150 North Patrick Blvd.
Suite 180
Brookfield, WI 53045

262.879.1212 PHONE
262.879.1220 FAX

www.TRCsolutions.com

August 23, 2016

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

Subject: Underground Storage Tank Removal
STH 38 (Northwestern Avenue), Golf Avenue to Memorial Drive,
Racine, Racine County, Wisconsin
WisDOT Project ID #2290-17-70, BRRTS# 02-52-549890
TRC Project #243216.0000.0000

Dear Mr. Malsom:

Enclosed is the UST Abandonment Report for the STH 38 (Northwestern Avenue) reconstruction project located in Racine, Racine County, Wisconsin. Two tanks were encountered during the reconstruction project within the WisDOT ROW at the northern quadrant of the State St. and Spring St. intersection. Residual soil contamination remains on-site and is likely related to a former release of petroleum material from the tanks, in addition to the known benzene contamination in the area (BRRTS# 02-52-549890).

Please contact me at 262-901-2142 with any questions or comments.

Sincerely,

TRC Environmental Corporation

Tyler Stapel, P.E.
Project Engineer

cc: WDNR UST Closure Assessments (hard copy and pdf on CD)
Alice Egan – WDNR (hard copy and pdf on CD)
Shar TeBeest – WisDOT (hard copy and pdf on CD)
Jim Morse – TRC

Underground Storage Tank Removal

STH 38 (Northwestern Avenue), Golf Avenue to Memorial Drive
Racine, Racine County, Wisconsin

WisDOT ID #2290-17-70
WDNR BRRTS #02-52-549890

August 2016

Underground Storage Tank Removal

STH 38 (Northwestern Avenue), Golf Avenue to Memorial Drive
Racine, Racine County, Wisconsin

WisDOT ID #2290-17-70
WDNR BRRTS #02-52-549890

August 2016

Lydia Auner
Project Scientist

Tyler Stapel, P.E.
Project Manager

James E. Morse
Senior Client Service Manager

TRC Environmental Corporation | Wisconsin Department of Transportation
Final
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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
DATCP	Department of Agriculture, Trade and Consumer Protection
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
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 in the process of reconstructing STH 38 (Northwestern Ave.) from Golf Ave. to Memorial Dr. in Racine, Racine County, WI, WisDOT ID #2290-17-70. In July of 2013, TRC completed a Phase 2.5 Investigation that identified benzene-contaminated soil north of the intersection of STH 38 and Spring St. As part of the reconstruction project, soil was excavated at this location for the installation of a storm sewer. On May 3, 2016, while grading in the area of benzene contamination, two previously unidentified USTs were uncovered within the WisDOT ROW.

Both tanks were found adjacent to the One-Hour Martinizing property at 1730 State Street, which is identified as BRRTS No. 02-52-549890. The location of the former USTs is not identified in the WDNR BRRTS database. Additionally, no tanks are listed for the property in the online DATCP storage tank database. The USTs were found to be in poor condition, with holes and rust deterioration. There was approximately 2 feet of water in each tank.

On May 5, TRC and its subcontractor SGS Environmental Contracting, LLC (SGS) were on site to clean and remove the USTs.

On May 6, TRC and SGS returned to the site to excavate soil immediately surrounding the previous location of the USTs. Two loads of soil totaling 42.93 tons were excavated from the area. Following the removal of the soil, samples were collected from the excavation sidewalls and bottom. Strong petroleum odors and high PID readings were noted in each soil sample. Samples were submitted for laboratory analysis of VOCs and RCRA Metals. Groundwater was not encountered during the UST removal.

The analytical results confirmed petroleum-contaminated soil present throughout the former UST cavity. Arsenic was found in exceedance of the WDNR NR 720 RCL for industrial direct contact in one sample. Naphthalene was found in exceedance of the WDNR NR 720 RCLs for non-industrial direct contact in one sample. There were no other direct contact pathway RCL exceedances.

The tank conditions, combined with evidence of contamination in the surrounding soil, indicate that the contamination likely originated from the tanks. A release has been reported to the WDNR. TRC recommends that no further investigation or remediation be completed by the WisDOT.

