



150 North Patrick Blvd.
Suite 180
Brookfield, WI 53045

262.879.1212 PHONE
262.879.1220 FAX

www.TRCSolutions.com

July 30, 2013

Mr. Andrew Malsom
Wisconsin Department of Transportation
141 NW Barstow Street
Waukesha, WI 53187-0798

Subject: Phase 2.5 Investigation, BP Station and One Hour Martinizing Sites, STH 38 (aka Northwestern Ave), Golf Ave to Memorial Dr, Racine, Wisconsin
WisDOT Project ID #2290-17-00
TRC Project No. 204154.0000.0000

Dear Andrew:

Attached find 2 copies of the Phase 2.5 Investigation report for the BP Station and One Hour Martinizing Sites, STH 38, Racine, Wisconsin.

You may contact me at 262-901-2145 or kyass@trcsolutions.com with any questions.

Sincerely,

TRC Environmental Corporation

Ken W. Yass, P.E., CHMM
Project Manager

cc: Paul Grittner – WDNR (hard copy and pdf on CD)
Shar TeBeest – WisDOT (hard copy and pdf on CD)
Jim Morse – TRC



Phase 2.5 Investigation

**BP Station and One Hour Martinizing Sites
STH 38 (aka Northwestern Avenue), Golf Avenue to Memorial Drive
Racine, Wisconsin**

WisDOT Project ID #2290-17-00

July 2013



Phase 2.5 Investigation

BP Station and One Hour Martinizing Sites
STH 38 (aka Northwestern Avenue), Golf Avenue to Memorial Drive
Racine, Wisconsin

WisDOT Project ID #2290-17-00

July 2013

Andrew Heeter
Project Geologist

Ken W. Yass, P.E., CHMM
Project Manager

James E. Morse
Senior Client Service Manager

Table of Contents

Commonly Used Abbreviations and Acronyms	ii
Executive Summary	iii
1. Background	1
2. Sampling Activities	2
3. Soil Sample Laboratory Results and Evaluation	3
3.1 Soil Sampling Results	3
3.2 Groundwater Sampling Results	3
4. Findings, Conclusions, and Recommendations	4

List of Tables

Table 1	Soil Sampling Results Summary – Phase 2.5 Investigation
Table 2	Groundwater Sampling Results Summary – Phase 2.5 Investigation

List of Figures

Figure 1	Project Location and Limits
Figure 2	Project Overview
Figure 3	Phase 2.5 Soil Probe Locations – Intersection of W. High St. and State St.
Figure 4	Phase 2.5 Soil Probe Locations – Intersection of State St. and Northwestern Ave.

List of Appendices

Appendix A	Historical Release Information
Appendix B	Phase 2.5 Soil Boring Logs and Borehole Abandonment Forms
Appendix C	Photographs
Appendix D	Laboratory Analytical Report
Appendix E	Special Provisions

Commonly Used Abbreviations and Acronyms

AST	aboveground storage tank
bgs	below ground surface
BRRTS	Bureau for Remediation and Redevelopment Tracking System
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CTH	County Trunk Highway
CY	cubic yards
DRO	diesel range organics
FDM	Facilities Development Manual
EMP	Excavation Management Plan
ERP	Environmental Repair Program
ES	Enforcement Standards
ESA	Environmental Site Assessment
FINDS	Facility Index System/Facility Identification Initiative Program Summary Report
GIS Registry	WDNR Geographic Information System (GIS) Registry of Closed Remediation Sites
GRO	gasoline range organics
HAZWOPER	Code of Federal Registry Chapter 29 (29 CFR) Part 1910.120 Hazardous Waste Operations and Emergency Response
HMA	Hazardous Materials Assessment
IH	Interstate Highway
LQG	large quantity generator
LUST	leaking underground storage tank
NPL	National Priorities List
NR ###	Wisconsin Administrative Code (WAC) Natural Resources (NR) Chapter ###
PAHs	polynuclear aromatic hydrocarbons
PAL	Preventive Action Limits
PCBs	polychlorinated biphenyls
PCE	perchloroethylene/tetrachloroethylene
PID	photoionization detector
PVOCs	petroleum volatile organic compounds
RCLs	Residual Contaminant Levels in NR 720
RCRA	Resource Conservation and Recovery Act
RCRIS	Resource Conservation and Recovery Information System
R/W or ROW	right-of-way
sf	square feet
STH	State Trunk Highway
TCE	trichloroethylene
TRIS	Toxic Chemical Release Inventory System
USGS	United States Geological Survey
USH	United States Highway
UST	underground storage tank
VOCs	volatile organic compounds
WDSPS	Wisconsin Department of Safety and Professional Services
WDNR	Wisconsin Department of Natural Resources
WisDOT	Wisconsin Department of Transportation
WGNHS	Wisconsin Geological and Natural History Survey
WI ERP	Wisconsin Environmental Repair Program database

Executive Summary

The WisDOT is preparing to reconstruct STH 38 (aka Northwestern Avenue) from Golf Avenue to Memorial Drive in Racine, Wisconsin. Excavations for storm sewers and trees are planned adjacent to the following documented release sites:

- BP Gas Station, 1975 State Street, LUST Site (BRRTS #03-52-002262) closed in 2005 with residual soil and groundwater contamination. Four USTs are listed as having been closed/removed (used oil and unleaded gasoline), and two unleaded gasoline USTs are registered as in use at this property.
- One-Hour Martinizing, 1730-1732 State Street, open ERP Site, BRRTS #02-52-549890 [No tanks are registered for this property].

EMCS, Inc. completed a Phase 1 HMA in August 2012 and recommended Phase 2.5 investigations at the above sites. TRC completed a Phase 2.5 investigation at both sites in July 2013. The Phase 2.5 Investigation revealed that petroleum-contaminated soil is present at the following location within the project limits, which, once excavated, will require bioremediation:

- Station 129+15 to 130+15, from reference line to project limits right, from approximately 6 to at least 11 feet bgs. Soil here is contaminated with benzene. An open ERP site (One Hour Martinizing) is present here.

If contamination (*e.g.*, staining, petroleum odors) is noted at these locations or elsewhere during construction, excavations will be suspended and the engineer notified.

Special Provisions should be included in the construction documents advising the contractor of these findings, and of the requirement to manage contaminated soil removed by the project. The plans for contamination management should be submitted to the WDNR for their review and concurrence. The WisDOT's environmental consultant should be present during excavations in the above areas to field screen and document the excavation activities.

Section 1

Background

The WisDOT is preparing to reconstruct STH 38 (aka Northwestern Avenue) from Golf Avenue to Memorial Drive in Racine, Wisconsin. Excavations for storm sewers and trees are planned at the following two locations at which releases had previously been reported:

- BP Gas Station, 1975 State Street, LUST Site (BRRTS #03-52-002262) closed in 2005 with residual soil and groundwater contamination. Four USTs are listed as having been closed/removed (used oil, unleaded gasoline and unknown), and two unleaded gasoline USTs are registered as in use at this property.
- One-Hour Martinizing, 1730-1732 State Street, ERP Site opened in 2007, BRRTS #02-52-549890. No tanks are registered for this property.

EMCS Inc. completed a Phase 1 HMA for the project, and its findings are documented in an August 2012 Report. The WisDOT requested that a Phase 2.5 investigation be conducted within the planned STH 38 construction limits adjacent to the above sites.

Background environmental information for the above site is included in Appendix A.

Section 2

Sampling Activities

On July 18 and 25, 2013 a total of 6 soil probes (GP-1 through GP-6) were advanced to depths of 10 feet bgs by Probe Technologies, Inc. as directed by TRC. Phase 2.5 soil probe boring locations are shown on Figures 3 and 4.

Soils encountered during the Phase 2.5 investigation were generally native clayey silt. PID readings for all soil sample intervals ranged from 0.0 to 17.6 instrument units. No staining or odors were observed during the soil sampling. See the boring logs in Appendix B for more details, including the PID results and soil descriptions.

Two soil samples were collected from each soil probe boring for laboratory analysis. Collected soil samples were submitted for laboratory analysis of full VOCs at the One-Hour Martinizing site and DRO, GRO, PVOCs, naphthalene, and total lead at the BP Gas Station Site.

Groundwater was observed during the Phase 2.5 soil probe activities in GP-3 at a depth of approximately 8 or 9 feet bgs. A temporary monitoring well was installed in GP-3. Groundwater was sampled as part of this Phase 2.5 investigation for VOCs and RCRA Metals.

Upon completion, all soil borings were abandoned with bentonite. Abandonment forms for the soil borings are provided in Appendix B.

Photographs taken during the Phase 2.5 investigation are included as Appendix C.

Section 3

Soil Sample Laboratory Results and Evaluation

3.1 Soil Sampling Results

Soil sampling results for GP-1 through GP-6 are summarized in Table 1. GP-3 (8'-10') (advanced near the One Hour Martinizing site at State Street) had a benzene concentration of 234 µg/kg, which exceeded the NR 720 RCL of 5.5 µg/kg. No significant concentrations of GRO, DRO, VOCs, or lead were found in the remaining soil borings.

Once excavated by the project, soil containing petroleum (benzene)-contaminated soil will require disposal (bioremediation) at a WDNR-licensed landfill.

See Appendix D for the Phase 2.5 laboratory analytical report.

3.2 Groundwater Sampling Results

Groundwater sampling results for GP-3 indicated that benzene, chromium, and lead concentrations exceeded the respective NR 140 PALs and were below the NR 140 ESs. Since groundwater in GP-3 was observed at ~8 or 9 feet bgs, and the anticipated depth of excavation is ~6 feet bgs, dewatering is not anticipated. Groundwater sampling results are summarized in Table 2.

See Appendix D for the Phase 2.5 laboratory analytical reports.

Section 4

Findings, Conclusions, and Recommendations

The Phase 2.5 Investigation revealed that petroleum-contaminated soil is present at the following location within the project limits and once excavated will require landfill disposal (bioremediation):

- Station 129+15 to 130+15, from reference line to project limits right, from approximately 6 to at least 11 feet bgs. Soil here is contaminated with benzene. An open ERP site (One Hour Martinizing) is present here.

If contamination (*e.g.*, staining, petroleum odors) is noted at this location or elsewhere during construction, excavations will be suspended and the engineer notified.

Special Provisions should be included in the construction documents advising the contractor of these findings, and of the requirement to manage contaminated soil removed by the project. The plans for contamination management should be submitted to the WDNR for their review and concurrence. The WisDOT's environmental consultant should be present during excavations in the above areas to field screen and document the excavation activities. Special provisions are provided in Attachment E.

Table 1
 Soil Sampling Results Summary - Phase 2.5 Investigation
 STH 38 (aka Northwestern Avenue)
 Milwaukee County
 WisDOT Project ID 2290-17-00; TRC Project ID 204154.0000.0000

	NR 720 RCL	SOIL SAMPLE ID AND DEPTH (feet bgs)												TYPICAL LANDFILL ACCEPTANCE CRITERIA
		GP-1		GP-2		GP-3		GP-4		GP-5		GP-6		
		(2'-4')	(4'-6')	(2'-4')	(4'-6')	(4'-6')	(8'-10')	(2'-4')	(4'-6')	(2'-4')	(6'-8')	(2'-4')	(4'-6')	
		SAMPLES COLLECTED JUNE 18, 2013						SAMPLES COLLECTED JUNE 25, 2013						
PID Readings	-	0.4	0.7	0.4	0.6	17.6	0.7	0.2	0.7	0.1	0.2	0.3	0.2	-
GRO (mg/kg)	100	--	--	--	--	--	--	<3.0	<3.0	<2.9	<2.8	<2.9	<2.9	2,000 mg/kg
DRO (mg/kg)	100	--	--	--	--	--	--	0.95 J	<0.91	3.4	1.6 J	<0.90	<0.88	2,000 mg/kg
VOCs/PVOCs (µg/kg)														
Benzene	5.5	<25.0	<25.0	<25.0	<25.0	<25.0	234	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	10,000 µg/kg
Remaining VOCs	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Metals (mg/kg)														
Lead	50	--	--	--	--	--	--	12.6	15.5	12.8	13.9	7.7	5.9	100 mg/kg

Notes:

1. PID = Photoionization Detector
2. GRO = Gasoline Range Organics analyzed using the Wisconsin Modified Method
3. mg/kg = milligrams per kilogram (ppm)
4. DRO = Diesel Range Organics analyzed using Wisconsin Modified Method
5. VOCs = Volatile Organic Compounds analyzed using EPA Method 8260
5. PVOCs = Petroleum Volatile Organic Compounds analyzed using the Wisconsin Modified GRO Method
7. µg/kg = micrograms per kilogram (ppb)
8. Lead analyzed using EPA Method 6010
10. -- = not analyzed
11. Samples were collected by TRC and analyzed by Pace Analytical (WDNR Cert. #405132750)
12. NR 720 RCL = Residual Contaminant Level from NR 720, WAC. RCL listed for DRO and GRO are the more stringent of the two NR 720.09 values. RCLs for the PVOCs listed above are the NR720 generic RCLs for the protection of groundwater. RCLs for metals are the NR 720 Table 2 non-industrial values
13. - = Standard not established.
14. J = Result is an estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
15. ND = Not Detected in laboratory analysis

Created by: D. Heeter 7/9/13

Checked by: B. Bergmann 7/16/13

Table 2
 Groundwater Sampling Results Summary - Phase 2.5 Investigation
 STH 38 (aka Northwestern Avenue)
 Racine County
 WisDOT Project ID 2290-17-00; TRC Project ID 204154.0000.0000

	NR 140 STANDARD		GP-3	TRIP BLANK
	ES	PAL	6/25/13	6/25/13
VOCs (µg/l)				
Benzene	5	0.5	4.7	<0.50
p-Isopropyltoluene	-	-	0.41 J	<0.40
Remaining VOCs	-	-	ND	ND
Metals, Dissolved (µg/l)				
Barium	2,000	400	98.0	--
Chromium	100	10	4.4 J	--
Lead	15	1.5	1.5 J	--

Notes:

1. VOCs = Volatile Organic Compounds analyzed using EPA Method 8260; only the VOCs detected are listed above.
2. µg/l = micrograms per liter (ppb).
3. Metals analyzed using EPA Method 6010, except for mercury which was analyzed using EPA Method 7470.
4. -- = Not analyzed
5. NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard.
6. NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit.
7. - = Standard not established
8. J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
9. ND = Not detected in laboratory analysis
10. *Italics* = Exceedence (or potential exceedence if J-flagged) of the NR 140, WAC PAL.

Created by: D. Heeter 7/9/13

Checked by: B. Bergmann 7/16/13

ORDER OF SHEETS

- Section No. 1 Title
- Section No. 2 Typical Sections, Details, and Erosion Control
- Section No. 3 Miscellaneous Quantities
- Section No. 4 Right of Way Plat
- Section No. 5 Plan and Profile
- Section No. 6 Standard Detail Drawings
- Section No. 7 Sign Plates
- Section No. 8 Structure Plans
- Section No. 9 Computer Earthwork Data
- Section No. 9 Cross Sections

TOTAL SHEETS =



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

NORTHWESTERN AVENUE, CITY OF RACINE

(GOLF AVENUE TO MEMORIAL DRIVE)

STH 38 RACINE COUNTY

STATE PROJECT NUMBER
2290-17-70

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2290-17-70		

60% PLANS

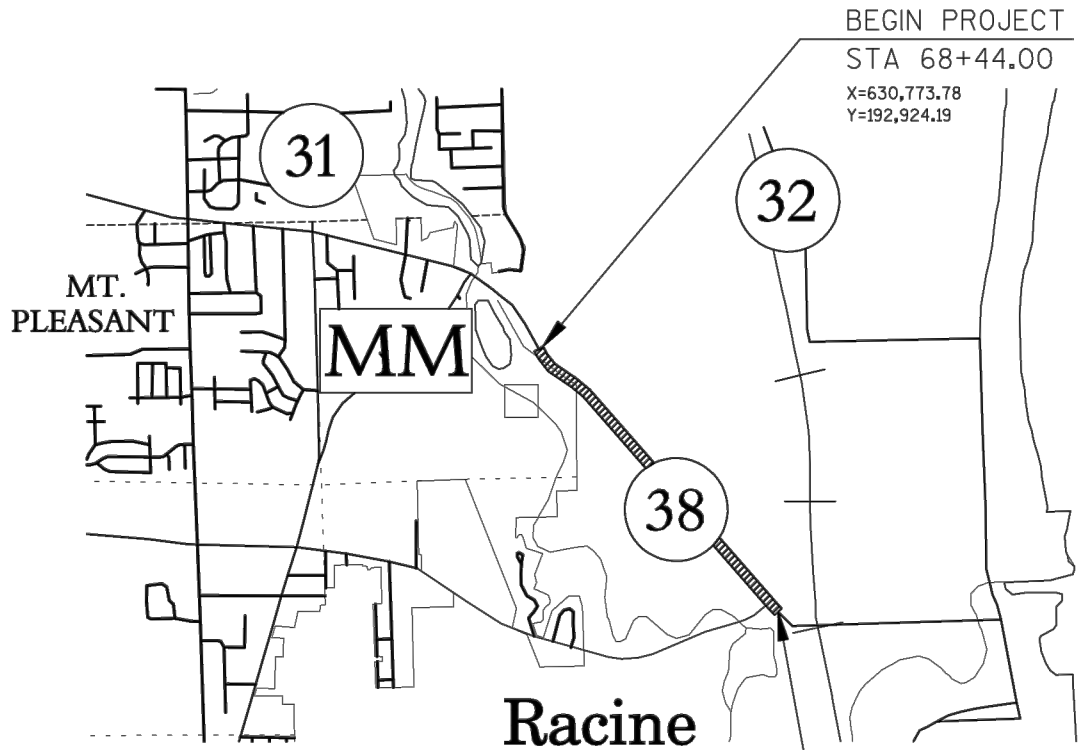
DESIGN DESIGNATION

- A.A.D.T. (2014) = 13,400
- A.A.D.T. (2034) = 16,300
- D.H.V. (2034) = 11.5%
- D.D. (2034) = 58-42
- T. = 5.5%
- DESIGN SPEED = 35 MPH
- ESALS = 2,912,700

CONVENTIONAL SYMBOLS

- PLAN**
- CORPORATE LIMITS
 - PROPERTY LINE
 - LOT LINE
 - LIMITED HIGHWAY EASEMENT
 - EXISTING RIGHT OF WAY
 - PROPOSED OR NEW R/W LINE
 - SLOPE INTERCEPT
 - REFERENCE LINE
 - EXISTING CULVERT
 - PROPOSED CULVERT (Box or Pipe)
 - COMBUSTIBLE FLUIDS
 - MARSH AREA
 - WOODED OR SHRUB AREA

- PROFILE**
- GRADE LINE
 - ORIGINAL GROUND
 - MARSH OR ROCK PROFILE (To be noted as such)
 - SPECIAL DITCH
 - GRADE ELEVATION
 - CULVERT (Profile View)
 - UTILITIES
 - ELECTRIC
 - FIBER OPTIC
 - GAS
 - SANITARY SEWER
 - STORM SEWER
 - TELEPHONE
 - WATER
 - UTILITY PEDESTAL
 - POWER POLE
 - TELEPHONE POLE



R-22-E R-23-E

LAYOUT
SCALE 0 1/2 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.267 MI.

Base Map Provided by WisDOT

Coordinates on this plan are referenced to Wisconsin State Plane Coordinate System (WCCS), Racine County, Wisconsin.
Elevations shown on this plan are referenced to American Vertical Datum of 1988 NAVD.

PROJECT: STH 38 (aka NORTHWESTERN AVENUE) RACINE, WI - WisDOT ID 2290-17-00		
SHEET TITLE: PROJECT LOCATION AND LIMITS		
DRAWN BY: J. KONIAR	SCALE: AS NOTED	PROJ. NO. 204154.0000.0000
CHECKED BY: A. HEETER	DATE PRINTED:	FILE NO. 204154-01.dwg
APPROVED BY: K. YASS		FIGURE 1
DATE: JULY 2013		



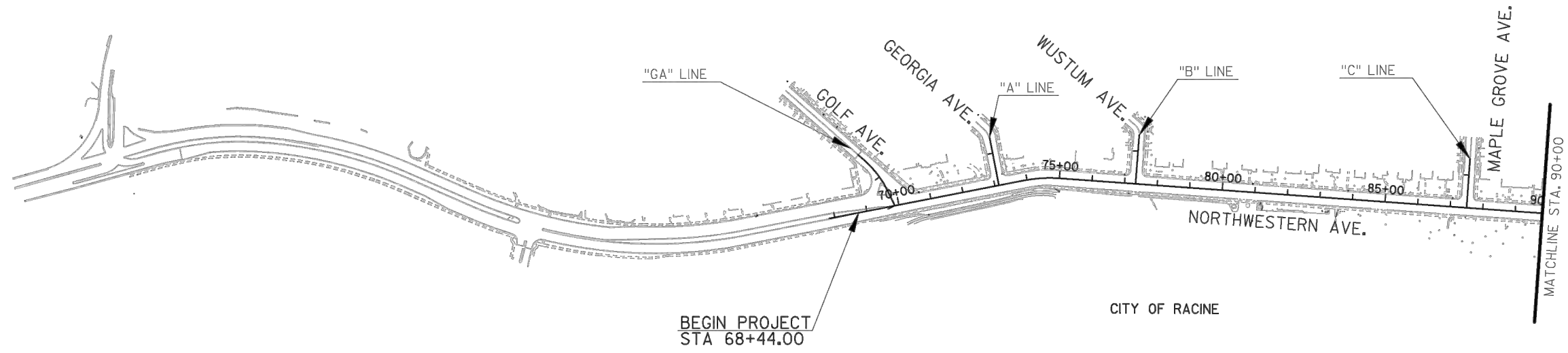
150 North Patrick Blvd.
Suite 180
Brookfield, WI 53045
Phone: 262.879.1212

J:\WisDOT\204154\204154-01.dwg
 Operator Name: KONIAR, JOHN
 Drawing Plot Scale: 0.386863

Dwg Size: 0.43 Mb
 Plot Date: July 24, 2013
 Plot Time: 8:27 AM

Attached Xrefs:
 Attached Images:
 Layout: FIG. 1

PLOT DATA



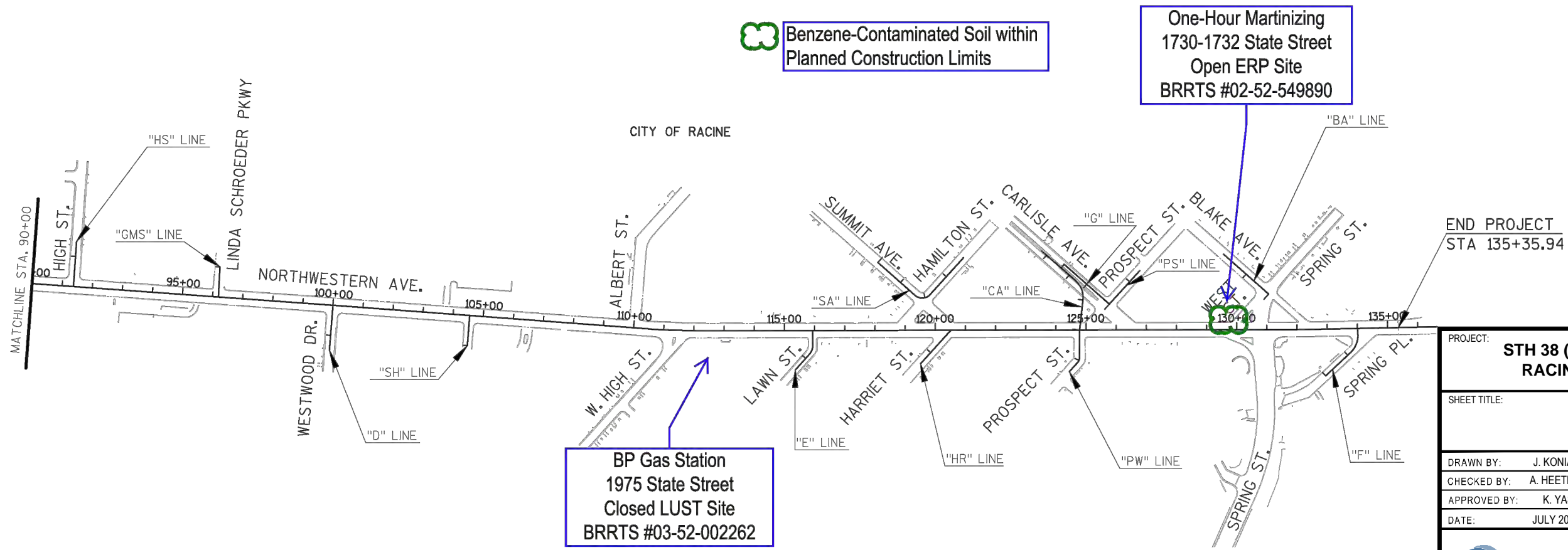
BEGIN PROJECT
STA 68+44.00

CITY OF RACINE

MATCHLINE STA. 90+00

Attached Xrefs:
Attached Images:
Layout:
FIG. 2

Dwg Size: 0.42 Mb
Plot Date: July 24, 2013
Plot Time: 8:27 AM



BP Gas Station
1975 State Street
Closed LUST Site
BRRTS #03-52-002262

Benzene-Contaminated Soil within
Planned Construction Limits

One-Hour Martinizing
1730-1732 State Street
Open ERP Site
BRRTS #02-52-549890

END PROJECT
STA 135+35.94

CITY OF RACINE

PLT DATA
Drawing Name:
Operator Name:
Drawing Plot Scale:
J:\WisDOT\204154\204154-02.dwg
KONIAR, JOHN
0:386863

PROJECT: STH 38 (aka NORTHWESTERN AVENUE) RACINE, WI - WisDOT ID 2290-17-00		
SHEET TITLE: PROJECT OVERVIEW		
DRAWN BY: J. KONIAR	SCALE: AS NOTED	PROJ. NO. 204154.0000.0000
CHECKED BY: A. HEETER	DATE PRINTED:	FILE NO. 204154-02.dwg
APPROVED BY: K. YASS	FIGURE 2	
DATE: JULY 2013		



150 North Patrick Blvd.
Suite 180
Brookfield, WI 53045
Phone: 262.879.1212

Base Map Provided by WisDOT

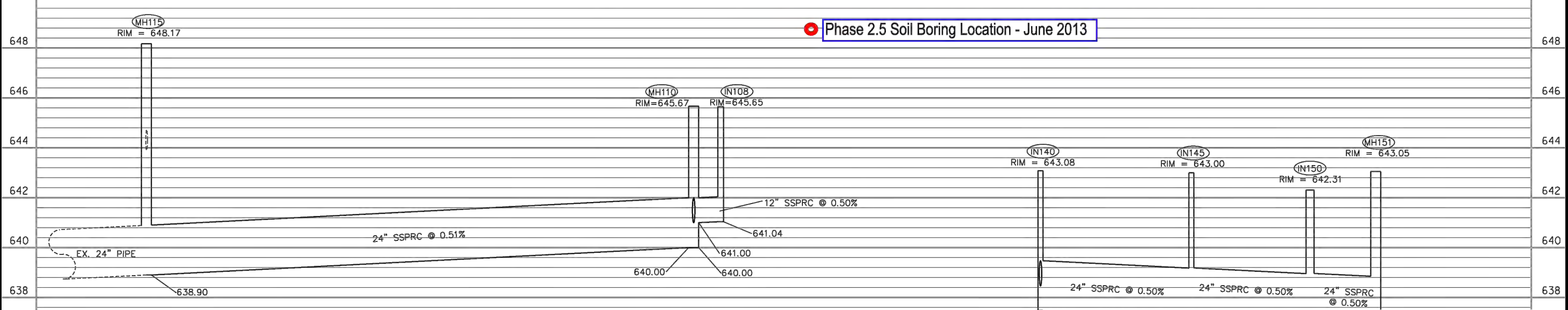
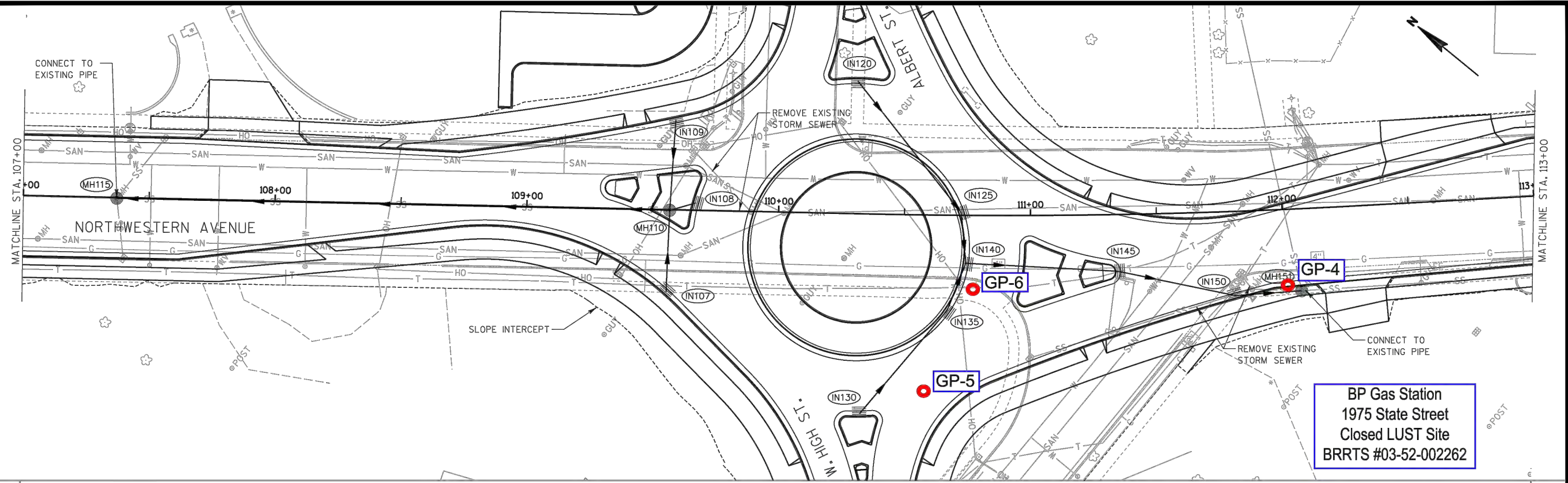
FIG. 3

Attached Xrefs:
Attached Images:
Layout:

Dwg Size: 0.43 Mb
Plot Date: July 24, 2013
Plot Time: 8:28 AM

J:\WisDOT\204154\204154-03.dwg
KONIAR, JOHN
0:386863

PLOT DATA
Drawing Name:
Operator Name:
Drawing Plot Scale:



PROJECT: STH 38 (aka NORTHWESTERN AVENUE) RACINE, WI - WisDOT ID 2290-17-00		
SHEET TITLE: PHASE 2.5 INVESTIGATION LOCATIONS- INTERSECTION OF W. HIGH ST. AND STATE ST.		
DRAWN BY: J. KONIAR	SCALE: AS NOTED	PROJ. NO. 204154.0000.0000
CHECKED BY: A. HEETER	DATE PRINTED:	FILE NO. 204154-03.dwg
APPROVED BY: K. YASS	FIGURE 3	
DATE: JULY 2013		



150 North Patrick Blvd.
Suite 180
Brookfield, WI 53045
Phone: 262.879.1212

Base Map Provided by WisDOT

One-Hour Martinizing
1730-1732 State Street
Open ERP Site
BRRTS #02-52-549890

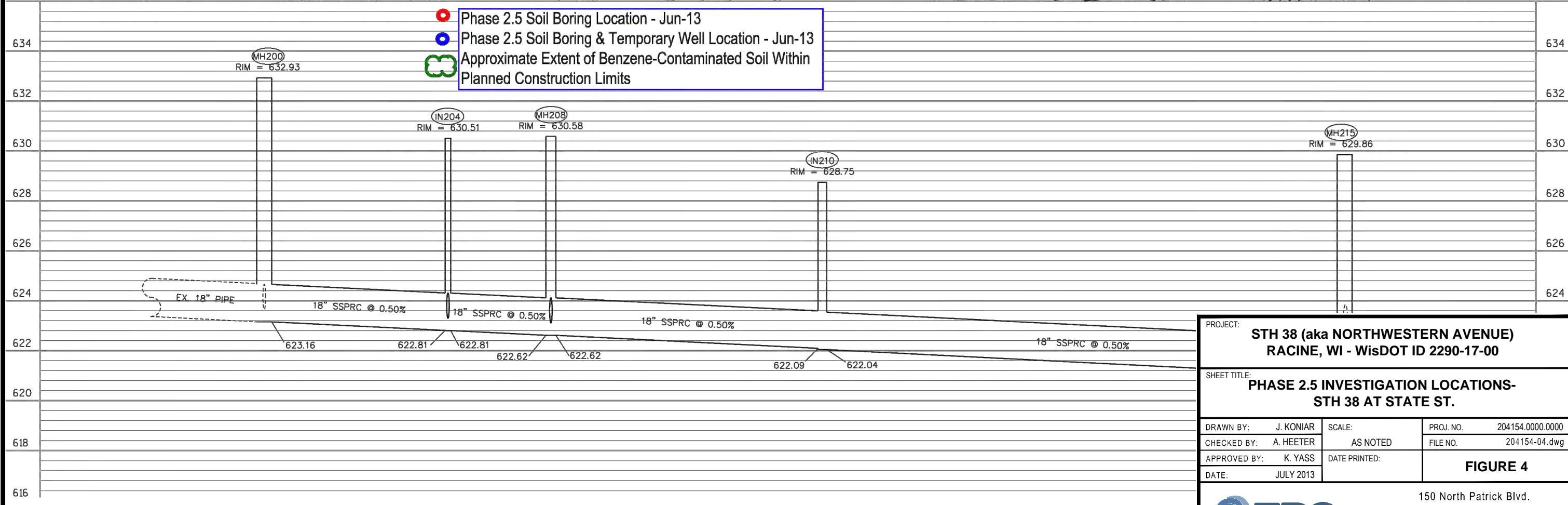
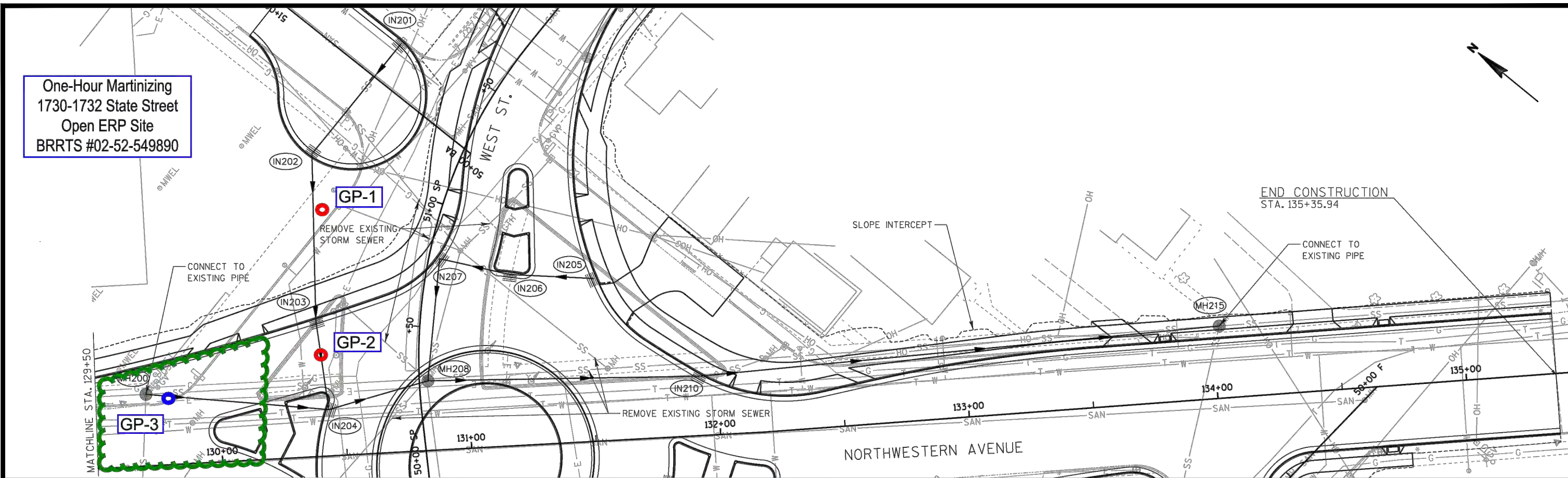


FIG. 4

Attached Xrefs:
Attached Images:
Layout:

Dwg Size: 0.43 Mb
Plot Date: July 24, 2013
Plot Time: 8:29 AM

J:\WisDOT\204154\204154-04.dwg
KONIAR, JOHN
0:386863



PROJECT: STH 38 (aka NORTHWESTERN AVENUE) RACINE, WI - WisDOT ID 2290-17-00		
SHEET TITLE: PHASE 2.5 INVESTIGATION LOCATIONS- STH 38 AT STATE ST.		
DRAWN BY: J. KONIAR	SCALE: AS NOTED	PROJ. NO. 204154.0000.0000
CHECKED BY: A. HEETER	DATE PRINTED:	FILE NO. 204154-04.dwg
APPROVED BY: K. YASS	FIGURE 4	
DATE: JULY 2013		



150 North Patrick Blvd.
Suite 180
Brookfield, WI 53045
Phone: 262.879.1212

Base Map Provided by WisDOT

Appendix A

Historical Release Information



Wisconsin Department of Natural Resources
Environmental Cleanup & Brownfields Redevelopment

BRRTS on the Web

The Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web is a searchable database containing information on the investigation and cleanup of potential and confirmed contamination to soil and groundwater in Wisconsin.

Navigation: [BOTW Home](#) >> [Basic Search](#) >> [Search Results](#) >> 02-52-549890 Activity Details

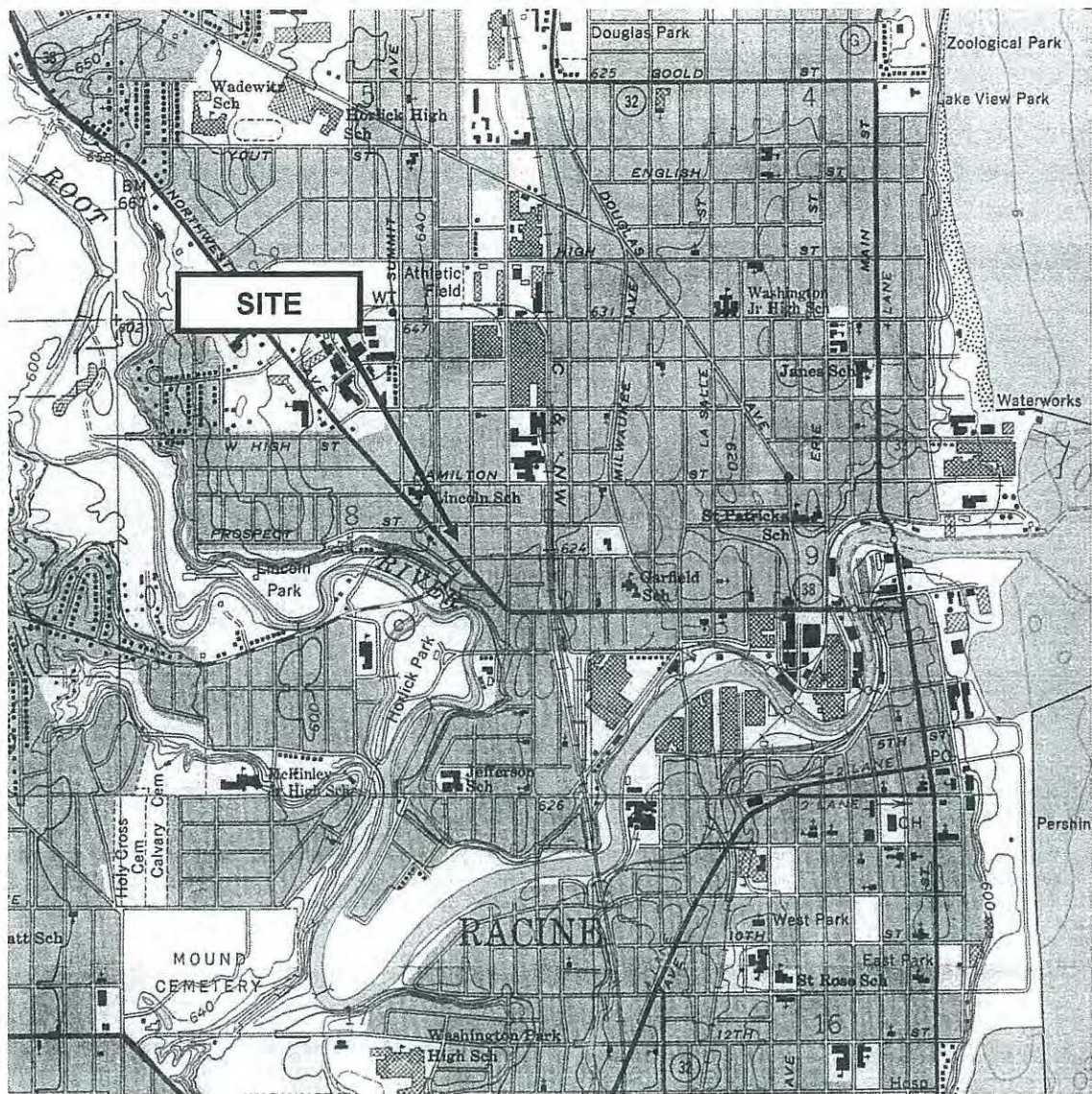
02-52-549890 MARTINIZING DRYCLEANING						
ERP - OPEN						
Location Name (Click name to view details and other activities)				County	WDNR Region	
MARTINIZING DRYCLEANING				RACINE	SOUTHEAST	
Address				Municipality		
1730 STATE ST				RACINE		
Public Land Survey System			Latitude	Google Maps	RR Sites Map	
SW 1/4 of the NE 1/4 of Sec 08, T03N, R23E			42.7334885	CLICK TO VIEW	CLICK TO VIEW	
Additional Location Description			Longitude	Facility ID	Size (Acres)	
NONE			-87.8022111	252251010	UNKNOWN	
Jurisdiction	PECFA No.	EPA Cerclis ID	Start Date	End Date	Last Action	
DNR RR			2007-06-01		2012-03-30	
Characteristics						
EPA NPL Site?	DSPS Tracked?	Eligible for PECFA Funds?	Above Ground Storage Tank?	Drycleaner?	Co-Contamination?	On GIS Registry?
No	No	No	No	Yes	No	No
Actions						
Place Cursor Over Code to View Description						
Date	Code	Name	Comment			
2007-06-01	1	Notification	-			
2007-08-02	2	RP Letter Sent	-			
2007-08-21	99	Miscellaneous	REC'D DERF PCN FORM 4400-210 RECEIVED			
2007-09-28	110	Date Potential Claim Form Approved - DERF	-			
2007-10-24	99	Miscellaneous/2	DERF BID PROP NORTHERN			
2007-11-07	99	Miscellaneous/2	DERF BID PROP GILES			
2007-11-09	99	Miscellaneous/2	DERF BID PROP SIGMA			
2009-07-28	113	Receipt of Bid Review Requests - DERF	CONSULTANT SELCTION FORM			
2009-09-11	300	Informal Review Performed for a Non-Fee Related Submittal	APPROVED CONSULTANT SELECTION AND COST ESTIMATE \$15,835 FOR SI			
2010-03-05	35	Site Investigation Workplan Received (w/out Fee)	DERF			
2010-04-22	81	Site Investigation Workplan Not Approved	NEEDED COSTS FOR ADDTL SI WORK			
2010-05-11	99	Miscellaneous/5	WELL CONST FORMS FOR GROUND WATER MONITOR			
2010-06-04	30	Site Investigation Workplan Go Ahead (notice to proceed)	WITH ADDTL COSTS OF \$13375, FOR TOTAL TO DATE OF \$29,210			
2010-06-04	99	Miscellaneous/6	COST BREAKDOWN FOR CHANGE ORDER FOR ADDTL SI			
2011-02-09	37	SI Report Received (w/out Fee)	-			
2011-04-01	216	Request for Review of "Contained-in Rulings" - DERF	4/18/2011 APPROVED			
2011-04-18	140	Site Investigation Report Not Approved	SOME CONCERNS NEED TO BE ADDRESSED			
2011-05-19	217	Application for Cost Reimbursement Received - DERF	-			
2011-08-22	112	Receipt of Change Orders - DERF	APPROVED 10/14/11 REQ, \$6215, TOTAL \$35425			
2011-09-07	130	DNR Regulatory Reminder Sent	Vapor Intrusion (VI) Assessment Notification Ltr Sent			
2011-11-21	99	Miscellaneous/7	SENT TO MADISON FOR APPROVAL			
2011-12-06	218	Application for Cost Reimbursement Approved - DERF	DC-452 APPROVED; CHECK BEING PROCESSED; COMPLETE CLAIM RECEIVED IN SER ON 9/12/11			
2012-02-13	37	SI Report Received (w/out Fee)/2	-			
2012-03-30	140	Site Investigation Report Not Approved/2	MORE INF NECESSARY TO COMPLETE SI			

Financial 			
Grants, Loans, DERF Expenditures, State-Funded and Spill Response			
Category	Fiscal Year	Amount	
DERF Reimbursements : Grant	2012	\$20,454	
Impacts			
Type	Comment		
Groundwater Contamination	-		
Off-Site Contamination (Potential)	-		
Soil Contamination	-		
Substances			
Substance	Type	Amount Released	Units
Perchloroethylene	VOC		
Who			
Click Project Manager Name to Compose Email			
Role	Name/Address		
Project Manager	SHANNA LAUBE-ANDERSON 9531 RAYNE ROAD STURTEVANT, WI 53177		
Responsible Party	DOUG BERRY 3319 NOBBHILL DR RACINE, WI		
Consultant	STANTEC CONSULTING SERVICES 12075 CORPORATE PKWY MEQUON, WI 53092		
Quick Response Codes 			
Scan to Transfer Information to Your Wireless Device			
			
	Page URL	Google Maps	

BRRTS data comes from various sources, both internal and external to DNR. There may be omissions and errors in the data and delays in updating new information. Please see the [disclaimers page](#) for more information.

The Official Internet site for the Wisconsin Department of Natural Resources
 101 S. Webster Street . PO Box 7921 . Madison, Wisconsin 53707-7921 . 608.266.2621

Release 2.12.5 | 08/01/2012



Source: USGS Racine South, Wisconsin 7.5-Minute Series (topographic)
 Quadrangle Map (1958; photorevised in 1971 and 1976)

Scale: 1:24,000
 Contour Interval: 10 Feet

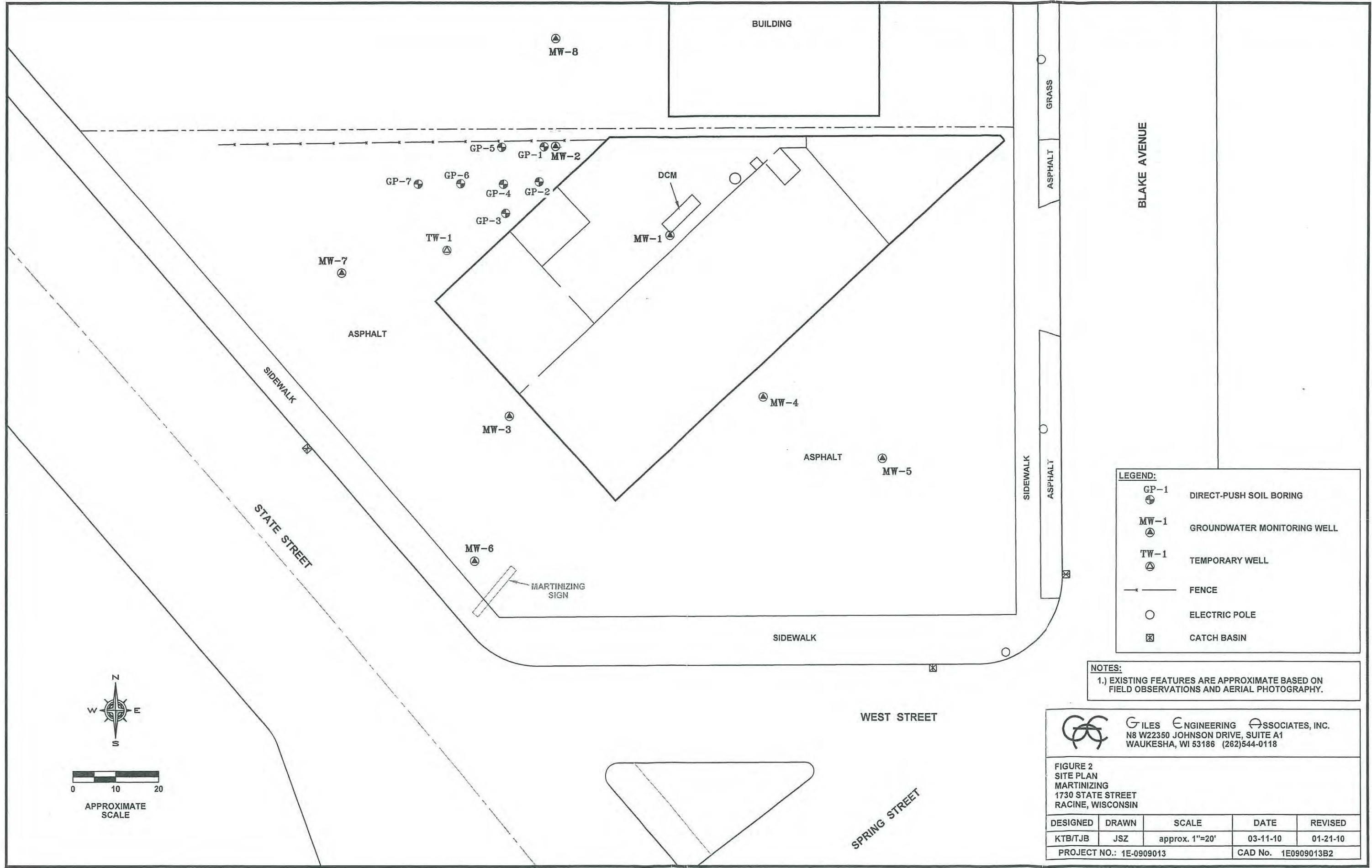


FIGURE 1
SITE LOCATION MAP

Martinizing Racine
 1730 State Street
 Racine, Wisconsin
 Project No. 1E-0909013



GILES
 ENGINEERING ASSOCIATES, INC.



LEGEND:

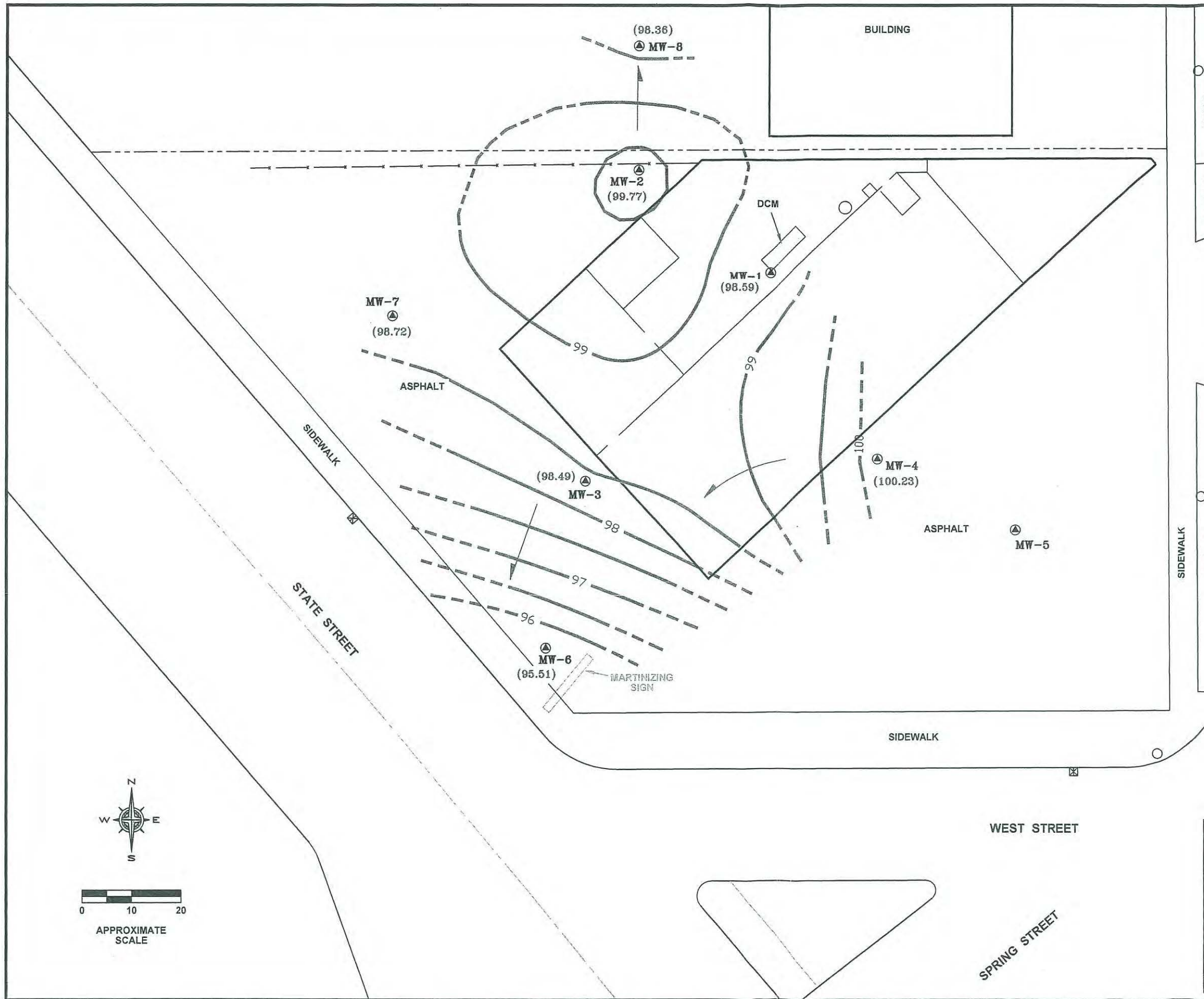
- GP-1 DIRECT-PUSH SOIL BORING
- MW-1 GROUNDWATER MONITORING WELL
- TW-1 TEMPORARY WELL
- FENCE
- ELECTRIC POLE
- ⊠ CATCH BASIN

NOTES:
 1.) EXISTING FEATURES ARE APPROXIMATE BASED ON FIELD OBSERVATIONS AND AERIAL PHOTOGRAPHY.

GILES ENGINEERING ASSOCIATES, INC.
 N8 W22350 JOHNSON DRIVE, SUITE A1
 WAUKESHA, WI 53186 (262)544-0118

FIGURE 2
 SITE PLAN
 MARTINIZING
 1730 STATE STREET
 RACINE, WISCONSIN

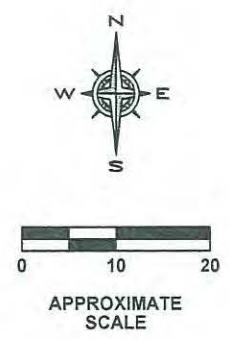
DESIGNED	DRAWN	SCALE	DATE	REVISED
KTB/TJB	JSZ	approx. 1"=20'	03-11-10	01-21-10
PROJECT NO.: 1E-0909013			CAD No. 1E0909013B2	



LEGEND:

- 99 — GROUNDWATER CONTOUR INTERVAL = 0.5' (DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION
- (95.51) — GROUNDWATER ELEVATION (IN FEET REFERENCED TO ARBITRARY BENCHMARK)
- MW-1 — GROUNDWATER MONITORING WELL
- FENCE
- ELECTRIC POLE
- CATCH BASIN

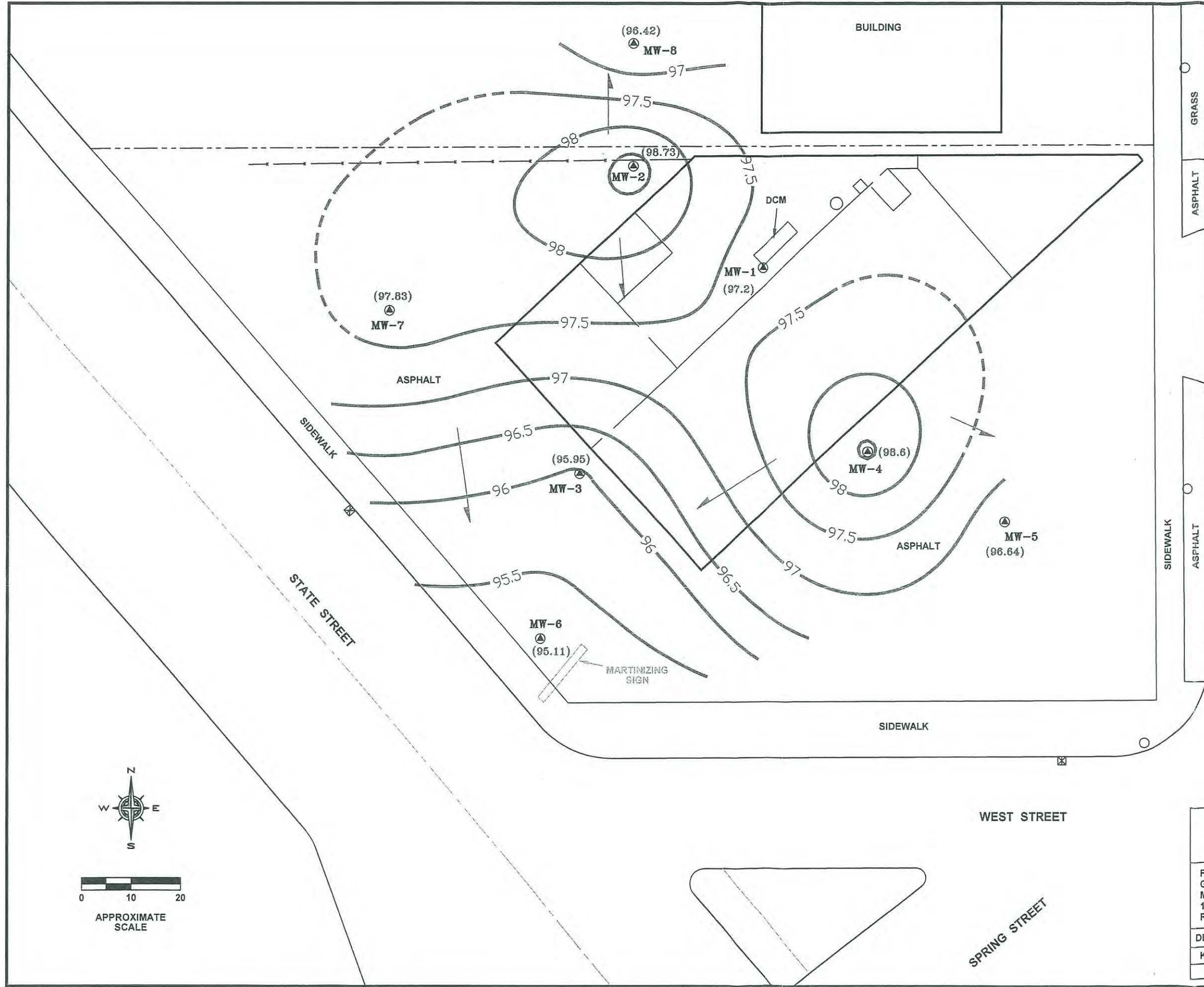
NOTES:
 1.) EXISTING FEATURES ARE APPROXIMATE BASED ON FIELD OBSERVATIONS AND AERIAL PHOTOGRAPHY.



GILES ENGINEERING ASSOCIATES, INC.
 N8 W22350 JOHNSON DRIVE, SUITE A1
 WAUKESHA, WI 53186 (262)544-0118

FIGURE 3
 GROUNDWATER CONTOUR MAP (8-3-10)
 MARTINIZING
 1730 STATE STREET
 RACINE, WISCONSIN

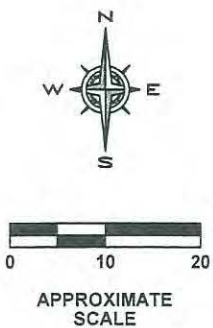
DESIGNED	DRAWN	SCALE	DATE	REVISED
KTB/TJB	JSZ	approx. 1"=20'	01-25-11	--
PROJECT NO.: 1E-0909013			CAD No. 1E0909013C2	



LEGEND:

- GROUNDWATER CONTOUR INTERVAL = 0.5' (DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION (IN FEET REFERENCED TO ARBITRARY BENCHMARK)
- GROUNDWATER MONITORING WELL
- FENCE
- ELECTRIC POLE
- CATCH BASIN

NOTES:
 1.) EXISTING FEATURES ARE APPROXIMATE BASED ON FIELD OBSERVATIONS AND AERIAL PHOTOGRAPHY.



