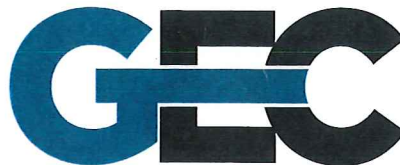


General Engineering
Company
P.O. Box 340
916 Silver Lake Drive
Portage, WI 53901



Engineers • Consultants • Inspectors

Marathon # 2076
09-53-558317
608-742-2169 (Office)
608-742-2592 (Fax)
gec@generalengineering.net
www.generalengineering.net
Scr
023

January 25, 2012

Mr. Bill Shane
Wisconsin Department of Safety and Professional Services
PO Box 65
Baraboo, WI 53913

COPY

RE: Underground Storage Tank Assessment
Marathon #2076
865 E. Main Street,
Richland Center, Richland County, Wisconsin

Dear Mr. Shane,

Attached with this letter are the Tank System Service Closure Assessment Forms Part A and Part B, for the Marathon Station # 2076 located at 865 East Main Street, in the City of Richland Center, Wisconsin. On August 30, 2011, three unleaded gasoline underground storage tanks, consisting of one 14,000-gallon; an 8,000 gallon; and a 6,000-gallon were properly removed from the north/northwestern portion of the subject site. The underground storage tanks were removed and cleaned by Schaper Excavating and Petroleum of Portage, Wisconsin. Photographs of the underground storage tanks are included in the attachments.

General Engineering Company performed site assessment soil samples beneath the tank, and dispensers. Soil samples were submitted to Pace Analytical for laboratory analysis of gasoline range organics (GRO), petroleum volatile organic compounds (PVOC) and Naphthalene. Analytical results did not indicate the presence of petroleum compounds in excess of the laboratory limit of detection in any of the samples collected. A copy of a site map exhibiting the sample locations is included in the attachment. In addition, a copy of the analytical results is also included as an attachment.

No further assessment activities appear to be warranted at this facility. If you have any questions, or need any further information, please contact me at 608-742-2169.

Respectfully Submitted,
GENERAL ENGINEERING COMPANY


Lynn M. Bradley
Environmental Project Manager

Attachments

c: Schaper Excavating and Petroleum, W11435 Adney Road, Portage, WI 53901
Mr. Woody Myers, WDNR, 3911 Fish Hatchery Road, Fitchburg, WI 53711



Consulting Engineering • Structural Engineering • Building Design • Environmental Services
Grant Procurement & Administration • Land Surveying • Zoning Administration • Building Inspection • GIS Services



Complete One Form for Each System Service Event

The information you provide may be used for secondary purposes (Privacy Law, s. 15.04 (1) (m), Wis. State.)

TANK SYSTEM SERVICE AND CLOSURE ASSESSMENT REPORT

CHECK ONE:

☒ UNDERGROUND
☐ ABOVEGROUND

FOR PORTIONS OF THE FORM THAT DO NOT APPLY, CHECK THE "N/A" BOX

Part A - To be completed by contractor performing repair or closure

A. TYPE OF SERVICE ☒ CLOSURE ☐ REPAIR/UPGRADE ☐ CHANGE-IN-SERVICE

Indicate portion of system being serviced if a repair, upgrade or change-in-service is being performed

☐ Remote fill ☐ Tank ☐ Piping ☐ Transition/containment sump ☐ Spill bucket ☒ Dispenser

B. IDENTIFICATION (Please Print)

1. Facility Name

2. Owner Name

3. Contact Name

4. Primary Service Contractor, Section A above

5. Facility Street Address (not P.O. Box)

6. Municipality

7. City ☐ Village ☐ Town of:

8. County

9. State

10. Zip Code

11. Telephone No. (include area code)

12. Service Contractor City, State, Zip Code

13. Service Contractor Street Address

14. Service Contractor City, State, Zip Code

15. Service Contractor Telephone No. (include area code)

16. Service Contractor City, State, Zip Code

17. Service Contractor Street Address

18. Service Contractor City, State, Zip Code

19. Service Contractor Telephone No. (include area code)

20. Service Contractor City, State, Zip Code

21. Service Contractor Street Address

22. Service Contractor City, State, Zip Code

23. Service Contractor Telephone No. (include area code)

24. Service Contractor City, State, Zip Code

25. Service Contractor Street Address

26. Service Contractor City, State, Zip Code

27. Service Contractor Telephone No. (include area code)

28. Service Contractor City, State, Zip Code

29. Service Contractor Street Address

30. Service Contractor City, State, Zip Code

31. Service Contractor Telephone No. (include area code)

32. Service Contractor City, State, Zip Code

33. Service Contractor Street Address

34. Service Contractor City, State, Zip Code

35. Service Contractor Telephone No. (include area code)

36. Service Contractor City, State, Zip Code

37. Service Contractor Street Address

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40. Service Contractor City, State, Zip Code