Because roadway construction is occurring near the former USTs, contractors for the STH 38 Northwestern Avenue reconstruction project have been made aware of the location of residual soil contamination at this site.

Section 1
Introduction

1.1 Background

The WisDOT is in the process of reconstructing STH 38 (Northwestern Ave.) from Golf Ave. to Memorial Dr. in Racine, Racine County, WI, WisDOT ID #2290-17-70. As part of the reconstruction project, soil was excavated for the installation of a storm sewer in an area of known benzene contamination adjacent to the One-Hour Martinizing property. On May 3, 2016, while grading in the area of benzene contamination, two USTs were uncovered in the WisDOT ROW by Buteyn-Peterson Construction Co., Inc., the contractor on-site for grading and sewer installation. See Figures 1 and 2 for the project location and a site map.

The One-Hour Martinizing dry cleaning facility, adjacent to the area excavated for the storm sewer installation, is listed with BRRTS as being under an ERP (BRRTS #02-52-549890). TRC reviewed the DATCP storage tank database and the Phase 1 HMA for the project. Information presented in the DATCP database indicated that no tanks have been registered to the property. The WDNR BRRTS information and RR Site maps are included in Appendix A.

The Phase 1 HMA identified the property as having hazardous materials concerns. As a result, a Phase 2.5 Investigation was completed in July 2013 to determine the extent of soil contamination. During this investigation, benzene-contaminated soil was identified to the north of STH 38 Northwestern Avenue, between Station 129+15 and 130+15, from reference line to project limits right, from approximately 6 to at least 11 feet bgs. The scope of the investigation did not include searching for or locating former tanks. Phase 1 information for the property is included in Appendix B.

On May 6, 2015, TRC and its subcontractor, SGS of Merrill, Wisconsin, were on-site to abandon the USTs and any associated piping.

TRC's subcontractor and site personnel for this project were as follows:

SGS Environmental Contracting, LLC
N2570 Daytona Drive
Merrill, Wisconsin 54452
(715) 539-2803
WI LUST Remover/Cleaner Cert. George Frick (#42191)

Tyler Stapel, P.E.
TRC Environmental Corp.
150 N. Patrick Blvd., Ste. 180
Brookfield, WI, 53045
(262) 901-2142
Wisconsin Site Assessor Cert. #1138565

1.2 Purpose and Scope

The purpose of this report is to document the abandonment and removal of the USTs and associated piping from within the WisDOT ROW adjacent to 1730 State St. in Racine, Wisconsin. This report has been prepared in conformance with the Wisconsin Administrative Code, Chapter ATCP 93 "Flammable, Combustible, and Hazardous Liquids."

Section 2
Description of the Site Activities

On May 3, 2016, while grading in the area of benzene contamination, two USTs were uncovered in the WisDOT ROW by Buteyn-Peterson Construction Co., Inc., the contractor on-site for grading and sewer installation. TRC was notified and immediately began planning for the removal of the tanks.

On May 5, 2016, TRC and SGS mobilized to the site to empty, purge, clean, remove, and dispose of the USTs in accordance with the Wisconsin Administrative Code, Chapter ATCP 93 "Flammable, Combustible and Hazardous Liquids." A photographic log of the onsite work is included in Appendix C.

The USTs were located on the WisDOT ROW, to the north of STH 38 and adjacent to the One-Hour Martinizing dry cleaning facility at 1730 State Street. The USTs were oriented perpendicular to STH 38 Northwestern Avenue.

Both USTs were 1,000 gallons in capacity, and were constructed of single-wall steel. When the tanks were exposed, approximately 2 feet of water was found inside each tank. After SGS monitored the inner tank atmosphere and found it to be non-combustible, the top of the tanks were cut open. A total of approximately 1,000 gallons of water was then pumped out by a vacuum truck by Chief Environmental (Chief). Following the removal of the tank contents, the tanks were cleaned and removed from the ground with a backhoe. Tank sludge and residual cleaning liquids were containerized for disposal by Veolia under the State disposal contract. Groundwater was not encountered during the removal. Disposal documentation for the tank contents and the tank is included in Appendix D. The tank closure checklists and tank inventory record are provided in Appendix E.