GILES ENGINEERING ASSOCIATES, INC.
 N8 W22350 JOHNSON DRIVE, SUITE A1
 WAUKESHA, WI 53186 (262)544-0118

FIGURE 4
 GROUNDWATER CONTOUR MAP (12-1-10)
 MARTINIZING
 1730 STATE STREET
 RACINE, WISCONSIN

DESIGNED	DRAWN	SCALE	DATE	REVISED
KTB/TJB	JSZ	approx. 1"=20'	01-27-11	--

PROJECT NO.: 1E-0909013 CAD No. 1E0909013D2

TABLES

TABLE 1
SOIL ANALYTICAL RESULTS (VOCs)

Martinizing Racine
1730 State Street
Racine, Wisconsin
1E-0909013

Analyte	Sample Location																								NR 720.09 RCLs	NR 746.06 Table 1 (Product Indicator)	Calculated EPA SSL	WDNR Landfill Disposal Limit Contaminated-Out Non-Hazardous	
	TW-1	MW-1			MW-2		MW-3	MW-4		MW-5	MW-6	MW-7	MW-8	GP-1			GP-2		GP-3		GP-4		GP-5						GP-6
Sample Depth (feet)	6 - 8	0 - 2	10 - 12	0 - 2	6 - 8	2 - 4	2 - 4	10 - 12	2 - 4	2 - 4	2 - 4	2 - 3	4 - 6	8 - 10	12 - 14	4 - 6	8 - 10	2 - 4	6 - 8	4 - 6	6 - 8	4 - 6	6 - 8	4 - 6	6 - 8	4 - 6	6 - 8		
Sample Date	1/21/10	1/21/10	1/21/10	1/21/10	1/21/10	1/21/10	1/21/10	1/21/10	1/21/10	7/23/10	7/23/10	7/23/10	7/23/10	6/23/10	6/23/10	6/23/10	6/23/10	6/23/10	6/23/10	6/23/10	6/23/10	6/23/10	6/23/10	6/23/10	6/23/10	6/23/10	6/23/10		
PID	14	11	12	420	42	BDL	BDL	BDL	BDL	16	7	BDL	86	188	152	498	228	BDL	BDL	246	28	13	9	71	50				
Detected VOCs (µg/kg)																													
n-Butylbenzene	<29	<28	<58	<14000	<300	<27	<31	<29	<31	<31	<31	<34	<290	<2900	<290	<580	<1400	<31	<29	780	<29	<31	<29	<28	290	NS	NS	NC	NS
sec-Butylbenzene	130	29	<58	<14000	<300	<27	<31	<29	<31	<31	<31	<34	<290	<2900	<290	<580	<1400	<31	<29	860	43	<31	<29	<28	170	6,000	8,500	NC	NS
cis-1,2-Dichloroethene	<29	7300	1900	19000	<300	<27	<31	34	<31	<31	<31	<34	<290	<2900	770	5500	2300	<31	<29	<31	58	220	220	<28	<31	NS	NS	156,000	NS
trans-1,2-Dichloroethene	<29	45	<58	<14000	<300	<27	<31	<29	<31	<31	<31	<34	<290	<2900	<290	<580	<1400	<31	<29	<31	<29	<31	<29	<28	<31	NS	NS	NC	NS
Ethylbenzene	<29	41	<58	<14000	<300	<27	<31	<29	<31	<31	<31	<34	<290	<2900	<290	<580	<1400	<31	<29	<31	<29	<31	<29	<28	<31	2,900	4,600	NC	NS
Isopropylbenzene	110	<28	<58	<14000	<300	<27	<31	<29	<31	<31	<31	<34	<290	<2900	<290	<580	<1400	<31	<29	94	<29	<31	<29	<28	290	NS	NS	NC	NS
p-Isopropyltoluene	<29	61	<58	<14000	<300	<27	<31	<29	<31	<31	<31	<34	<290	<2900	<290	<580	<1400	<31	<29	<31	<29	<31	<29	<28	<31	NS	NS	NC	NS
Naphthalene	<58	340	<120	<28000	<610	230	<63	<57	<62	<61	<62	80	<590	<5800	<570	<1200	<2900	<62	<58	<61	<58	<63	<58	<57	140	NS	2,700	NC	NS
n-Propylbenzene	62	41	<58	<14000	<300	<27	<31	<29	<31	<31	<31	<34	<290	<2900	<290	<580	<1400	<31	<29	45	<29	<31	<29	<28	390	NS	NS	NC	NS
Tetrachloroethene	41	570	10000	{520000}	{59000}	33	73	82	<31	<31	530	<34	{62000}	{510000}	{47000}	{97000}	{250000}	<31	<29	32	<29	78	<29	150	<31	NS	NS	1,230	33,000
Toluene	<29	32	<58	<14000	<300	<27	<31	<29	<31	<31	<31	<34	<290	<2900	<290	<580	<1400	<31	<29	<31	<29	<31	<29	<28	<31	1,500	36,000	NC	NS
Trichloroethene	<29	83	2700	{420000}	2200	<27	<31	<29	<31	<31	44	<34	1200	9300	380	5300	5500	<31	<29	<31	<29	41	<29	<28	<31	NS	NS	850	14,000
1,2,4-Trimethylbenzene	<29	320	<58	<14000	<300	<27	<31	<29	<31	<31	<31	55	<290	<2900	<290	<580	<1400	<31	<29	<31	<29	<31	<29	<28	<31	NS	NS	NC	NS
1,3,5-Trimethylbenzene	<29	110	<58	<14000	<300	<27	<31	<29	<31	<31	<31	<34	<290	<2900	<290	<580	<1400	<31	<29	<31	<29	<31	<29	<28	<31	NS	NS	NC	NS
Vinyl chloride	<41	210	<82	<20000	<420	<38	<44	<40	<44	<43	<43	<47	<410	<4100	<400	<810	<2000	<43	<41	<43	41	<44	<40	<40	<43	NS	NS	NC	NS
total Xylenes	<99	220	<200	<47000	<1000	<93	<110	<98	<110	<100	<110	<110	<1000	<9900	<980	<2000	<4900	<110	<99	<100	<99	<110	<98	<97	<100	4,100	42,000	NC	NS

NOTES:

PID: Photoionization Detector

BDL: Below Detection Limit

TPH: Total Petroleum Hydrocarbons (TX 1005 Method)

VOCs: Volatile organic compounds

ODEQ: Oklahoma Department of Environmental Quality

mg/kg: Milligrams per kilogram; equivalent to parts per million (ppm)

µg/kg: Micrograms per kilogram; equivalent to parts per billion (ppb)

J: Result is below the method quantitation limit (MQL)

Results indicated in red/underlined exceed the Tier 1 Generic Cleanup Level (Residential)

Results indicated in purple/{...} exceed the WDNR landfill standard for Contaminated-Out, Non-Hazardous Material

Results indicated in brown/#...# exceed the Calculated Soil Screening Level Using the US EPA Web-based Calculator

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
(Detected VOCs)

Martinizing Racine
1730 State Street
Racine, Wisconsin
Project No. 1E-0909013

Analyte	MW-1			MW-2			MW-3			MW-4			MW-5		MW-6		MW-7		MW-8		TW-1	NR140 ES	NR 140 PAL	
	02/08/10	08/03/10	12/01/10	02/08/10	08/03/10	12/01/10	02/08/10	08/03/10	12/01/10	02/08/10	08/03/10	12/01/10	08/03/10	12/01/10	08/03/10	12/01/10	08/03/10	12/01/10	08/03/10	12/01/10	02/08/10			
Sample Date	02/08/10	08/03/10	12/01/10	02/08/10	08/03/10	12/01/10	02/08/10	08/03/10	12/01/10	02/08/10	08/03/10	12/01/10	08/03/10	12/01/10	08/03/10	12/01/10	08/03/10	12/01/10	08/03/10	12/01/10	02/08/10			
Benzene	<3.2	<8.0	<10	<2.0	<40	<50	<0.40	<0.20	<0.20	<1.0	<0.20	<0.20	<0.20	<0.20	<u>16.0</u>	<u>(3.4)</u>	<u>(1.8)</u>	<u>(0.97)</u>	<0.40	<1.0	<u>(1.6)</u>	5	0.5	
n-Butylbenzene	<3.2	<8.0	<10	<2.0	<40	<50	<0.40	<0.20	<0.20	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<1.0	1.1	NS	NS	
sec-Butylbenzene	<4.0	<10	<13	<2.5	<50	<63	<0.50	<0.25	<0.25	<1.2	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.50	<1.3	1.2	NS	NS	
chloroethane	<16	<40	<50	<10	<200	<250	<2.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.8j	<2.0	<5.0	<1.0	400	80	
1,1-Dichloroethene	<8.0	<20	<25	11j	<100	<130	<1.0	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3j	<2.5	<0.5	850	85
cis-1,2-Dichloroethene	<u>1000</u>	<u>3,800</u>	<u>2,000</u>	<u>2,600</u>	<u>2,300</u>	<u>2,700</u>	(20)	(1.0)j	(5.5)	(13)	(27)	(21)	0.56j	4.6	<0.50	<0.50	<0.50	<0.50	<0.50	4.10	670	(17)	70	7
trans-1,2-Dichloroethene	(12)j	(40)j	(25)j	(20)j	<100	<130	<1.0	<0.50	<0.50	<2.5	2.8	1.2j	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	3.0j	4.9j	0.61j	100	20
isopropyl ether	<8.0	<20	<25	<5.0	<100	<130	<1.0	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	0.71j	<0.50	<0.50	<1.0	<2.5	<0.50	NS	NS	
isopropylbenzene	<3.2	<8.0	<10	<2.0	<40	<50	<0.40	<0.20	<0.20	<1.0	<0.20	<0.20	<0.20	<0.20	0.57j	0.47j	<0.20	<0.20	<0.40	<1.0	3.7	NS	NS	
Naphthalene	<4.0	<10	<13	<2.5	<50	<63	<0.50	<0.25	<0.25	<1.2	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.50	<1.3	0.72j	40	8	
n-Propylbenzene	<8.0	<20	<25	<5.0	<100	<130	<1.0	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	0.52j	<0.50	<0.50	<0.50	<1.0	<2.5	4.1	NS	NS	
Tetrachloroethene	<u>280</u>	<u>1,700</u>	<u>730</u>	<u>11,000</u>	<u>21,000</u>	<u>22,000</u>	<u>210</u>	(0.60)j	(0.80)j	<u>130</u>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<u>170</u>	<u>150</u>	(3.0)	5	0.5
Trichloroethene	<u>260</u>	<u>1,900</u>	<u>860</u>	<u>4,200</u>	<u>8,300</u>	<u>7,000</u>	81	<0.20	(0.22)j	<u>27</u>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<u>110</u>	<u>100</u>	<0.2	5	0.5
Vinyl chloride	<u>71</u>	<u>340</u>	<u>210</u>	<u>110</u>	<u>54j</u>	<50j	<u>0.84j</u>	<0.20	<0.20	<1.0	<u>0.36j</u>	<0.20	<0.20	<0.20	<0.20	<0.20	<u>2.4</u>	<u>2.1</u>	<u>24</u>	<u>45</u>	<u>7.0</u>	0.2	0.02	

NOTES:

VOCs: Volatile Organic Compounds

NS: No published NR 140 ES or PAL

Results presented in micrograms per liter (µg/L); equivalent to parts per billion (ppb)

j: Result detected between laboratory method detection limit and quantitation limit

NR: Natural Resources

ES: Enforcement Standard

PAL: Preventive Action Limit

Results indicated in red/underline exceed the Wisconsin Administrative Code NR 140 Enforcement Standard (ES)

Results indicated in blue/parenthesis are above the Wisconsin Administrative Code NR 140 Preventive Action Limits (PAL)

**Table 3
Groundwater Elevation Summary**

Martinizing Cleaners
1730 State Street
Racine, Wisconsin
Giles Project No. 1E-0909013



Well ID	Elevation (TOC)*	Elevation Ground Surface	Well Depth	Screen Length	Groundwater Depth (TOC)	Calculated Groundwater Elevation	Change in Elevation	Feet Water in Well	Date
MW-1	101.73	101.81	16.00	10.00	4.39	97.34		11.61	02/08/2010
					4.09	97.64	0.30	11.91	02/26/2010
					2.91	98.82	1.18	13.09	06/23/2010
					3.41	98.32	-0.50	12.59	07/23/2010
					3.14	98.59	0.27	12.86	08/03/2010
					4.53	97.20	-1.39	11.47	12/01/2010
MW-2	101.54	101.85	16.00	10.00	4.25	97.29		11.75	02/08/2010
					3.06	98.48	1.19	12.94	02/26/2010
					1.36	100.18	1.70	14.64	06/23/2010
					1.80	99.74	-0.44	14.20	07/23/2010
					1.77	99.77	0.03	14.23	08/03/2010
					2.81	98.73	-1.04	13.19	12/01/2010
MW-3	101.33	101.56	13.00	10.00	4.45	96.88		8.55	02/08/2010
					4.14	97.19	0.31	8.86	02/26/2010
					2.40	98.93	1.74	10.60	06/23/2010
					3.16	98.17	-0.76	9.84	07/23/2010
					2.84	98.49	0.32	10.16	08/03/2010
					5.38	95.95	-2.54	7.62	12/01/2010
MW-4	102.53	102.82	16.00	10.00	4.61	97.92		11.39	02/08/2010
					3.46	99.07	1.15	12.54	02/26/2010
					3.02	99.51	0.44	12.98	06/23/2010
					3.02	99.51	0.00	12.98	07/23/2010
					2.30	100.23	0.72	13.70	08/03/2010
					3.93	98.60	-1.63	12.07	12/01/2010
MW-5	99.61	100.34	13.00	10.00	NW				02/08/2010
					NW				02/26/2010
					NW				06/23/2010
					NW				07/23/2010
					9.03	90.58		3.97	08/03/2010
					2.97	96.64	6.06	10.03	12/01/2010
MW-6	99.47	100.76	13.00	10.00	NW				02/08/2010
					NW				02/26/2010
					NW				06/23/2010
					NW				07/23/2010
					3.96	95.51		9.04	08/03/2010
					4.36	95.11	-0.40	8.64	12/01/2010
MW-7	101.08	101.51	13.00	10.00	NW				02/08/2010
					NW				02/26/2010
					NW				06/23/2010
					NW				07/23/2010
					2.36	98.72		10.64	08/03/2010
					3.25	97.83	-0.89	9.75	12/01/2010
MW-8	100.78	101.16	13.00	10.00	NW				02/08/2010
					NW				02/26/2010
					NW				06/23/2010
					NW				07/23/2010
					2.42	98.36		10.58	08/03/2010
					4.36	96.42	-1.94	8.64	12/01/2010






Wisconsin Department of Natural Resources
Environmental Cleanup & Brownfields Redevelopment

BRRTS on the Web

The Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web is a searchable database containing information on the investigation and cleanup of potential and confirmed contamination to soil and groundwater in Wisconsin.

Navigation: [BOTW Home](#) >> [Basic Search](#) >> [Search Results](#) >> 03-52-002262 Activity Details

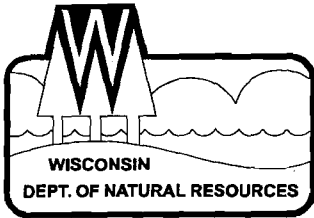
03-52-002262 MIKES U S STORES						
LUST - CLOSED						
		Cleanup has been approved at this location but some contamination remains. Due to this remaining residual contamination, one or more continuing obligations are applicable to this location (e.g., an asphalt cap or other barrier covering the contamination). For information specific to the continuing obligations at this location, read the Closure Letter within the GIS Registry Packet in the Documents section below. For general information on managing continuing obligations and residual contamination click here . You must contact DNR before constructing a well. Remaining contamination must be properly handled if disturbed.				
Location Name (Click name to view details and other activities)				County	WDNR Region	
MIKES US STORE				RACINE	SOUTHEAST	
Address				Municipality		
1975 STATE ST				RACINE		
Public Land Survey System			Latitude	Google Maps	RR Sites Map	
SE 1/4 of the NW 1/4 of Sec 08, T03N, R23E			42.73642	CLICK TO VIEW	CLICK TO VIEW	
Additional Location Description			Longitude	Facility ID	Size (Acres)	
1975 STATE ST			-87.8066885	252057410	UNKNOWN	
Jurisdiction	PECFA No.	EPA Cerclis ID	Start Date	End Date	Last Action	
DNR RR	53404252475		1992-03-30	2005-06-20	2006-02-15	
Characteristics						
EPA NPL Site?	DSPS Tracked?	Eligible for PECFA Funds?	Above Ground Storage Tank?	Drycleaner?	Co-Contamination?	On GIS Registry? 
No	Yes	Yes	No	No	No	Yes
Actions						
Place Cursor Over Code to View Description						
Date	Code	Name	Comment			
1992-03-30	1	Notification	-			
1992-04-07	2	RP Letter Sent	-			
1992-05-08	35	Site Investigation Workplan Received (w/out Fee)	SI WORK PLAN RECVD			
1993-06-08	37	SI Report Received (w/out Fee)	SI REPORT RECVD			
1993-11-05	37	SI Report Received (w/out Fee)/2	SI REPORT RECVD			
1994-01-24	45	Form 4 Approved	FORM 4 APPROVED			
1994-04-22	33	Tank Closure Environmental Site Assessment Rpt Received	TNK CLS/SA REPT RECVD			
1994-09-22	41	Remedial Action Report Received	RA REPORT RECVD			
1994-11-22	45	Form 4 Approved/2	FORM 4 APPROVED			
1995-01-14	99	Miscellaneous	RE-RANK TO HIGH PRIORITY/SCORE OF 16.00			
1995-02-08	37	SI Report Received (w/out Fee)/3	SI REPORT RECVD			
1996-06-17	45	Form 4 Approved/3	-			
1996-07-03	41	Remedial Action Report Received/2	-			
1996-07-11	37	SI Report Received (w/out Fee)/4	-			
1996-07-11	39	Remedial Action Options Report received (w/out Fee)	-			
1996-11-12	43	Status Report Received	-			
1997-06-16	41	Remedial Action Report Received/3	-			
1997-06-16	179	Closure Review Req Received (no fee required)	-			
1997-06-24	50	GIS Registry Site	-			

1997-06-24	84	Conditional Closure	-
2002-07-24	99	Miscellaneous/2	BLUELIGHT LETTER SENT
2003-08-06	14	Notice of Violation (NOV)	-
2003-08-06	50	GIS Registry Site	-
2005-05-10	700	Date Groundwater Registry Fee Received	REC'D CK# 4915 \$250.00
2005-05-10	710	Date Soil Registry Fee Paid	REC'D CK# 4914 \$200.00
2005-06-03	90	Start FIFO Review	GIS PACKET COMPLETE, REVIEW FOR CLOSURE
2005-06-20	11	Activity Closed	-
2005-06-20	59	Enforcement Action Completed	SUBMITTED GIS PACKET IN PLACE OF GW USE RESTRICTION, MET NOV REQUIREMENTS
2005-06-20	232	Continuing Obligation - Residual Soil Contamination	*** AUTO POPULATED AT FINAL CLOSURE DUE TO 710 ACTION ***
2005-06-20	236	Continuing Obligation - Residual GW Contamination	*** AUTO POPULATED AT FINAL CLOSURE DUE TO 700 ACTION ***
2006-02-15	100	GIS Registry QAQC Completed	AB
Documents Click Document Name or URL to Open Please note: not all files listed are available to be viewed on-line.			
Category : Name			File Type
GIS Registry Packets : GIS Registry Packet			
Impacts			
Type	Comment		
Soil Contamination	-		
Substances			
Substance	Type	Amount Released	Units
Gasoline - Unleaded and Leaded	Petroleum		
Who Click Project Manager Name to Compose Email			
Role	Name/Address		
Responsible Party	MIKE'S U.S. STORES 1975 STATE ST RACINE, WI 53402		
Project Manager	SHANNA LAUBE-ANDERSON 9531 RAYNE ROAD STURTEVANT, WI 53177		
Owner	MICHAEL ERICKSON 1975 STATE ST. RACINE, WI 53402		
Quick Response Codes  Scan to Transfer Information to Your Wireless Device			
	 Page URL	 Google Maps	 GIS Registry PDF

BRRTS data comes from various sources, both internal and external to DNR. There may be omissions and errors in the data and delays in updating new information. Please see the [disclaimers page](#) for more information.

The Official Internet site for the Wisconsin Department of Natural Resources
101 S. Webster Street . PO Box 7921 . Madison, Wisconsin 53707-7921 . 608.266.2621

Release 2.12.5 | 08/01/2012



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

James Doyle, Governor
Scott Hassett, Secretary
Gloria L. McCutcheon, Regional Director

Southeast Region
Sturtevant Service Center
9531 Rayne Road, Suite IV
Sturtevant, Wisconsin 53177
Telephone 262-884-2300
FAX 262-884-2307
TDD 262-884-2304

June 28, 2005

Mr. Satish Bhardwaj
Vishal Investments LLC
1975 State St.
Racine, WI 5344

Subject: Case Closure for Mike's US Stores, 1975 State St., Racine, WI FID 252057410, BRRTS
03-52-002262

Dear Mr. Bhardwaj:

The Department has received and reviewed the information submitted to complete the closure at this site. At this time your site will be noted as being closed with Soil and Groundwater GIS on the Department's database.

State Statute 101.143 requires that PECFA claimants seeking reimbursement of interest costs, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims not received by the PECFA Program within 120 days of the date of this letter, interest costs after 60 days of the date of this letter will not be eligible for PECFA reimbursement.

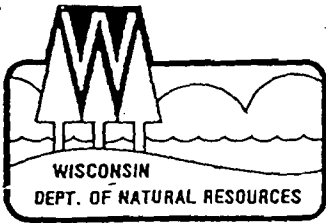
Please be aware that the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment.

Thank you for your efforts in remediating your site. If you have any questions regarding this letter please contact me at 262-884-2341.

Sincerely,

Shanna L Laube-Anderson, P.G.
Hydrogeologist
Southeast Region, Sturtevant Service Center

Cc: Mukesh Jain, K. Singh and Associates, 1135 Legion Drive, Elm Grove, WI 53122



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Gloria L. McCutcheon, Regional Director

Southeast Region Annex
4041 N. Richards Street, Box 12436
Milwaukee, WI 53212-0436
TELEPHONE 414-229-0800
FAX 414-229-0810

2097

June 24, 1997

FID#: 252057410
County of Racine

Mr. Mike Erickson
Mike's U.S. Store
1975 State Street
Racine, WI 53402

SUBJECT: Flexible Case Closure - Mike's U.S. Stores
1975 State Street, Racine, Wisconsin BRRTs #: 03-52-002262

Dear Mr. Erickson:

Based on the information submitted by K. Singh & Associates, (K. Singh), the Wisconsin Department of Natural Resources (WDNR) concurs with K. Singh that no further action is necessary at the site at this time. The WDNR reserves the right to reopen this case pursuant to s. NR726.09, Wisconsin Administrative Code (WAC), should additional information regarding site conditions indicate contamination on or from the site poses a threat to public health, safety or welfare or the environment.

To complete the closure of this site, you must place a groundwater use restriction on the property deed at the county register of deeds office which specifies the legal description of the property, the location, type, and concentration of the contaminant(s) and includes the following language:

Natural attenuation has been approved by the Department of Natural Resources to remediate groundwater exceeding ch. NR 140 groundwater standards within the boundaries of this property. Construction of wells where water quality exceeds the drinking water standards in ch. NR809 is restricted by chs. NR811 and NR812. Special well construction standards or water treatment requirements, or both, or well construction prohibitions may apply. Anyone who proposes to construct or reconstruct a well on this property is required to contact the Department of Natural Resources' Bureau of Drinking Water and Groundwater to determine what specific requirements are applicable prior to constructing or reconstructing a well on this property.

Within 60 days, the WDNR requests that all of the groundwater monitoring and recovery wells at the site be abandoned in accordance with NR 141 WAC. When the WDNR receives a copy of the groundwater use restriction and the abandonment forms, this case will be tracked as closed on our computer tracking system.

Thank you for your cooperation in the remediation of the petroleum impacts at this site. If you have any questions about this letter, please contact me at 414-229-0832.

Sincerely,

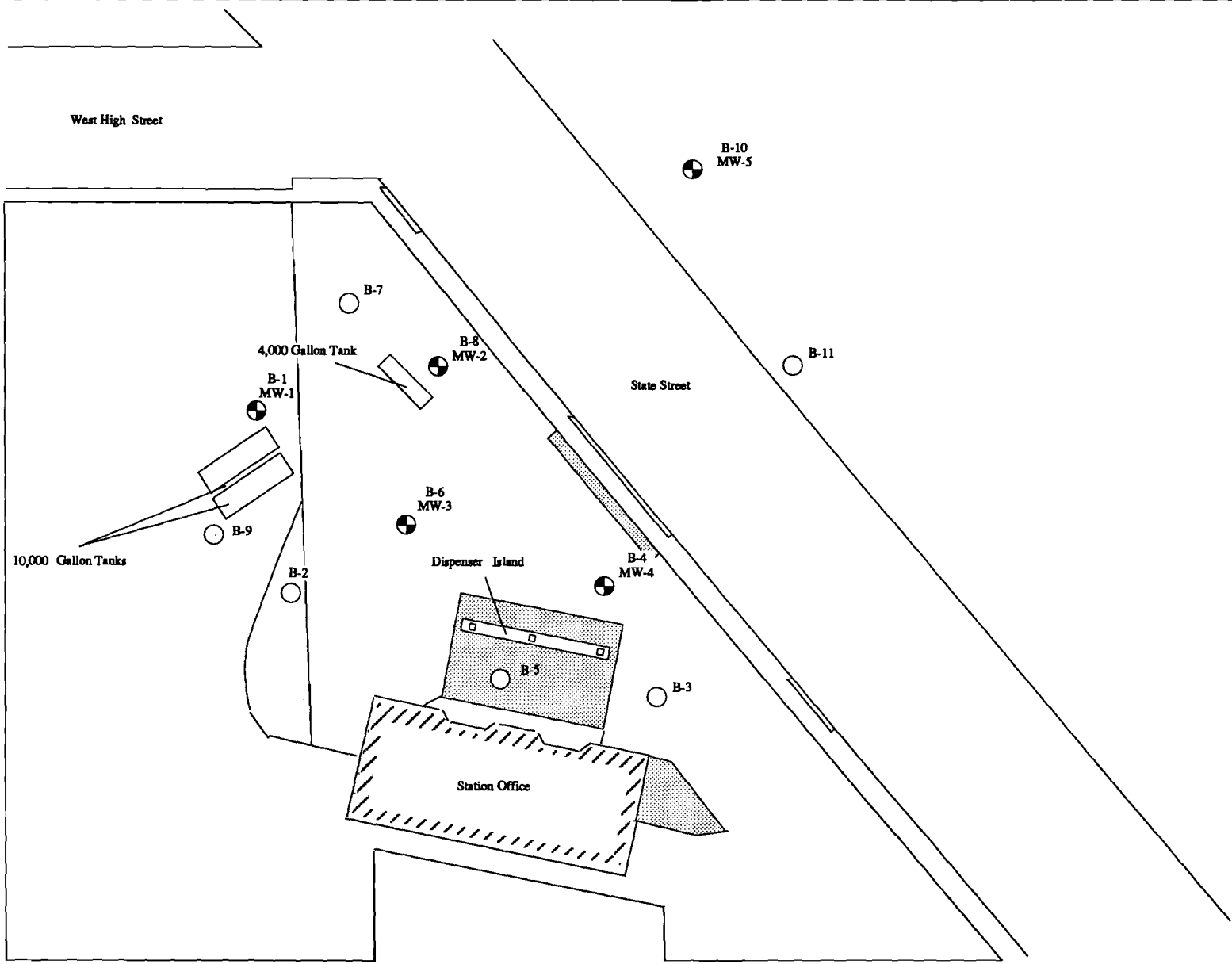
Eric Amadi

Eric Amadi
Hydrogeologist

cc: Dhruva Vangipuram - K. Singh & Associates, Inc.
SER - case file # 03-52-002262

Quality Natural Resources Management
Through Excellent Customer Service





LEGEND	
	Test Boring Location
	Monitoring Well Location

III-2

Owner
MIKE'S U.S. STORES
 1975 State Street
 Racine, Wisconsin

Engineer
K. SINGH & ASSOCIATES, INC.
 Engineers & Environmental Management Consultants
 1135 Legion Drive, Elm Grove, Wisconsin 53122, (414) 821-1171

Figure 2: Soil Boring and Monitoring Well Location Map

DATE January 7, 1993	DRAWN BY C.S.S	REVISIONS BY	DATE 1/7/93	PROJECT NO. 2097
SCALE 	CHECKED BY P.N. S.	C.S. S.	1/7/93	SHEET NO. ONE

Table 2
Summary of Groundwater Quality Test Result
Mike's U. S. Stores, 1975 State Street, Racine, WI

Parameter	Date	Benzene	Ethylbenzene	Toluene	Xylenes	MTBE	GRO	Dissolved Lead
Well I.D./Units		ppb	ppb	ppb	ppb	ppb	ppm	ppb
MW-1(*)	12/3/92	<0.4	<0.2	<0.2	<0.2	<0.2	<0.1	NT
	1/6/93	0.4	0.4	<0.2	1.7	<0.4	<0.1	<0.05
MW-2(*)	12/3/92	7,716	1,271	395	2,771	329.4	14.1	NT
	1/6/93	4,517	576.9	104.4	1158.2	4,972	19.2	<0.05
	10/15/93	6,700	1,900	200	7,100	<230	36	<2
MW-3(*)	12/3/92	<0.4	<0.2	<0.2	<0.2	<0.2	<0.1	NT
	1/6/93	14.7	16	1.8	50.1	17	0.62	<0.05
	10/15/93	4	2	1.2	4.6	6	<0.1	<2
MW-4(*)	12/3/92	<0.4	<0.2	<0.2	<0.2	<0.2	<0.1	NT
	1/6/93	28.9	<0.2	1.8	1.9	<0.4	<0.1	NT
	10/15/93	14	6	1.2	9	7	<0.1	<2
MW-5	2/9/93	<1	<1	<1	<1	<1	<0.1	<2
	10/15/93	<0.7	<0.9	<1	<2.4	<4.6	<0.1	<2
	4/18/94	<1	<1	<1	<3	<1	<0.05	<3
	7/31/95	<1	<1	<1	<3	<1	<0.05	NT
	5/30/96	<0.5	<1.0	<1.0	<3.0	<1.0	<0.05	NT
	9/19/96	<0.5	<0.5	<0.5	<0.5	<5	<0.05	NT
	3/11/97	<0.5	<0.5	<0.5	<0.5	<0.2	<0.05	NT
MW-2(**)	4/18/94	<1	<1	<1	<3	<1	<0.1	<3
	7/31/95	<1	<1	<1	<3	<1	<0.1	NT
	5/30/96	<0.5	<1	<1	<3	<1	<0.05	NT
	9/19/96	<0.5	<0.5	<0.5	<0.5	<5	<0.05	NT
	3/11/97	<0.5	<0.5	<0.5	<0.5	<0.2	<0.05	NT
MW-4(**)	4/18/94	D	D	D	D	D	D	D
	7/31/95	<1	<1	<1	<3	<1	<0.1	NT
	5/30/96	<0.5	<1	<1	<3	<1	<0.05	NT
	9/19/96	<0.5	<0.5	<0.5	<0.5	<5	<0.05	NT
	3/11/97	<0.5	<0.5	<0.5	<0.5	<0.2	<0.05	NT