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51. Service Contractor Telephone No. (include area code)

52. Service Contractor City, State, Zip Code

53. Service Contractor Street Address

54. Service Contractor City, State, Zip Code

55. Service Contractor Telephone No. (include area code)

56. Service Contractor City, State, Zip Code

57. Service Contractor Street Address

58. Service Contractor City, State, Zip Code

RETURN COMPLETED CHECKLIST TO:

Wisconsin Department of Commerce

ERS Division

Bureau of Petroleum Products and Tanks

P.O. Box 7837

Madison, WI 53707-7837

Madison, WI 53707-7837

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Madison, WI 53707-7837

Part B – To be completed by environmental professionalSubmit original Part B to the WDNR along with a copy of Part A**I. TANK-SYSTEM SITE ASSESSMENT (TSSA)**Site Name: Marathon #2076Address: 865 E. Main St. Richland Center, WI

Note: Site name and address must match with Part A Section 1.

To determine if a TSSA is required, see Comm 10 and section II part B of ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS.

If a TSSA is required, then follow the procedures detailed in ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS.

1. Site Informationa. Has there been a previously documented release at this site? ☒ Y ☐ NIf yes, provide the Commerce # 53581-1652-65, or DNR BRRT's # 03-53-152121.b. Number of active tanks¹ at facility prior to completion of current services USTs 3 ASTs _____

(NOTE 1: Do not include previously closed systems or system components.)

c. Excavation/trench dimensions (in feet). (Photos must be provided.)

EXCAVATION/TRENCH #	LENGTH	WIDTH	DEPTH
<u>#1</u>	<u>60'</u>	<u>38'</u>	<u>8'</u>

2. Visual Excavation/Trench Inspection (Photos must be provided for "Yes" responses, except item b.)

Do any of the following conditions exist in or about the excavation(s)?

a. Stained soils: ☐ Y ☒ N b. Petroleum odor: ☐ Y ☒ N c. Water In excavation/trench: ☐ Y ☒ Nd. Free product in the excavation/trench: ☐ Y ☒ N e. Sheen or free product on water: ☐ Y ☒ N**3. Geology/Hydrogeology**a. Depth to groundwater 12' feet b. Indicate type of geology² S / SLT S

(Note 2: Use these symbols individually or in combination as appropriate: C = Clay, SLT = Silt, S = Sand, Gr = Gravel)

4. Receptorsa. Water supply well(s) within 250 feet of the facility? ☐ Y ☒ N If yes, specify _____b. Surface water(s) within 1000 feet of the facility? ☐ Y ☒ N If yes, specify _____**5. Sampling**

a. Follow the procedures detailed in ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS.

b. Complete Tables 1 and 2 as appropriate. (Attach chain-of-custody and laboratory analytical reports.)

c. Attach a detailed map of site features and sample locations.

J. NOTE RELEVANT OBSERVATIONS, SPECIFIC PROBLEMS OR CONCERNS BELOW

TABLE 1 SOIL FIELD SCREENING & GRO/DRO LABORATORY ANALYTICAL RESULTS-FOR PETROLEUM PRODUCTS

Sample ID #	Sample Location & Soil/Geologic Description	Sample Collection Method				Depth Below Tank/Piping (feet)	Field Screening Result (ppm)	GRO (mg/kg)	DRO (mg/kg)
		Grab	Shelby Tube	Direct Push	Split Spoon				
1	S. 6000 gallon gas	☒	☐	☐	☐	2'	0	<3.7	-
2	N 6000 gallon	☒	☐	☐	☐	2'	0	<3.5	-
3	N 14000 gas	☒	☐	☐	☐	2'	0	<4.1	-
4	S 8000 gas	☒	☐	☐	☐	2'	0	<3.7	-
5	N 8000 gas	☒	☐	☐	☐	2'	0	<4.5	-
6	Dispenser 1	☒	☐	☐	☐	2'	0	<3.7	-
7	Dispenser 2	☒	☐	☐	☐	2'	0	<3.7	-
8	Piping	☒	☐	☐	☐	2'	0	<3.2	-
		☐	☐	☐	☐				
		☐	☐	☐	☐				
		☐	☐	☐	☐				
		☐	☐	☐	☐				
		☐	☐	☐	☐				
		☐	☐	☐	☐				

