

04-16-551607

State of Wisconsin Substance Release Notification Form
 Department of Natural Resources Form 4400-91 (Rev. 12-04, e-form)
 24-Hour Emergency Hotline Number: 1-800-943-0003

Date & Military Time of Incident: hrs		Date & Military Time Reported: 03/19/2007 1521hrs		Spill File # nor03192007_01 BRRTS #	
Person Reporting: AL ALEKNAVICIUS		Representing: ENBRIDGE		Phone # 715-394-1415 Fax #	
Responsible Party (RP) / Spiller: ENBRIDGE		RP Decision Based On: PROTOCOL		Phone # Fax #	
RP Address: 119 N 25 TH AVE EAST				City State Zip Code SUPERIOR WI	
RP Contact Name & Title: ALEKNAVICIUS - MANAGER OF PIPELINE SERVICES				Phone # Fax #	
Substance Involved: CRUDE OIL		Amount & Units Released: EST - 5 GALLONS		Amount & Units Recovered:	
<input type="checkbox"/> Solid <input type="checkbox"/> Semisolid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas		Color:		Odor:	
Exact Location Of Incident: (including street name, bldg. #, mileage, etc.) LINE # 6 - 2800 EAST 21 ST STREET				Facility Name / Property Owner: SUPERIOR TERMINAL	
<input checked="" type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Township SUPERIOR		County DOUGLAS		Latitude/Longitude deg. ' " , deg. ' "	
DNR Region: NOR		1/4 1/4 Sec T N R <input type="checkbox"/> E <input type="checkbox"/> W		Weather Conditions: FREEZING	
Cause of Incident: HALF INCH VALVE FITTING MAY BE LEAKING BELOW GROUND - IN THE PROCESS OF THAWING GROUND TO INVESTIGATE - SOME OIL HAS MIGRATED TO SURFACE - DISCOVERED AT 14:10 TODAY					
Spilled Substance Impact To: (check X all that apply)		Spill Cause and/or Site:		Action Taken By Spiller:	
<input type="checkbox"/> Air <input type="checkbox"/> Potential <input type="checkbox"/> Concrete/Asphalt <input type="checkbox"/> Potential <input type="checkbox"/> Contained/Recovered <input type="checkbox"/> Groundwater <input type="checkbox"/> Potential <input type="checkbox"/> Private Well <input type="checkbox"/> Potential <input type="checkbox"/> Sanitary Sewer <input type="checkbox"/> Potential <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Potential <input type="checkbox"/> Storm Sewer <input type="checkbox"/> Potential <input type="checkbox"/> Surface Water <input type="checkbox"/> Potential Name: <input checked="" type="checkbox"/> Other: CLAY		<input type="checkbox"/> Ag Coop/Food Factory <input type="checkbox"/> Airport Facility <input type="checkbox"/> Railroad Facility <input type="checkbox"/> Construction, Excavation, Wrecking, Quarry, Mine <input type="checkbox"/> Gas/Service Station/Garage/Auto Dealer/Repair Shop <input type="checkbox"/> Hydraulic Line Break <input type="checkbox"/> Industrial Facility <input type="checkbox"/> Paper Mill <input type="checkbox"/> Chemical Co. <input checked="" type="checkbox"/> Pipeline/Terminal/Tank Farm/Oil Jobber/Wholesaler <input type="checkbox"/> Private Property (home/farm) <input type="checkbox"/> Public Property (city, state, church, school, etc.) <input type="checkbox"/> Transportation Accident, Fuel Tank Spill <input type="checkbox"/> Transportation Accident, Load Spill <input type="checkbox"/> Utility Co. Power Generating/Transfer Facility <input type="checkbox"/> Other:		<input type="checkbox"/> Cleanup Method: <input type="checkbox"/> Absorbent <input checked="" type="checkbox"/> Excavation <input checked="" type="checkbox"/> VAC TRUCK <input checked="" type="checkbox"/> Containment <input type="checkbox"/> Contractor Hired Name: <input type="checkbox"/> Monitor <input type="checkbox"/> No Action Needed <input type="checkbox"/> No Action Taken <input type="checkbox"/> Waste Destination: <input type="checkbox"/> Other:	
Injuries? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes how many?		Has An Evacuation Occurred? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Potential? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are There Any Resource Damages? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential What Kind?					
Other Agencies Notified: (check first column, if notified; check both columns, if on the scene)				Incident Commander:	
<input type="checkbox"/> Fire Department <input type="checkbox"/> Local Law Enforcement <input type="checkbox"/> LEPC or Local Emer. Mgt. <input type="checkbox"/> Level A/Level B Team		<input type="checkbox"/> Local DNR <input type="checkbox"/> Div. Emerg. Mgt. <input type="checkbox"/> Coast Guard <input type="checkbox"/> DHFS 608-258-0099		<input type="checkbox"/> EPA <input type="checkbox"/> Nat'l Resp Ctr 800-442-8802 <input type="checkbox"/> Chemtrec 800-424-9300 <input type="checkbox"/> Other:	
Prepared By: ANN BAUER		Phone # 608-266-5214		Date:	
Person Notified: JOHN SAGER		Phone #		Date:	
Investigated By:		Sign:		Date:	
Spill Coordinator Signoff:		Date:		Date:	
		8/9/07		Rpt'd To DATCP? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: Tnsfed. To DATCP <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: Spill Packet Sent? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: To: Transferred to ERP <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: Case # NFA Letter Sent? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: Incident Closed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Date:	
<input type="checkbox"/> See Additional Comments On Reverse (Please, print page 2 of 2)					

Date and Military Time Of Incident: hrs	Responsible Party:
---	---------------------------

Additional Comments :

Case Activity Report: Yes No CAR#: (Please, attach copy of all CAR and other documentation)

Enforcement Action: Yes No (Explain Below)

Sager, John E - DNR

From: Sager, John E - DNR
Sent: Tuesday, August 28, 2007 11:29 AM
To: 'Kristen.Benson@enbridge.com'
Subject: March 19, 2007 spill

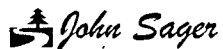
Contacts: Kristen. Benson
Attachments: 03192007 Enbridge terminal spill .PDF

Kris,

Attached is a PDF file containing a scan of the "closed" spill form.



03192007 Enbridge
terminal spi...



Emergency Response Coordinator / Hydrogeologist
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
107 Sutliff Avenue
Rhinelander, WI 54501

(☎) phone: (715) 365-8959
(☎) fax: (715) 365-8932
(✉) e-mail: john.sager@wi.gov

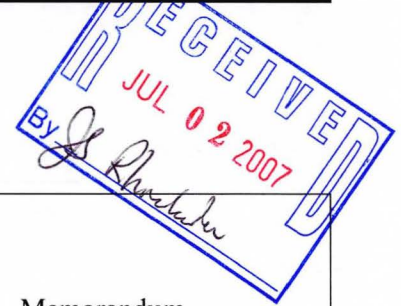


Barr Engineering Company
 332 West Superior Street, Suite 600 • Duluth, MN 55802
 Phone: 218-727-5218 • Fax: 218-727-6450 • www.barr.com An EEO Employer

Minneapolis, MN • Hibbing, MN • Duluth, MN • Ann Arbor, MI • Jefferson City, MO

TRANSMITTAL LETTER

To: John Sager **Date:** 06/29/2007
c:
Project #: 49 / 16 - 122 **Re:**



We are sending you:

Correspondence Reports Plans
 Copy of Letter Specifications Other: Memorandum

No. of Copies	Description
1	Superior Terminal Line 6, Enbridge

These are transmitted as checked below:

For approval As requested Other:
 For your use For review and comment:

Remarks: If you need additional information please feel free to contact me.

Sent by: Hans Wronka

Phone: 218 - 529 - 8202



Barr Engineering Company
332 West Superior Street, Suite 600 • Duluth, MN 55802
Phone: 218-727-5218 • Fax: 218-727-6450 • www.barr.com An EEO Employer
Minneapolis, MN • Hibbing, MN • Duluth, MN • Ann Arbor, MI • Jefferson City, MO

Memorandum

To: Mr. John Sager, WDNR
From: Hans Wronka
Subject: Line 6A Release, Enbridge Terminal, Superior, Wisconsin
Date: June 27, 2007
Project: 49/16-122
c: Kristen Benson, Enbridge Energy



This technical memorandum has been prepared by Barr Engineering Co. on behalf of Enbridge Energy, LLC. The memorandum summarizes the activities conducted to date in response to the discovery of a crude oil release at the Enbridge Energy Terminal in Superior, Wisconsin (Figure 1). The release was discovered on March 19, 2007, near a valve on a piping loop that is part of Enbridge's Line 6A pipe. The source of the release was determined to be a broken block and bleed fitting on a valve body. The volume of the release was initially estimated to be approximately five gallons.

Response Action Summary

Response actions consisting of removal of crude impacted soil began on March 19, 2007. Soil removal was temporarily halted due to heavy frost extending more than 5 feet below the ground surface. Enbridge placed ground thaw units over the soil surface at the site and monitored the area to ensure any additional oil migrating to the surface was recovered. Ground thaw units were removed and soil excavation resumed on March 26, 2007. A small volume of water was present in the initial excavation and was removed with a vacuum truck. Soil was excavated to a depth of approximately eight feet below ground surface. A total of approximately 70 cubic yards of clay soil were removed from the excavation (Figure 2). Excavated soil was transported to Waste Management's Timberline Trail Recycling and Disposal Facility in Ladysmith, Wisconsin for disposal (Appendix A).