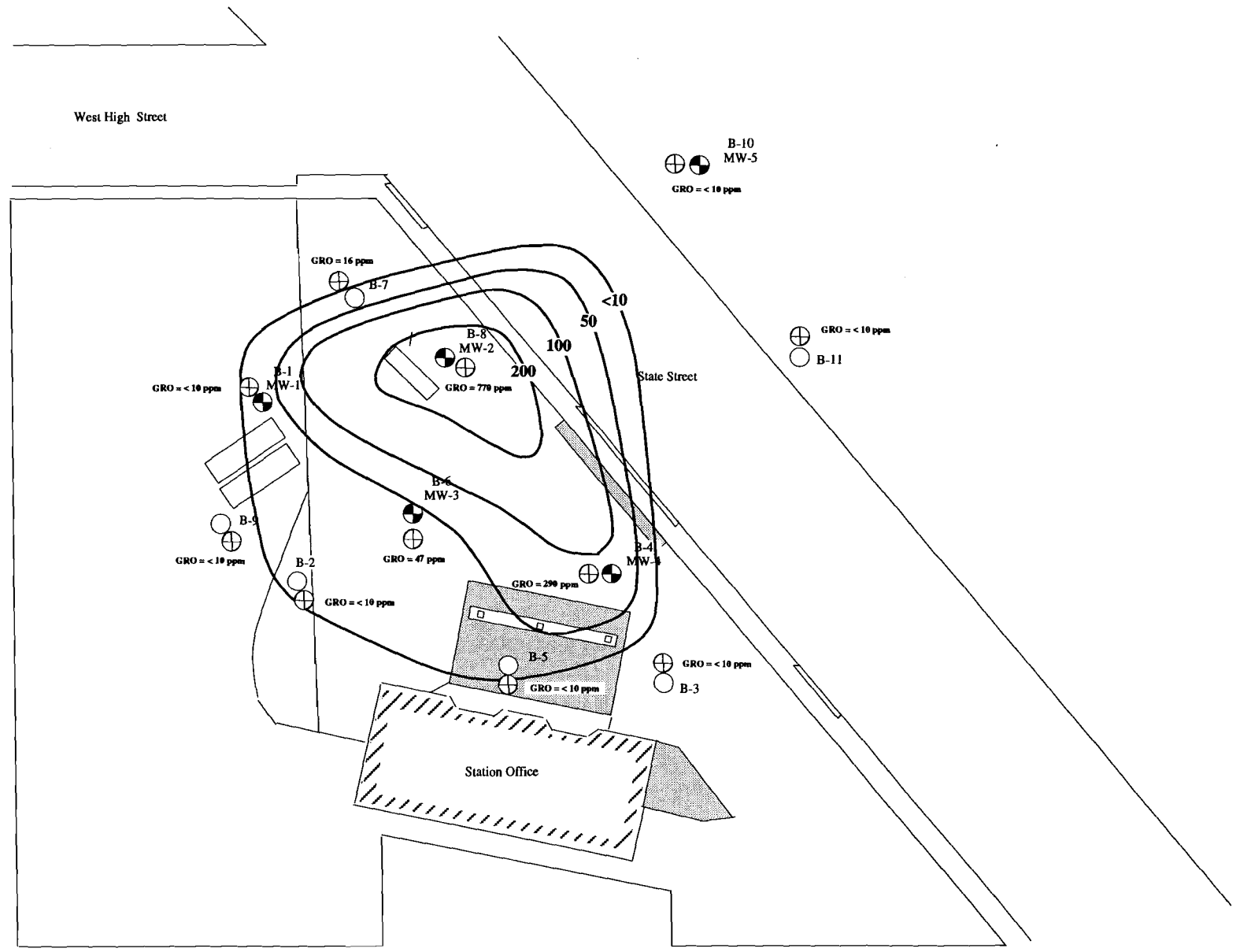
Table 2
Summary of Groundwater Quality Test Result
Mike's U. S. Stores, 1975 State Street, Racine, WI

Parameter	Date	Benzene	Ethylbenzene	Toluene	Xylenes	MTBE	GRO	Dissolved Lead
Well I.D./Units		ppb	ppb	ppb	ppb	ppb	ppm	ppb
RW-1(**)	4/18/94	26	4.8	66	39	39	0.29	<3
(Recovery	5/15/95	68	27	6.4	32	1,600	4.9	NT
sump)	5/16/95	54	23	8.9	21	3,000	2.8	<5
	5/17/95	32	14	10	16	4,900	3	<5
	5/18/95	75	<20	98	<60	4,700	3.7	<5
	7/31/95	<1.0	<1.0	<1.0	<3.0	<1.0	<0.05	NT
	8/11/95	9.4	5.5	<5.0	<15	1,100	0.9	NT
	5/30/96	<0.5	<1.0	<1.0	<3.0	250	0.14	NT
	10/11/96	<0.5	<0.5	<0.5	<0.5	150	0.063	NT
	10/23/96	12	<0.5	<0.5	0.87	47	0.053	NT
	3/11/97	0.57	<0.5	<0.5	<0.5	120	<0.05	NT
PAL		0.5	272	68.6	124	12	--	5
ES		5	1,360	343	620	60	--	50

***: Replacement Well installed following soil remediation* D - Dry well
**: Well abandoned during soil remediation* NT - Not tested



15



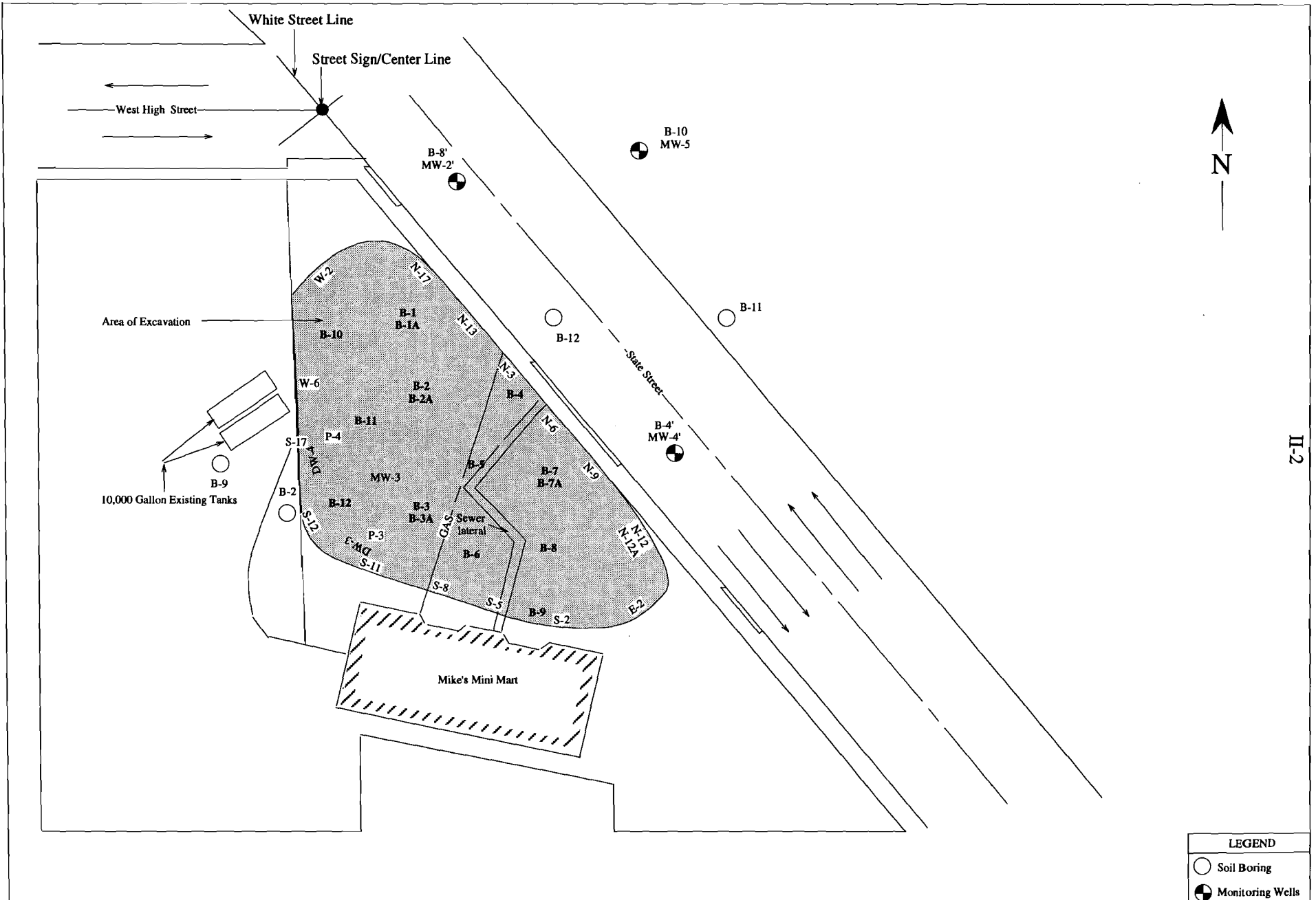
Note:
 Confirmatory soil borings were performed on October 15, 1993
 GRO concentration written near soil borings indicate the concentration determined on October 15, 1993 sampling.
 GRO Plume of Contamination is taken from the Remedial Investigation Report submitted in May 1993.

LEGEND	
	Confirmatory Soil Boring
	Test Boring Location
	Monitoring Well Location
-10- GRO Concentration in Soil	

Owner
MIKE'S U.S. STORES
 1975 State Street
 Racine, Wisconsin

Engineer
K. SINGH & ASSOCIATES, INC.
 Engineers & Environmental Management Consultants
 1135 Legion Drive, Elm Grove, Wisconsin 53122, (414) 821-1171

Figure 3. GRO Plume of Contamination				
DATE March 9, 1993	DRAWN BY C.S.S	REVISIONS BY	DATE	PROJECT NO.
SCALE 	CHECKED BY P.N.S.	C.S.S.	3/9/93	2097
		C.S.S.	3/9/93	SHEET NO. ONE



II-2

LEGEND	
○	Soil Boring
⊙	Monitoring Wells

Owner
MIKE'S U.S. STORES
 1975 State Street
 Racine, Wisconsin

Engineer
K. SINGH & ASSOCIATES, INC.
 Engineers & Environmental Management Consultants
 1135 Legion Drive, Elm Grove, Wisconsin 53122, (414) 821-1171

Figure 5. Excavated Area and Soil Sampling Locations

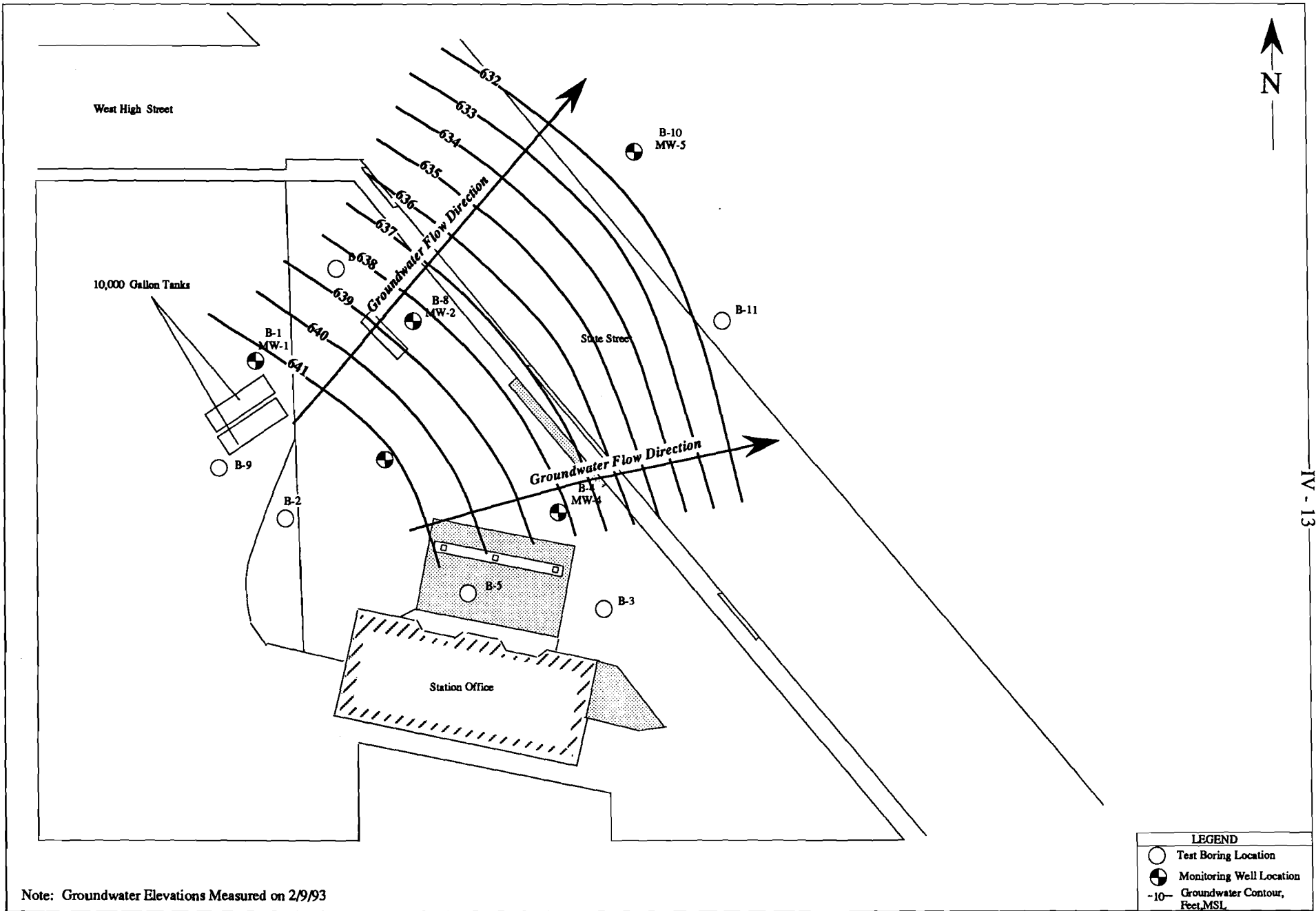
DATE	DRAWN BY	REVISIONS BY	DATE	PROJECT NO.
March 9, 1993	C.S.S			2097
SCALE		CHECKED BY	R.B.S.	SHEET NO.
0 25 50'		P.N. S.	S.D.M.	ONE
			8/26/94	
			9/16/94	

IV-12

Table 5
Summary of Groundwater Elevation Data

Monitoring Well Designation	PVC Elevation	Groundwater Elevation 12 / 3 / 92	Groundwater Elevation 1 / 6 / 93	Groundwater Elevation 2 / 9 / 93
MW-1	647.18	636.23	641.80	641.24
MW-2	643.15	638.66	638.65	638.39
MW-3	644.10	641.28	641.10	640.95
MW-4	642.76	635.71	638.46	638.26
MW-5	641.85	NS	NS	631.11

Note: All elevations are given in feet, MSL.



Note: Groundwater Elevations Measured on 2/9/93

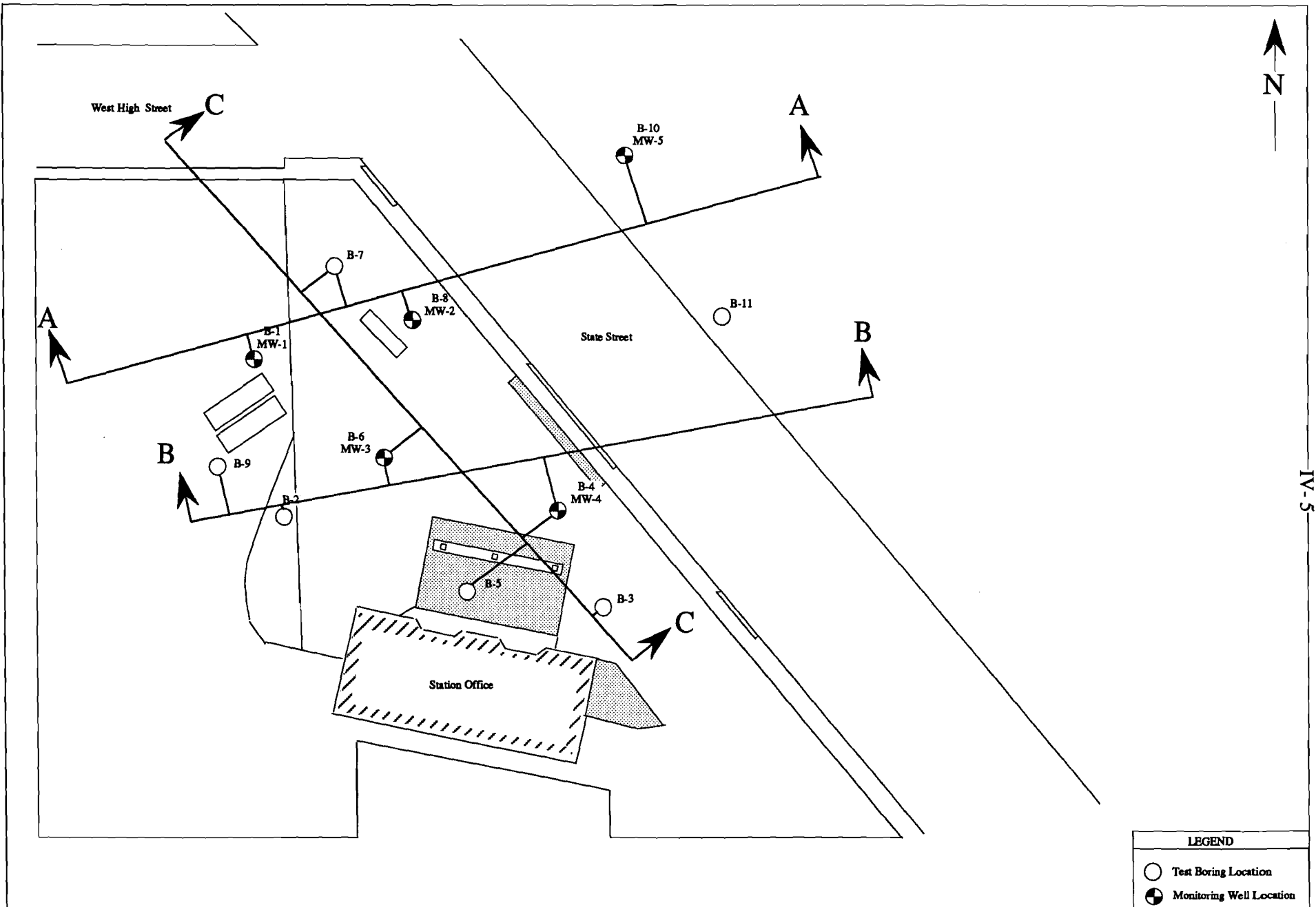
LEGEND	
	Test Boring Location
	Monitoring Well Location
-10-	Groundwater Contour, Feet, MSL

Owner
MIKE'S U.S. STORES
 1975 State Street
 Racine, Wisconsin

Engineer
K. SINGH & ASSOCIATES, INC.
 Engineers & Environmental Management Consultants
 1135 Legion Drive, Elm Grove, Wisconsin 53122, (414) 821-1171

Figure 7: Groundwater Elevation Contour map (Feet, MSL)

DATE	DRAWN BY	REVISIONS BY	DATE	PROJECT NO.
March 9, 1993	C.S.S			2097
SCALE		CHECKED BY	C.S. S.	3/9/93
		P.N. S.	C.S. S.	3/9/93
				SHEET NO.
				ONE

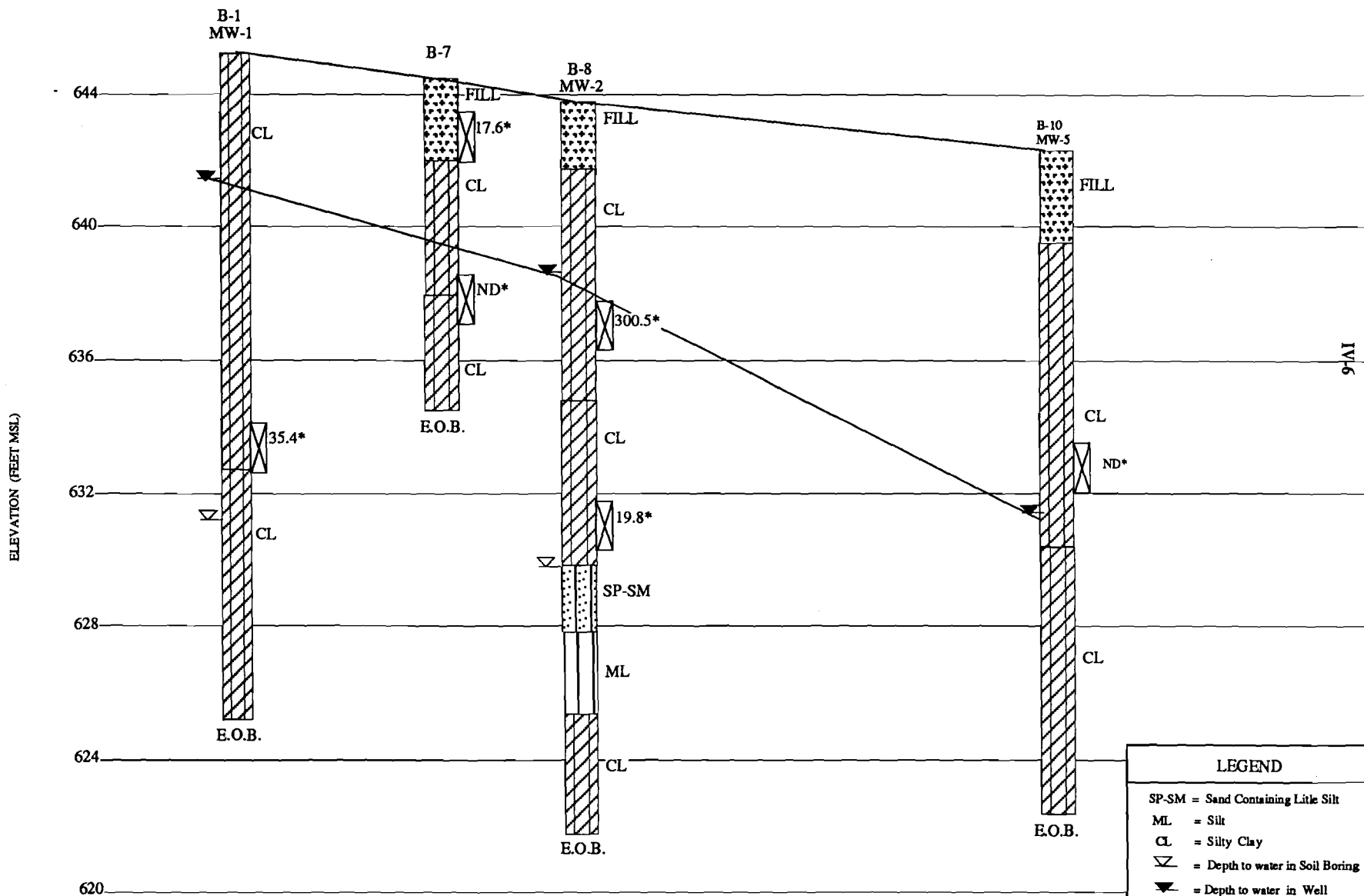


Owner
MIKE'S U.S. STORES
 1975 State Street
 Racine, Wisconsin

Engineer
K. SINGH & ASSOCIATES, INC.
 Engineers & Environmental Management Consultants
 1135 Legion Drive, Elm Grove, Wisconsin 53122, (414) 821-1171

Figure 3: Map Showing Location of Geosections

DATE	DRAWN BY	REVISIONS BY	DATE	PROJECT NO.
January 11, 1993	C.S.S			2097
SCALE		CHECKED BY	C.S. S.	1/11/93
0 25 50'		P.N. S.	C.S. S.	1/11/93
				SHEET NO.
				ONE



9-A1

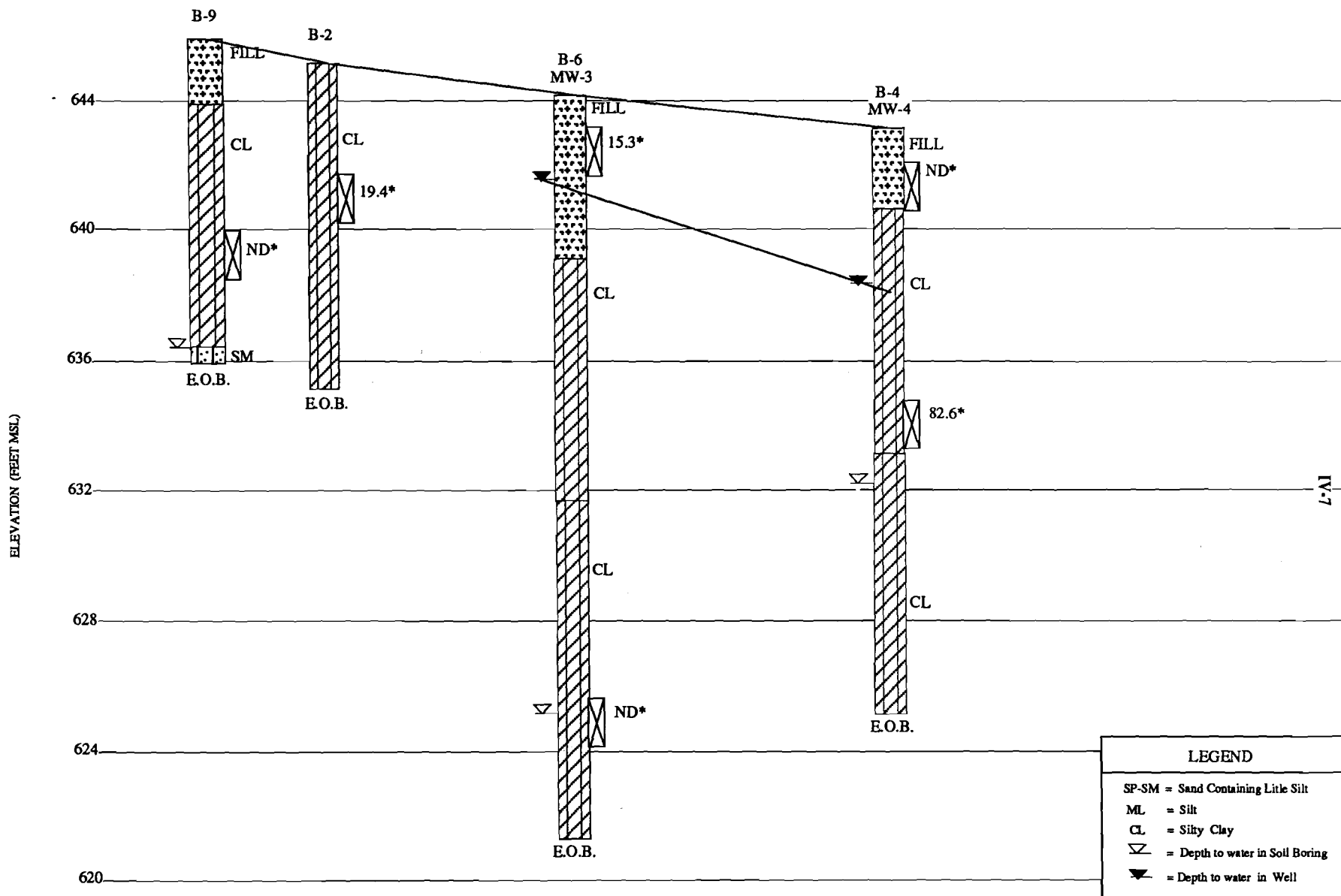
LEGEND	
SP-SM	= Sand Containing Little Silt
ML	= Silt
CL	= Silty Clay
▽	= Depth to water in Soil Boring
▼	= Depth to water in Well
*	= Concentration of GRO in Soil
E.O.B.	= End of Boring

Note : Groundwater Elevations Measured on 2/9/93

OWNER
MIKE'S U.S. STORES
 1975 State Street
 Racine, Wisconsin

ENGINEER
K. SINGH & ASSOCIATES, INC.,
 ENGINEERS & ENVIRONMENTAL MANAGEMENT CONSULTANTS
 1135 LEGION DRIVE, ELM GROVE, WISCONSIN 53122, (414) 821-1171

FIGURE 4. Geologic Section " A-A "				
March 9, 1993	DRAWN BY C.S.S.	REVISIONS BY	DATE	PROJECT NO.
	CHECKED BY V. L. S.	K. S.	3/9/93	2097
HORIZONTAL SCALE 		K. S.	3/9/93	SHEET NO.
				ONE



ELEVATION (FEET MSL)