TABLE 2 SOIL LABORATORY ANALYTICAL RESULTS-FOR PETROLEUM PRODUCTS

Sample ID #	BENZENE	TOLUENE	ETHYLBENZENE	MTBE	TRIMETHYL - BENZENES (TOTAL)	XYLENES (TOTAL)	NAPHTHALENE
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
1	<25	<25	<25	<25	<50	<75	<25
2	<25	<25	<25	<25	<50	<75	<25
3	<25	<25	<25	<25	<50	<75	<25
4	<25	<25	<25	<25	<50	<75	<25
5	<25	<25	<25	<25	<50	<75	<25
6	<25	<25	<25	<25	<50	<75	<25
7	<25	<25	<25	<25	<50	<75	<25
8	<25	<25	<25	<25	<50	<75	<25

K. TANK-SYSTEM SITE ASSESSMENT INFORMATION

☐ As a tank-system site assessor certified under Wis. Admin. Code section Comm 5.83, it is my opinion that there is no indication of a release of a regulated substance to the environment.

☐ Sampling at the site indicates there has been a release to the environment. Pursuant to Wis. Admin. Code section Comm 10.585 (2) (a) and Wis. Stats. section 292.11 (2) (a), the owner or operator or contractor performing work under chapter Comm 10 shall immediately report any release of a regulated substance to the Wisconsin Department of Natural Resources. Failure to do so may result in forfeitures of a minimum of \$10 and a maximum of \$5000 for each violation under Wis. Stats. section 101.09 (5). Each day of continued violation and each tank are treated as separate offenses.

Lynn M. Bradley
Tank-System Site Assessor Name (print)