Soil samples were screened in the field for visual and olfactory evidence of petroleum impacts. Sheen tests were performed in the field on soil samples that lacked any visual or olfactory evidence of petroleum impacts. Sheen tests consisted of placing approximately 25 to 30 grams of soil into a clean glass jar. A small volume of distilled water was added to the jar to allow the soil to mix with the water, the water was observed for the presence of petroleum sheen. If no sheen was evident, the jar was sealed with a lid and the soil/water mixture was agitated and allowed to settle. The lid was removed and the water was again observed for the presence of petroleum product or sheen. Soil continued to be excavated until field screening indicated little to no evidence of residual oil impacts.

Confirmation soil samples were collected for laboratory analysis from the bottom and sidewalls of the excavation. The soil samples were submitted to PACE Laboratory of Green Bay, Wisconsin and analyzed for extended range diesel range organics (ERDRO), semi-volatile organic compounds

To: John Sager
From: Hans Wronka
Subject: Line 6A Release, Enbridge Terminal, Superior, Wisconsin
Date: June 29, 2007
Page: 2

(SVOCs) and petroleum volatile organic compounds (PVOCs). Analytical results are summarized on Table 1. Appendix B includes the laboratory reports from PACE.

Results

Concentrations of benzene in soil samples collected from the site are less than Table 1 and Table 2 concentrations listed in Chapter NR 746 of the Wisconsin Administrative Code. Concentrations of SVOCs in soil samples, with the exception of the non-industrial GRCL for benzo(a)pyrene, are less than the industrial and non-industrial direct contact pathway GRCLs for PAH compounds listed on Table 1 of WDNR Publication RR-519-97, *Soil Cleanup Levels for PAHs Interim Guidance* document. Furthermore concentrations of all SVOC and PVOC compounds in the soil samples are less than the generic residual contaminant levels (GRCLs) based on protection of groundwater per Chapter NR 720.09 of the Wisconsin Administrative Code.

Conclusions and Recommendations

Based on field screening and laboratory confirmation sample data, it appears that the majority of impacted soil was removed from the leak location near Line 6A. The direct contact risk for exposure to surface soil has been eliminated because all impacted soil within the footprint of this release was excavated to a depth greater than four feet. The risk posed by the residual petroleum impacts is further reduced by the fact that Enbridge's Superior Terminal is an industrial property. Additionally, no identifiable receptors are likely to be impacted by the low level residual petroleum impacts associated with this site. Based on these factors, it is therefore requested that WDNR provide case closure for this site.

Figures

Barr: Arcview 3.1, OPT2642, I:\projects\4816\066\maps\slitemap.apr. Layout: Layout1.skf, Thu May 13 12:28:15 2004

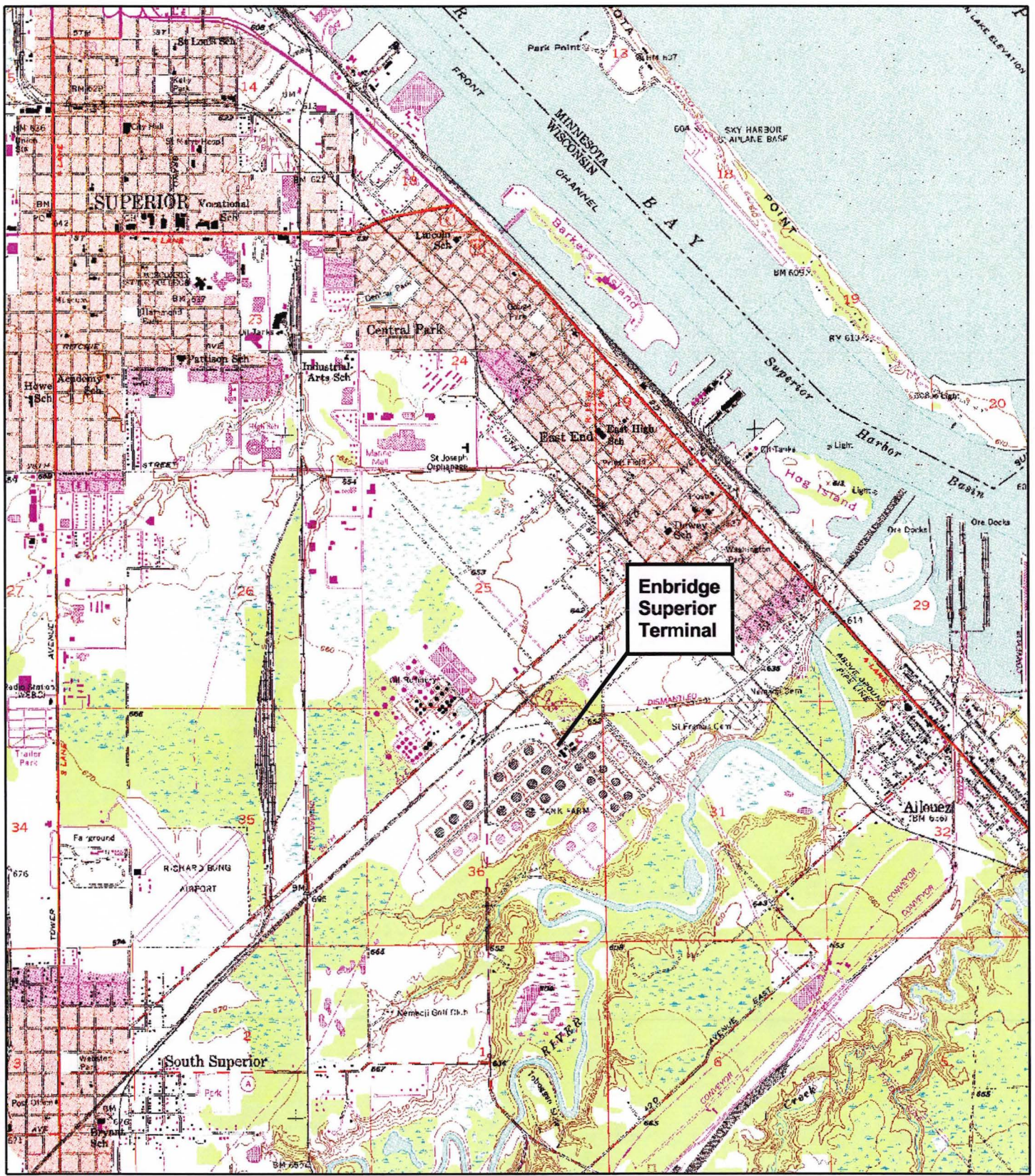
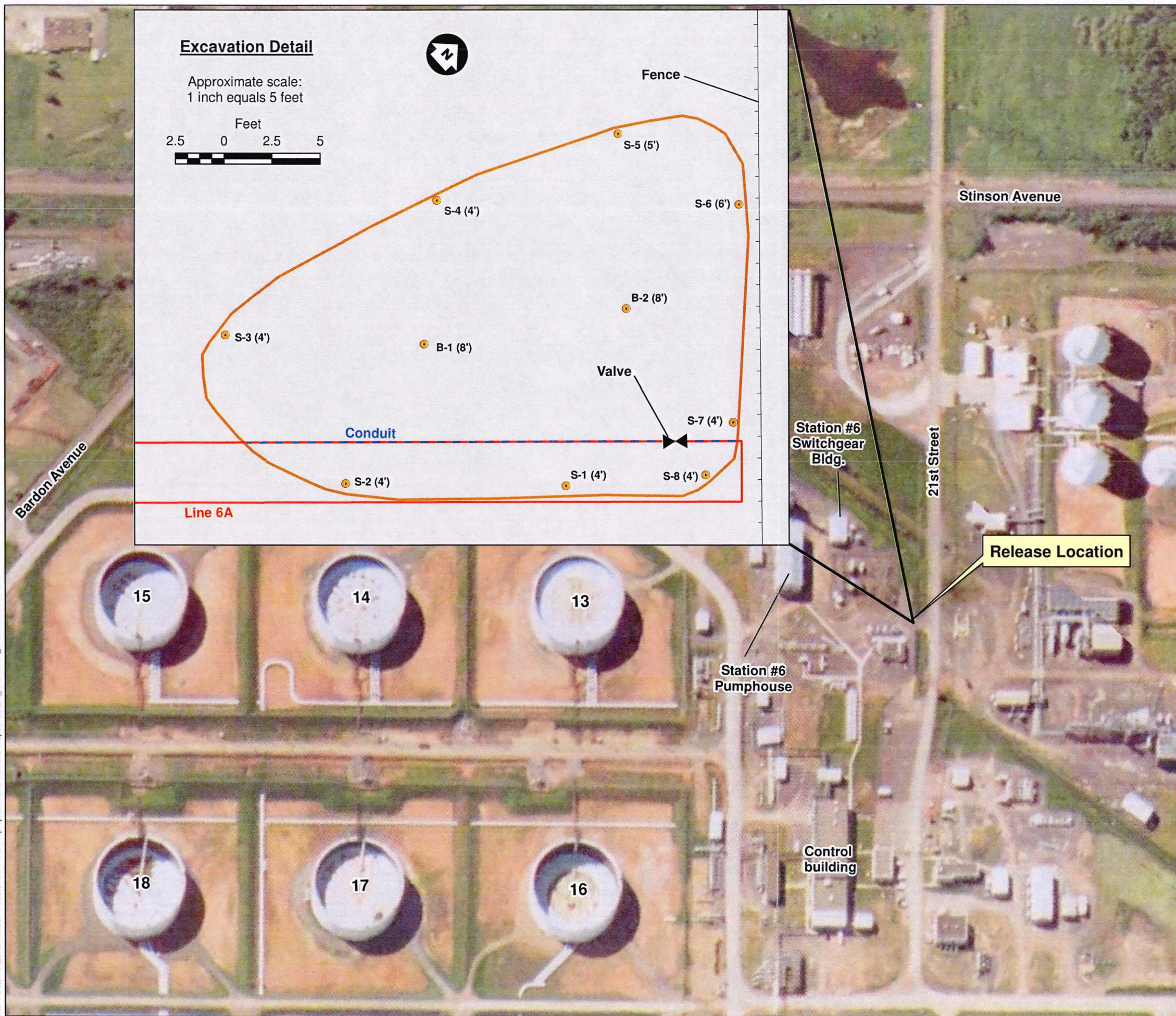