IV-7

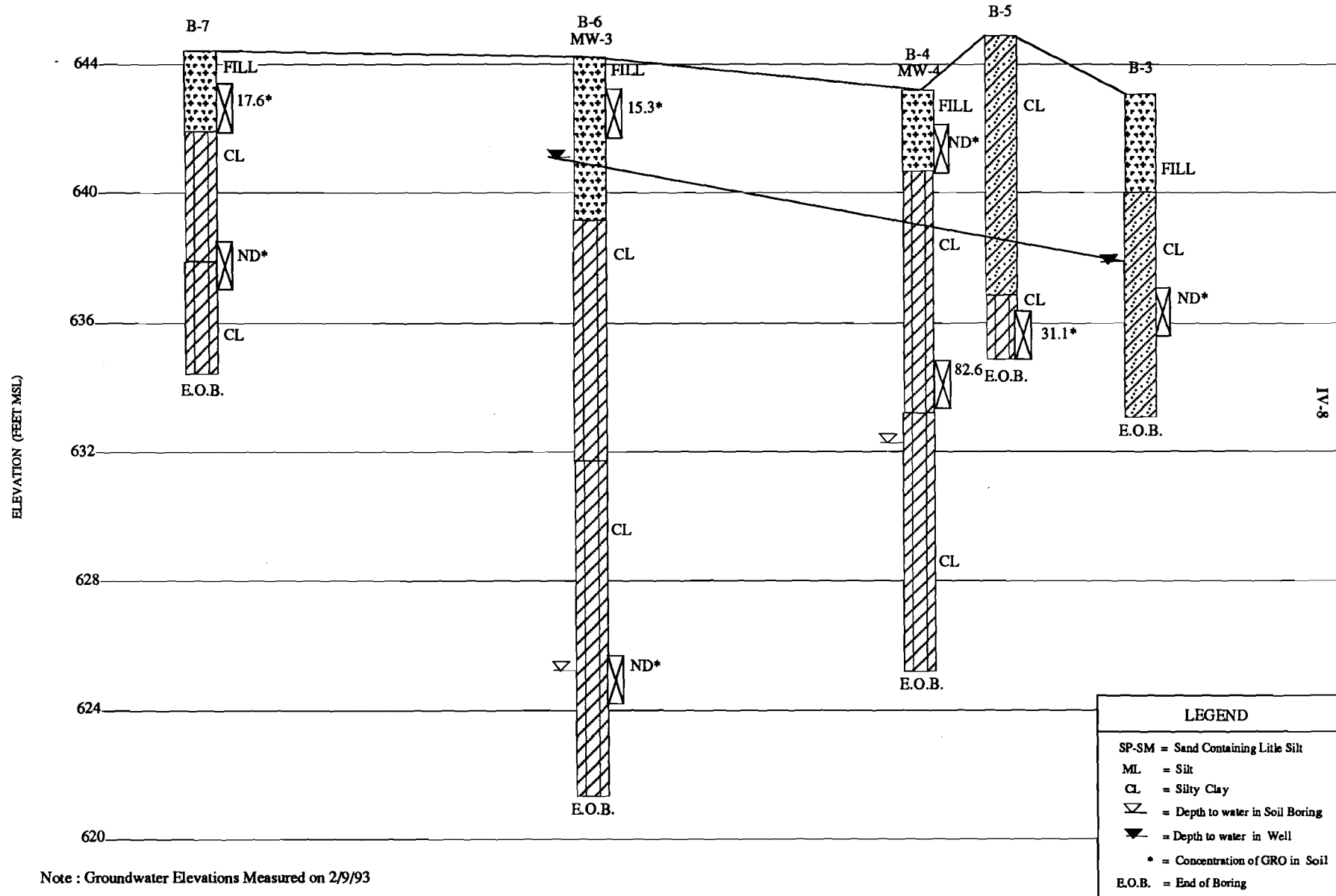
LEGEND	
SP-SM	= Sand Containing Little Silt
ML	= Silt
CL	= Silty Clay
▽	= Depth to water in Soil Boring
▼	= Depth to water in Well
*	= Concentration of GRO in Soil
E.O.B.	= End of Boring

Note : Groundwater Elevations Measured on 2/9/93

OWNER
MIKE'S U.S. STORES
 1975 State Street
 Racine, Wisconsin

ENGINEER
K. SINGH & ASSOCIATES, INC.,
 ENGINEERS & ENVIRONMENTAL MANAGEMENT CONSULTANTS
 1135 LEGION DRIVE, ELM GROVE, WISCONSIN 53122, (414) 821-1171

FIGURE 5. Geologic Section "B-B"				
January 11, 1993	DRAWN BY C.S.S.	REVISIONS BY	DATE	PROJECT NO.
HORIZONTAL SCALE 0" 12.5' 25'	CHECKED BY V. L. S.	K. S.	1/11/93	2097
		K. S.	1/11/93	SHEET NO. ONE



8-11

OWNER
MIKE'S U.S. STORES
 1975 State Street
 Racine, Wisconsin

ENGINEER
K. SINGH & ASSOCIATES, INC.,
 ENGINEERS & ENVIRONMENTAL MANAGEMENT CONSULTANTS
 1135 LEGION DRIVE, ELM GROVE, WISCONSIN 53122, (414) 821-1171

FIGURE 6. Geologic Section "C-C"

March 9, 1993	DRAWN BY C.S.S.	REVISIONS BY	DATE	PROJECT NO.
HORIZONTAL SCALE 12.5' 25'	CHECKED BY V. L. S.	K. S.	3/9/93	2097
		K. S.	3/9/93	SHEET NO. ONE



K. SINGH & ASSOCIATES, INC.

Engineers, Scientists and Environmental Management Consultants

May 4, 2005

Ms. Roxanne Kaminski
Engineering Department
City of Racine
730 Washington Avenue, Room 304
Racine, WI 53403

Project #2097

Subject: Notification of Residual Contamination within Right-of Way of State Street along Mike's U. S. Stores, 1975 State Street, Racine, WI (BRRTS #03-52-002262)

Dear Ms. Kaminski:

The purpose of this letter is to notify City of Racine regarding potential residual petroleum contamination in soil within the right-of-way of State Street along Mike's U. S. Stores, 1975 State Street, Racine, WI.

Elevated benzene concentration was noted in soil samples N-13, N-3, N-9, and N-12 at a depth varying from 3 to 12 feet below ground surface from northeast wall of the area excavated during soil remediation (refer to Figure 1). Soil quality test results are included in Table 1. Elevated level of petroleum contamination in these soil samples indicates that there is a potential for residual contamination within right-of-way of State Street.

We notify the above details for your information and records. It is our understanding that the residual contamination will be remediated by natural attenuation. Please call us if you have any questions regarding this submittal.

Sincerely,

K. SINGH & ASSOCIATES, INC.

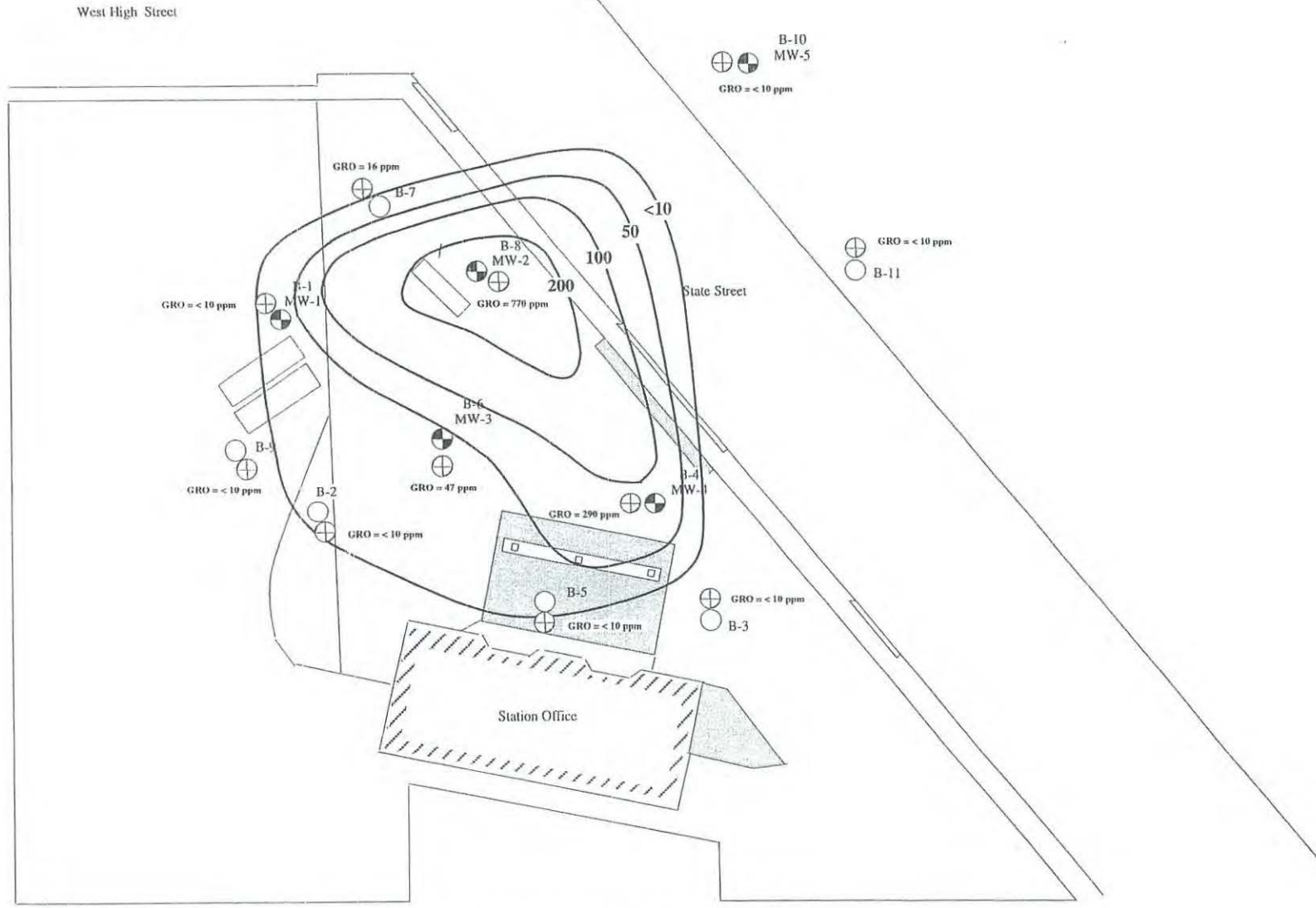
Mukesh Kumar Jain
Mukesh K. Jain, Ph.D.
Project Engineer

Pratap N. Singh, Ph.D., P.E.
Project Manager

cc: Mr. Satish Bhardwaj / Vishal Investments LLC, 1975 State Street, Racine, WI



I-5



Note:
 Confirmatory soil borings were performed on October 15, 1993
 GRO concentration written near soil borings indicate the concentration determined on October 15, 1993 sampling.
 GRO Plume of Contamination is taken from the Remedial Investigation Report submitted in May 1993.

LEGEND	
	Confirmatory Soil Boring
	Test Boring Location
	Monitoring Well Location
-10-	GRO Concentration in Soil

Owner
MIKE'S U.S. STORES
 1975 State Street
 Racine, Wisconsin

Engineer
K. SINGH & ASSOCIATES, INC.
 Engineers & Environmental Management Consultants
 1135 Legion Drive, Elm Grove, Wisconsin 53122, (414) 821-1171

Figure 3. GRO Plume of Contamination				
DATE	DRAWN BY	REVISIONS BY	DATE	PROJECT NO.
March 9, 1993	C.S.S			2097
SCALE		CHECKED BY	C.S. S.	SHEET NO.
0 25 50'		P.N. S.	C.S. S.	ONE
			3/9/93	
			3/9/93	

[Petroleum Programs Home](#)
[Search Instructions](#)
[Search by Tank ID](#)
[Search by Site, Owner, or Tank Characteristics](#)

Tank List

Searching for:

Street address = 1975

County Code = 51


Number of matching records: 6

Type	ID	Facility ID	Address	Status	Contents	Size (gals)	Cust ID	Owner
County: RACINE, FDID: 5101 - Racine, Municipality: CITY OF RACINE								
1. UST	329913	111453	1975 STATE ST	Closed/Removed	Empty	550	344888	MIKE ERICKSON
2. UST	329914	111453	1975 STATE ST	Closed/Removed	Waste/Used Motor Oil	550	344888	MIKE ERICKSON
3. UST	329915	111453	1975 STATE ST	Closed Filled With Inert Material	Sand/Gravel/Slurry	14000	344888	MIKE ERICKSON
4. UST	329436	111432	1975 STATE ST	In Use	Unleaded Gasoline	10000	377531	VISHAL ROAD RUNNER EXPRESS
5. UST	329437	111432	1975 STATE ST	In Use	Unleaded Gasoline	10000	377531	VISHAL ROAD RUNNER EXPRESS
6. UST	329438	133658	1975 STATE ST	Closed/Removed	Unleaded Gasoline	4000	344134	MICHAEL ERICKSON


[Close this response window](#)

Appendix B


Phase 2.5 Soil Boring Logs and Borehole Abandonment Forms

TRC Project No: 204154.0000.0000		Route To: Remediation/Redevelopment		Page 1 of 1										
Facility/Project Name STH 38 (aka Northwestern Ave.)			License/Permit/Monitoring Number		Boring Number GP - 1									
Boring Drilled By: Name of crew chief (first, Last) and Firm First Name: Dan Last Name: Bendorf Firm: Probe Technologies		Date Started 6/18/2013	Date Completed 6/18/2013	Drilling Method Direct Push										
WI Unique Well No.		Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2"									
Local Grid Origin (Estimated:) or Boring Location State Plane: SW 1/4 of NE 1/4 of Section 8, T 3 N, R 23 E			Local Grid Location Lat _____ o _____ ' _____ " N Long _____ o _____ ' _____ " E _____ Feet N _____ Feet E _____ Feet S _____ Feet W											
Facility ID		County Racine	County Code	Civil Town/City/ or Village Racine										
Sample Number	Length (in) Recovered	Blow Counts	Depth in Feet [Below Ground Surface]	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID Reading	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	24		2	Concrete, gravel fill				0.3						
	24		4	Silt Till, subangular 0.25" diameter clasts, some clay <15%, no stains/odors, semi-cohesive, moist, yellowish brown				0.4						Soils Sampled For Laboratory Analysis
2	24		6	Clayey Silt Till, subrounded 0.25" diameter clasts no stains/odors, semi-moist, cohesive, semi-plastic, grayish brown				0.7						Soils Sampled For Laboratory Analysis
	24		8					0.1						
3	24		10					0.2						
EOB @ 10' bgs Borehole abandoned on 6/18/13														
I hereby certify that the information on this form is true and correct to the best of my knowledge.														
Signature 										Firm TRC Environmental Corporation Brookfield, WI				


Created by: D. Heeter 7/3/13
Checked by: B. Bergmann 7/5/13

TRC Project No: 204154.0000.0000		Route To: Remediation/Redevelopment		Page 1 of 1										
Facility/Project Name STH 38 (aka Northwestern Ave.)			License/Permit/Monitoring Number		Boring Number GP - 2									
Boring Drilled By: Name of crew chief (first, Last) and Firm First Name: Dan Last Name: Bendorf Firm: Probe Technologies			Date Started 6/18/2013	Date Completed 6/18/2013	Drilling Method Direct Push									
WI Unique Well No.		Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2"									
Local Grid Origin (Estimated:) or Boring Location State Plane: SW 1/4 of NE 1/4 of Section 8, T 3 N, R 23 E			Local Grid Location Lat _____ o _____ ' _____ " N Long _____ o _____ ' _____ " E _____ Feet S _____ Feet E											
Facility ID		County Racine	County Code	Civil Town/City/ or Village Racine										
Sample Number	Length (in) Recovered	Blow Counts	Depth in Feet [Below Ground Surface]	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID Reading	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	20		2	Topsoil, organic material				0.1						
	20		4	Clayey Silt Till, semi-cohesive, semi-plastic, no stains/odors, subrounded 0.25" diameter clasts, stiff, dry, yellowish brown				0.4						Soils Sampled For Laboratory Analysis
2	24		6					0.6						Soils Sampled For Laboratory Analysis
	24		8					0.2						
3	24		10					0.3						
EOB @ 10' bgs Borehole abandoned on 6/18/13														
I hereby certify that the information on this form is true and correct to the best of my knowledge.														
Signature 										Firm TRC Environmental Corporation Brookfield, WI				


Created by: D. Heeter 7/3/13
Checked by: B. Bergmann 7/5/13

TRC Project No: 204154.0000.0000		Route To: Remediation/Redevelopment		Page 1 of 1										
Facility/Project Name STH 38 (aka Northwestern Ave.)			License/Permit/Monitoring Number		Boring Number GP - 3									
Boring Drilled By: Name of crew chief (first, Last) and Firm First Name: Dan Last Name: Bendorf Firm: Probe Technologies		Date Started 6/18/2013	Date Completed 6/18/2013	Drilling Method Direct Push										
WI Unique Well No.		Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2"									
Local Grid Origin (Estimated:) or Boring Location State Plane: SW 1/4 of NE 1/4 of Section 8, T 3 N, R 23 E			Local Grid Location Lat _____ N _____ W Long _____ o _____ ' _____ " _____ " E _____ Feet S _____ Feet W											
Facility ID		County Racine	County Code	Civil Town/City/ or Village Racine										
Sample Number	Length (In) Recovered	Blow Counts	Depth in Feet [Below Ground Surface]	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID Reading	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	24		2	Concrete, gravel fill				0.7						
	24		4	Clayey Silt Till, hard, no stains/odors, subrounded clasts up to 0.5" diameter, cohesive, dry, yellowish brown				0.9						
2	24		6	no staining or odors				17.6					Soils Sampled For Laboratory Analysis	
	24		8	wet ~8' or 9' bgs				3.6						
3	24		10					0.7					Soils Sampled For Laboratory Analysis	
EOB @ 10' bgs														
Temporary well installed, screened from 5'-10' bgs														
Groundwater was sampled for laboratory analysis on 6/25/13 and the temporary well and borehole were abandoned on 6/25/13														
I hereby certify that the information on this form is true and correct to the best of my knowledge.														
Signature 					Firm TRC Environmental Corporation Brookfield, WI									


Created by: D. Heeter 7/3/13
Checked by: B. Bergmann 7/5/13

TRC Project No: 204154.0000.0000		Route To: Remediation/Redevelopment		Page 1 of 1										
Facility/Project Name STH 38 (aka Northwestern Ave.)			License/Permit/Monitoring Number		Boring Number GP - 4									
Boring Drilled By: Name of crew chief (first, Last) and Firm First Name: Dan Last Name: Bendorf Firm: Probe Technologies		Date Started 6/25/2013	Date Completed 6/25/2013	Drilling Method Direct Push										
WI Unique Well No.		Well Name	Final Static Water Level	Surface Elevation -	Borehole Diameter 2"									
Local Grid Origin (Estimated:) or Boring Location State Plane: SE 1/4 of NW 1/4 of Section 8, T 3 N, R 23 E			Local Grid Location Lat _____ o _____ ' _____ " N Long _____ o _____ ' _____ " E _____ Feet N _____ Feet E _____ Feet S _____ Feet W											
Facility ID		County Racine	County Code	Civil Town/City/ or Village Racine										
Sample Number	Length (in) Recovered	Blow Counts	Depth in Feet [Below Ground Surface]	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID Reading	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	20		2	Topsoil				0.0						
	20		4	Sandy Clayey Silt, some gravel (<10% by volume), no stains/odors, cohesive, firm, dry, yellowish brown				0.2						Soils Sampled For Laboratory Analysis
2	24		6					0.7						Soils Sampled For Laboratory Analysis
	24		8					0.1						
3	24		10					0.1						
EOB @ 10' bgs														
Temporary well installed, screened 5'-10' bgs														
Temporary well installed and screened from 5'-10', but no water was sampled, temporary well and borehole were abandoned on 6/25/13														
I hereby certify that the information on this form is true and correct to the best of my knowledge.														
Signature 										Firm TRC Environmental Corporation Brookfield, WI				

Created by: D. Heeter 7/3/13
Checked by: B. Bergmann 7/5/13

TRC Project No: 204154.0000.0000		Route To: Remediation/Redevelopment		Page 1 of 1										
Facility/Project Name STH 38 (aka Northwestern Ave.)			License/Permit/Monitoring Number		Boring Number GP - 5									
Boring Drilled By: Name of crew chief (first, Last) and Firm First Name: Dan Last Name: Bendorf Firm: Probe Technologies		Date Started 6/25/2013	Date Completed 6/25/2013	Drilling Method Direct Push										
WI Unique Well No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2"										
Local Grid Origin (Estimated:) or Boring Location State Plane: SE 1/4 of NW 1/4 of Section 8, T 3 N, R 23 E			Local Grid Location Lat _____ o _____ ' _____ " N Long _____ o _____ ' _____ " E _____ Feet N _____ Feet E _____ Feet S _____ Feet W											
Facility ID		County Racine	County Code	Civil Town/City/ or Village Racine										
Sample Number	Length (in) Recovered	Blow Counts	Depth in Feet [Below Ground Surface]	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID Reading	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	20		2	Topsoil				0.0						
	20		4	Clayey Sandy Silt, some gravel (<10% by volume), no stains/odors, cohesive, firm, dry, yellowish brown				0.1						Soils Sampled For Laboratory Analysis
2	20		6					0.0						
	20		8	Clayey Silt Till, subrounded 0.25" diameter clasts, stiff, cohesive, semi-plastic, no stains/odors, rust-colored mottling, yellowish brown				0.2						Soils Sampled For Laboratory Analysis
3	24		10					0.0						
EOB @ 10' bgs Borehole abandoned on 6/25/13														
I hereby certify that the information on this form is true and correct to the best of my knowledge.														
Signature 					Firm TRC Environmental Corporation Brookfield, WI									

Created by: D. Heeter 7/3/13
Checked by: B. Bergmann 7/5/13

TRC Project No: 204154.0000.0000		Route To: Remediation/Redevelopment		Page 1 of 1										
Facility/Project Name STH 38 (aka Northwestern Ave.)			License/Permit/Monitoring Number		Boring Number GP - 6									
Boring Drilled By: Name of crew chief (first, Last) and Firm First Name: Dan Last Name: Bendorf Firm: Probe Technologies			Date Started 6/25/2013	Date Completed 6/25/2013	Drilling Method Direct Push									
WI Unique Well No.		Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2"									
Local Grid Origin (Estimated:) or Boring Location State Plane: SE 1/4 of NW 1/4 of Section 8, T 3 N, R 23 E			Lat o ' "	Local Grid Location N E S Feet W										
Facility ID		County Racine	County Code	Civil Town/City/ or Village Racine										
Sample Number	Length (in) Recovered	Blow Counts	Depth in Feet [Below Ground Surface]	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID Reading	Soil Properties				RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index		P 200
1	20		2	Topsoil				0.0						
	20		4	Clayey Sandy Silt, some gravel fragments (<10% by volume), no stains/odors, semi-moist, cohesive, firm, yellowish brown, silt increasing with depth				0.3						Soils Sampled For Laboratory Analysis
2	24		6					0.2						Soils Sampled For Laboratory Analysis
	24		8					0.0						
3	24		10					0.0						
EOB @ 10' bgs Borehole abandoned on 6/25/13														
I hereby certify that the information on this form is true and correct to the best of my knowledge.														
Signature 										Firm TRC Environmental Corporation Brookfield, WI				

Created by: D. Heeter 7/3/13
Checked by: B. Bergmann 7/5/13

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other:

1. General Information **2. Facility / Owner Information**

WI Unique Well No.		DNR Well ID No.		County RACINE		Facility Name WIS DOT PHASE 2.5 STH 38	
Common Well Name GP-1		Gov't Lot # (if applicable)		Facility ID		License/Permit/Monitoring No.	
¼ / ¼ SW	¼ NE	Section 8	Township 3 N	Range 23	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Street Address of Well 1732 STATE ST.	
Well Location <input type="checkbox"/> ft. / <input type="checkbox"/> M (Local Grid <input type="checkbox"/>)		Datum		City Village or Town RACINE		Present Well Owner	
Zone N / S		Zone E / W		Original Well Owner		Street Address or Route of Present Owner	
WTM- <input type="checkbox"/> UTM- <input type="checkbox"/> Latitude/Longitude- <input type="checkbox"/> State Plane- <input type="checkbox"/> <input type="checkbox"/> S <input type="checkbox"/> C <input type="checkbox"/> N		Local Grid Origin <input type="checkbox"/> ft. / <input type="checkbox"/> M		Datum		City	
Zone N		Zone E / W		State		ZIP Code	
WTM- <input type="checkbox"/> UTM- <input type="checkbox"/> Latitude/Longitude- <input type="checkbox"/> State Plane- <input type="checkbox"/> <input type="checkbox"/> S <input type="checkbox"/> C <input type="checkbox"/> N		Reason For Abandonment SOIL BORING		WI Unique Well No. of Replacement Well		4. Pump, Liner, Screen, Casing & Sealing Material	

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date 6-18-13
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.
<input checked="" type="checkbox"/> Borehole / Drillhole	

Construction Type:

Drilled Driven (Sandpoint) Dug

Other (specify): **DIRECT PUSH**

Formation Type:

Unconsolidated Formation Bedrock

Total Well Depth From Groundsurface (ft.) 10	Casing Diameter (in.) 2.25
Lower Drillhole Diameter (in.)	Casing Depth (ft.)

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet) _____

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, ³ sacks Sealant or Volume (Circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	10	1/2	

6. Comments

7. Supervision of Work		DNR Use Only	
Name of Person or Firm Doing Sealing Work PROSE TECHNOLOGIES, INC.	Date of Abandonment 6/18/13	Date Received	Noted By
Street or Route W1225 SOUTH SHORE DR.	Telephone Number (262) 495-2319	Comments	
City PALMYRA	State WI	ZIP Code 53156	Signature of Person Doing Work <i>[Signature]</i>
			Date Signed 7/16/13

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to:

Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other: _____

1. General Information

WI Unique Well No. _____ DNR Well ID No. _____ County **RACINE**

Common Well Name **GP-2** Gov't Lot # (if applicable) _____

1/4 1/4 Section Township Range E W
SW NE 8 3 N 23

Well Location ft. / M (Local Grid) Datum _____
 N / S E / W

WTM- UTM- Latitude/Longitude- State Plane- S C N

Local Grid Origin ft. / M Datum _____
 N, E / W

WTM- UTM- Latitude/Longitude- State Plane- S C N

2. Facility / Owner Information

Facility Name **WIS DOT - PHASE 2.5 STA 38**

Facility ID _____ License/Permit/Monitoring No. _____

Street Address of Well **1732 STATE ST.**

City, Village or Town **RACINE**

Present Well Owner _____ Original Well Owner _____

Street Address or Route of Present Owner _____

City _____ State _____ ZIP Code _____

Reason For Abandonment

Soil Boring WI Unique Well No. of Replacement Well _____

3. Well / Drillhole / Borehole Information

Monitoring Well Water Well Borehole / Drillhole

Original Construction Date **6-18-13**

If a Well Construction Report is available, please attach. _____

Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (specify): **DIRECT PUSH**

Formation Type:
 Unconsolidated Formation Bedrock

Total Well Depth From Groundsurface (ft.) **10** Casing Diameter (in.) **2.25**

Lower Drillhole Diameter (in.) _____ Casing Depth (ft.) _____

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet) _____

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? Yes No N/A

Liner(s) removed? Yes No N/A

Screen removed? Yes No N/A

Casing left in place? Yes No N/A

Was casing cut off below surface? Yes No N/A

Did sealing material rise to surface? Yes No N/A

Did material settle after 24 hours? Yes No N/A

If yes, was hole retopped? Yes No N/A

If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Required Method of Placing Sealing Material
 Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): _____

Sealing Materials
 Neat Cement Grout Clay-Sand Slurry (11 lb./gal. wt.)
 Sand-Cement (Concrete) Grout Bentonite-Sand Slurry " "
 Concrete Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
 Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (Circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	10	1/2	

6. Comments

7. Supervision of Work

Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Sealing Work PROSE TECHNOLOGIES, INC.	Date of Abandonment 6/18/13	Date Received	Noted By	
Street or Route W1225 SOUTH STORE DR	Telephone Number (262) 495-2319	Comments		
City PALMYRA	State WI	ZIP Code 53156	Signature of Person Doing Work <i>[Signature]</i>	Date Signed 7/16/13

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

<input type="checkbox"/> Verification Only of Fill and Seal	Route to:		
	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Watershed/Wastewater	<input type="checkbox"/> Remediation/Redevelopment
	<input type="checkbox"/> Waste Management	<input type="checkbox"/> Other: _____	

1. Well Location Information				2. Facility / Owner Information			
County <i>Racine</i>		WI Unique Well # of Removed Well <i>GP-3</i>		Hicap #		Facility Name <i>WisDOT-Phase 25 STA 38</i>	
Latitude / Longitude (Degrees and Minutes) ____ ° ____ ' N ____ ° ____ ' W		Method Code (see instructions)		Facility ID (FID or PWS)		License/Permit/Monitoring #	
1/4 SW 1/4 NE or Gov't Lot #		Section <i>8</i>	Township <i>3 N</i>	Range <i>23</i>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Original Well Owner	
Well Street Address				Present Well Owner			
Well City, Village or Town				Mailing Address of Present Owner			
Subdivision Name				City of Present Owner		State	ZIP Code
Reason For Removal From Service <i>Soil Boring</i>		WI Unique Well # of Replacement Well		4. Pump, Liner, Screen, Casing & Sealing Material			

3. Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Original Construction Date (mm/dd/yyyy) <i>06/18/2013</i> If a Well Construction Report is available, please attach.		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <i>Direct Push</i>		Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		For Monitoring Wells and Monitoring Well Boreholes Only: <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	
Total Well Depth From Ground Surface (ft.) <i>10</i>		Casing Diameter (in.) <i>2.25</i>	
Lower Drillhole Diameter (in.)		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Depth to Water (feet)	

5. Material Used To Fill Well / Drillhole			
<i>Bentonite Chips</i>	From (ft.) Surface	To (ft.) <i>10</i>	No. Yards, Sacks Sealant or Volume (circle one) <i>1/2</i>
			Mix Ratio or Mud Weight

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <i>TRC Environmental Corp.</i>		License #	Date of Filling & Sealing (mm/dd/yyyy) <i>06/25/2013</i>	Date Received	Noted By
Street or Route <i>150 N. Patrick Blvd., Suite 180</i>			Telephone Number <i>(262) 879-1212</i>	Comments	
City <i>Brookfield</i>	State <i>WI</i>	ZIP Code <i>53045</i>	Signature of Person Doing Work <i>[Signature]</i>	Date Signed	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other: _____

1. General Information				2. Facility / Owner Information			
WI Unique Well No. _____		DNR Well ID No. _____		County RACINE		Facility Name WIS DOT - PHASE 2.5 STA 38	
Common Well Name GP-4		Gov't Lot # (if applicable) _____		Facility ID _____		License/Permit/Monitoring No. _____	
1/4	1/4	Section	Township	Range	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Street Address of Well NORTHWESTERN AVE + W. HIGH ST.	
SE	NW	8	3	N 23		City/Village or Town RACINE	
Well Location <input type="checkbox"/> R / <input type="checkbox"/> M (Local Grid <input type="checkbox"/>)				Datum _____			
_____ N / S _____				_____ E / W _____			
Zone WTM- <input type="checkbox"/> UTM- <input type="checkbox"/> Latitude/Longitude- <input type="checkbox"/> State Plane- <input type="checkbox"/> <input type="checkbox"/> S <input type="checkbox"/> C <input type="checkbox"/> N				Present Well Owner _____ Original Well Owner _____			
Local Grid Origin <input type="checkbox"/> R / <input type="checkbox"/> M				Street Address or Route of Present Owner _____			
_____ N, _____				City _____ State _____ ZIP Code _____			
Zone WTM- <input type="checkbox"/> UTM- <input type="checkbox"/> Latitude/Longitude- <input type="checkbox"/> State Plane- <input type="checkbox"/> <input type="checkbox"/> S <input type="checkbox"/> C <input type="checkbox"/> N							