Lynn M. Bradley
Tank-System Site Assessor Signature

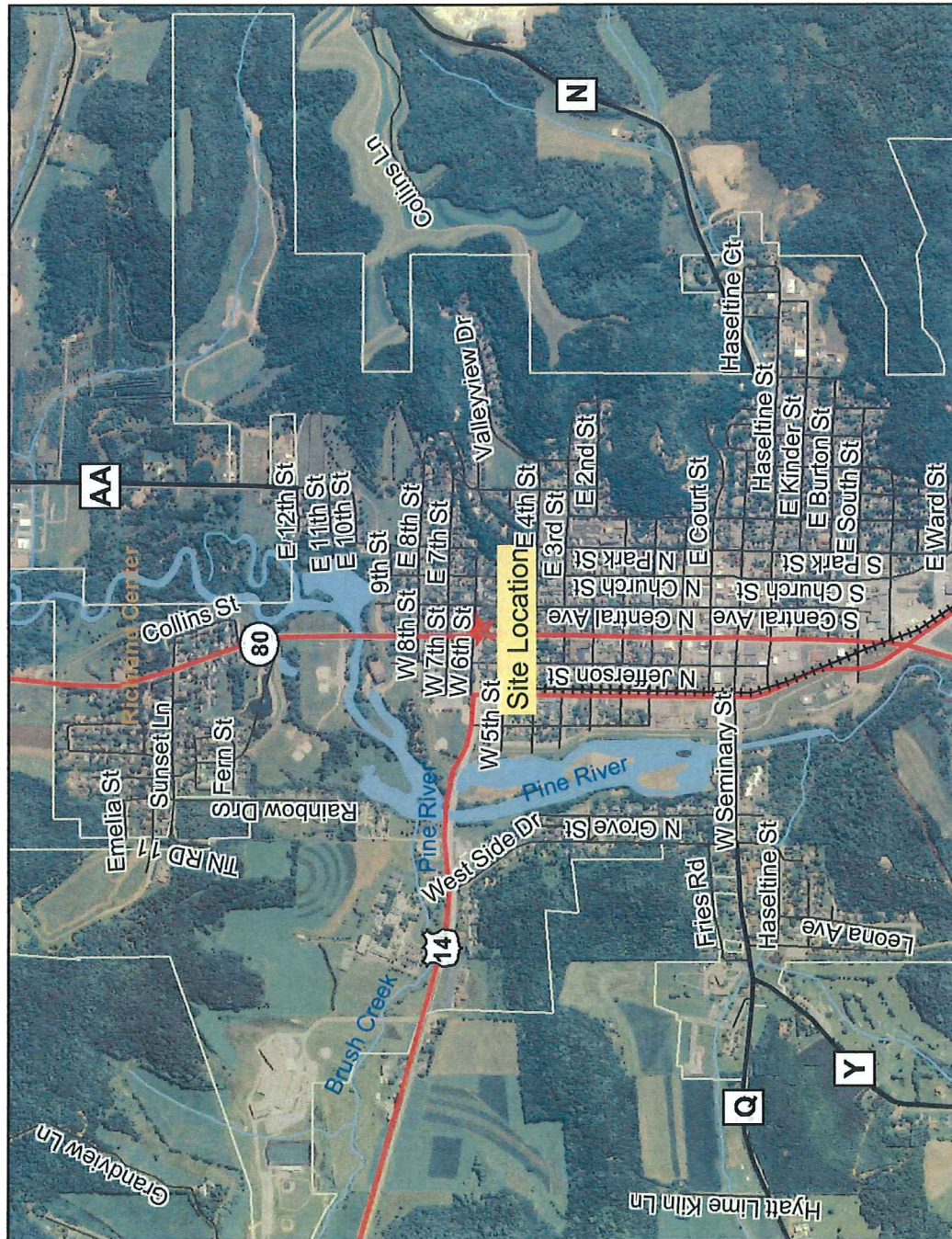
242016
Certification Number #

1-608-742-2169
Tank-System Site Assessor Telephone Number

Sept. 12, 2011
Date Signed

General Engineering Co
Company Name

REGIONAL SITE LOCATION MAP



0 2250 4500 6750 ft.

Map created on Jan 25, 2012
Note: Not all RR Sites have been geo-located yet.

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.



Legend

- County Boundary
- ✂ Railroads
- County Roads (WDOT)
- County Trunk Highway
- State and U.S. Highways (WDOT)
- State Trunk Highway
- US Highway
- Interstate Highways (WDOT)
- Interstate Highway
- Local Roads (WDOT)
- Civil Towns
- Civil Town
- 24K Open Water
- 24K Rivers and Shorelines
- Municipalities



Scale: 1:22,856

Commercial

Commercial

W 6th St.

Residential

Residential

Approximate
Property
Line

14,000 ug
UST

8,000
ug
UST

6,000
ug
UST

Dispensers

Building

Former
Canopy

N Main Street

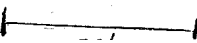
Residential / Commercial

Approximate Property Line

Residential

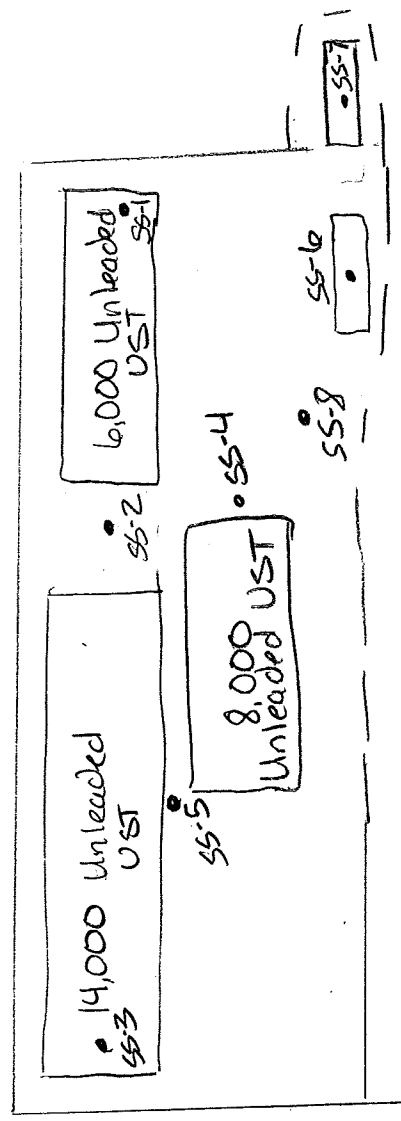
Figure 1- Site Plan

UG - Unleaded Gas



Building

Residential House



- SS-1 S. 6000 gallon
- SS-2 N 6000 gallon
- SS-3 N 14,000 gallon
- SS-4 S 8,000 gallon
- SS-5 N 8,000 gallon
- SS-6 Dispenser 1
- SS-7 Dispenser 2
- SS-8 Piping