Figure 1

SITE LOCATION
Enbridge Energy
Superior, WI



-  Pipeline
-  Excavation limit
-  Soil sampling location (depth ft bgs)

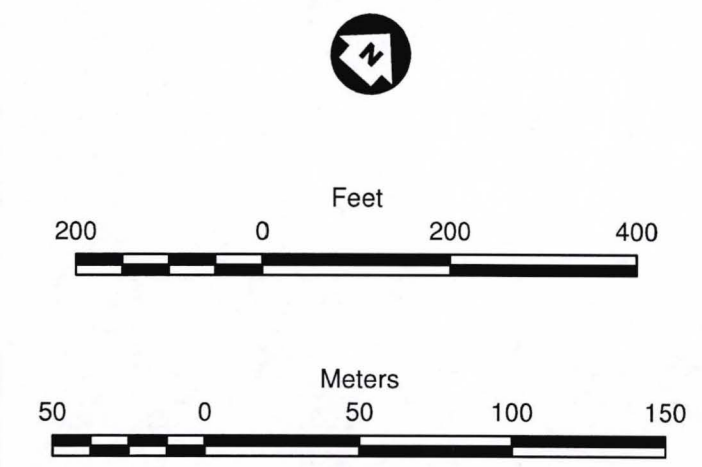


Figure 2
RELEASE LOCATION AND
EXCAVATION DETAIL
Superior Terminal Line 6A Release
Enbridge Energy
Superior, WI

Table

Table 1
Soil Analytical Results
Superior Terminal Line 6A
Superior, WI
(concentrations in mg/kg, unless noted otherwise)

Location	WDNR 746	WDNR 746	WDNR RR-519-97	WDNR 720.09	S-1 (4')	S-2 (4')	S-3 (4')	S-4 (4')	S-5 (5')	S-6 (6')	S-7 (4')	S-8 (4')	B-1 (8')	B-1 (8')	B-2 (8')
Date	Table 1 Indicators of Residual Petroleum Product in Soil Pores 1/1/2001	Table 2 Protection of Human Health from Direct Contact with Contaminated Soil 1/1/2001	Suggested GRCLs for PAHs in Soil Direct Contact Pathway Industrial 4/1/1997	Groundwater Protection from Soil 4/1/1997	3/28/2007	3/28/2007	3/28/2007	3/28/2007	3/28/2007	3/28/2007	3/28/2007	3/28/2007	3/28/2007	3/28/2007	3/28/2007
Lab Dup					PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE
Exceedance Key	Bold														
General Parameters															
Solids, %	--	--	--	--	80.9	71.4	76.2	76.6	75.8	73.3	74.8	73.4	76.1	77.8	73.3
TPHs															
DRO Extended Range C10-C40	--	--	--	--	0.055	<0.0043	0.033	<0.0046	0.058	<0.0042	<0.0038	<0.0052	0.019	0.0046	0.023
SVOCs															
1-Methylnaphthalene	--	--	70000	23	<0.031	<0.035	<0.033	<0.033	<0.033	<0.034	<0.033	<0.034	<0.033	<0.032	<0.034
2-Methylnaphthalene	--	--	40000	20	<0.031	<0.035	<0.033	<0.033	<0.033	<0.034	<0.033	<0.034	<0.033	<0.032	<0.034
Acenaphthene	--	--	60000	38	<0.031	<0.035	<0.033	<0.033	<0.033	<0.034	<0.033	<0.034	<0.033	<0.032	<0.034
Acenaphthylene	--	--	360	0.7	<0.031	<0.035	<0.033	<0.033	<0.033	<0.034	<0.033	<0.034	<0.033	<0.032	<0.034
Anthracene	--	--	300000	3000	0.033	<0.035	<0.033	<0.033	<0.033	<0.034	<0.033	<0.034	<0.033	<0.032	<0.034
Benzo(a)anthracene	--	--	3.9	17	0.057	<0.035	<0.033	<0.033	0.048	<0.034	0.038	<0.034	<0.033	<0.032	<0.034
Benzo(a)pyrene	--	--	0.39	48	0.051	<0.035	<0.033	<0.033	0.046	<0.034	<0.033	<0.034	<0.033	<0.032	<0.034
Benzo(b)fluoranthene	--	--	3.9	360	0.042	<0.035	<0.033	<0.033	0.042	<0.034	<0.033	<0.034	<0.033	<0.032	<0.034
Benzo(g,h,i)perylene	--	--	39	6800	<0.031	<0.035	<0.033	<0.033	<0.033	<0.034	<0.033	<0.034	<0.033	<0.032	<0.034
Benzo(k)fluoranthene	--	--	39	870	0.049	<0.035	<0.033	<0.033	0.040	<0.034	<0.033	<0.034	<0.033	<0.032	<0.034
Chrysene	--	--	390	37	0.059	<0.035	<0.033	<0.033	0.052	<0.034	0.040	<0.034	<0.033	<0.032	<0.034
Dibenz(a,h)anthracene	--	--	0.39	38	<0.031	<0.035	<0.033	<0.033	<0.033	<0.034	<0.033	<0.034	<0.033	<0.032	<0.034
Fluoranthene	--	--	40000	500	0.150	<0.035	<0.033	<0.033	0.130	<0.034	0.098	<0.034	<0.033	0.053	<0.034
Fluorene	--	--	40000	100	<0.031	<0.035	<0.033	<0.033	<0.033	<0.034	<0.033	<0.034	<0.033	<0.032	<0.034
Indeno(1,2,3-cd)pyrene	--	--	3.9	680	<0.031	<0.035	<0.033	<0.033	<0.033	<0.034	<0.033	<0.034	<0.033	<0.032	<0.034
Naphthalene	--	--	110	0.4	<0.031	<0.035	<0.033	<0.033	<0.033	<0.034	<0.033	<0.034	<0.033	<0.032	<0.034
Phenanthrene	--	--	390	1.8	0.098	<0.035	<0.033	<0.033	0.071	<0.034	<0.033	<0.034	<0.033	<0.032	<0.034
Pyrene	--	--	30000	8700	0.110	<0.035	<0.033	<0.033	0.100	<0.034	0.073	<0.034	<0.033	0.040	<0.034
PVOCs															
1,2,4-Trimethylbenzene	--	--	--	--	0.100	<0.035	<0.034	<0.033	<0.035	<0.035	<0.033	<0.034	<0.034	<0.034	<0.034
1,3,5-Trimethylbenzene	--	--	--	--	0.059	<0.035	<0.034	<0.033	<0.035	<0.035	<0.033	<0.034	<0.034	<0.034	<0.034
Benzene	8.5	1.1	--	0.0055	<0.034	<0.035	<0.034	<0.033	<0.035	<0.035	<0.033	<0.034	<0.034	<0.034	<0.034
Ethyl benzene	--	--	--	2.9	<0.034	<0.035	<0.034	<0.033	<0.035	<0.035	<0.033	<0.034	<0.034	<0.034	<0.034
Methyl tertiary butyl ether (MTBE)	--	--	--	--	<0.034	<0.035	<0.034	<0.033	<0.035	<0.035	<0.033	<0.034	<0.034	<0.034	<0.034
Toluene	--	--	--	1.5	0.047	<0.035	<0.034	<0.033	<0.035	<0.035	<0.033	<0.034	<0.034	<0.034	<0.034
Xylene m & p	--	--	--	--	0.100	<0.070	<0.068	<0.065	<0.069	<0.070	<0.067	<0.069	<0.068	<0.068	<0.068
Xylene o-	--	--	--	--	<0.034	<0.035	<0.034	<0.033	<0.035	<0.035	<0.033	<0.034	<0.034	<0.034	<0.034
Xylenes total	--	--	--	4.1	0.100	<0.070	<0.068	<0.065	<0.069	<0.070	<0.067	<0.069	<0.068	<0.068	<0.068

-- No criteria/not analyzed.
DUP Duplicate sample.