Reason For Abandonment **SOIL BORING** WI Unique Well No. of Replacement Well _____

3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well		Original Construction Date 6-25-13		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.		Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Borehole / Drillhole				Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Construction Type:				Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
<input type="checkbox"/> Drilled		<input type="checkbox"/> Driven (Sandpoint)		<input type="checkbox"/> Dug		If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Other (specify): DIRECT PUSH				If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Formation Type:				Required Method of Placing Sealing Material			
<input checked="" type="checkbox"/> Unconsolidated Formation		<input type="checkbox"/> Bedrock		<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
Total Well Depth From Groundsurface (ft.) 10		Casing Diameter (in.) 2.25		<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)		<input type="checkbox"/> Other (Explain): _____	
Lower Drillhole Diameter (in.) _____		Casing Depth (ft.) _____		Sealing Materials			
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
If yes, to what depth (feet)? _____		Depth to Water (feet) _____		<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
				<input type="checkbox"/> Concrete		<input checked="" type="checkbox"/> Bentonite Chips	
				For Monitoring Wells and Monitoring Well Boreholes Only:			
				<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
				<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used To Fill Well / Drillhole				From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (Circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS				Surface	10	1/2	

6. Comments

7. Supervision of Work				DNR Use Only			
Name of Person or Firm Doing Sealing Work PROSE TECHNOLOGIES, INC.		Date of Abandonment 6/25/13		Date Received		Noted By	
Street or Route W1225 SOUTH SHORE DR.		Telephone Number (262) 995-2319		Comments			
City PALMYRA	State WI	ZIP Code 53156	Signature of Person Doing Work <i>[Signature]</i>		Date Signed 7/16/13		

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to:

Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other: _____

1. General Information

WI Unique Well No. _____ DNR Well ID No. _____ County **RACINE**

Common Well Name **GP-5** Gov't Lot # (if applicable) _____

1/4 1/4 Section Township Range E W
SE NW 8 3 N 23

Well Location (Local Grid) Datum _____
 _____ (N/S) _____ (E/W)

WTM- UTM- Latitude/Longitude- State Plane- S C N

Local Grid Origin (R/M) Datum _____
 _____ N. _____ (E/W)

WTM- UTM- Latitude/Longitude- State Plane- S C N

2. Facility / Owner Information

Facility Name **WIS DOT - PHASE 2.5 STA 38**

Facility ID _____ License/Permit/Monitoring No. _____

Street Address of Well **NORTHWESTERN AVE + W. HIGH ST.**

City Village or Town **RACINE**

Present Well Owner _____ Original Well Owner _____

Street Address or Route of Present Owner _____

City _____ State _____ ZIP Code _____

Reason For Abandonment **SOIL BORING** WI Unique Well No. of Replacement Well _____

3. Well / Drillhole / Borehole Information

Monitoring Well Water Well Borehole / Drillhole

Original Construction Date **6-18-13**

If a Well Construction Report is available, please attach. _____

Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (specify): **DIRECT PUSH**

Formation Type:
 Unconsolidated Formation Bedrock

Total Well Depth From Groundsurface (ft.) **10** Casing Diameter (in.) **2.25**

Lower Drillhole Diameter (in.) _____ Casing Depth (ft.) _____

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet) _____

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? Yes No N/A

Liner(s) removed? Yes No N/A

Screen removed? Yes No N/A

Casing left in place? Yes No N/A

Was casing cut off below surface? Yes No N/A

Did sealing material rise to surface? Yes No N/A

Did material settle after 24 hours? Yes No N/A

If yes, was hole retopped? Yes No N/A

If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Required Method of Placing Sealing Material
 Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): _____

Sealing Materials
 Neat Cement Grout Clay-Sand Slurry (11 lb./gal. wt.)
 Sand-Cement (Concrete) Grout Bentonite-Sand Slurry " "
 Concrete Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
 Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Bags Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	10	1/2	

6. Comments

7. Supervision of Work

Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Sealing Work PROSE TECHNOLOGICS, INC.	Date of Abandonment 6/18/13	Date Received	Noted By	
Street or Route W1225 SOUTH SHORE DR	Telephone Number (262) 495-2319	Comments		
City PALMYRA	State WI	ZIP Code 53156	Signature of Person Doing Work <i>[Signature]</i>	Date Signed 7/16/13

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to:

Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other: _____

1. General Information

WI Unique Well No. _____ DNR Well ID No. _____ County **RACINE**

Common Well Name **GP-6** Gov't Lot # (if applicable) _____

1/4 / 1/4 **SE NW** Section **8** Township **3 N** Range **23** E W

Well Location L / M (Local Grid) Datum _____

_____ N / S _____ E / W

Zone
 WTM- UTM- Latitude/Longitude- State Plane- G C N

Local Grid Origin L / M Datum _____

_____ N, _____ E / W

Zone
 WTM- UTM- Latitude/Longitude- State Plane- S C N

2. Facility / Owner Information

Facility Name **WIS DOT - PHASE 2.5 STA 38**

Facility ID _____ License/Permit/Monitoring No. _____

Street Address of Well **NORTHWESTERN AVE + W. HEIT ST.**

City, Village or Town **RACINE**

Present Well Owner _____ Original Well Owner _____

Street Address or Route of Present Owner _____

City _____ State _____ ZIP Code _____

Reason For Abandonment **SOIL BORING** WI Unique Well No. of Replacement Well _____

3. Well / Drillhole / Borehole Information

Monitoring Well Water Well Borehole / Drillhole

Original Construction Date **6-18-13**

If a Well Construction Report is available, please attach. _____

Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (specify): **DIRECT PUSH**

Formation Type:
 Unconsolidated Formation Bedrock

Total Well Depth From Groundsurface (ft.) **10** Casing Diameter (in.) **2.25**

Lower Drillhole Diameter (in.) _____ Casing Depth (ft.) _____

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet) _____

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? Yes No N/A

Liner(s) removed? Yes No N/A

Screen removed? Yes No N/A

Casing left in place? Yes No N/A

Was casing cut off below surface? Yes No N/A

Did sealing material rise to surface? Yes No N/A

Did material settle after 24 hours? Yes No N/A

If yes, was hole retopped? Yes No N/A

If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Required Method of Placing Sealing Material
 Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): _____

Sealing Materials
 Neat Cement Grout Clay-Sand Slurry (11 lb./gal. wt.)
 Sand-Cement (Concrete) Grout Bentonite-Sand Slurry " "
 Concrete Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
 Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (Circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	10	1/2	

6. Comments

7. Supervision of Work

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Sealing Work PROSE TECHNOLOGIES, INC.	Date of Abandonment 6/18/13	Date Received	Noted By		
Street or Route W1225 SOUTH STONE DR	Telephone Number (262) 495-2319	Comments			
City PALMYRA	State WI	ZIP Code 53156	Signature of Person Doing Work <i>[Signature]</i>	Date Signed 7/16/13	

Appendix C Photographs



Photographic Log

Client Name:		Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)		STH 38 (aka Northwestern Avenue), Golf Avenue to Memorial Drive Racine, WI	WisDOT: 2290-17-00 TRC: 204154.0000.0000
Photo No.	Date		
1	6/18/13		
Description			
Looking north at the location of GP-1.			
Photo No.	Date		
2	6/18/13		
Description			
Looking northeast at the location of GP-2.			



Photographic Log


Client Name: Wisconsin Department of Transportation (WisDOT)		Site Location: STH 38 (aka Northwestern Avenue), Golf Avenue to Memorial Drive Racine, WI	Project No.: WisDOT: 2290-17-00 TRC: 204154.0000.0000
Photo No. 3	Date 6/18/13		
Description Looking northeast at the location of GP-3.			


Photo No. 4	Date 6/25/13		
Description Looking southwest at the location of GP-4.			



Photographic Log

Client Name: Wisconsin Department of Transportation (WisDOT)	Site Location: STH 38 (aka Northwestern Avenue), Golf Avenue to Memorial Drive Racine, WI	Project No.: WisDOT: 2290-17-00 TRC: 204154.0000.0000
---	---	--

Photo No.	Date	
5	6/25/13	
Description Looking south at the location of GP-5.		

Photo No.	Date	
6	6/25/13	
Description Looking south at the location of GP-6.		

Appendix D

Laboratory Analytical Report

July 09, 2013

Ken Yass
TRC - Madison
150 North Patrick Blvd.
Suite 180
Brookfield, WI 53045

RE: Project: 204154 STH38 & NORTHWESTERN AV
Pace Project No.: 4080283

Dear Ken Yass:

Enclosed are the analytical results for sample(s) received by the laboratory on June 27, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

cc: Bryan Bergmann, TRC Brookfield
Drew Heeter, TRC Brookfield



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

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 Dakota Certification #: R-150

South Carolina Certification #: 83006001

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

SAMPLE SUMMARY

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4080283001	TRIP BLANK	Water	06/25/13 00:00	06/27/13 10:00
4080283002	GP-1 (2-4)	Solid	06/18/13 00:00	06/27/13 10:00
4080283003	GP-1 (4-6)	Solid	06/18/13 00:00	06/27/13 10:00
4080283004	GP-2 (2-4)	Solid	06/18/13 00:00	06/27/13 10:00
4080283005	GP-2 (4-6)	Solid	06/18/13 00:00	06/27/13 10:00
4080283006	GP-3 (4-6)	Solid	06/18/13 00:00	06/27/13 10:00
4080283007	GP-3 (8-10)	Solid	06/18/13 00:00	06/27/13 10:00
4080283008	GP-4 (2-4)	Solid	06/25/13 00:00	06/27/13 10:00
4080283009	GP-4 (4-6)	Solid	06/25/13 00:00	06/27/13 10:00
4080283010	GP-5 (2-4)	Solid	06/25/13 00:00	06/27/13 10:00
4080283011	GP-5 (6-8)	Solid	06/25/13 00:00	06/27/13 10:00
4080283012	GP-6 (2-4)	Solid	06/25/13 00:00	06/27/13 10:00
4080283013	GP-6 (4-6)	Solid	06/25/13 00:00	06/27/13 10:00
4080283014	GP-3	Water	06/25/13 00:00	06/27/13 10:00

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

SAMPLE ANALYTE COUNT

Project: 204154 STH38 & NORTHWESTERN AV
Pace Project No.: 4080283

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4080283001	TRIP BLANK	EPA 8260	LAP	64	PASI-G
4080283002	GP-1 (2-4)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BLF	1	PASI-G
4080283003	GP-1 (4-6)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BLF	1	PASI-G
4080283004	GP-2 (2-4)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BLF	1	PASI-G
4080283005	GP-2 (4-6)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BLF	1	PASI-G
4080283006	GP-3 (4-6)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BLF	1	PASI-G
4080283007	GP-3 (8-10)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BLF	1	PASI-G
4080283008	GP-4 (2-4)	WI MOD DRO	CAC	1	PASI-G
		WI MOD GRO	LCF	11	PASI-G
		EPA 6010	DLB	1	PASI-G
		ASTM D2974-87	BLF	1	PASI-G
4080283009	GP-4 (4-6)	WI MOD DRO	CAC	1	PASI-G
		WI MOD GRO	LCF	11	PASI-G
		EPA 6010	DLB	1	PASI-G
		ASTM D2974-87	BLF	1	PASI-G
4080283010	GP-5 (2-4)	WI MOD DRO	CAC	1	PASI-G
		WI MOD GRO	LCF	11	PASI-G
		EPA 6010	DLB	1	PASI-G
		ASTM D2974-87	BLF	1	PASI-G
4080283011	GP-5 (6-8)	WI MOD DRO	CAC	1	PASI-G
		WI MOD GRO	LCF	11	PASI-G
		EPA 6010	DLB	1	PASI-G
		ASTM D2974-87	BLF	1	PASI-G
4080283012	GP-6 (2-4)	WI MOD DRO	CAC	1	PASI-G
		WI MOD GRO	LCF	11	PASI-G
		EPA 6010	DLB	1	PASI-G
		ASTM D2974-87	BLF	1	PASI-G
4080283013	GP-6 (4-6)	WI MOD DRO	CAC	1	PASI-G
		WI MOD GRO	LCF	11	PASI-G
		EPA 6010	DLB	1	PASI-G
		ASTM D2974-87	BLF	1	PASI-G

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

SAMPLE ANALYTE COUNT

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4080283014	GP-3	EPA 6010	DLB	7	PASI-G
		EPA 7470	CMS	1	PASI-G
		EPA 8260	LAP	64	PASI-G

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

HITS ONLY

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
4080283002	GP-1 (2-4)					
ASTM D2974-87	Percent Moisture	16.4 %		0.10	07/01/13 17:03	
4080283003	GP-1 (4-6)					
ASTM D2974-87	Percent Moisture	13.7 %		0.10	07/01/13 17:04	
4080283004	GP-2 (2-4)					
ASTM D2974-87	Percent Moisture	17.7 %		0.10	07/01/13 17:04	
4080283005	GP-2 (4-6)					
ASTM D2974-87	Percent Moisture	13.3 %		0.10	07/01/13 17:04	
4080283006	GP-3 (4-6)					
ASTM D2974-87	Percent Moisture	12.9 %		0.10	07/01/13 17:04	
4080283007	GP-3 (8-10)					
EPA 8260	Benzene	234 ug/kg		68.8	06/28/13 16:36	
ASTM D2974-87	Percent Moisture	12.8 %		0.10	07/01/13 17:04	
4080283008	GP-4 (2-4)					
WI MOD DRO	Diesel Range Organics	0.95J mg/kg		2.2	07/01/13 10:41	
EPA 6010	Lead	12.6 mg/kg		1.1	06/28/13 17:52	
ASTM D2974-87	Percent Moisture	17.0 %		0.10	07/01/13 17:04	
4080283009	GP-4 (4-6)					
EPA 6010	Lead	15.5 mg/kg		1.0	06/28/13 17:58	
ASTM D2974-87	Percent Moisture	17.2 %		0.10	07/01/13 17:04	
4080283010	GP-5 (2-4)					
WI MOD DRO	Diesel Range Organics	3.4 mg/kg		2.3	07/01/13 10:53	
EPA 6010	Lead	12.8 mg/kg		1.0	06/28/13 18:01	
ASTM D2974-87	Percent Moisture	12.9 %		0.10	07/01/13 17:04	
4080283011	GP-5 (6-8)					
WI MOD DRO	Diesel Range Organics	1.6J mg/kg		2.1	07/02/13 15:51	L2
EPA 6010	Lead	13.9 mg/kg		1.1	06/28/13 18:03	
ASTM D2974-87	Percent Moisture	12.2 %		0.10	07/01/13 17:04	
4080283012	GP-6 (2-4)					
EPA 6010	Lead	7.7 mg/kg		1.0	06/28/13 18:05	
ASTM D2974-87	Percent Moisture	13.1 %		0.10	07/01/13 17:04	
4080283013	GP-6 (4-6)					
EPA 6010	Lead	5.9 mg/kg		1.1	06/28/13 18:08	
ASTM D2974-87	Percent Moisture	15.0 %		0.10	07/01/13 17:04	
4080283014	GP-3					
EPA 6010	Barium, Dissolved	98.0 ug/L		5.0	07/02/13 14:08	
EPA 6010	Chromium, Dissolved	4.4J ug/L		5.0	07/02/13 14:08	
EPA 6010	Lead, Dissolved	1.5J ug/L		7.5	07/02/13 14:08	
EPA 8260	Benzene	4.7 ug/L		1.0	06/29/13 15:23	
EPA 8260	p-Isopropyltoluene	0.41J ug/L		1.0	06/29/13 15:23	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PROJECT NARRATIVE

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Method: WI MOD DRO

Description: WIDRO GCS

Client: TRC - MILWAUKEE

Date: July 09, 2013

General Information:

6 samples were analyzed for WI MOD DRO. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with WI MOD DRO with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: OEXT/18830

LO: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 816378)
- Diesel Range Organics

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PROJECT NARRATIVE

Project: 204154 STH38 & NORTHWESTERN AV
Pace Project No.: 4080283

Method: WI MOD GRO
Description: WIGRO GCV
Client: TRC - MILWAUKEE
Date: July 09, 2013

General Information:

6 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with TPH GRO/PVOC WI ext. with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PROJECT NARRATIVE

Project: 204154 STH38 & NORTHWESTERN AV
Pace Project No.: 4080283

Method: EPA 6010
Description: 6010 MET ICP
Client: TRC - MILWAUKEE
Date: July 09, 2013

General Information:

6 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PROJECT NARRATIVE

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: TRC - MILWAUKEE

Date: July 09, 2013

General Information:

1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PROJECT NARRATIVE

Project: 204154 STH38 & NORTHWESTERN AV
Pace Project No.: 4080283

Method: EPA 7470
Description: 7470 Mercury, Dissolved
Client: TRC - MILWAUKEE
Date: July 09, 2013

General Information:

1 sample was analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MERP/3726

1q: Filter Blank for samples 4080081001-005.

- BLANK (Lab ID: 815742)
- Mercury, Dissolved

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PROJECT NARRATIVE

Project: 204154 STH38 & NORTHWESTERN AV
Pace Project No.: 4080283

Method: EPA 8260
Description: 8260 MSV Med Level Normal List
Client: TRC - MILWAUKEE
Date: July 09, 2013

General Information:

6 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/20280

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Sample Comments:

Dry weight cup had meltwater in it upon receipt. Water was drained prior to moisture analysis.

- GP-1 (2-4) (Lab ID: 4080283002)

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PROJECT NARRATIVE

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Method: EPA 8260

Description: 8260 MSV

Client: TRC - MILWAUKEE

Date: July 09, 2013

General Information:

2 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Sample: TRIP BLANK **Lab ID: 4080283001** Collected: 06/25/13 00:00 Received: 06/27/13 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		06/29/13 15:00	71-43-2	
Bromobenzene	<0.48	ug/L	1.0	0.48	1		06/29/13 15:00	108-86-1	
Bromochloromethane	<0.49	ug/L	1.0	0.49	1		06/29/13 15:00	74-97-5	
Bromodichloromethane	<0.45	ug/L	1.0	0.45	1		06/29/13 15:00	75-27-4	
Bromoform	<0.23	ug/L	1.0	0.23	1		06/29/13 15:00	75-25-2	
Bromomethane	<0.43	ug/L	5.0	0.43	1		06/29/13 15:00	74-83-9	
n-Butylbenzene	<0.40	ug/L	1.0	0.40	1		06/29/13 15:00	104-51-8	
sec-Butylbenzene	<0.60	ug/L	5.0	0.60	1		06/29/13 15:00	135-98-8	
tert-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/29/13 15:00	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/29/13 15:00	56-23-5	
Chlorobenzene	<0.36	ug/L	1.0	0.36	1		06/29/13 15:00	108-90-7	
Chloroethane	<0.44	ug/L	1.0	0.44	1		06/29/13 15:00	75-00-3	
Chloroform	<0.69	ug/L	5.0	0.69	1		06/29/13 15:00	67-66-3	
Chloromethane	<0.39	ug/L	1.0	0.39	1		06/29/13 15:00	74-87-3	
2-Chlorotoluene	<0.48	ug/L	1.0	0.48	1		06/29/13 15:00	95-49-8	
4-Chlorotoluene	<0.48	ug/L	1.0	0.48	1		06/29/13 15:00	106-43-4	
1,2-Dibromo-3-chloropropane	<1.5	ug/L	5.0	1.5	1		06/29/13 15:00	96-12-8	
Dibromochloromethane	<1.9	ug/L	5.0	1.9	1		06/29/13 15:00	124-48-1	
1,2-Dibromoethane (EDB)	<0.38	ug/L	1.0	0.38	1		06/29/13 15:00	106-93-4	
Dibromomethane	<0.48	ug/L	1.0	0.48	1		06/29/13 15:00	74-95-3	
1,2-Dichlorobenzene	<0.44	ug/L	1.0	0.44	1		06/29/13 15:00	95-50-1	
1,3-Dichlorobenzene	<0.45	ug/L	1.0	0.45	1		06/29/13 15:00	541-73-1	
1,4-Dichlorobenzene	<0.43	ug/L	1.0	0.43	1		06/29/13 15:00	106-46-7	
Dichlorodifluoromethane	<0.40	ug/L	1.0	0.40	1		06/29/13 15:00	75-71-8	
1,1-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/29/13 15:00	75-34-3	
1,2-Dichloroethane	<0.48	ug/L	1.0	0.48	1		06/29/13 15:00	107-06-2	
1,1-Dichloroethene	<0.43	ug/L	1.0	0.43	1		06/29/13 15:00	75-35-4	
cis-1,2-Dichloroethene	<0.42	ug/L	1.0	0.42	1		06/29/13 15:00	156-59-2	
trans-1,2-Dichloroethene	<0.37	ug/L	1.0	0.37	1		06/29/13 15:00	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	1.0	0.50	1		06/29/13 15:00	78-87-5	
1,3-Dichloropropane	<0.46	ug/L	1.0	0.46	1		06/29/13 15:00	142-28-9	
2,2-Dichloropropane	<0.37	ug/L	1.0	0.37	1		06/29/13 15:00	594-20-7	
1,1-Dichloropropene	<0.51	ug/L	1.0	0.51	1		06/29/13 15:00	563-58-6	
cis-1,3-Dichloropropene	<0.29	ug/L	1.0	0.29	1		06/29/13 15:00	10061-01-5	
trans-1,3-Dichloropropene	<0.26	ug/L	1.0	0.26	1		06/29/13 15:00	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		06/29/13 15:00	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		06/29/13 15:00	100-41-4	
Hexachloro-1,3-butadiene	<1.3	ug/L	5.0	1.3	1		06/29/13 15:00	87-68-3	
Isopropylbenzene (Cumene)	<0.34	ug/L	1.0	0.34	1		06/29/13 15:00	98-82-8	
p-Isopropyltoluene	<0.40	ug/L	1.0	0.40	1		06/29/13 15:00	99-87-6	
Methylene Chloride	<0.36	ug/L	1.0	0.36	1		06/29/13 15:00	75-09-2	
Methyl-tert-butyl ether	<0.49	ug/L	1.0	0.49	1		06/29/13 15:00	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		06/29/13 15:00	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		06/29/13 15:00	103-65-1	
Styrene	<0.35	ug/L	1.0	0.35	1		06/29/13 15:00	100-42-5	
1,1,1,2-Tetrachloroethane	<0.45	ug/L	1.0	0.45	1		06/29/13 15:00	630-20-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Sample: TRIP BLANK **Lab ID: 4080283001** Collected: 06/25/13 00:00 Received: 06/27/13 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/29/13 15:00	79-34-5	
Tetrachloroethene	<0.47	ug/L	1.0	0.47	1		06/29/13 15:00	127-18-4	
Toluene	<0.44	ug/L	1.0	0.44	1		06/29/13 15:00	108-88-3	
1,2,3-Trichlorobenzene	<0.77	ug/L	5.0	0.77	1		06/29/13 15:00	87-61-6	
1,2,4-Trichlorobenzene	<2.5	ug/L	5.0	2.5	1		06/29/13 15:00	120-82-1	
1,1,1-Trichloroethane	<0.44	ug/L	1.0	0.44	1		06/29/13 15:00	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/L	1.0	0.39	1		06/29/13 15:00	79-00-5	
Trichloroethene	<0.43	ug/L	1.0	0.43	1		06/29/13 15:00	79-01-6	
Trichlorofluoromethane	<0.48	ug/L	1.0	0.48	1		06/29/13 15:00	75-69-4	
1,2,3-Trichloropropane	<0.47	ug/L	1.0	0.47	1		06/29/13 15:00	96-18-4	
1,2,4-Trimethylbenzene	<0.57	ug/L	5.0	0.57	1		06/29/13 15:00	95-63-6	
1,3,5-Trimethylbenzene	<2.5	ug/L	5.0	2.5	1		06/29/13 15:00	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/29/13 15:00	75-01-4	
m&p-Xylene	<0.82	ug/L	2.0	0.82	1		06/29/13 15:00	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		06/29/13 15:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98 %		43-137		1		06/29/13 15:00	460-00-4	
Dibromofluoromethane (S)	96 %		70-130		1		06/29/13 15:00	1868-53-7	
Toluene-d8 (S)	101 %		55-137		1		06/29/13 15:00	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Sample: GP-1 (2-4) Lab ID: 4080283002 Collected: 06/18/13 00:00 Received: 06/27/13 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	96-18-4	W
1,2,4-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	95-63-6	W
1,2-Dibromo-3-chloropropane	<49.8	ug/kg	250	49.8	1	06/28/13 11:36	06/28/13 15:04	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	75-25-2	W
Bromomethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	108-90-7	W
Chloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	75-00-3	W
Chloroform	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	75-09-2	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	100-42-5	W

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Sample: GP-1 (2-4) **Lab ID: 4080283002** Collected: 06/18/13 00:00 Received: 06/27/13 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	06/28/13 11:36	06/28/13 15:04	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:04	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	106	%	57-130		1	06/28/13 11:36	06/28/13 15:04	1868-53-7	
Toluene-d8 (S)	101	%	54-133		1	06/28/13 11:36	06/28/13 15:04	2037-26-5	
4-Bromofluorobenzene (S)	107	%	49-130		1	06/28/13 11:36	06/28/13 15:04	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	16.4	%	0.10	0.10	1		07/01/13 17:03		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Sample: GP-1 (4-6) Lab ID: 4080283003 Collected: 06/18/13 00:00 Received: 06/27/13 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	96-18-4	W
1,2,4-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	95-63-6	W
1,2-Dibromo-3-chloropropane	<49.8	ug/kg	250	49.8	1	06/28/13 11:36	06/28/13 15:27	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	75-25-2	W
Bromomethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	108-90-7	W
Chloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	75-00-3	W
Chloroform	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	75-09-2	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	100-42-5	W

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Sample: GP-1 (4-6) **Lab ID: 4080283003** Collected: 06/18/13 00:00 Received: 06/27/13 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	06/28/13 11:36	06/28/13 15:27	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:27	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	113	%	57-130		1	06/28/13 11:36	06/28/13 15:27	1868-53-7	
Toluene-d8 (S)	113	%	54-133		1	06/28/13 11:36	06/28/13 15:27	2037-26-5	
4-Bromofluorobenzene (S)	118	%	49-130		1	06/28/13 11:36	06/28/13 15:27	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	13.7	%	0.10	0.10	1		07/01/13 17:04		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Sample: GP-2 (2-4) Lab ID: 4080283004 Collected: 06/18/13 00:00 Received: 06/27/13 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	96-18-4	W
1,2,4-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	95-63-6	W
1,2-Dibromo-3-chloropropane	<49.8	ug/kg	250	49.8	1	06/28/13 11:36	06/28/13 15:50	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	75-25-2	W
Bromomethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	108-90-7	W
Chloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	75-00-3	W
Chloroform	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	75-09-2	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	100-42-5	W

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Sample: GP-2 (2-4) **Lab ID: 4080283004** Collected: 06/18/13 00:00 Received: 06/27/13 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	06/28/13 11:36	06/28/13 15:50	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 15:50	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	105	%	57-130		1	06/28/13 11:36	06/28/13 15:50	1868-53-7	
Toluene-d8 (S)	99	%	54-133		1	06/28/13 11:36	06/28/13 15:50	2037-26-5	
4-Bromofluorobenzene (S)	104	%	49-130		1	06/28/13 11:36	06/28/13 15:50	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	17.7	%	0.10	0.10	1		07/01/13 17:04		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Sample: GP-2 (4-6) Lab ID: 4080283005 Collected: 06/18/13 00:00 Received: 06/27/13 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	96-18-4	W
1,2,4-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	95-63-6	W
1,2-Dibromo-3-chloropropane	<49.8	ug/kg	250	49.8	1	06/28/13 11:36	06/28/13 16:13	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	75-25-2	W
Bromomethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	108-90-7	W
Chloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	75-00-3	W
Chloroform	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	75-09-2	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	100-42-5	W

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Sample: GP-2 (4-6) **Lab ID: 4080283005** Collected: 06/18/13 00:00 Received: 06/27/13 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	06/28/13 11:36	06/28/13 16:13	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:13	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	110	%	57-130		1	06/28/13 11:36	06/28/13 16:13	1868-53-7	
Toluene-d8 (S)	103	%	54-133		1	06/28/13 11:36	06/28/13 16:13	2037-26-5	
4-Bromofluorobenzene (S)	106	%	49-130		1	06/28/13 11:36	06/28/13 16:13	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	13.3	%	0.10	0.10	1		07/01/13 17:04		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Sample: GP-3 (4-6) Lab ID: 4080283006 Collected: 06/18/13 00:00 Received: 06/27/13 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	96-18-4	W
1,2,4-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	95-63-6	W
1,2-Dibromo-3-chloropropane	<49.8	ug/kg	250	49.8	1	06/28/13 11:36	07/01/13 11:30	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	75-25-2	W
Bromomethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	108-90-7	W
Chloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	75-00-3	W
Chloroform	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	75-09-2	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	100-42-5	W

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Sample: GP-3 (4-6) **Lab ID: 4080283006** Collected: 06/18/13 00:00 Received: 06/27/13 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	06/28/13 11:36	07/01/13 11:30	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	07/01/13 11:30	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	101	%	57-130		1	06/28/13 11:36	07/01/13 11:30	1868-53-7	
Toluene-d8 (S)	96	%	54-133		1	06/28/13 11:36	07/01/13 11:30	2037-26-5	
4-Bromofluorobenzene (S)	93	%	49-130		1	06/28/13 11:36	07/01/13 11:30	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.9	%	0.10	0.10	1		07/01/13 17:04		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Sample: GP-3 (8-10) Lab ID: 4080283007 Collected: 06/18/13 00:00 Received: 06/27/13 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	96-18-4	W
1,2,4-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	95-63-6	W
1,2-Dibromo-3-chloropropane	<49.8	ug/kg	250	49.8	1	06/28/13 11:36	06/28/13 16:36	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	106-43-4	W
Benzene	234	ug/kg	68.8	28.7	1	06/28/13 11:36	06/28/13 16:36	71-43-2	
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	75-25-2	W
Bromomethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	108-90-7	W
Chloroethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	75-00-3	W
Chloroform	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	75-09-2	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	100-42-5	W