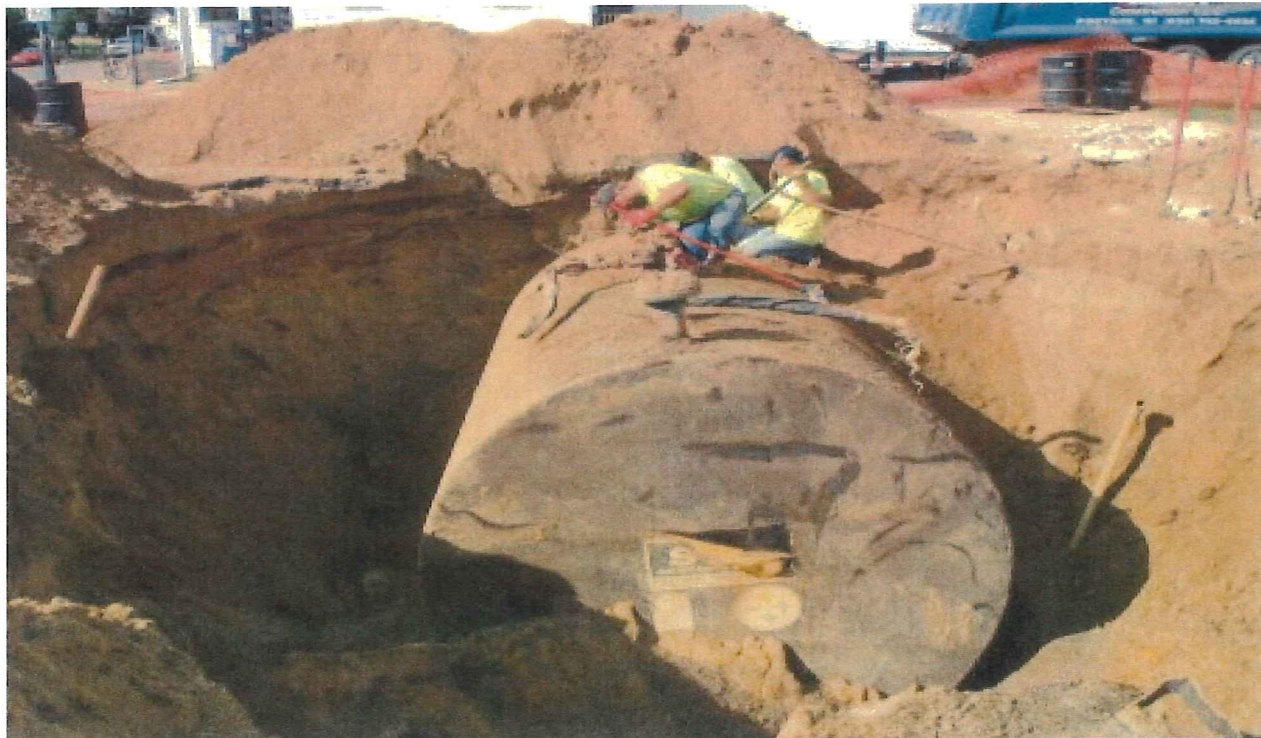
42

Figure 2- Soil Sample Location Map

PHOTOGRAPHS
UNDERGROUND STORAGE TANK ASSESSMENT
MARATHON STATION #2076



Photograph of the Northwest corner of the subject site, viewing southeast towards the structure.



Photograph of the 14,000-gallon unleaded gasoline UST.