Appendix A

Soil Disposal Tickets



Timberline Trail
 M4381 Hutchinson Rd
 Weyerhaeuser, WI, 54895
 Ph: (715) 868-7000

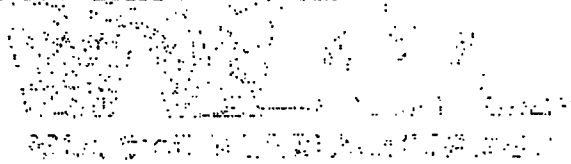
11647
 Original
 Ticket# 550617

06/11/2007 11:55 7158687001

Customer Name LAKEHEADPIPEL LAKEHEAD PIPELI Carrier OLYNICK OLYNICK
 Ticket Date 03/28/2007 Vehicle# 109 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0000346
 State Waste Code BR-23 Gen EPA ID
 Manifest * Grid
 Destination
 PG
 Profile 610484270 (CONTAMINATED SOIL)
 Generator (36-ENBRIDGEENERGYCOMPANY ENBRIDGE ENERGY COMPANY

	Time	Scale	Operator	Inbound	Gross	
In	03/28/2007 15:24:37	Scale	tlh		28140	lb
Out	03/29/2007 15:38:10	Scale	tlh		36440	lb
					18.22	Tons

Comments



TIMBERLINE TRAIL

Product	LDX	Qty	UDM	Rate	Tax	Amount	Origin
1 Spw Diorez R6C-Ton	100	18.22	Tons				RUSKWI
2 EVL-Env Fee Lg.	100	1	Load				RUSKWI
3 FUEL-Fuel Surcharg	100		%				RUSKWI

Total Tax
 Total Ticket

Driver's Signature *[Handwritten Signature]*

PAGE 02/11

SPECIAL WASTE MANIFEST DISPOSAL TICKET 759411

TIMBERLINE TRAIL
RECYCLING & DISPOSAL FACILITY
BIOSITESM



BILL TO: Enbridge

TRANSPORTER: Clunick

GENERATOR: Enbridge

GENERATOR'S SIGNATURE: David A. McLaughlin 3/28/07
Date

WASTE DESCRIPTION: City Soil

PROFILE # BIO484270

ACCEPTED BY: [Signature] 1
Date

DRIVERS SIGNATURE: [Signature] 3/28/07
Date

TRUCK NO. 109 18.22 TONS/YARDS

WHITE & YELLOW - TRANSPORTER COPY/PINK - DISPOSAL SITE COPY

DCE-013-99TT 202

05/11/2007 11:55 7158897801

TIMBERLINE TRAIL

PAGE 03/11



11701

Timberline Trail
N4381 Hutchinson Rd
Weyerhaeuser, WI, 54985
Ph: (715) 868-7000

Original
Ticket# 830574

06/11/2007 11:55 7158687001

Customer Name	LAKEHEAD PIPEL LAKEHEAD PIPEL	Carrier	OLYNICK OLYNICK	Value#	
Ticket Date	03/29/2007	Vehicle#	109		
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Hauling Ticket#		Check#			
Route		Billing #	0000346		
State Waste Code	BR-23	Gen EPA ID			
Manifest					
Destination		Grid			
PC					
Profile	310484270 (CONTAMINATED SOIL)				
Generator	136-ENDRIDGEENERGYCOMPANY ENBRIDGE ENERGY COMPANY				

	Time	Scale	Operator	Inbound	Gross	
In	03/29/2007 11:45:35	Scale	ratto		50300	lb
Out	03/29/2007 11:57:02	Scale	ratto		28200	lb
					Net	32020 lb
					Tons	16.01

Comments

UNLAWFUL TO TRANSPORT TO ANY OTHER STATE

TIMBERLINE TRAIL

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spw Stores RGC-Ton	100	16.01	Tons				DOUGWI
2 EVL-Env Fee Lg.	100	1	Load				DOUGWI
3 FUEL-Fuel Surcharg	100		%				DOUGWI

Total Tax
Total Ticket

Driver's Signature

PAGE 06/11

SPECIAL WASTE MANIFEST DISPOSAL TICKET 759233

TIMBERLINE TRAIL
RECYCLING & DISPOSAL FACILITY
BIOSITE™



BILL TO: Enbridge

TRANSPORTER: Dynnick

GENERATOR: Enbridge 3-29-07 DM

GENERATOR'S SIGNATURE: David A Mungby 3-29-07
Date

WASTE DESCRIPTION: Dily soil

PROFILE # B10484270

ACCEPTED BY: Robert Otho 3-29-07
Date

DRIVERS SIGNATURE: [Signature] 3-29-07 TRUCK NO. 108 [Signature] TONS/YARDS



Timberline Trail
 14581 Hutchinson Rd
 Weyauheiser, WI, 54995
 Ph: (715) 868-7300

11704

Original
 Ticket# 930664

06/11/2007 11:55 7158687001

Customer Name WMDULUTHLE WM DULUTH HAULING Carrier WMDULUTH WMDULUTH
 Ticket Date 03/29/2007 Vehicle# 407797 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing #
 State Waste Code 98-23 Gen EPA ID
 Manifest
 Destination Grid
 PG
 Profile 810494270 (CONTAMINATED SOIL)
 Generator 136-ENBRIDGEENERGYCOMPANY ENBRIDGE ENERGY COMPANY

Time	Scale	Operator	Inbound	Gross	69460	lb
In 03/29/2007 11:15:09	Scale	watts		Tare	31620	15
Out 03/29/2007 12:01:11	Scale	watts		Net	37840	16
				Tons		18.92

Comments



TIMBERLINE TRAIL

Product	LD%	Dty	UOM	Rate	Tax	Amount	Origin
1 CRUDE OIL CONTAMIN	100		Tons				DOUGWI

..... Driver's Signature

Total Tax
 Total Ticket

PAGE 10/11



Timberline Trail
 N4591 Hutchinson Rd
 Weyerhaeuser, WI, 54995
 Ph: (715) 858-7000

11735

Original
 Ticket# 880653

06/11/2007 11:55 7158887001

Customer Name: WMDULUTHLG WM DULUTH HAULING Carrier WMDULUTH WMDULUTH
 Ticket Date 03/29/2007 Vehicle# 411450 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing #
 State Waste Code BR-23 Gen EPA ID
 Manifest #
 Destination Grid
 PG
 Profile 510484270 (CONTAMINATED SOIL)
 Generator L36-ENBRIDGEENERGYCOMPANY ENBRIDGE ENERGY COMPANY

	Time	Scale	Operator	Inbound	Gross	
In	03/29/2007 11:13:31	Scale	rotto		134220	lb
Out	03/29/2007 12:02:51	Scale	rotto		50820	lb
					Net	83400
					Tons	41.70

Comments

***** THIS IS A SAMPLE TICKET *****

Product	LDX	Qty	UDM	Rate	Tax	Amount	Origin
1	CRUDE OIL CONTAMIN	100		41.70	Tons		000001

Total Tax
 Total Ticket

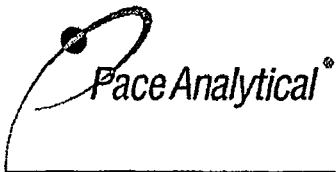
Driver's Signature

TIMBERLINE TRAIL

PAGE 11/11

Appendix B

Laboratory Analytical Report



1241 Bellevue Street, Suite 9
 Green Bay, WI 54302
 920-469-2436, Fax: 920-469-8827

Analytical Report Number: 882081

Client: BARR ENGINEERING

Lab Contact: Eric Bullock

Project Name: SUPERIOR TERMINAL LINE 6A


Project Number: 49/16-122

Lab Sample Number	Field ID	Matrix	Collection Date
882081-001	S-1 (4')	SOIL	03/28/07
882081-002	S-2 (4')	SOIL	03/28/07
882081-003	S-3 (4')	SOIL	03/28/07
882081-004	S-4 (4')	SOIL	03/28/07
882081-005	S-5 (5')	SOIL	03/28/07
882081-006	S-6 (6')	SOIL	03/28/07
882081-007	S-7 (4')	SOIL	03/28/07
882081-008	S-8 (4')	SOIL	03/28/07
882081-009	B-1 (8')	SOIL	03/28/07
882081-010	B-2 (8')	SOIL	03/28/07
882081-011	MEOH TRIP BLANK	METH	03/28/07
882081-012	DUP 1	SOIL	03/28/07

RECEIVED
 APR 05 2007
 BARR ENGINEERING CO.

MS/MSD: If the Form 3 header for the MS/MSD QC indicates that the MS/MSD was "Batch QC", then the MS/MSD results may not be directly applicable to your samples

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.


 Approval Signature

4/2/07
 Date

**Pace Analytical
Services, Inc.**

Analytical Report Number: 882081

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : BARR ENGINEERING
Project Name : SUPERIOR TERMINAL LINE 6A
Project Number : 49/16-122
Field ID : S-1 (4')

Matrix Type : SOIL
Collection Date : 03/28/07
Report Date : 04/02/07
Lab Sample Number : 882081-001

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	80.9	---	1	%		04/02/07	SM M2540G	SM M2540G

DRO Extended Range C10-C40

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
DRO Ext. Range C10 - C40	55	3.7	1	mg/kg		04/01/07	WI MOD DRO	WI MOD DRO

PVOC

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	100	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
1,3,5-Trimethylbenzene	59	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Benzene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Ethylbenzene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Methyl-tert-butyl-ether	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Toluene	47	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Xylene, m + p	100	67	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Xylene, o	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Surrogate		LCL	UCL					
a,a,a-Trifluorotoluene	102	80	119	1 %		03/30/07	5035/5030B	SW846 8021B

PAH/PNA

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 31	31	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
2-Methylnaphthalene	< 31	31	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Acenaphthene	< 31	31	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Acenaphthylene	< 31	31	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Anthracene	33	31	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(a)anthracene	57	31	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(a)pyrene	51	31	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	42	31	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(ghi)perylene	< 31	31	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	49	31	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Chrysene	59	31	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	< 31	31	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Fluoranthene	150	31	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Fluorene	< 31	31	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 31	31	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Naphthalene	< 31	31	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Phenanthrene	98	31	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Pyrene	110	31	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Surrogate		LCL	UCL					
Nitrobenzene-d5	58	10	141	1 %		03/30/07	SW846 3545	8270C-SIM
2-Fluorobiphenyl	58	10	161	1 %		03/30/07	SW846 3545	8270C-SIM
Terphenyl-d14	55	29	150	1 %		03/30/07	SW846 3545	8270C-SIM

**Pace Analytical
Services, Inc.**

Analytical Report Number: 882081

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : BARR ENGINEERING
Project Name : SUPERIOR TERMINAL LINE 6A
Project Number : 49/16-122
Field ID : S-2 (4)