After removal of the tanks, TRC inspected the condition for holes or other signs of deterioration. Several small (cm-size) holes were found on both tanks. Staining, petroleum odors, and elevated PID results indicated that the soil surrounding the tanks was contaminated.

On May 6, TRC and SGS returned to the site to remove contaminated soil from the immediate area surrounding the tanks. Two loads of soil totaling 42.93 tons were excavated. The soil excavation extent was limited by the presence of a monitoring well to the northwest, private property to the northeast, and a storm sewer manhole and fiber optic cable to the southwest. The excavated tank cavity was approximately 20′ long and 12′ wide. In general, the soil surrounding the tank consisted of a sandy clay. Following the removal of the soil, a total of

14 samples were collected from the excavation sidewalls and bottom. During field screening of the soil samples with a PID, petroleum odors were noted and PID detections ranged from 59.4 to 1900 Instrument Units. Documentation of the soil disposal is included in Appendix F.

Eight sidewall samples were collected 6" to 12" into the excavation wall at an elevation approximately equivalent to the middle of the tanks, or roughly 3 feet bgs. Two samples were taken on each edge of the excavation boundary: four samples were taken in line with the tanks at each tank end, and four samples were taken along the sides of the tanks. Six bottom samples were collected at the bottom of the excavation, or roughly 8 feet bgs. The locations of the soil samples are depicted on Figure 3.

The 14 soil samples were submitted for laboratory analysis of VOCs and RCRA Metals. The analytical results of the soil sampling indicated petroleum soil contamination was present within the entire UST cavity, except along the southwestern sidewall (samples SW 1 and SW 2). Naphthalene was the only VOC analytic to exceed the NR 720 RCL for non-industrial direct contact. Multiple VOCs were found to exceed the NR 720 RCL for the groundwater pathway. Arsenic was the only metals analytic to exceed the NR 720 RCL for the industrial direct contact pathway. Cadmium and selenium each had one exceedance of the groundwater pathway RCL that was also above the limit of quantification. Soil sample results are summarized in Table 1. The laboratory analytical report is provided in Appendix G.

The laboratory data was used to determine if the cumulative concentrations exceeded Hazard Index and Cancer Risk values for the site. The calculated value for Cancer Risk was found to exceed the NR 720 RCL for one sample, TB 3. No other Cancer Risk or Hazard Index exceedances were found. Hazard Index and Cancer Risk calculations are included in Appendix H.

Section 3
Findings and Conclusions

TRC's observations and the laboratory results of the soil samples collected from the tank cavity indicate the following:

- Two USTs, each 1,000 gallons in size, were removed from the WisDOT ROW on STH 38. The tanks were removed in accordance with the requirements of the Wisconsin Administrative Code, Chapter ATCP 93, "Flammable, Combustible and Hazardous Liquids." Obvious contamination was present therefore, a site assessment was performed on the UST cavity.
- Tank contents consisting of liquid were observed within the USTs and were removed by means of a vacuum truck. The tank contents, totaling approximately 1,000 gallons, were disposed.
- Petroleum odors were observed during and after the UST removal. Elevated PID readings were detected in collected soil samples.
- After removal of the USTs, the each tank's condition was found to be deteriorated, with several small (cm-size) holes. Contamination found in the soil surrounding the tanks, at depths shallower than the known benzene contamination, suggest a release of petroleum from the tanks.
- Fourteen soil samples were collected as part of the Tank Site Assessment and submitted for laboratory analyses. Analytical results for the soil samples collected indicated that contaminants exceeding NR 720 concentrations are present in the soil surrounding the former tanks.

Section 4
Recommendations

Based on the results of the UST closure assessment and laboratory results, residual soil contamination is present surrounding the former USTs. Historical site information indicates that some of the contamination observed between 6 and 11 feet bgs may have originated from the same source as the known benzene contamination. However, the contamination in surrounding soils shallower than 6 feet bgs and the poor tank conditions are evidence that petroleum contamination has originated from a release from the tanks.