PHOTOGRAPHS
UNDERGROUND STORAGE TANK ASSESSMENT
MARATHON STATION #2076

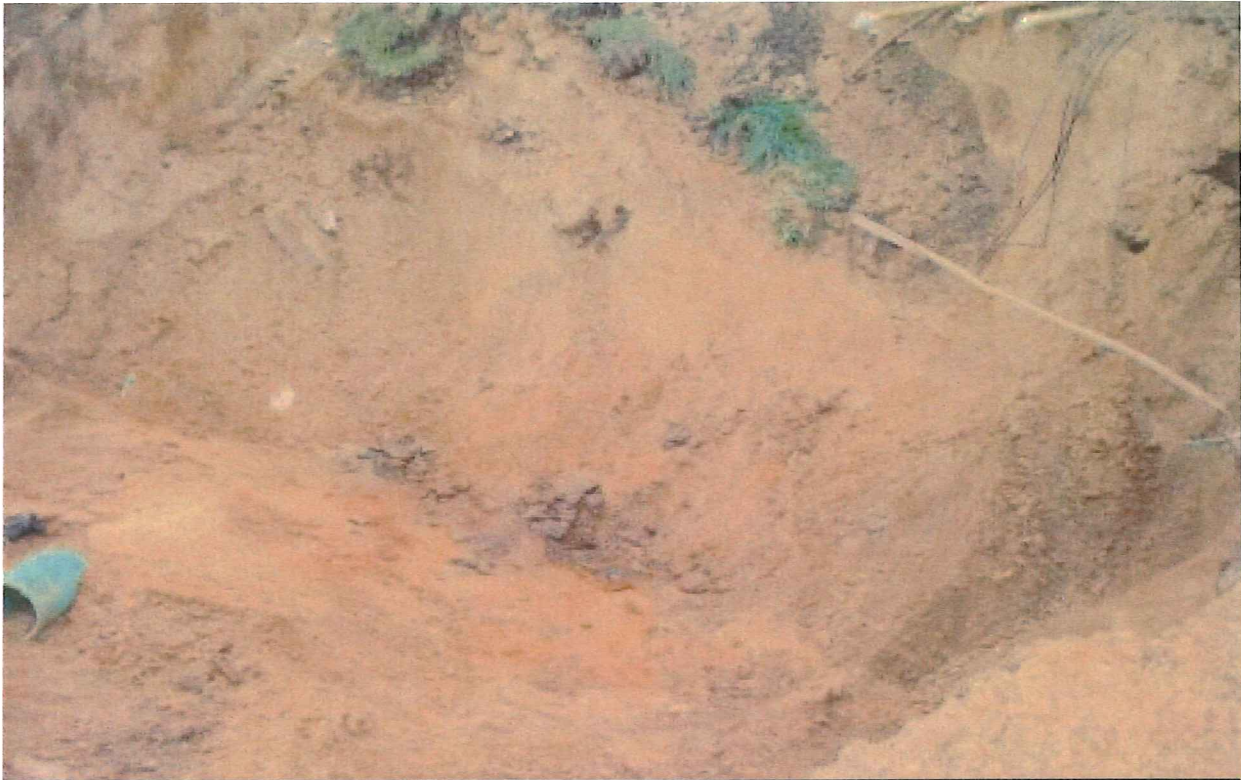


Photograph the 6,000 gallon unleaded gasoline underground storage tank.



Photograph of the 8,000-gallon unleaded gasoline underground storage tank.

PHOTOGRAPHS
UNDERGROUND STORAGE TANK ASSESSMENT
MARATHON STATION #2076



Photograph of the underground storage tank excavation.



Photograph of the southern portion of the subject site, viewing north towards 6th Street.



Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

September 12, 2011

Lynn Bradley
General Engineering
916 Silver Lake Dr
Portage, WI 53901

RE: Project: MARATHON STATION SCHAPER
Pace Project No.: 4050370

Dear Lynn Bradley:

Enclosed are the analytical results for sample(s) received by the laboratory on September 02, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Alea Her

alea.her@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..



Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: MARATHON STATION SCHAPER
Pace Project No.: 4050370

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888

North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

Page 2 of 11

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SAMPLE SUMMARY

Project: MARATHON STATION SCHAPER
Pace Project No.: 4050370

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4050370001	S. 6000 GASOLINE	Solid	08/30/11 00:00	09/02/11 08:45
4050370002	N.6000 GASOLINE S.	Solid	08/30/11 00:00	09/02/11 08:45
4050370003	N. 14,000 GASOLINE	Solid	08/30/11 00:00	09/02/11 08:45
4050370004	S. 8000 GASOLINE	Solid	08/30/11 00:00	09/02/11 08:45
4050370005	N. *,000-GASOLINE	Solid	08/30/11 00:00	09/02/11 08:45
4050370006	DISPENSER 1	Solid	08/30/11 00:00	09/02/11 08:45
4050370007	DISPENSER 2	Solid	08/30/11 00:00	09/02/11 08:45
4050370008	PIPING	Solid	08/30/11 00:00	09/02/11 08:45

REPORT OF LABORATORY ANALYSIS

Page 3 of 11

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SAMPLE ANALYTE COUNT

Project: MARATHON STATION SCHAPER
Pace Project No.: 4050370

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4050370001	S. 6000 GASOLINE	WI MOD GRO	PMS	11
		ASTM D2974-87	ABF	1
4050370002	N.6000 GASOLINE S.	WI MOD GRO	PMS	11
		ASTM D2974-87	ABF	1
4050370003	N. 14,000 GASOLINE	WI MOD GRO	PMS	11
		ASTM D2974-87	ABF	1
4050370004	S. 8000 GASOLINE	WI MOD GRO	PMS	11
		ASTM D2974-87	ABF	1
4050370005	N. *,000-GASOLINE	WI MOD GRO	PMS	11
		ASTM D2974-87	ABF	1
4050370006	DISPENSER 1	WI MOD GRO	PMS	11
		ASTM D2974-87	ABF	1
4050370007	DISPENSER 2	WI MOD GRO	PMS	11
		ASTM D2974-87	ABF	1
4050370008	PIPING	WI MOD GRO	PMS	11
		ASTM D2974-87	ABF	1

REPORT OF LABORATORY ANALYSIS

Page 4 of 11

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ANALYTICAL RESULTS

Project: MARATHON STATION SCHAPER
Pace Project No.: 4050370

Sample: S.6000 GASOLINE Lab ID: 4050370001 Collected: 08/30/11 00:00 Received: 09/02/11 08:45 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 14:07	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 14:07	100-41-4	W
Gasoline Range Organics	<3.7	mg/kg	3.7	3.7	1	09/06/11 12:00	09/06/11 14:07		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 14:07	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 14:07	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 14:07	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 14:07	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 14:07	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/06/11 12:00	09/06/11 14:07	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 14:07	95-47-6	W
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	09/06/11 12:00	09/06/11 14:07	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	31.5	%	0.10	0.10	1		09/10/11 13:02		