Matrix Type : SOIL
Collection Date : 03/28/07
Report Date : 04/02/07
Lab Sample Number : 882081-002

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	71.4	--	1	%		04/02/07	SM M2540G	SM M2540G

DRO Extended Range C10-C40

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
DRO Ext. Range C10 - C40	< 4.3	4.3	1	mg/kg		04/01/07	WI MOD DRO	WI MOD DRO

PVOC

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	< 35	35	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
1,3,5-Trimethylbenzene	< 35	35	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Benzene	< 35	35	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Ethylbenzene	< 35	35	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Methyl-tert-butyl-ether	< 35	35	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Toluene	< 35	35	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Xylene, m + p	< 70	70	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Xylene, o	< 35	35	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Surrogate		LCL	UCL					
a,a,a-Trifluorotoluene	102	80	119	1 %		03/30/07	5035/5030B	SW846 8021B

PAH/PNA

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 35	35	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
2-Methylnaphthalene	< 35	35	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Acenaphthene	< 35	35	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Acenaphthylene	< 35	35	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Anthracene	< 35	35	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(a)anthracene	< 35	35	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(a)pyrene	< 35	35	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	< 35	35	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(ghi)perylene	< 35	35	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	< 35	35	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Chrysene	< 35	35	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	< 35	35	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Fluoranthene	< 35	35	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Fluorene	< 35	35	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 35	35	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Naphthalene	< 35	35	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Phenanthrene	< 35	35	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Pyrene	< 35	35	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Surrogate		LCL	UCL					
Nitrobenzene-d5	38	10	141	1 %		03/30/07	SW846 3545	8270C-SIM
2-Fluorobiphenyl	36	10	161	1 %		03/30/07	SW846 3545	8270C-SIM
Terphenyl-d14	34	29	150	1 %		03/30/07	SW846 3545	8270C-SIM

**Pace Analytical
Services, Inc.**

Analytical Report Number: 882081

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : BARR ENGINEERING
Project Name : SUPERIOR TERMINAL LINE 6A
Project Number : 49/16-122
Field ID : S-3 (4')

Matrix Type : SOIL
Collection Date : 03/28/07
Report Date : 04/02/07
Lab Sample Number : 882081-003

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	76.2	---	1	%		04/02/07	SM M2540G	SM M2540G

DRO Extended Range C10-C40

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
DRO Ext. Range C10 - C40	33	3.8	1	mg/kg		04/01/07	WI MOD DRO	WI MOD DRO

PVOC

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
1,3,5-Trimethylbenzene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Benzene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Ethylbenzene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Methyl-tert-butyl-ether	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Toluene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Xylene, m + p	< 68	68	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Xylene, o	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Surrogate		LCL	UCL					
a,a,a-Trifluorotoluene	102	80	119	1 %		03/30/07	5035/5030B	SW846 8021B

PAH/PNA

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
2-Methylnaphthalene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Acenaphthene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Acenaphthylene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Anthracene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(a)anthracene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(a)pyrene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(ghi)perylene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Chrysene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Fluoranthene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Fluorene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Naphthalene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Phenanthrene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Pyrene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Surrogate		LCL	UCL					
Nitrobenzene-d5	50	10	141	1 %		03/30/07	SW846 3545	8270C-SIM
2-Fluorobiphenyl	49	10	161	1 %		03/30/07	SW846 3545	8270C-SIM
Terphenyl-d14	48	29	150	1 %		03/30/07	SW846 3545	8270C-SIM

Client : BARR ENGINEERING
Project Name : SUPERIOR TERMINAL LINE 6A
Project Number : 49/16-122
Field ID : S-4 (4)

Matrix Type : SOIL
Collection Date : 03/28/07
Report Date : 04/02/07
Lab Sample Number : 882081-004

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	76.6	--	1	%		04/02/07	SM M2540G	SM M2540G

DRO Extended Range C10-C40

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
DRO Ext. Range C10 - C40	< 4.6	4.6	1	mg/kg		04/01/07	WI MOD DRO	WI MOD DRO

PVOC

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	< 33	33	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
1,3,5-Trimethylbenzene	< 33	33	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Benzene	< 33	33	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Ethylbenzene	< 33	33	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Methyl-tert-butyl-ether	< 33	33	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Toluene	< 33	33	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Xylene, m + p	< 65	65	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Xylene, o	< 33	33	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B

Surrogate

LCL UCL

a,a,a-Trifluorotoluene	103	80	119	1	%	03/30/07	5035/5030B	SW846 8021B
------------------------	-----	----	-----	---	---	----------	------------	-------------

PAH/PNA

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
2-Methylnaphthalene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Acenaphthene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Acenaphthylene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Anthracene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(a)anthracene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(a)pyrene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(ghi)perylene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Chrysene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Fluoranthene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Fluorene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Naphthalene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Phenanthrene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Pyrene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM

Surrogate

LCL UCL

Nitrobenzene-d5	46	10	141	1	%	03/30/07	SW846 3545	8270C-SIM
2-Fluorobiphenyl	39	10	161	1	%	03/30/07	SW846 3545	8270C-SIM
Terphenyl-d14	46	29	150	1	%	03/30/07	SW846 3545	8270C-SIM

**Pace Analytical
Services, Inc.**

Analytical Report Number: 882081

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : BARR ENGINEERING
Project Name : SUPERIOR TERMINAL LINE 6A
Project Number : 49/16-122
Field ID : S-5 (5)

Matrix Type : SOIL
Collection Date : 03/28/07
Report Date : 04/02/07
Lab Sample Number : 882081-005

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	75.8	---	1	%		04/02/07	SM M2540G	SM M2540G

DRO Extended Range C10-C40

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
DRO Ext. Range C10 - C40	58	4.6	1	mg/kg		04/01/07	WI MOD DRO	WI MOD DRO

PVOC

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	< 35	35	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
1,3,5-Trimethylbenzene	< 35	35	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Benzene	< 35	35	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Ethylbenzene	< 35	35	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Methyl-tert-butyl-ether	< 35	35	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Toluene	< 35	35	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Xylene, m + p	< 69	69	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Xylene, o	< 35	35	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Surrogate		LCL	UCL					
a,a,a-Trifluorotoluene	102	80	119	1 %		03/30/07	5035/5030B	SW846 8021B

PAH/PNA

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
2-Methylnaphthalene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Acenaphthene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Acenaphthylene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Anthracene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(a)anthracene	48	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(a)pyrene	46	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	42	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(ghi)perylene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	40	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Chrysene	52	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Fluoranthene	130	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Fluorene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Naphthalene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Phenanthrene	71	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Pyrene	100	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Surrogate		LCL	UCL					
Nitrobenzene-d5	31	10	141	1 %		03/30/07	SW846 3545	8270C-SIM
2-Fluorobiphenyl	28	10	161	1 %		03/30/07	SW846 3545	8270C-SIM
Terphenyl-d14	32	29	150	1 %		03/30/07	SW846 3545	8270C-SIM

**Pace Analytical
Services, Inc.**

Analytical Report Number: 882081

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : BARR ENGINEERING
Project Name : SUPERIOR TERMINAL LINE 6A
Project Number : 49/16-122
Field ID : S-6 (6')

Matrix Type : SOIL
Collection Date : 03/28/07
Report Date : 04/02/07
Lab Sample Number : 882081-006

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	73.3	--	1	%		04/02/07	SM M2540G	SM M2540G

DRO Extended Range C10-C40

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
DRO Ext. Range C10 - C40	< 4.2	4.2	1	mg/kg		04/01/07	WI MOD DRO	WI MOD DRO

PVOC

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	< 35	35	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
1,3,5-Trimethylbenzene	< 35	35	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Benzene	< 35	35	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Ethylbenzene	< 35	35	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Methyl-tert-butyl-ether	< 35	35	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Toluene	< 35	35	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Xylene, m + p	< 70	70	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Xylene, o	< 35	35	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Surrogate		LCL	UCL					
a,a,a-Trifluorotoluene	101	80	119	1 %		03/30/07	5035/5030B	SW846 8021B

PAH/PNA

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
2-Methylnaphthalene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Acenaphthene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Acenaphthylene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Anthracene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(a)anthracene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(a)pyrene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(ghi)perylene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Chrysene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Fluoranthene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Fluorene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Naphthalene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Phenanthrene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Pyrene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Surrogate		LCL	UCL					
Nitrobenzene-d5	44	10	141	1 %		03/30/07	SW846 3545	8270C-SIM
2-Fluorobiphenyl	44	10	161	1 %		03/30/07	SW846 3545	8270C-SIM
Terphenyl-d14	47	29	150	1 %		03/30/07	SW846 3545	8270C-SIM

Client : BARR ENGINEERING
Project Name : SUPERIOR TERMINAL LINE 6A
Project Number : 49/16-122
Field ID : S-7 (4')

Matrix Type : SOIL
Collection Date : 03/28/07
Report Date : 04/02/07
Lab Sample Number : 882081-007

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	74.8	--	1	%		04/02/07	SM M2540G	SM M2540G

DRO Extended Range C10-C40

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
DRO Ext. Range C10 - C40	< 3.8	3.8	1	mg/kg		04/01/07	WI MOD DRO	WI MOD DRO

PVOC

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	< 33	33	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
1,3,5-Trimethylbenzene	< 33	33	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Benzene	< 33	33	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Ethylbenzene	< 33	33	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Methyl-tert-butyl-ether	< 33	33	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Toluene	< 33	33	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Xylene, m + p	< 67	67	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Xylene, o	< 33	33	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Surrogate		LCL	UCL					
a,a,a-Trifluorotoluene	102	80	119	1 %		03/30/07	5035/5030B	SW846 8021B

