material(s) is (are) not a hazardo waste as defined by 40 CFR Part 2st or any applicable shate law. Name & Title (Printed or Typed) The Transporter 1 (Acknowledgement of receipt of materials) Name/Title	R	8.	Special Handling Instructions and Additional Information	9. Disposal Cell
by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport highway according to applicable integrational and governipmental regulations. The above listed materials is (are) not a hazardo waste as defined by 40 CFR Part 25f or any applicable shalled law. Name & Title (Printed or Typed) T. Transporter 1 (Acknowledgement of receipt of materials) Name/Title				
T11. Transporter 1 (Acknowledgement of receipt of materials) Name/Title			by proper shipping name and are classified, packed, marked, and highway according to applicable interpational and governmental waste as defined by 40 CFR Part 26/ or any applicable state law.	ind labeled, and are in all respects in proper condition for transport by lat regulations. The above listed material(s) is (are) not a hazardous aw.
Address	T			77
AddressCity, St., ZipPhone No	RA	Na	ame/Tille Udgen Trucking	Signature SS MD Date 3/50/1/6
12. Transporter 2 (Acknowledgement of receipt of materials) Name/Title	S			
AddressCity, St., ZipPhone No	6	12	2. Transporter 2 (Acknowledgement of receipt of materials)	
DISPOSAL SITE 14. Waste Disposal Site Owner or Operator: Certification of receipt of non-	F	Na	ame/Title	SignatureDate
	E	Ac	ddressCity.	ily, St., ZipPhone No
13. hazardous materials covered by this manifest.		PC		
Tons: 14 • 2 Yards: Name/Title (Printed or Typed)		s:	14.2 Yards: Name/Title (Printed of	d or Typed)
Ticket #: 272463 Signature				3/20/1