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 204154 STH38 & NORTHWESTERN AV
Pace Project No.: 4080283

Sample: GP-3 (8-10) **Lab ID: 4080283007** Collected: 06/18/13 00:00 Received: 06/27/13 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	06/28/13 11:36	06/28/13 16:36	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	06/28/13 11:36	06/28/13 16:36	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	99 %		57-130		1	06/28/13 11:36	06/28/13 16:36	1868-53-7	
Toluene-d8 (S)	101 %		54-133		1	06/28/13 11:36	06/28/13 16:36	2037-26-5	
4-Bromofluorobenzene (S)	103 %		49-130		1	06/28/13 11:36	06/28/13 16:36	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.8 %		0.10	0.10	1		07/01/13 17:04		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Sample: GP-4 (2-4) **Lab ID: 4080283008** Collected: 06/25/13 00:00 Received: 06/27/13 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	0.95J	mg/kg	2.2	0.89	1	06/28/13 07:41	07/01/13 10:41		
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	< 25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 11:16	71-43-2	W
Ethylbenzene	< 25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 11:16	100-41-4	W
Gasoline Range Organics	< 3.0	mg/kg	3.0	3.0	1	06/28/13 10:58	06/28/13 11:16		
Methyl-tert-butyl ether	< 25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 11:16	1634-04-4	W
Naphthalene	< 25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 11:16	91-20-3	W
Toluene	< 25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 11:16	108-88-3	W
1,2,4-Trimethylbenzene	< 25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 11:16	95-63-6	W
1,3,5-Trimethylbenzene	< 25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 11:16	108-67-8	W
m&p-Xylene	< 50.0	ug/kg	120	50.0	1	06/28/13 10:58	06/28/13 11:16	179601-23-1	W
o-Xylene	< 25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 11:16	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	06/28/13 10:58	06/28/13 11:16	98-08-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	12.6	mg/kg	1.1	0.31	1	06/28/13 11:10	06/28/13 17:52	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	17.0	%	0.10	0.10	1		07/01/13 17:04		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 204154 STH38 & NORTHWESTERN AV
Pace Project No.: 4080283

Sample: GP-4 (4-6) **Lab ID: 4080283009** Collected: 06/25/13 00:00 Received: 06/27/13 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	<0.91	mg/kg	2.3	0.91	1	06/28/13 07:41	07/01/13 10:47		
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 11:42	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 11:42	100-41-4	W
Gasoline Range Organics	<3.0	mg/kg	3.0	3.0	1	06/28/13 10:58	06/28/13 11:42		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 11:42	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 11:42	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 11:42	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 11:42	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 11:42	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	06/28/13 10:58	06/28/13 11:42	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 11:42	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	06/28/13 10:58	06/28/13 11:42	98-08-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	15.5	mg/kg	1.0	0.30	1	06/28/13 11:10	06/28/13 17:58	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	17.2	%	0.10	0.10	1		07/01/13 17:04		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Sample: GP-5 (2-4) **Lab ID: 4080283010** Collected: 06/25/13 00:00 Received: 06/27/13 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	3.4	mg/kg	2.3	0.92	1	06/28/13 07:41	07/01/13 10:53		
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:07	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:07	100-41-4	W
Gasoline Range Organics	<2.9	mg/kg	2.9	2.9	1	06/28/13 10:58	06/28/13 12:07		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:07	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:07	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:07	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:07	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:07	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	06/28/13 10:58	06/28/13 12:07	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:07	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	06/28/13 10:58	06/28/13 12:07	98-08-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	12.8	mg/kg	1.0	0.30	1	06/28/13 11:10	06/28/13 18:01	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.9	%	0.10	0.10	1		07/01/13 17:04		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Sample: GP-5 (6-8) **Lab ID: 4080283011** Collected: 06/25/13 00:00 Received: 06/27/13 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	1.6J	mg/kg	2.1	0.87	1	07/01/13 08:29	07/02/13 15:51		L2
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	< 25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:33	71-43-2	W
Ethylbenzene	< 25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:33	100-41-4	W
Gasoline Range Organics	< 2.8	mg/kg	2.8	2.8	1	06/28/13 10:58	06/28/13 12:33		
Methyl-tert-butyl ether	< 25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:33	1634-04-4	W
Naphthalene	< 25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:33	91-20-3	W
Toluene	< 25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:33	108-88-3	W
1,2,4-Trimethylbenzene	< 25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:33	95-63-6	W
1,3,5-Trimethylbenzene	< 25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:33	108-67-8	W
m&p-Xylene	< 50.0	ug/kg	120	50.0	1	06/28/13 10:58	06/28/13 12:33	179601-23-1	W
o-Xylene	< 25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:33	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	06/28/13 10:58	06/28/13 12:33	98-08-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	13.9	mg/kg	1.1	0.33	1	06/28/13 11:10	06/28/13 18:03	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.2	%	0.10	0.10	1		07/01/13 17:04		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Sample: GP-6 (2-4) **Lab ID: 4080283012** Collected: 06/25/13 00:00 Received: 06/27/13 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	<0.90	mg/kg	2.2	0.90	1	07/01/13 08:29	07/02/13 16:27		L2
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:59	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:59	100-41-4	W
Gasoline Range Organics	<2.9	mg/kg	2.9	2.9	1	06/28/13 10:58	06/28/13 12:59		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:59	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:59	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:59	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:59	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:59	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	06/28/13 10:58	06/28/13 12:59	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 12:59	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	06/28/13 10:58	06/28/13 12:59	98-08-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	7.7	mg/kg	1.0	0.30	1	06/28/13 11:10	06/28/13 18:05	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	13.1	%	0.10	0.10	1		07/01/13 17:04		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Sample: GP-6 (4-6) **Lab ID: 4080283013** Collected: 06/25/13 00:00 Received: 06/27/13 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	<0.88	mg/kg	2.2	0.88	1	07/01/13 08:29	07/02/13 16:36		L2
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 13:25	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 13:25	100-41-4	W
Gasoline Range Organics	<2.9	mg/kg	2.9	2.9	1	06/28/13 10:58	06/28/13 13:25		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 13:25	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 13:25	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 13:25	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 13:25	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 13:25	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	06/28/13 10:58	06/28/13 13:25	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	06/28/13 10:58	06/28/13 13:25	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	06/28/13 10:58	06/28/13 13:25	98-08-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	5.9	mg/kg	1.1	0.32	1	06/28/13 11:10	06/28/13 18:08	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	15.0	%	0.10	0.10	1		07/01/13 17:04		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Sample: GP-3 **Lab ID: 4080283014** Collected: 06/25/13 00:00 Received: 06/27/13 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Arsenic, Dissolved	<4.4	ug/L	20.0	4.4	1		07/02/13 14:08	7440-38-2	
Barium, Dissolved	98.0	ug/L	5.0	1.1	1		07/02/13 14:08	7440-39-3	
Cadmium, Dissolved	<0.38	ug/L	5.0	0.38	1		07/02/13 14:08	7440-43-9	
Chromium, Dissolved	4.4J	ug/L	5.0	1.2	1		07/02/13 14:08	7440-47-3	
Lead, Dissolved	1.5J	ug/L	7.5	1.2	1		07/02/13 14:08	7439-92-1	
Selenium, Dissolved	<6.6	ug/L	20.0	6.6	1		07/02/13 14:08	7782-49-2	
Silver, Dissolved	<1.4	ug/L	10.0	1.4	1		07/02/13 14:08	7440-22-4	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury, Dissolved	<0.10	ug/L	0.20	0.10	1	06/28/13 10:52	06/28/13 14:52	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260									
Benzene	4.7	ug/L	1.0	0.50	1		06/29/13 15:23	71-43-2	
Bromobenzene	<0.48	ug/L	1.0	0.48	1		06/29/13 15:23	108-86-1	
Bromochloromethane	<0.49	ug/L	1.0	0.49	1		06/29/13 15:23	74-97-5	
Bromodichloromethane	<0.45	ug/L	1.0	0.45	1		06/29/13 15:23	75-27-4	
Bromoform	<0.23	ug/L	1.0	0.23	1		06/29/13 15:23	75-25-2	
Bromomethane	<0.43	ug/L	5.0	0.43	1		06/29/13 15:23	74-83-9	
n-Butylbenzene	<0.40	ug/L	1.0	0.40	1		06/29/13 15:23	104-51-8	
sec-Butylbenzene	<0.60	ug/L	5.0	0.60	1		06/29/13 15:23	135-98-8	
tert-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/29/13 15:23	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/29/13 15:23	56-23-5	
Chlorobenzene	<0.36	ug/L	1.0	0.36	1		06/29/13 15:23	108-90-7	
Chloroethane	<0.44	ug/L	1.0	0.44	1		06/29/13 15:23	75-00-3	
Chloroform	<0.69	ug/L	5.0	0.69	1		06/29/13 15:23	67-66-3	
Chloromethane	<0.39	ug/L	1.0	0.39	1		06/29/13 15:23	74-87-3	
2-Chlorotoluene	<0.48	ug/L	1.0	0.48	1		06/29/13 15:23	95-49-8	
4-Chlorotoluene	<0.48	ug/L	1.0	0.48	1		06/29/13 15:23	106-43-4	
1,2-Dibromo-3-chloropropane	<1.5	ug/L	5.0	1.5	1		06/29/13 15:23	96-12-8	
Dibromochloromethane	<1.9	ug/L	5.0	1.9	1		06/29/13 15:23	124-48-1	
1,2-Dibromoethane (EDB)	<0.38	ug/L	1.0	0.38	1		06/29/13 15:23	106-93-4	
Dibromomethane	<0.48	ug/L	1.0	0.48	1		06/29/13 15:23	74-95-3	
1,2-Dichlorobenzene	<0.44	ug/L	1.0	0.44	1		06/29/13 15:23	95-50-1	
1,3-Dichlorobenzene	<0.45	ug/L	1.0	0.45	1		06/29/13 15:23	541-73-1	
1,4-Dichlorobenzene	<0.43	ug/L	1.0	0.43	1		06/29/13 15:23	106-46-7	
Dichlorodifluoromethane	<0.40	ug/L	1.0	0.40	1		06/29/13 15:23	75-71-8	
1,1-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/29/13 15:23	75-34-3	
1,2-Dichloroethane	<0.48	ug/L	1.0	0.48	1		06/29/13 15:23	107-06-2	
1,1-Dichloroethene	<0.43	ug/L	1.0	0.43	1		06/29/13 15:23	75-35-4	
cis-1,2-Dichloroethene	<0.42	ug/L	1.0	0.42	1		06/29/13 15:23	156-59-2	
trans-1,2-Dichloroethene	<0.37	ug/L	1.0	0.37	1		06/29/13 15:23	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	1.0	0.50	1		06/29/13 15:23	78-87-5	
1,3-Dichloropropane	<0.46	ug/L	1.0	0.46	1		06/29/13 15:23	142-28-9	
2,2-Dichloropropane	<0.37	ug/L	1.0	0.37	1		06/29/13 15:23	594-20-7	
1,1-Dichloropropene	<0.51	ug/L	1.0	0.51	1		06/29/13 15:23	563-58-6	
cis-1,3-Dichloropropene	<0.29	ug/L	1.0	0.29	1		06/29/13 15:23	10061-01-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Sample: GP-3 **Lab ID: 4080283014** Collected: 06/25/13 00:00 Received: 06/27/13 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
trans-1,3-Dichloropropene	<0.26	ug/L	1.0	0.26	1		06/29/13 15:23	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		06/29/13 15:23	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		06/29/13 15:23	100-41-4	
Hexachloro-1,3-butadiene	<1.3	ug/L	5.0	1.3	1		06/29/13 15:23	87-68-3	
Isopropylbenzene (Cumene)	<0.34	ug/L	1.0	0.34	1		06/29/13 15:23	98-82-8	
p-Isopropyltoluene	0.41J	ug/L	1.0	0.40	1		06/29/13 15:23	99-87-6	
Methylene Chloride	<0.36	ug/L	1.0	0.36	1		06/29/13 15:23	75-09-2	
Methyl-tert-butyl ether	<0.49	ug/L	1.0	0.49	1		06/29/13 15:23	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		06/29/13 15:23	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		06/29/13 15:23	103-65-1	
Styrene	<0.35	ug/L	1.0	0.35	1		06/29/13 15:23	100-42-5	
1,1,1,2-Tetrachloroethane	<0.45	ug/L	1.0	0.45	1		06/29/13 15:23	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/29/13 15:23	79-34-5	
Tetrachloroethene	<0.47	ug/L	1.0	0.47	1		06/29/13 15:23	127-18-4	
Toluene	<0.44	ug/L	1.0	0.44	1		06/29/13 15:23	108-88-3	
1,2,3-Trichlorobenzene	<0.77	ug/L	5.0	0.77	1		06/29/13 15:23	87-61-6	
1,2,4-Trichlorobenzene	<2.5	ug/L	5.0	2.5	1		06/29/13 15:23	120-82-1	
1,1,1-Trichloroethane	<0.44	ug/L	1.0	0.44	1		06/29/13 15:23	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/L	1.0	0.39	1		06/29/13 15:23	79-00-5	
Trichloroethene	<0.43	ug/L	1.0	0.43	1		06/29/13 15:23	79-01-6	
Trichlorofluoromethane	<0.48	ug/L	1.0	0.48	1		06/29/13 15:23	75-69-4	
1,2,3-Trichloropropane	<0.47	ug/L	1.0	0.47	1		06/29/13 15:23	96-18-4	
1,2,4-Trimethylbenzene	<0.57	ug/L	5.0	0.57	1		06/29/13 15:23	95-63-6	
1,3,5-Trimethylbenzene	<2.5	ug/L	5.0	2.5	1		06/29/13 15:23	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/29/13 15:23	75-01-4	
m&p-Xylene	<0.82	ug/L	2.0	0.82	1		06/29/13 15:23	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		06/29/13 15:23	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96 %		43-137		1		06/29/13 15:23	460-00-4	
Dibromofluoromethane (S)	93 %		70-130		1		06/29/13 15:23	1868-53-7	
Toluene-d8 (S)	100 %		55-137		1		06/29/13 15:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

QC Batch: GCV/10522 Analysis Method: WI MOD GRO
 QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
 Associated Lab Samples: 4080283008, 4080283009, 4080283010, 4080283011, 4080283012, 4080283013

METHOD BLANK: 815404 Matrix: Solid
 Associated Lab Samples: 4080283008, 4080283009, 4080283010, 4080283011, 4080283012, 4080283013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	60.0	06/28/13 08:35	
1,3,5-Trimethylbenzene	ug/kg	<25.0	60.0	06/28/13 08:35	
Benzene	ug/kg	<25.0	60.0	06/28/13 08:35	
Ethylbenzene	ug/kg	<25.0	60.0	06/28/13 08:35	
Gasoline Range Organics	mg/kg	<2.5	2.5	06/28/13 08:35	
m&p-Xylene	ug/kg	<50.0	120	06/28/13 08:35	
Methyl-tert-butyl ether	ug/kg	<25.0	60.0	06/28/13 08:35	
Naphthalene	ug/kg	<25.0	60.0	06/28/13 08:35	
o-Xylene	ug/kg	<25.0	60.0	06/28/13 08:35	
Toluene	ug/kg	<25.0	60.0	06/28/13 08:35	
a,a,a-Trifluorotoluene (S)	%	100	80-120	06/28/13 08:35	

LABORATORY CONTROL SAMPLE & LCSD: 815405 815406

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	1120	1100	112	110	80-120	2	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1110	1090	111	109	80-120	2	20	
Benzene	ug/kg	1000	1120	1080	112	108	80-120	4	20	
Ethylbenzene	ug/kg	1000	1120	1100	112	110	80-120	2	20	
Gasoline Range Organics	mg/kg	10	10.8	10.6	108	106	80-120	2	20	
m&p-Xylene	ug/kg	2000	2220	2180	111	109	80-120	2	20	
Methyl-tert-butyl ether	ug/kg	1000	1110	1070	111	107	80-120	3	20	
Naphthalene	ug/kg	1000	1110	1090	111	109	80-120	2	20	
o-Xylene	ug/kg	1000	1100	1080	110	108	80-120	2	20	
Toluene	ug/kg	1000	1100	1080	110	108	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				100	102	80-120			

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: 204154 STH38 & NORTHWESTERN AV
Pace Project No.: 4080283

QC Batch: ICP/7745 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 4080283014

METHOD BLANK: 816989 Matrix: Water
Associated Lab Samples: 4080283014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<4.4	20.0	07/02/13 13:40	
Barium, Dissolved	ug/L	<1.1	5.0	07/02/13 13:40	
Cadmium, Dissolved	ug/L	<0.38	5.0	07/02/13 13:40	
Chromium, Dissolved	ug/L	<1.2	5.0	07/02/13 13:40	
Lead, Dissolved	ug/L	<1.2	7.5	07/02/13 13:40	
Selenium, Dissolved	ug/L	<6.6	20.0	07/02/13 13:40	
Silver, Dissolved	ug/L	<1.4	10.0	07/02/13 13:40	

LABORATORY CONTROL SAMPLE: 816990

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	442	88	80-120	
Barium, Dissolved	ug/L	500	456	91	80-120	
Cadmium, Dissolved	ug/L	500	446	89	80-120	
Chromium, Dissolved	ug/L	500	451	90	80-120	
Lead, Dissolved	ug/L	500	446	89	80-120	
Selenium, Dissolved	ug/L	500	454	91	80-120	
Silver, Dissolved	ug/L	250	226	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 816991 816992

Parameter	Units	4080419004		MS		MSD		MS		MSD		% Rec		Max	
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual			
Arsenic, Dissolved	ug/L	<4.4	500	500	515	515	103	103	75-125	0	20				
Barium, Dissolved	ug/L	72.6	500	500	579	581	101	102	75-125	0	20				
Cadmium, Dissolved	ug/L	<0.38	500	500	516	519	103	104	75-125	1	20				
Chromium, Dissolved	ug/L	<1.2	500	500	510	510	102	102	75-125	0	20				
Lead, Dissolved	ug/L	2.5J	500	500	493	498	98	99	75-125	1	20				
Selenium, Dissolved	ug/L	<6.6	500	500	476	495	94	98	75-125	4	20				
Silver, Dissolved	ug/L	<1.4	250	250	252	253	101	101	75-125	0	20				

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

QC Batch: MERP/3726

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury Dissolved

Associated Lab Samples: 4080283014

METHOD BLANK: 815715

Matrix: Water

Associated Lab Samples: 4080283014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.10	0.20	06/28/13 14:13	

METHOD BLANK: 815742

Matrix: Water

Associated Lab Samples: 4080283014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.10	0.20	06/28/13 14:43	1q

LABORATORY CONTROL SAMPLE: 815716

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 815717

815718

Parameter	Units	4079775001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Mercury, Dissolved	ug/L	<0.10	5	5	5.5	5.4	110	108	85-115	1	20

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

QC Batch: MPRP/8720 Analysis Method: EPA 6010
 QC Batch Method: EPA 3050 Analysis Description: 6010 MET
 Associated Lab Samples: 4080283008, 4080283009, 4080283010, 4080283011, 4080283012, 4080283013

METHOD BLANK: 815475 Matrix: Solid
 Associated Lab Samples: 4080283008, 4080283009, 4080283010, 4080283011, 4080283012, 4080283013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	<0.29	1.0	06/30/13 16:00	

LABORATORY CONTROL SAMPLE: 815476

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	48.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 815477 815478

Parameter	Units	4080301001		MS		MSD		% Rec		Max		Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Lead	mg/kg	3.0	53.9	53.9	49.9	50.2	87	88	75-125	1	20	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

QC Batch: MSV/20274 Analysis Method: EPA 8260
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
 Associated Lab Samples: 4080283002, 4080283003, 4080283004, 4080283005, 4080283006, 4080283007

METHOD BLANK: 815535 Matrix: Solid
 Associated Lab Samples: 4080283002, 4080283003, 4080283004, 4080283005, 4080283006, 4080283007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<25.0	60.0	06/28/13 11:30	
1,1,1-Trichloroethane	ug/kg	<25.0	60.0	06/28/13 11:30	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	60.0	06/28/13 11:30	
1,1,2-Trichloroethane	ug/kg	<25.0	60.0	06/28/13 11:30	
1,1-Dichloroethane	ug/kg	<25.0	60.0	06/28/13 11:30	
1,1-Dichloroethene	ug/kg	<25.0	60.0	06/28/13 11:30	
1,1-Dichloropropene	ug/kg	<25.0	60.0	06/28/13 11:30	
1,2,3-Trichlorobenzene	ug/kg	<25.0	60.0	06/28/13 11:30	
1,2,3-Trichloropropane	ug/kg	<25.0	60.0	06/28/13 11:30	
1,2,4-Trichlorobenzene	ug/kg	<25.0	60.0	06/28/13 11:30	
1,2,4-Trimethylbenzene	ug/kg	<25.0	60.0	06/28/13 11:30	
1,2-Dibromo-3-chloropropane	ug/kg	<49.8	250	06/28/13 11:30	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	60.0	06/28/13 11:30	
1,2-Dichlorobenzene	ug/kg	<25.0	60.0	06/28/13 11:30	
1,2-Dichloroethane	ug/kg	<25.0	60.0	06/28/13 11:30	
1,2-Dichloropropane	ug/kg	<25.0	60.0	06/28/13 11:30	
1,3,5-Trimethylbenzene	ug/kg	<25.0	60.0	06/28/13 11:30	
1,3-Dichlorobenzene	ug/kg	<25.0	60.0	06/28/13 11:30	
1,3-Dichloropropane	ug/kg	<25.0	60.0	06/28/13 11:30	
1,4-Dichlorobenzene	ug/kg	<25.0	60.0	06/28/13 11:30	
2,2-Dichloropropane	ug/kg	<25.0	60.0	06/28/13 11:30	
2-Chlorotoluene	ug/kg	<25.0	60.0	06/28/13 11:30	
4-Chlorotoluene	ug/kg	<25.0	60.0	06/28/13 11:30	
Benzene	ug/kg	<25.0	60.0	06/28/13 11:30	
Bromobenzene	ug/kg	<25.0	60.0	06/28/13 11:30	
Bromochloromethane	ug/kg	<25.0	60.0	06/28/13 11:30	
Bromodichloromethane	ug/kg	<25.0	60.0	06/28/13 11:30	
Bromoform	ug/kg	<25.0	60.0	06/28/13 11:30	
Bromomethane	ug/kg	<25.0	60.0	06/28/13 11:30	
Carbon tetrachloride	ug/kg	<25.0	60.0	06/28/13 11:30	
Chlorobenzene	ug/kg	<25.0	60.0	06/28/13 11:30	
Chloroethane	ug/kg	<25.0	60.0	06/28/13 11:30	
Chloroform	ug/kg	<25.0	60.0	06/28/13 11:30	
Chloromethane	ug/kg	<25.0	60.0	06/28/13 11:30	
cis-1,2-Dichloroethene	ug/kg	<25.0	60.0	06/28/13 11:30	
cis-1,3-Dichloropropene	ug/kg	<25.0	60.0	06/28/13 11:30	
Dibromochloromethane	ug/kg	<25.0	60.0	06/28/13 11:30	
Dibromomethane	ug/kg	<25.0	60.0	06/28/13 11:30	
Dichlorodifluoromethane	ug/kg	<25.0	60.0	06/28/13 11:30	
Diisopropyl ether	ug/kg	<25.0	60.0	06/28/13 11:30	
Ethylbenzene	ug/kg	<25.0	60.0	06/28/13 11:30	
Hexachloro-1,3-butadiene	ug/kg	<25.0	60.0	06/28/13 11:30	
Isopropylbenzene (Cumene)	ug/kg	<25.0	60.0	06/28/13 11:30	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

METHOD BLANK: 815535

Matrix: Solid

Associated Lab Samples: 4080283002, 4080283003, 4080283004, 4080283005, 4080283006, 4080283007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/kg	<50.0	120	06/28/13 11:30	
Methyl-tert-butyl ether	ug/kg	<25.0	60.0	06/28/13 11:30	
Methylene Chloride	ug/kg	<25.0	60.0	06/28/13 11:30	
n-Butylbenzene	ug/kg	<25.0	60.0	06/28/13 11:30	
n-Propylbenzene	ug/kg	<25.0	60.0	06/28/13 11:30	
Naphthalene	ug/kg	<25.0	60.0	06/28/13 11:30	
o-Xylene	ug/kg	<25.0	60.0	06/28/13 11:30	
p-Isopropyltoluene	ug/kg	<25.0	60.0	06/28/13 11:30	
sec-Butylbenzene	ug/kg	<25.0	60.0	06/28/13 11:30	
Styrene	ug/kg	<25.0	60.0	06/28/13 11:30	
tert-Butylbenzene	ug/kg	<25.0	60.0	06/28/13 11:30	
Tetrachloroethene	ug/kg	<25.0	60.0	06/28/13 11:30	
Toluene	ug/kg	<25.0	60.0	06/28/13 11:30	
trans-1,2-Dichloroethene	ug/kg	<25.0	60.0	06/28/13 11:30	
trans-1,3-Dichloropropene	ug/kg	<25.0	60.0	06/28/13 11:30	
Trichloroethene	ug/kg	<25.0	60.0	06/28/13 11:30	
Trichlorofluoromethane	ug/kg	<25.0	60.0	06/28/13 11:30	
Vinyl chloride	ug/kg	<25.0	60.0	06/28/13 11:30	
4-Bromofluorobenzene (S)	%	109	49-130	06/28/13 11:30	
Dibromofluoromethane (S)	%	106	57-130	06/28/13 11:30	
Toluene-d8 (S)	%	104	54-133	06/28/13 11:30	

LABORATORY CONTROL SAMPLE & LCSD: 815536

815537

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2740	2850	110	114	70-130	4	20	
1,1,2,2-Tetrachloroethane	ug/kg	2500	1940	1930	78	77	70-130	1	20	
1,1,2-Trichloroethane	ug/kg	2500	2460	2400	98	96	70-130	2	20	
1,1-Dichloroethane	ug/kg	2500	2360	2500	94	100	70-130	6	20	
1,1-Dichloroethene	ug/kg	2500	1880	1970	75	79	64-130	5	20	
1,2,4-Trichlorobenzene	ug/kg	2500	2430	2470	97	99	68-130	2	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2150	2430	86	97	50-150	12	20	
1,2-Dibromoethane (EDB)	ug/kg	2500	2590	2580	104	103	70-130	1	20	
1,2-Dichlorobenzene	ug/kg	2500	2430	2520	97	101	70-130	4	20	
1,2-Dichloroethane	ug/kg	2500	2990	3140	119	126	70-130	5	20	
1,2-Dichloropropane	ug/kg	2500	2330	2230	93	89	70-130	4	20	
1,3-Dichlorobenzene	ug/kg	2500	2360	2400	94	96	70-130	2	20	
1,4-Dichlorobenzene	ug/kg	2500	2390	2440	95	98	70-130	2	20	
Benzene	ug/kg	2500	2110	2150	84	86	70-130	2	20	
Bromodichloromethane	ug/kg	2500	2820	2820	113	113	70-130	0	20	
Bromoform	ug/kg	2500	2070	2080	83	83	63-130	0	20	
Bromomethane	ug/kg	2500	2570	2620	103	105	41-142	2	20	
Carbon tetrachloride	ug/kg	2500	2820	2960	113	118	70-130	5	20	
Chlorobenzene	ug/kg	2500	2410	2390	96	96	70-130	1	20	
Chloroethane	ug/kg	2500	3070	3200	123	128	57-130	4	20	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

LABORATORY CONTROL SAMPLE & LCSD:		815536	815537							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloroform	ug/kg	2500	2590	2630	103	105	70-130	2	20	
Chloromethane	ug/kg	2500	1720	1750	69	70	57-130	2	20	
cis-1,2-Dichloroethene	ug/kg	2500	2240	2260	90	90	70-130	1	20	
cis-1,3-Dichloropropene	ug/kg	2500	2320	2340	93	94	70-130	1	20	
Dibromochloromethane	ug/kg	2500	2480	2500	99	100	70-130	0	20	
Dichlorodifluoromethane	ug/kg	2500	1400	1430	56	57	31-150	2	20	
Ethylbenzene	ug/kg	2500	2500	2520	100	101	65-137	1	20	
Isopropylbenzene (Cumene)	ug/kg	2500	2570	2540	103	102	70-130	1	20	
m&p-Xylene	ug/kg	5000	4750	4830	95	97	64-139	2	20	
Methyl-tert-butyl ether	ug/kg	2500	2500	2570	100	103	69-130	3	20	
Methylene Chloride	ug/kg	2500	1970	2050	79	82	70-130	4	20	
o-Xylene	ug/kg	2500	2410	2420	96	97	63-135	1	20	
Styrene	ug/kg	2500	2430	2440	97	97	69-130	0	20	
Tetrachloroethene	ug/kg	2500	2550	2530	102	101	70-130	1	20	
Toluene	ug/kg	2500	2360	2330	94	93	70-130	1	20	
trans-1,2-Dichloroethene	ug/kg	2500	2280	2280	91	91	70-130	0	20	
trans-1,3-Dichloropropene	ug/kg	2500	2720	2710	109	108	70-130	1	20	
Trichloroethene	ug/kg	2500	2500	2540	100	102	70-130	1	20	
Trichlorofluoromethane	ug/kg	2500	2690	2790	108	111	50-150	3	20	
Vinyl chloride	ug/kg	2500	1660	1710	66	68	57-130	3	20	
4-Bromofluorobenzene (S)	%				111	109	49-130			
Dibromofluoromethane (S)	%				107	115	57-130			
Toluene-d8 (S)	%				106	103	54-133			

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

QC Batch: MSV/20284 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4080283001, 4080283014