PAH/PNA

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
2-Methylnaphthalene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Acenaphthene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Acenaphthylene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Anthracene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(a)anthracene	38	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(a)pyrene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(ghi)perylene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Chrysene	40	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Fluoranthene	98	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Fluorene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Naphthalene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Phenanthrene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Pyrene	73	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Surrogate		LCL	UCL					
Nitrobenzene-d5	32	10	141	1 %		03/30/07	SW846 3545	8270C-SIM
2-Fluorobiphenyl	37	10	161	1 %		03/30/07	SW846 3545	8270C-SIM
Terphenyl-d14	41	29	150	1 %		03/30/07	SW846 3545	8270C-SIM

**Pace Analytical
Services, Inc.**

Analytical Report Number: 882081

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : BARR ENGINEERING
Project Name : SUPERIOR TERMINAL LINE 6A
Project Number : 49/16-122
Field ID : S-8 (4')

Matrix Type : SOIL
Collection Date : 03/28/07
Report Date : 04/02/07
Lab Sample Number : 882081-008

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	73.4	--	1	%		04/02/07	SM M2540G	SM M2540G

DRO Extended Range C10-C40

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
DRO Ext. Range C10 - C40	< 5.2	5.2	1	mg/kg		04/01/07	WI MOD DRO	WI MOD DRO

PVOC

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
1,3,5-Trimethylbenzene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Benzene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Ethylbenzene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Methyl-tert-butyl-ether	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Toluene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Xylene, m + p	< 69	69	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Xylene, o	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B

Surrogate

LCL UCL

a,a,a-Trifluorotoluene	102	80	119	1	%	03/30/07	5035/5030B	SW846 8021B
------------------------	-----	----	-----	---	---	----------	------------	-------------

PAH/PNA

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
2-Methylnaphthalene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Acenaphthene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Acenaphthylene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Anthracene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(a)anthracene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(a)pyrene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(ghi)perylene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Chrysene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Fluoranthene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Fluorene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Naphthalene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Phenanthrene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Pyrene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM

Surrogate

LCL UCL

Nitrobenzene-d5	40	10	141	1	%	03/30/07	SW846 3545	8270C-SIM
2-Fluorobiphenyl	38	10	161	1	%	03/30/07	SW846 3545	8270C-SIM
Terphenyl-d14	37	29	150	1	%	03/30/07	SW846 3545	8270C-SIM

**Pace Analytical
Services, Inc.**

Analytical Report Number: 882081

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : BARR ENGINEERING
Project Name : SUPERIOR TERMINAL LINE 6A
Project Number : 49/16-122
Field ID : B-1 (8')

Matrix Type : SOIL
Collection Date : 03/28/07
Report Date : 04/02/07
Lab Sample Number : 882081-009

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	76.1	---	1	%		04/02/07	SM M2540G	SM M2540G

DRO Extended Range C10-C40

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
DRO Ext. Range C10 - C40	19	4.2	1	mg/kg		04/01/07	WI MOD DRO	WI MOD DRO

PVOC

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
1,3,5-Trimethylbenzene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Benzene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Ethylbenzene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Methyl-tert-butyl-ether	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Toluene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Xylene, m + p	< 68	68	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Xylene, o	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Surrogate		LCL	UCL					
a,a,a-Trifluorotoluene	102	80	119	1 %		03/30/07	5035/5030B	SW846 8021B

PAH/PNA

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
2-Methylnaphthalene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Acenaphthene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Acenaphthylene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Anthracene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(a)anthracene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(a)pyrene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(ghi)perylene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Chrysene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Fluoranthene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Fluorene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Naphthalene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Phenanthrene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Pyrene	< 33	33	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Surrogate		LCL	UCL					
Nitrobenzene-d5	40	10	141	1 %		03/30/07	SW846 3545	8270C-SIM
2-Fluorobiphenyl	37	10	161	1 %		03/30/07	SW846 3545	8270C-SIM
Terphenyl-d14	41	29	150	1 %		03/30/07	SW846 3545	8270C-SIM

**Pace Analytical
Services, Inc.**

Analytical Report Number: 882081

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : BARR ENGINEERING
Project Name : SUPERIOR TERMINAL LINE 6A
Project Number : 49/16-122
Field ID : B-2 (8')

Matrix Type : SOIL
Collection Date : 03/28/07
Report Date : 04/02/07
Lab Sample Number : 882081-010

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	73.3	--	1	%		04/02/07	SM M2540G	SM M2540G

DRO Extended Range C10-C40

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
DRO Ext. Range C10 - C40	23	5.6	1	mg/kg		04/01/07	WI MOD DRO	WI MOD DRO

PVOC

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
1,3,5-Trimethylbenzene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Benzene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Ethylbenzene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Methyl-tert-butyl-ether	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Toluene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Xylene, m + p	< 68	68	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Xylene, o	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Surrogate		LCL	UCL					
a,a,a-Trifluorotoluene	102	80	119	1 %		03/30/07	5035/5030B	SW846 8021B

PAH/PNA

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
2-Methylnaphthalene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Acenaphthene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Acenaphthylene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Anthracene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(a)anthracene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(a)pyrene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(ghi)perylene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Chrysene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Fluoranthene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Fluorene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Naphthalene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Phenanthrene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Pyrene	< 34	34	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Surrogate		LCL	UCL					
Nitrobenzene-d5	42	10	141	1 %		03/30/07	SW846 3545	8270C-SIM
2-Fluorobiphenyl	37	10	161	1 %		03/30/07	SW846 3545	8270C-SIM
Terphenyl-d14	43	29	150	1 %		03/30/07	SW846 3545	8270C-SIM

**Pace Analytical
Services, Inc.**

Analytical Report Number: 882081

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : BARR ENGINEERING
Project Name : SUPERIOR TERMINAL LINE 6A
Project Number : 49/16-122
Field ID : MEOH TRIP BLANK

Matrix Type : METHANOL
Collection Date : 03/28/07
Report Date : 04/02/07
Lab Sample Number : 882081-011

PVOC Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	< 25	25	50	ug/L		03/30/07	5035B/5030B	SW846 8021B
1,3,5-Trimethylbenzene	< 25	25	50	ug/L		03/30/07	5035B/5030B	SW846 8021B
Benzene	< 25	25	50	ug/L		03/30/07	5035B/5030B	SW846 8021B
Ethylbenzene	< 25	25	50	ug/L		03/30/07	5035B/5030B	SW846 8021B
Methyl-tert-butyl-ether	< 25	25	50	ug/L		03/30/07	5035B/5030B	SW846 8021B
Toluene	< 25	25	50	ug/L		03/30/07	5035B/5030B	SW846 8021B
Xylene, m + p	< 50	50	50	ug/L		03/30/07	5035B/5030B	SW846 8021B
Xylene, o	< 25	25	50	ug/L		03/30/07	5035B/5030B	SW846 8021B

**Pace Analytical
Services, Inc.**

Analytical Report Number: 882081

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : BARR ENGINEERING
Project Name : SUPERIOR TERMINAL LINE 6A
Project Number : 49/16-122
Field ID : DUP 1

Matrix Type : SOIL
Collection Date : 03/28/07
Report Date : 04/02/07
Lab Sample Number : 882081-012

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	77.8	--	1	%		04/02/07	SM M2540G	SM M2540G

DRO Extended Range C10-C40

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
DRO Ext. Range C10 - C40	4.6	4.3	1	mg/kg		04/01/07	WI MOD DRO	WI MOD DRO

PVOC

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
1,3,5-Trimethylbenzene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Benzene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Ethylbenzene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Methyl-tert-butyl-ether	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Toluene	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Xylene, m + p	< 68	68	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B
Xylene, o	< 34	34	50	ug/Kg		03/30/07	5035/5030B	SW846 8021B

Surrogate

LCL UCL

a,a,a-Trifluorotoluene	102	80	119	1	%	03/30/07	5035/5030B	SW846 8021B
------------------------	-----	----	-----	---	---	----------	------------	-------------

PAH/PNA

Prep Date: 03/30/07

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 32	32	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
2-Methylnaphthalene	< 32	32	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Acenaphthene	< 32	32	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Acenaphthylene	< 32	32	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Anthracene	< 32	32	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(a)anthracene	< 32	32	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(a)pyrene	< 32	32	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	< 32	32	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(ghi)perylene	< 32	32	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	< 32	32	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Chrysene	< 32	32	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	< 32	32	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Fluoranthene	53	32	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Fluorene	< 32	32	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 32	32	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Naphthalene	< 32	32	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Phenanthrene	< 32	32	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM
Pyrene	40	32	1	ug/Kg		03/30/07	SW846 3545	8270C-SIM

Surrogate

LCL UCL

Nitrobenzene-d5	41	10	141	1	%	03/30/07	SW846 3545	8270C-SIM
2-Fluorobiphenyl	36	10	161	1	%	03/30/07	SW846 3545	8270C-SIM
Terphenyl-d14	41	29	150	1	%	03/30/07	SW846 3545	8270C-SIM

Lab Number	TestGroupID	Field ID	Comment
882081-001	DRO+ER-S	S-1 (4')	Late eluting hump along with diesel range peaks were present in the chromatogram.
882081-003	DRO+ER-S	S-3 (4')	Late eluting hump along with diesel range peaks were present in the chromatogram.
882081-005	DRO+ER-S	S-5 (5')	Late eluting hump along with diesel range peaks were present in the chromatogram.
882081-007	DRO+ER-S	S-7 (4')	Late eluting hump along with diesel range peaks were present in the chromatogram.
882081-008	DRO+ER-S	S-8 (4')	Late eluting hump along with diesel range peaks were present in the chromatogram.
882081-009	DRO+ER-S	B-1 (8')	Late eluting hump along with diesel range peaks were present in the chromatogram.
882081-010	DRO+ER-S	B-2 (8')	Late eluting hump along with diesel range peaks were present in the chromatogram.
882081-012	DRO+ER-S	DUP 1	Late eluting hump along with diesel range peaks were present in the chromatogram.