Sample: N.6000 GASOLINE S. Lab ID: 4050370002 Collected: 08/30/11 00:00 Received: 09/02/11 08:45 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 14:32	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 14:32	100-41-4	W
Gasoline Range Organics	<3.5	mg/kg	3.5	3.5	1	09/06/11 12:00	09/06/11 14:32		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 14:32	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 14:32	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 14:32	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 14:32	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 14:32	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/06/11 12:00	09/06/11 14:32	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 14:32	95-47-6	W
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	09/06/11 12:00	09/06/11 14:32	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	28.3	%	0.10	0.10	1		09/10/11 13:02		

ANALYTICAL RESULTS

Project: MARATHON STATION SCHAPER

Pace Project No.: 4050370

Sample: N. 14,000 GASOLINE Lab ID: 4050370003 Collected: 08/30/11 00:00 Received: 09/02/11 08:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 14:58	71-43-2	W
Ethylbenzene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 14:58	100-41-4	W
Gasoline Range Organics	<4.1 mg/kg		4.1	4.1	1	09/06/11 12:00	09/06/11 14:58		
Methyl-tert-butyl ether	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 14:58	1634-04-4	W
Naphthalene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 14:58	91-20-3	W
Toluene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 14:58	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 14:58	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 14:58	108-67-8	W
m&p-Xylene	<50.0 ug/kg		120	50.0	1	09/06/11 12:00	09/06/11 14:58	179601-23-1	W
o-Xylene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 14:58	95-47-6	W
a,a,a-Trifluorotoluene (S)	101 %		80-120		1	09/06/11 12:00	09/06/11 14:58	98-08-8	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture 39.2 % 0.10 0.10 1 09/10/11 13:02

Sample: S. 8000 GASOLINE Lab ID: 4050370004 Collected: 08/30/11 00:00 Received: 09/02/11 08:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 15:24	71-43-2	W
Ethylbenzene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 15:24	100-41-4	W
Gasoline Range Organics	<3.7 mg/kg		3.7	3.7	1	09/06/11 12:00	09/06/11 15:24		
Methyl-tert-butyl ether	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 15:24	1634-04-4	W
Naphthalene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 15:24	91-20-3	W
Toluene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 15:24	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 15:24	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 15:24	108-67-8	W
m&p-Xylene	<50.0 ug/kg		120	50.0	1	09/06/11 12:00	09/06/11 15:24	179601-23-1	W
o-Xylene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 15:24	95-47-6	W
a,a,a-Trifluorotoluene (S)	102 %		80-120		1	09/06/11 12:00	09/06/11 15:24	98-08-8	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture 32.8 % 0.10 0.10 1 09/10/11 13:02

ANALYTICAL RESULTS

Project: MARATHON STATION SCHAPER
Pace Project No.: 4050370

Sample: N *,000-GASOLINE Lab ID: 4050370005 Collected: 08/30/11 00:00 Received: 09/02/11 08:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 15:49	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 15:49	100-41-4	W
Gasoline Range Organics	<4.5	mg/kg	4.5	4.5	1	09/06/11 12:00	09/06/11 15:49		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 15:49	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 15:49	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 15:49	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 15:49	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 15:49	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/06/11 12:00	09/06/11 15:49	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 15:49	95-47-6	W
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	09/06/11 12:00	09/06/11 15:49	98-08-8	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture 44.9 % 0.10 0.10 1 09/10/11 13:03

Sample: DISPENSER 1 Lab ID: 4050370006 Collected: 08/30/11 00:00 Received: 09/02/11 08:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 16:15	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 16:15	100-41-4	W
Gasoline Range Organics	<3.7	mg/kg	3.7	3.7	1	09/06/11 12:00	09/06/11 16:15		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 16:15	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 16:15	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 16:15	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 16:15	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 16:15	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/06/11 12:00	09/06/11 16:15	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/06/11 12:00	09/06/11 16:15	95-47-6	W
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	09/06/11 12:00	09/06/11 16:15	98-08-8	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture 31.9 % 0.10 0.10 1 09/10/11 13:03