METHOD BLANK: 816096 Matrix: Water

Associated Lab Samples: 4080283001, 4080283014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.45	1.0	06/29/13 10:49	
1,1,1-Trichloroethane	ug/L	<0.44	1.0	06/29/13 10:49	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	06/29/13 10:49	
1,1,2-Trichloroethane	ug/L	<0.39	1.0	06/29/13 10:49	
1,1-Dichloroethane	ug/L	<0.28	1.0	06/29/13 10:49	
1,1-Dichloroethene	ug/L	<0.43	1.0	06/29/13 10:49	
1,1-Dichloropropene	ug/L	<0.51	1.0	06/29/13 10:49	
1,2,3-Trichlorobenzene	ug/L	<0.77	5.0	06/29/13 10:49	
1,2,3-Trichloropropane	ug/L	<0.47	1.0	06/29/13 10:49	
1,2,4-Trichlorobenzene	ug/L	<2.5	5.0	06/29/13 10:49	
1,2,4-Trimethylbenzene	ug/L	<0.57	5.0	06/29/13 10:49	
1,2-Dibromo-3-chloropropane	ug/L	<1.5	5.0	06/29/13 10:49	
1,2-Dibromoethane (EDB)	ug/L	<0.38	1.0	06/29/13 10:49	
1,2-Dichlorobenzene	ug/L	<0.44	1.0	06/29/13 10:49	
1,2-Dichloroethane	ug/L	<0.48	1.0	06/29/13 10:49	
1,2-Dichloropropane	ug/L	<0.50	1.0	06/29/13 10:49	
1,3,5-Trimethylbenzene	ug/L	<2.5	5.0	06/29/13 10:49	
1,3-Dichlorobenzene	ug/L	<0.45	1.0	06/29/13 10:49	
1,3-Dichloropropane	ug/L	<0.46	1.0	06/29/13 10:49	
1,4-Dichlorobenzene	ug/L	<0.43	1.0	06/29/13 10:49	
2,2-Dichloropropane	ug/L	<0.37	1.0	06/29/13 10:49	
2-Chlorotoluene	ug/L	<0.48	1.0	06/29/13 10:49	
4-Chlorotoluene	ug/L	<0.48	1.0	06/29/13 10:49	
Benzene	ug/L	<0.50	1.0	06/29/13 10:49	
Bromobenzene	ug/L	<0.48	1.0	06/29/13 10:49	
Bromochloromethane	ug/L	<0.49	1.0	06/29/13 10:49	
Bromodichloromethane	ug/L	<0.45	1.0	06/29/13 10:49	
Bromoform	ug/L	<0.23	1.0	06/29/13 10:49	
Bromomethane	ug/L	<0.43	5.0	06/29/13 10:49	
Carbon tetrachloride	ug/L	<0.37	1.0	06/29/13 10:49	
Chlorobenzene	ug/L	<0.36	1.0	06/29/13 10:49	
Chloroethane	ug/L	<0.44	1.0	06/29/13 10:49	
Chloroform	ug/L	<0.69	5.0	06/29/13 10:49	
Chloromethane	ug/L	<0.39	1.0	06/29/13 10:49	
cis-1,2-Dichloroethene	ug/L	<0.42	1.0	06/29/13 10:49	
cis-1,3-Dichloropropene	ug/L	<0.29	1.0	06/29/13 10:49	
Dibromochloromethane	ug/L	<1.9	5.0	06/29/13 10:49	
Dibromomethane	ug/L	<0.48	1.0	06/29/13 10:49	
Dichlorodifluoromethane	ug/L	<0.40	1.0	06/29/13 10:49	
Diisopropyl ether	ug/L	<0.50	1.0	06/29/13 10:49	
Ethylbenzene	ug/L	<0.50	1.0	06/29/13 10:49	
Hexachloro-1,3-butadiene	ug/L	<1.3	5.0	06/29/13 10:49	
Isopropylbenzene (Cumene)	ug/L	<0.34	1.0	06/29/13 10:49	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

METHOD BLANK: 816096

Matrix: Water

Associated Lab Samples: 4080283001, 4080283014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	<0.82	2.0	06/29/13 10:49	
Methyl-tert-butyl ether	ug/L	<0.49	1.0	06/29/13 10:49	
Methylene Chloride	ug/L	<0.36	1.0	06/29/13 10:49	
n-Butylbenzene	ug/L	<0.40	1.0	06/29/13 10:49	
n-Propylbenzene	ug/L	<0.50	1.0	06/29/13 10:49	
Naphthalene	ug/L	<2.5	5.0	06/29/13 10:49	
o-Xylene	ug/L	<0.50	1.0	06/29/13 10:49	
p-Isopropyltoluene	ug/L	<0.40	1.0	06/29/13 10:49	
sec-Butylbenzene	ug/L	<0.60	5.0	06/29/13 10:49	
Styrene	ug/L	<0.35	1.0	06/29/13 10:49	
tert-Butylbenzene	ug/L	<0.42	1.0	06/29/13 10:49	
Tetrachloroethene	ug/L	<0.47	1.0	06/29/13 10:49	
Toluene	ug/L	<0.44	1.0	06/29/13 10:49	
trans-1,2-Dichloroethene	ug/L	<0.37	1.0	06/29/13 10:49	
trans-1,3-Dichloropropene	ug/L	<0.26	1.0	06/29/13 10:49	
Trichloroethene	ug/L	<0.43	1.0	06/29/13 10:49	
Trichlorofluoromethane	ug/L	<0.48	1.0	06/29/13 10:49	
Vinyl chloride	ug/L	<0.18	1.0	06/29/13 10:49	
4-Bromofluorobenzene (S)	%	96	43-137	06/29/13 10:49	
Dibromofluoromethane (S)	%	97	70-130	06/29/13 10:49	
Toluene-d8 (S)	%	101	55-137	06/29/13 10:49	

LABORATORY CONTROL SAMPLE & LCSD: 816097

816098

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.6	49.2	95	98	70-136	3	20	
1,1,2,2-Tetrachloroethane	ug/L	50	54.7	56.8	109	114	70-130	4	20	
1,1,2-Trichloroethane	ug/L	50	52.6	54.1	105	108	70-130	3	20	
1,1-Dichloroethane	ug/L	50	62.7	64.2	125	128	70-146	2	20	
1,1-Dichloroethene	ug/L	50	55.1	56.2	110	112	70-130	2	20	
1,2,4-Trichlorobenzene	ug/L	50	49.2	51.8	98	104	70-130	5	20	
1,2-Dibromo-3-chloropropane	ug/L	50	43.3	46.8	87	94	46-150	8	20	
1,2-Dibromoethane (EDB)	ug/L	50	49.4	52.0	99	104	70-130	5	20	
1,2-Dichlorobenzene	ug/L	50	51.3	52.7	103	105	70-130	3	20	
1,2-Dichloroethane	ug/L	50	54.4	56.1	109	112	70-144	3	20	
1,2-Dichloropropane	ug/L	50	54.4	55.3	109	111	70-136	2	20	
1,3-Dichlorobenzene	ug/L	50	52.3	52.9	105	106	70-130	1	20	
1,4-Dichlorobenzene	ug/L	50	50.8	52.7	102	105	70-130	4	20	
Benzene	ug/L	50	54.6	56.2	109	112	70-137	3	20	
Bromodichloromethane	ug/L	50	46.7	47.8	93	96	70-133	2	20	
Bromoform	ug/L	50	41.1	42.6	82	85	59-130	4	20	
Bromomethane	ug/L	50	46.8	49.7	94	99	41-148	6	20	
Carbon tetrachloride	ug/L	50	46.3	48.1	93	96	70-154	4	20	
Chlorobenzene	ug/L	50	50.2	51.6	100	103	70-130	3	20	
Chloroethane	ug/L	50	54.9	56.1	110	112	70-139	2	20	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

LABORATORY CONTROL SAMPLE & LCSD:		816097		816098							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Chloroform	ug/L	50	51.8	52.8	104	106	70-130	2	20		
Chloromethane	ug/L	50	49.3	50.2	99	100	45-154	2	20		
cis-1,2-Dichloroethene	ug/L	50	50.7	52.8	101	106	70-130	4	20		
cis-1,3-Dichloropropene	ug/L	50	44.9	46.1	90	92	70-136	3	20		
Dibromochloromethane	ug/L	50	44.7	45.9	89	92	70-130	3	20		
Dichlorodifluoromethane	ug/L	50	43.0	44.4	86	89	20-157	3	20		
Ethylbenzene	ug/L	50	53.5	54.7	107	109	70-130	2	20		
Isopropylbenzene (Cumene)	ug/L	50	53.9	55.2	108	110	70-130	2	20		
m&p-Xylene	ug/L	100	105	108	105	108	70-130	2	20		
Methyl-tert-butyl ether	ug/L	50	49.8	52.1	100	104	59-141	5	20		
Methylene Chloride	ug/L	50	54.7	56.1	109	112	70-130	3	20		
o-Xylene	ug/L	50	50.6	52.0	101	104	70-130	3	20		
Styrene	ug/L	50	53.0	53.6	106	107	70-130	1	20		
Tetrachloroethene	ug/L	50	47.8	49.5	96	99	70-130	4	20		
Toluene	ug/L	50	51.6	52.7	103	105	70-130	2	20		
trans-1,2-Dichloroethene	ug/L	50	54.9	56.4	110	113	70-130	3	20		
trans-1,3-Dichloropropene	ug/L	50	43.7	45.3	87	91	55-135	4	20		
Trichloroethene	ug/L	50	52.4	53.9	105	108	70-130	3	20		
Trichlorofluoromethane	ug/L	50	54.9	56.2	110	112	50-150	2	20		
Vinyl chloride	ug/L	50	53.1	54.4	106	109	61-143	2	20		
4-Bromofluorobenzene (S)	%				102	102	43-137				
Dibromofluoromethane (S)	%				102	103	70-130				
Toluene-d8 (S)	%				102	101	55-137				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		816240		816241							
Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		4080331001 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	<0.44	50	50	47.4	46.4	95	93	70-136	2	20
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	54.0	52.5	108	105	70-130	3	20
1,1,2-Trichloroethane	ug/L	<0.39	50	50	51.0	50.1	102	100	70-130	2	20
1,1-Dichloroethane	ug/L	<0.28	50	50	62.3	59.7	125	119	70-146	4	20
1,1-Dichloroethene	ug/L	<0.43	50	50	52.7	50.6	105	101	70-130	4	20
1,2,4-Trichlorobenzene	ug/L	<2.5	50	50	48.1	46.5	96	93	70-130	3	20
1,2-Dibromo-3-chloropropane	ug/L	<1.5	50	50	44.0	41.9	88	84	46-150	5	20
1,2-Dibromoethane (EDB)	ug/L	<0.38	50	50	48.5	47.6	97	95	70-130	2	20
1,2-Dichlorobenzene	ug/L	<0.44	50	50	50.0	48.8	100	98	70-130	2	20
1,2-Dichloroethane	ug/L	<0.48	50	50	53.8	52.6	108	105	70-146	2	20
1,2-Dichloropropane	ug/L	<0.50	50	50	53.0	52.1	106	104	70-136	2	20
1,3-Dichlorobenzene	ug/L	<0.45	50	50	50.1	49.0	100	98	70-130	2	20
1,4-Dichlorobenzene	ug/L	<0.43	50	50	49.5	48.1	99	96	70-130	3	20
Benzene	ug/L	<0.50	50	50	54.0	52.5	108	105	70-137	3	20
Bromodichloromethane	ug/L	<0.45	50	50	45.5	44.3	91	89	70-133	3	20
Bromoform	ug/L	<0.23	50	50	40.3	38.0	81	76	57-130	6	20
Bromomethane	ug/L	<0.43	50	50	46.8	46.2	94	92	41-148	1	20
Carbon tetrachloride	ug/L	<0.37	50	50	46.8	45.3	94	91	70-154	3	20
Chlorobenzene	ug/L	<0.36	50	50	48.5	48.0	97	96	70-130	1	20

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Parameter	4080331001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max	RPD	Qual
	Units	Result	Spike	Conc.	Spike	Conc.	Result	Result	% Rec	% Rec						
Chloroethane	ug/L	<0.44	50	50	53.6	51.5	107	103	70-140	4	20					
Chloroform	ug/L	<0.69	50	50	51.0	49.2	102	98	70-130	4	20					
Chloromethane	ug/L	<0.39	50	50	45.6	45.0	91	90	45-154	1	20					
cis-1,2-Dichloroethene	ug/L	<0.42	50	50	50.4	48.6	101	97	70-130	4	20					
cis-1,3-Dichloropropene	ug/L	<0.29	50	50	44.1	41.4	88	83	70-136	6	20					
Dibromochloromethane	ug/L	<1.9	50	50	43.5	41.8	87	84	70-130	4	20					
Dichlorodifluoromethane	ug/L	<0.40	50	50	37.6	36.6	75	73	10-157	3	20					
Ethylbenzene	ug/L	<0.50	50	50	51.0	49.9	102	100	70-130	2	20					
Isopropylbenzene (Cumene)	ug/L	<0.34	50	50	52.0	50.5	104	101	70-130	3	20					
m&p-Xylene	ug/L	<0.82	100	100	99.0	96.8	99	97	70-130	2	20					
Methyl-tert-butyl ether	ug/L	<0.49	50	50	51.0	49.0	102	98	59-141	4	20					
Methylene Chloride	ug/L	<0.36	50	50	54.0	51.7	108	103	70-130	4	20					
o-Xylene	ug/L	<0.50	50	50	47.9	47.4	96	95	70-130	1	20					
Styrene	ug/L	<0.35	50	50	44.8	44.6	90	89	35-164	1	20					
Tetrachloroethene	ug/L	<0.47	50	50	45.4	44.8	91	90	70-130	1	20					
Toluene	ug/L	<0.44	50	50	49.1	48.5	98	97	70-130	1	20					
trans-1,2-Dichloroethene	ug/L	<0.37	50	50	54.2	52.0	108	104	70-130	4	20					
trans-1,3-Dichloropropene	ug/L	<0.26	50	50	42.3	39.9	85	80	55-137	6	20					
Trichloroethene	ug/L	<0.43	50	50	51.3	50.2	103	100	70-130	2	20					
Trichlorofluoromethane	ug/L	<0.48	50	50	53.6	52.1	107	104	50-150	3	20					
Vinyl chloride	ug/L	<0.18	50	50	50.8	49.4	102	99	59-144	3	20					
4-Bromofluorobenzene (S)	%						102	102	43-137							
Dibromofluoromethane (S)	%						106	104	70-130							
Toluene-d8 (S)	%						100	100	55-137							

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

QC Batch: OEXT/18815 Analysis Method: WI MOD DRO

QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS

Associated Lab Samples: 4080283008, 4080283009, 4080283010

METHOD BLANK: 815426 Matrix: Solid

Associated Lab Samples: 4080283008, 4080283009, 4080283010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	<0.80	2.0	07/01/13 08:47	

LABORATORY CONTROL SAMPLE & LCSD: 815427 815428

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/kg	40	33.1	31.9	83	80	70-120	4	20	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

QC Batch: OEXT/18830 Analysis Method: WI MOD DRO

QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS

Associated Lab Samples: 4080283011, 4080283012, 4080283013

METHOD BLANK: 816377 Matrix: Solid

Associated Lab Samples: 4080283011, 4080283012, 4080283013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	<0.80	2.0	07/02/13 14:57	

LABORATORY CONTROL SAMPLE & LCSD: 816378 816379

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/kg	40	26.8	28.0	67	70	70-120	4	20	L0

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

QC Batch:	PMST/8628	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	4080283002, 4080283003, 4080283004, 4080283005, 4080283006, 4080283007, 4080283008, 4080283009, 4080283010, 4080283011, 4080283012, 4080283013		

SAMPLE DUPLICATE: 816753

Parameter	Units	4080259001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.3	12.4	0	10	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALIFIERS

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

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.

PRL - Pace Reporting Limit.

RL - Reporting 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.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

SAMPLE QUALIFIERS

Sample: 4080283002

[1] Dry weight cup had meltwater in it upon receipt. Water was drained prior to moisture analysis.

BATCH QUALIFIERS

Batch: MSV/20280

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1q Filter Blank for samples 4080081001-005.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 204154 STH38 & NORTHWESTERN AV

Pace Project No.: 4080283

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4080283008	GP-4 (2-4)	WI MOD DRO	OEXT/18815	WI MOD DRO	GCSV/9785
4080283009	GP-4 (4-6)	WI MOD DRO	OEXT/18815	WI MOD DRO	GCSV/9785
4080283010	GP-5 (2-4)	WI MOD DRO	OEXT/18815	WI MOD DRO	GCSV/9785
4080283011	GP-5 (6-8)	WI MOD DRO	OEXT/18830	WI MOD DRO	GCSV/9795
4080283012	GP-6 (2-4)	WI MOD DRO	OEXT/18830	WI MOD DRO	GCSV/9795
4080283013	GP-6 (4-6)	WI MOD DRO	OEXT/18830	WI MOD DRO	GCSV/9795
4080283008	GP-4 (2-4)	TPH GRO/PVOC WI ext.	GCV/10522	WI MOD GRO	GCV/10528
4080283009	GP-4 (4-6)	TPH GRO/PVOC WI ext.	GCV/10522	WI MOD GRO	GCV/10528
4080283010	GP-5 (2-4)	TPH GRO/PVOC WI ext.	GCV/10522	WI MOD GRO	GCV/10528
4080283011	GP-5 (6-8)	TPH GRO/PVOC WI ext.	GCV/10522	WI MOD GRO	GCV/10528
4080283012	GP-6 (2-4)	TPH GRO/PVOC WI ext.	GCV/10522	WI MOD GRO	GCV/10528
4080283013	GP-6 (4-6)	TPH GRO/PVOC WI ext.	GCV/10522	WI MOD GRO	GCV/10528
4080283008	GP-4 (2-4)	EPA 3050	MPRP/8720	EPA 6010	ICP/7735
4080283009	GP-4 (4-6)	EPA 3050	MPRP/8720	EPA 6010	ICP/7735
4080283010	GP-5 (2-4)	EPA 3050	MPRP/8720	EPA 6010	ICP/7735
4080283011	GP-5 (6-8)	EPA 3050	MPRP/8720	EPA 6010	ICP/7735
4080283012	GP-6 (2-4)	EPA 3050	MPRP/8720	EPA 6010	ICP/7735
4080283013	GP-6 (4-6)	EPA 3050	MPRP/8720	EPA 6010	ICP/7735
4080283014	GP-3	EPA 6010	ICP/7745		
4080283014	GP-3	EPA 7470	MERP/3726	EPA 7470	MERC/4658
4080283002	GP-1 (2-4)	EPA 5035/5030B	MSV/20274	EPA 8260	MSV/20280
4080283003	GP-1 (4-6)	EPA 5035/5030B	MSV/20274	EPA 8260	MSV/20280
4080283004	GP-2 (2-4)	EPA 5035/5030B	MSV/20274	EPA 8260	MSV/20280
4080283005	GP-2 (4-6)	EPA 5035/5030B	MSV/20274	EPA 8260	MSV/20280
4080283006	GP-3 (4-6)	EPA 5035/5030B	MSV/20274	EPA 8260	MSV/20280
4080283007	GP-3 (8-10)	EPA 5035/5030B	MSV/20274	EPA 8260	MSV/20280
4080283001	TRIP BLANK	EPA 8260	MSV/20284		
4080283014	GP-3	EPA 8260	MSV/20284		
4080283002	GP-1 (2-4)	ASTM D2974-87	PMST/8628		
4080283003	GP-1 (4-6)	ASTM D2974-87	PMST/8628		
4080283004	GP-2 (2-4)	ASTM D2974-87	PMST/8628		
4080283005	GP-2 (4-6)	ASTM D2974-87	PMST/8628		
4080283006	GP-3 (4-6)	ASTM D2974-87	PMST/8628		
4080283007	GP-3 (8-10)	ASTM D2974-87	PMST/8628		
4080283008	GP-4 (2-4)	ASTM D2974-87	PMST/8628		
4080283009	GP-4 (4-6)	ASTM D2974-87	PMST/8628		
4080283010	GP-5 (2-4)	ASTM D2974-87	PMST/8628		
4080283011	GP-5 (6-8)	ASTM D2974-87	PMST/8628		
4080283012	GP-6 (2-4)	ASTM D2974-87	PMST/8628		
4080283013	GP-6 (4-6)	ASTM D2974-87	PMST/8628		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

(Please Print Clearly)

Company Name: **TRC**
 Branch/Location:
 Project Contact: **Ken Yass**
 Phone: **262-901-2165**
 Project Number: **204154**
 Project Name: **S1H38 1/2 Northern Ave**
 Project State: **WI**
 Sampled By (Print): **Drew Hepler**
 Sampled By (Sign): *[Signature]*
 PO #:
 Regulatory Program:



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

Page 1 of 2

4080283

CHAIN OF CUSTODY

*Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Y	N																	
Pick Letter	B																		
Analyses Requested	Vocs (26)																		
	X																		

Quote #:
 Mail To Contact:
 Mail To Company:
 Mail To Address:
 Invoice To Contact:
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone:

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	TRP Blank	6-26-13	-	W

CLIENT COMMENTS
 LAB COMMENTS (Lab Use Only)
 Profile #

2-40m lv^B

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed:
 Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:
 Samples on HOLD are subject to special pricing and release of liability

Relinquished By: <i>[Signature]</i>	Date/Time: 6-26-13 0830	Received By: <i>Mary Fannin</i>	Date/Time: 6/24/13 11:39
Relinquished By: <i>Mary Fannin</i>	Date/Time: 6/26/13 1330	Received By: <i>[Signature]</i>	Date/Time:
Relinquished By: <i>C.S Logistics</i>	Date/Time: 6/27/13 1000	Received By: <i>[Signature]</i>	Date/Time: 6/27/13 1000
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No.
 4080283
 Receipt Temp = **201** °C
 Sample Receipt pH
 OK / Adjusted
 Cooler Custody Seal
 Present / Not Present
 Intact / Not Intact

(Please Print Clearly)

Company Name: TRC
 Branch/Location:
 Project Contact: Ken Yass
 Phone: 262-901-2145
 Project Number: 204154
 Project Name: STH 38 3 Northwestern Ave
 Project State: WI
 Sampled By (Print): Drew Yass
 Sampled By (Sign): *[Signature]*
 PO #:
 Regulatory Program:



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

4080283

Page 53 of 54

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	N	N	N	Y	N	N	N
Pick Letter	F	F	A	D	F	A	B
Analysis Requested	VOCs (260)	Proc + Naphthalene	Total Lead	Pb/Cd Metals	GR0	DR0	VOCs (260)

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analysis Requested	VOCs (260)	Proc + Naphthalene	Total Lead	Pb/Cd Metals	GR0	DR0	VOCs (260)
		DATE	TIME									
002	GP-1 (2-4)	6-18-13	-	S	X							
003	GP-1 (4-6)				X							
004	GP-2 (2-4)				X							
005	GP-2 (4-6)				X							
006	GP-3 (4-6)				X							
007	GP-3 (8-10)				X							
008	GP-4 (2-4)	6-25-13				X	X		X	X		
009	GP-4 (4-6)					X	X		X	X		
010	GP-5 (2-4)					X	X		X	X		
011	GP-5 (6-8)					X	X		X	X		
012	GP-6 (2-4)					X	X		X	X		
013	GP-6 (4-6)					X	X		X	X		
0014	GP-3			DW	X			X			X	

Quote #:
 Mail To Contact:
 Mail To Company:
 Mail To Address:
 Invoice To Contact:
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone:
 CLIENT COMMENTS
 LAB COMMENTS (Lab Use Only)
 Profile #

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed:
 Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:

Relinquished By: *[Signature]* Date/Time: 6-26-13/0830
 Relinquished By: Mary Farnin Date/Time: 6/26/13 1330
 Relinquished By: CS Logistics Date/Time: 6/27/13 1000
 Relinquished By: Date/Time:

Received By: *[Signature]* Date/Time: 6/26/13/11:39
 Received By: Mary Farnin Date/Time: 6/26/13/11:39
 Received By: *[Signature]* Date/Time: 6/27/13 1000
 Received By: Date/Time:

PACE Project No. 4080283
 Receipt Temp = 20.1 °C
 Sample Receipt pH 8.0 / Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact

Pace Analytical™

Sample Condition Upon Receipt

Client Name: TRC Project # 4080283

Courier: Fed Ex UPS USPS Client Commercial Pace Other C.S Logistics

Tracking #: _____

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

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: _____ /Corr: R01 Biological Tissue is Frozen: yes no

Temp Blank Present: yes no no

Temp should be above freezing to 6°C for all sample except Biota.

Frozen Biota Samples should be received ≤ 0°C.

Person examining contents:

Date: 6/27/13

Initials: AMA

Comments:

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.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10. GP-1 (2-4) dry weight volume has melt
Filtered volume received for Dissolved tests:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. water in jar 6/27/13
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/W</u>	
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: <u>VOA</u> coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>AMA</u> Lab Std #ID of preservative _____ Date/Time: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15. one vial the seal is broken.
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):	<u>299</u>	<u>AMA 6/27/13</u>

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: GP-1 (2-4) dry weight volume lid is not on correctly, sample has melt water in jar. MA 6/27/13

Project Manager Review: CHP R. TW

Date: 6/27/13

Appendix E Special Provisions

Excavation, Hauling, and Disposal of Petroleum Contaminated Soil, Item 205.0501.S.

A Description

A.1 General

This special provision describes excavating, loading, hauling, and disposing of petroleum contaminated soil at a DNR licensed facility. The closest DNR licensed landfill facilities that can bioremediate this soil once excavated are:

Republic Services Kestrel Hawk Landfill
1989 Oakes Road
Racine, WI 53406
(262) 884-7080

Waste Management Metro Landfill
10712 South 124th Street
Franklin, WI 53132
(414) 529-6180

Advanced Disposal Emerald Park Landfill
W124 S10629 124th St.
Muskego, WI 53150
(414) 529-3060

Perform this work in accordance to standard spec 205 and with pertinent parts of Chapters NR 700-754 of the Wisconsin Administrative Code, as supplemented herein. Per NR 718.07, a solid waste collection and transportation service-operating license is required under NR 502.06 for each vehicle used to transport contaminated soil.

A.2 Notice to the Contractor – Contaminated Soil Location

The department and others completed testing for soil and groundwater contamination for locations within this project where excavation is required. Testing indicated that petroleum-contaminated soil is present at the following location as shown on the plans where storm sewer will be installed:

- Station 129+15 to 130+15, from reference line to project limits right, from approximately 6 feet to at least 11 feet bgs. Soil here is contaminated with benzene. Approximately 55 cubic yards (approximately 94 tons at an estimated 1.7 tons per cubic yard) of soil will be excavated from this location.

Directly load soil excavated by the project at the above location into trucks that will transport the soil to a WDNR-licensed bioremediation facility.

If contaminated soils are encountered elsewhere on the project, terminate excavation activities in the area and notify the engineer.

If dewatering is required at the above location, conduct the dewatering in accordance with Section C below. No active groundwater monitoring wells were observed within the construction limits; if any monitoring wells are encountered during construction, notify the engineer and protect them to maintain their integrity.

The excavation management plan for this project has been designed to minimize the offsite disposal of contaminated material. The excavation management plan, including these special provisions, has been developed in cooperation with the WDNR. The WDNR concurrence letter is on file at the Wisconsin Department of Transportation. For further information regarding previous investigation and remediation activities at this site contact:

Name: Mr. Andrew Malsom
Address: 141 NW Barstow Street, PO Box 798, Waukesha, WI 53187-0798
Phone: 262-548-6705
Fax: 262-548-6891
E-mail: andrew.malsom@dot.wi.gov

A.3 Coordination

Coordinate work under this contract with the environment consultant:

Consultant: TRC Environmental Corporation
Address: 150 N. Patrick Blvd. Ste. 180, Brookfield, WI 53045
Contact: Mr. Ken Yass
Phone: 262-901-2145
Fax: 262-879-1220
E-mail: kyass@trcsolutions.com

The role of the environmental consultant will be limited to:

1. Determining the location and limits of contaminated soil to be excavated based on soil analytical results from previous investigations, visual observations, and field screening of soil that is excavated;
2. Identifying contaminated soils to be hauled to the landfill facility;
3. Documenting that activities associated with management of contaminated soil are in conformance with the contaminated soil management methods for this project as specified herein; and
4. Obtaining the necessary approvals for disposal of contaminated soil from the landfill facility.

Provide at least a 14-calendar day notice of the preconstruction conference date to the environmental consultant. At the preconstruction conference, provide a schedule for all excavation activities in the areas of contamination to the environmental consultant. Also

notify the environmental consultant at least three calendar days prior to commencement of excavation activities in each of the contaminated areas.

Coordinate with the environmental consultant to ensure that the environmental consultant is present during excavation activities in the contaminated areas. Perform excavation work in each of the contaminated areas on a continuous basis until excavation work is completed.

Identify the DNR licensed landfill facility that will be used for disposal of contaminated soils, and provide this information to the environmental consultant no later than at the preconstruction conference. The environmental consultant will be responsible for obtaining the necessary approvals from the landfill facility for disposal of contaminated soils. Do not transport contaminated soil offsite without prior approval from the environmental consultant.

A.4 Health and Safety Requirements

Supplement standard spec 107.1 with the following:

During excavation activities, expect to encounter soil contaminated with gasoline, diesel fuel, fuel oil, or other petroleum related products. Site workers taking part in activities that will result in the reasonable probability of exposure to safety and health hazards associated with hazardous materials shall have completed health and safety training that meets the Occupational Safety and Health Administration (OSHA) requirements for Hazardous Waste Operations and Emergency Response (HAZWOPER), as provided in 29 CFR 1910.120.

Prepare a site-specific Health and Safety Plan, and develop, delineate and enforce the health and safety exclusion zones for each contaminated site location as required by 29 CFR 1910.120. Submit the site-specific health and safety plan and written documentation of up-to-date OSHA training to the engineer prior to the start of work.

B (Vacant)

C Construction

Supplement standard spec 205.3 with the following:

Control operations in the contaminated areas to minimize the quantity of contaminated soil excavated.

The environmental consultant will periodically monitor soil excavated from the contaminated areas. The environmental consultant will evaluate excavated soil based on field screening results, visual observations, and soil analytical results from previous environmental investigations. Assist the environmental consultant in collecting soil samples for evaluation using excavation equipment. The sampling frequency shall be a maximum of one sample for every 20 cubic yards excavated.

Directly load and haul soils designated by the environmental consultant for offsite disposal to the DNR approved landfill facility. Use loading and hauling practices that are appropriate to prevent any spills or releases of petroleum-contaminated soils or residues. Prior to transport, sufficiently dewater soils designated for off-site disposal so as not to contain free liquids.

Groundwater was observed during the Phase 2.5 investigation at the location above at a depth of ~8 or 9 feet bgs. The anticipated depth of excavation at the location above is ~6 feet bgs, and dewatering is not anticipated.

D Measurement

The department will measure Excavation, Hauling, and Disposal of Petroleum Contaminated Soil in tons of contaminated soil accepted by the landfill facility as documented by weight tickets generated by the landfill facility.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	Ton

Payment is full compensation for excavating, segregating, loading, hauling, and disposal of contaminated soil; obtaining solid waste collection and transportation service operating licenses; assisting in the collection soil samples for field evaluation; and dewatering of soils prior to transport, if necessary. No additional payment will be made for tipping fees associated with the disposal of contaminated soil.

205-003 (20080902)