Qualifier Codes

Flag Applies To Explanation

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
Z	Organics	This compound was separated in the check standard but it did not meet the resolution criteria as set forth in SW846.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
+	Inorganic	The sample result is greater than four times the spike level; therefore, the percent recovery is not evaluated.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
8	Inorganic	Sample was received unpreserved. Sample was preserved either at the time of receipt or at the time of sample preparation.
9	Inorganic	Sample was received with insufficient preservation. Acid was added either at the time of receipt or at the time of sample preparation.

Test Group Name	882081-001	882081-002	882081-003	882081-004	882081-005	882081-006	882081-007	882081-008	882081-009	882081-010	882081-011	882081-012
DRO Extended Range C10-C40	B	B	B	B	B	B	B	B	B	B	B	B
PAH/PNA	B	B	B	B	B	B	B	B	B	B	B	B
PERCENT SOLIDS	B	B	B	B	B	B	B	B	B	B	B	B
PVOC	G	G	G	G	G	G	G	G	G	G	G	G

Code	MN Certification
B	055-999-334
G	055-999-334

QC Summary

Batch: 882081
Lab Section: BNASIM
QC Batch Number: 19366
Prep Method: SW846 3545
Analytical Method: 8270C-SIM

QC Type	Client Sample ID	Lab Sample ID
MB	2034-96MB	2034-96MB
LCS	2034-96LCS	2034-96LCS
MS	882001-002MS	882001-002MS
MSD	882001-002MSD	882001-002MSD

Client Sample ID	Lab Sample ID	MB ID	Client Sample ID	Lab Sample ID	MB ID
S-1 (4)	882081-001	MB	S-2 (4')	882081-002	MB
S-3 (4)	882081-003	MB	S-4 (4')	882081-004	MB
S-5 (5)	882081-005	MB	S-6 (6')	882081-006	MB
S-7 (4)	882081-007	MB	S-8 (4')	882081-008	MB
B-1 (8')	882081-009	MB	B-2 (8')	882081-010	MB
DUP 1	882081-012	MB			

Test Name	Method Blank Result Conc	LCS			LCS/D			LCS/LCSD RPD % C	LCS/LCSD Control Limits			Parent Sample Number	Parent Result Conc	MS Spiked Conc	MS Recovery			MSD Spiked Conc	MSD Recovery			MS/MSD RPD		MS/MSD Control Limits		
		Spiked Conc	LCS Recovery Conc	% C	Spiked Conc	LCS Recovery Conc	% C		LCL %	UCL %	RPD %				Conc	% C	Conc		% C	Conc	% C	% C	LCL %	UCL %	RPD %	
1-Methylnaphthalena	< 25	500.0	358.9	72	--	--	--	56	136	21	882001-002	99.94	584.0	625.9	90	584.0	620.4	89	0.9	38	136	35				
2-Methylnaphthalena	< 25	500.0	357.7	72	--	--	--	55	134	32	882001-002	120.2	584.0	643.1	90	584.0	624.3	86	3.0	29	140	22				
Acenaphthene	< 25	500.0	350.8	70	--	--	--	47	143	20	882001-002	8.771	584.0	403.6	68	584.0	351.6	59	13.8	44	123	27				
Acenaphthylene	< 25	500.0	352.3	70	--	--	--	56	134	20	882001-002	3.790	584.0	383.9	65	584.0	337.6	57	12.8	45	128	20				
Anthracene	< 25	500.0	366.1	73	--	--	--	45	147	23	882001-002	4.600	584.0	405.7	69	584.0	349.7	59	14.8	27	152	57				
Benzo(a)anthracene	< 25	500.0	341.5	68	--	--	--	50	140	20	882001-002	< 6.2	584.0	370.6	63	584.0	318.4	55	15.2	36	139	46				
Benzo(a)pyrene	< 25	500.0	344.6	69	--	--	--	61	141	20	882001-002	< 3.4	584.0	383.3	66	584.0	324.9	56	16.5	34	147	28				
Benzo(b)fluoranthene	< 25	500.0	342.1	68	--	--	--	55	141	20	882001-002	< 3.3	584.0	388.7	67	584.0	340.6	58	13.2	34	152	32				
Benzo(ghi)perylene	< 25	500.0	294.8	59	--	--	--	42	142	20	882001-002	< 4.2	584.0	263.8	45	584.0	215.3	37	20.3	10	142	26				
Benzo(k)fluoranthene	< 25	500.0	371.8	74	--	--	--	53	155	20	882001-002	< 3.6	584.0	424.6	73	584.0	344.6	59	20.8	25	159	27				
Chrysene	< 25	500.0	340.1	68	--	--	--	57	135	20	882001-002	< 5.1	584.0	368.2	63	584.0	316	54	15.3	35	139	35				
Dibenz(a,h)anthracene	< 25	500.0	311.6	62	--	--	--	54	148	20	882001-002	< 3.2	584.0	300.7	51	584.0	249.4	43	18.7	26	147	26				
Fluoranthene	< 25	500.0	381.5	76	--	--	--	54	139	20	882001-002	< 3.4	584.0	398.1	68	584.0	334	57	17.5	18	169	43				
Fluorene	< 25	500.0	356.7	71	--	--	--	48	139	21	882001-002	12.32	584.0	404.7	67	584.0	354.3	59	13.3	41	131	26				
Indeno(1,2,3-cd)pyrene	< 25	500.0	308	62	--	--	--	49	147	21	882001-002	< 2.9	584.0	292.7	50	584.0	238.7	41	20.3	17	145	29				
Naphthalena	< 25	500.0	343.9	69	--	--	--	48	131	27	882001-002	10.62	584.0	397.1	66	584.0	362.6	60	9.1	30	131	29				
Phenanthrene	< 25	500.0	362.6	73	--	--	--	52	134	20	882001-002	53.06	584.0	491.6	75	584.0	440.3	66	11.0	21	151	36				
Pyrene	< 25	500.0	336.2	67	--	--	--	49	144	20	882001-002	3.877	584.0	351	59	584.0	300.2	51	15.6	10	206	46				
Nitrobenzene-d5	70%	--	--	63	--	--	--	10	141	--	882001-002	60%	--	--	58	--	--	51	--	10	141	--				
2-Fluorobiphenyl	69%	--	--	63	--	--	--	10	161	--	882001-002	57%	--	--	56	--	--	46	--	10	161	--				

Conc = ug/Kg unless otherwise noted

C = QC Code, see Qualifier Sheet

Parent Result is reported down to MDL in order to allow Validation of this worksheet

The %R and RPD results are calculated from raw data values with more significant figures than are reported on this form.

Report Date: 4/2/2007

QC Batch Number: 19366

QC Summary

Test Name	Method Blank Result Conc	LCS Spiked Conc	LCS Recovery			LCS Spiked Conc	LCS Recovery			LCS/ LCS RPD % C	LCS/LCS Control Limits			Parent Sample Number	Parent Result Conc	MS Spiked Conc	MS Recovery			MS Spiked Conc	MS Recovery			MS/ MS RPD % C	MS/MS Control Limits		
			Conc	%	C		Conc	%	C		LCL	UCL	RPD				Conc	%	C		Conc	%	C		LCL	UCL	RPD
			%	%	%		%	%	%		%	%	%				%	%	%		%	%	%		%	%	%
Terphenyl-d14	66%	—	—	59	—	—	—	—	—	29	150	—	882001-002	55%	—	—	53	—	—	45	—	—	—	29	150	—	

Conc = ug/Kg unless otherwise noted

C = QC Code, see Qualifier Sheet

Parent Result is reported down to MDL in order to allow Validation of this worksheet

The %R and RPD results are calculated from raw data values with more significant figures than are reported on this form.

Report Date: 4/2/2007

QC Batch Number: 19366

Batch: 882081
Lab Section: DIESEL
QC Batch Number: 19360
Prep Method: WI MOD DRO
Analytical Method: WI MOD DRO

QC Type	Client Sample ID	Lab Sample ID
MB	SD2122-059MB	SD2122-059MB
LCS	SD2122-059MBLCS	SD2122-059MBLCS
LCSD	SD2122-059MBLCSD	SD2122-059MBLCSD

Client Sample ID	Lab Sample ID	MB ID	Client Sample ID	Lab Sample ID	MB ID
S-1 (4')	882081-001	MB	S-2 (4')	882081-002	MB
S-3 (4')	882081-003	MB	S-4 (4')	882081-004	MB
S-5 (5')	882081-005	MB	S-6 (6')	882081-006	MB
S-7 (4')	882081-007	MB	S-8 (4')	882081-008	MB
B-1 (8')	882081-009	MB	B-2 (8')	882081-010	MB
DUP 1	882081-012	MB			

Test Name	Method Blank Result Conc	LCS Spiked Conc	LCS Recovery			LCS Spiked Conc	LCS Recovery			LCS/LCSD RPD % C	LCS/LCSD Control Limits			Parent Sample Number	Parent Result Conc	MS Spiked Conc	MS Recovery			MSD Spiked Conc	MSD Recovery			MS/MSD RPD % C	MS/MSD Control Limits					
			Conc	%	C		Conc	%	C		LCL	UCL	RPD				Conc	%	C		Conc	%	C		LCL	UCL	RPD			
											%	%	%													%	%	%		
DRO Ext. Range C10 - C40	< 5	80.0	70	87	C	80.0	69.2	87	C	1.0	70	120	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Conc = mg/kg unless otherwise noted

C = QC Code, see Qualifier Sheet

Parent Result is reported down to MDL in order to allow Validation of this worksheet

The %R and RPD results are calculated from raw data values with more significant figures than are reported on this form.