ANALYTICAL RESULTS

Project: MARATHON STATION SCHAPER
Pace Project No.: 4050370

Sample: DISPENSER 2 Lab ID: 4050370007 Collected: 08/30/11 00:00 Received: 09/02/11 08:45 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 16:40	71-43-2	W
Ethylbenzene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 16:40	100-41-4	W
Gasoline Range Organics	<3.7 mg/kg		3.7	3.7	1	09/06/11 12:00	09/06/11 16:40		
Methyl-tert-butyl ether	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 16:40	1634-04-4	W
Naphthalene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 16:40	91-20-3	W
Toluene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 16:40	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 16:40	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 16:40	108-67-8	W
m&p-Xylene	<50.0 ug/kg		120	50.0	1	09/06/11 12:00	09/06/11 16:40	179601-23-1	W
o-Xylene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 16:40	95-47-6	W
a,a,a-Trifluorotoluene (S)	102 %		80-120		1	09/06/11 12:00	09/06/11 16:40	98-08-8	

Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	32.7 %		0.10	0.10	1		09/10/11 13:03		

Sample: PIPING Lab ID: 4050370008 Collected: 08/30/11 00:00 Received: 09/02/11 08:45 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 17:06	71-43-2	W
Ethylbenzene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 17:06	100-41-4	W
Gasoline Range Organics	<3.2 mg/kg		3.2	3.2	1	09/06/11 12:00	09/06/11 17:06		
Methyl-tert-butyl ether	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 17:06	1634-04-4	W
Naphthalene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 17:06	91-20-3	W
Toluene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 17:06	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 17:06	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 17:06	108-67-8	W
m&p-Xylene	<50.0 ug/kg		120	50.0	1	09/06/11 12:00	09/06/11 17:06	179601-23-1	W
o-Xylene	<25.0 ug/kg		60.0	25.0	1	09/06/11 12:00	09/06/11 17:06	95-47-6	W
a,a,a-Trifluorotoluene (S)	102 %		80-120		1	09/06/11 12:00	09/06/11 17:06	98-08-8	

Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	21.4 %		0.10	0.10	1		09/10/11 13:03		

QUALITY CONTROL DATA

Project: MARATHON STATION SCHAPER
Pace Project No.: 4050370

QC Batch: GCV/7152 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 4050370001, 4050370002, 4050370003, 4050370004, 4050370005, 4050370006, 4050370007, 4050370008

METHOD BLANK: 499279 Matrix: Solid
Associated Lab Samples: 4050370001, 4050370002, 4050370003, 4050370004, 4050370005, 4050370006, 4050370007, 4050370008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	60.0	09/06/11 12:24	
1,3,5-Trimethylbenzene	ug/kg	<25.0	60.0	09/06/11 12:24	
Benzene	ug/kg	<25.0	60.0	09/06/11 12:24	
Ethylbenzene	ug/kg	<25.0	60.0	09/06/11 12:24	
Gasoline Range Organics	mg/kg	<2.5	2.5	09/06/11 12:24	
m&p-Xylene	ug/kg	<50.0	120	09/06/11 12:24	
Methyl-tert-butyl ether	ug/kg	<25.0	60.0	09/06/11 12:24	
Naphthalene	ug/kg	<25.0	60.0	09/06/11 12:24	
o-Xylene	ug/kg	<25.0	60.0	09/06/11 12:24	
Toluene	ug/kg	<25.0	60.0	09/06/11 12:24	
a,a,a-Trifluorotoluene (S)	%	102	80-120	09/06/11 12:24	

LABORATORY CONTROL SAMPLE & LCSD: 499280			499281							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1130	1110	113	111	80-120	2	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1100	1070	110	107	80-120	2	20	
Benzene	ug/kg	1000	1130	1100	113	110	80-120	2	20	
Ethylbenzene	ug/kg	1000	1100	1080	110	108	80-120	2	20	
Gasoline Range Organics	mg/kg	10	10.7	10.2	107	102	80-120	4	20	
m&p-Xylene	ug/kg	2000	2200	2160	110	108	80-120	2	20	
Methyl-tert-butyl ether	ug/kg	1000	1030	1030	103	103	80-120	.4	20	
Naphthalene	ug/kg	1000	991	989	99	99	80-120	.2	20	
o-Xylene	ug/kg	1000	1100	1080	110	108	80-120	2	20	
Toluene	ug/kg	1000	1110	1090	111	109	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				102	101	80-120			

QUALITY CONTROL DATA

Project: MARATHON STATION SCHAPER
Pace Project No.: 4050370

QC Batch:	PMST/6008	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples: 4050370001, 4050370002, 4050370003, 4050370004, 4050370005, 4050370006, 4050370007, 4050370008			

SAMPLE DUPLICATE: 500855

Parameter	Units	4050370003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	39.2	37.5	4	10	

QUALIFIERS

Project: MARATHON STATION SCHAPER
Pace Project No.: 4050370

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

W Non-detect results are reported on a wet weight basis.