Report Date: 4/2/2007

QC Batch Number: 19360



Sample Condition Upon Receipt

Client Name: BARR Project # 882081

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 3871439

Optional
Proj. Due Date
Proj. Name

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used N/A Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature ROI Biological Tissue is Frozen: Yes No
Temp should be above freezing to 6°C

Date and Initials of person examining contents: 3/30/07 KJL
3/30/07

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7. <u>48 HOUR TAT</u>
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>S</u>	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: EBK/2/07 Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



Chain of Custody

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

veg

Project Number

49 / 16 - 1 22

Project Name

Superior Terminal line 6A No 23753

Number of Containers/Preservative

COC 1 of 1

Project Manager: HAW

Project Contact: KDP

Sampled by: LMG

Laboratory: Pace

Remarks: 88208

301
302
303
304
305
306
307
308
309
310
311
312

Sample Identification	Collection		Matrix		Type		Volatile Organics (Pres.)*1	Semivolatile Organics *2	Dissolved Metals (HNO3)	Total Metals (HNO3)	General (Unpreserved)*3	Cyanide (NaOH)	Nutrients (H2SO4)*4	Oil and Grease (H2SO4)	Sulfide (Zn Acetate)	Methane	Bacteria (Na2S2O3)	DRO (HCl)	VOCs (2-oz tared MeOH)*1	GRO, BTEX (2-oz tared MeOH)*1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.)*2	% Moisture (plastic vial, unpres.)	PDOC	PAH	Total No. Of Containers
	Date	Time	Water	Soil	Grab	Comp.																					
1. S-1 (4')	3/28/07		X		X																1					1	4
2. S-2 (4')			X		X																1					1	4
3. S-3 (4')			X		X																1					1	4
4. S-4 (4')			X		X																1					1	4
5. S-5 (5')			X		X																1					1	4
6. S-6 (6')			X		X																1					1	4
7. S-7 (4')			X		X																1					1	4
8. S-8 (4')			X		X																1					1	4
9. B-1 (8')			X		X																1					1	4
10. B-2 (8')			X		X																1					1	4
11. MeOH Trip Blank																											
12. Dup 1	3/28/07		X		X																1					1	4

Parameters:
 - PDOC (10g soil + MeOH)
 - PAH
 - Extended range DRO
 48-hr rush
 Call Keely Pearson with questions
 800-632-2277
 1-40ml
 1-40z glass
 1-40z amber
 1-40z Poly 1-40ml

Common Parameter/Container - Preservation Key

- *1 - Volatile Organics = BTEX, GRO, TPH, Full List
- *2 - Semivolatile Organics = PAHs, PCP, Dioxins, 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: Wah Guehn	On Ice? <input checked="" type="checkbox"/> N	Date 3/28/07	Time	Received by [Signature]	Date 3/28/07	Time 17:45
Relinquished By: [Signature]	On Ice? <input checked="" type="checkbox"/> N	Date 3/29/07	Time 11:30	Received by [Signature]	Date 3/29/07	Time 11:30
Samples Shipped VIA: <input type="checkbox"/> Air Freight <input type="checkbox"/> Federal Express <input checked="" type="checkbox"/> Sampler <input type="checkbox"/> Other				Air Bill Number:		

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator
 DUNHAM 3/30/07 825 KJ Roehmann 3/30/07 825 20T

Sager, John E - DNR

From: Hans Wronka [hwronka@barr.com]
Sent: Wednesday, April 11, 2007 10:56 AM
To: Sager, John E - DNR
Cc: Kristen.Benson@enbridge.com
Subject: Superior terminal Line 6A
Attachments: Superior Terminal Line 6A.pdf

John,

Attached is a site sketch showing detections for analytical results for the recent leak at the Superior Terminal. As you can see, most of the confirmation samples had few if any detections. The excavation is not readily able to be extended to the south or east due to constraints of existing infrastructure and the potential risks associated with undermining them. Kris and I would like to discuss this with you this afternoon if you are available. Would it work if we called you at 2 PM?

Hans Wronka

Barr Engineering Company
332 West Superior Street
Duluth, MN 55803

Direct Line 218-529-8208
Toll Free 1-800-786-5830
Mobile 218-343-6453

<<Superior Terminal Line 6A.pdf>>



MINNEAPOLIS, MINNESOTA - HIBING, MINNESOTA
 DULUTH, MINNESOTA
 ANN ARBOR, MICHIGAN - JEFFERSON CITY, MISSOURI

DATE 4/4/07

SHEET NO.

PROJECT NAME Line 6A Superior Terminal

COMPUTED

CHECKED

SUBMITTED

PROJECT NUMBER

BY LMG

BY

TO

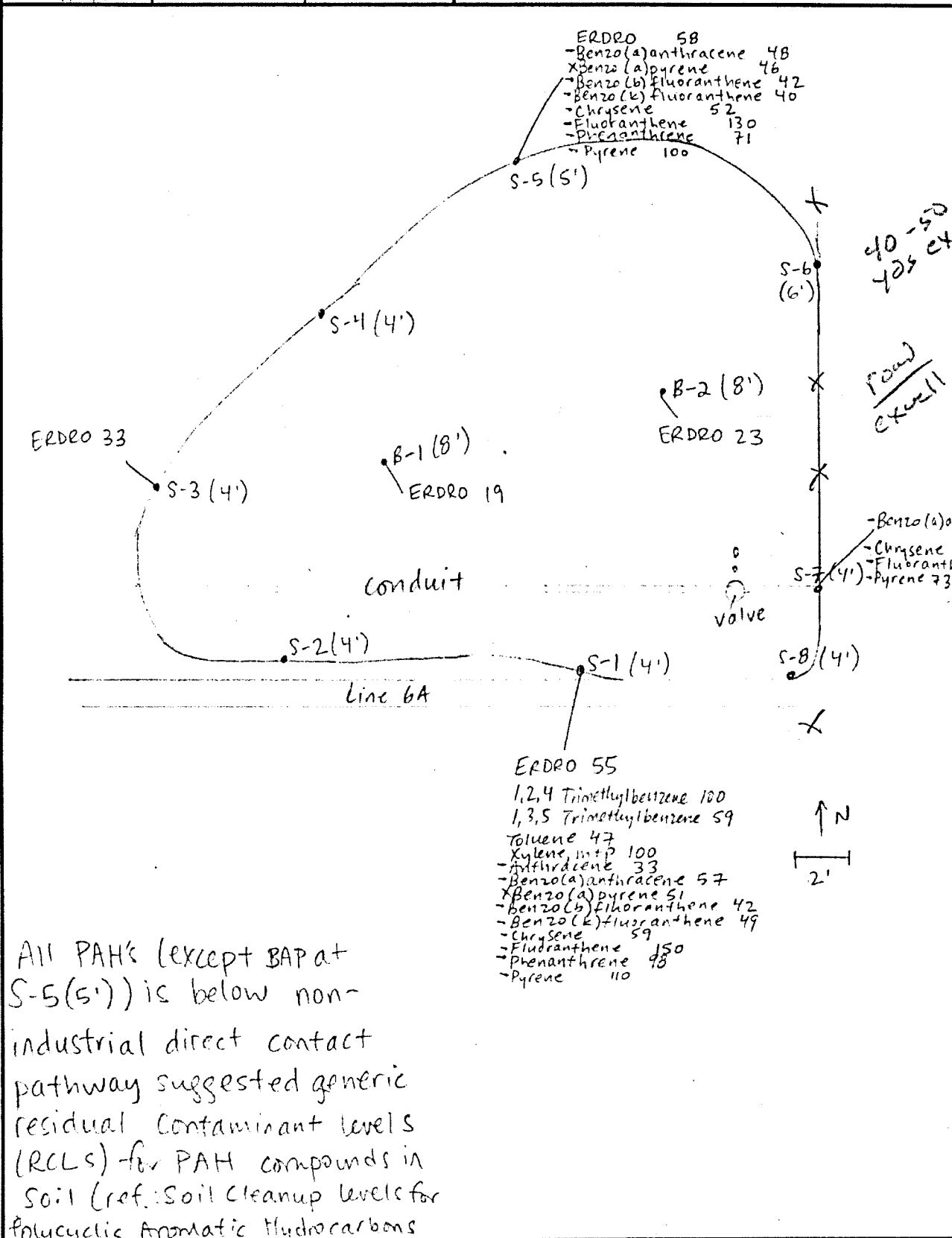
SUBJECT

Analytical Data - DRAFT

DATE 4/4/07

DATE

DATE



All PAHs (except BAP at S-5(5')) is below non-industrial direct contact pathway suggested generic residual Contaminant levels (RCLs) for PAH compounds in soil (ref: Soil Cleanup levels for Polycyclic Aromatic Hydrocarbons

H:\G:\HOUSE\COM\PAHS.CDR

(PAHs) Interim Guidance, WIDNR). BAP at S-5(5') is below industrial criteria for above.

Sager, John E - DNR

From: Bauer, Ann E - DNR
Sent: Tuesday, March 20, 2007 7:46 AM
To: Sager, John E - DNR
Cc: Bauer, Ann E - DNR; Drew, James M - DHFS; Hosch, James A - DNR; Richard, Philip E - DNR
Subject: nor03192007_01.doc
Attachments: nor03192007_01.doc



nor03192007_01.doc
(116 KB)