As a result, of the contamination related to the UST, and historical benzene contamination from the nearby dry cleaning operation. Some soil that formerly surrounded the tanks was removed.

A release has been reported to the WDNR. TRC recommends that no further investigation or remediation be completed by the WisDOT.

Because roadway construction is occurring near the former USTs, contractors for the STH 38 Northwestern Avenue reconstruction project have been made aware of the location of residual soil contamination at this site.

Table 1
Soil Sampling Results Summary – Tank Removal
STH 38 (Northwestern Avenue), Golf Avenue to Memorial Drive, Racine, Wisconsin
WisDOT Project ID 2290-17-70; TRC Project ID 257062.0000.0000

	NR 720 SOIL RCLs[4]				SOIL SAMPLE ID AND DEPTH													
		DIRECT CONTACT PATHWAY			SW 1	SW 2	SW 3	SW 4	SW 5	SW 6	SW 7	SW 8	TB 1	TB 2	TB 3	TB 4	TB 5	TB 6
	SOIL TO GROUNDWATER PATHWAY[2]	NON-INDUSTRIAL DIRECT CONTACT[3]	INDUSTRIAL DIRECT CONTACT[3]	SURFICIAL BACKGROUND THRESHOLD [5]	3' bgs	3' bgs	3' bgs	3' bgs	3' bgs	3' bgs	3' bgs	3' bgs	8' bgs	8' bgs	8' bgs	8' bgs	8' bgs	8' bgs
ANALYTES[1]					SAMPLES COLLECTED MAY 6, 2016													
PID Readings	-	-	-	-	114.5	59.4	1355	1900	742	1867	1744	1335	839	800	684	1070	490	820
VOCs (µg/kg)																		
Benzene	5.1	1,490	7,410	-	<8.1	<8.6	*120*	*110*	<11	*310*	*36*	<19	*440*	*250*	*510*	*1400*	*920*	*210*
n-Butylbenzene	-	108,000	108,000	-	<22	<23	690	<49	<28	4800	1500	<51	300	<25	280	280	280	840
sec-Butylbenzene	-	145,000	145,000	-	<22	<24	480	740	<29	1200	730	<53	280	270	210	260	220	420
Isopropylbenzene (Cumene)	-	268,000	268,000	-	<21	<23	890	1300	<28	3000	1200	89 J	650	650	650	770	730	510
p-Isopropyltoluene	-	162,000	162,000	-	<20	<21	310	320	<26	880	320	<48	130	200	170	230	170	190
Naphthalene	658.2	5,150	26,000	-	<19	<20	62 J	<42	<24	**8800**	380	<44	<22	330	71	120	81	<45
N-Propylbenzene	-	264,000	264,000	-	<23	<24	1900	2000	<30	9600	3400	240	1000	1500	1200	1400	1500	1300
Toluene	1,107.2	818,000	818,000	-	<8.2	<8.7	<9.8	<19	<11	89	<9.9	<19	<9.5	<9.4	<9.6	80	40	<20
1,2,4-Trimethylbenzene	1382.1[6]	89,800	219,000	-	<20	<21	72	<45	52 J	*46000*	<24	<47	<23	64	<23	130	120	<48
1,3,5-Trimethylbenzene	1382.1[6]	182,000	182,000	-	<21	<22	69	<48	<28	*16000*	<26	<50	<24	83	150	230	200	110 J
Xylenes	3,960	260,000	260,000	-	<12	<13	<15	<28	<16	360	<15	<29	<14	<14	36	64	55	<30
Metals (mg/kg)																		
Arsenic	0.584	0.613	2.39	8.0	1.5	2.4	4.4	5.6	7.2	5.4	4.6	4.5	4.2	4.6	**15**	4.0	5.4	5.1
Barium	164.8	15,300	100,000	364	11 B	15 B	34 B	33 B	78 B	42 B	35 B	55 B	39 B	33 B	35 B	41 B	39 B	43 B
Cadmium	0.752	70	799	1.0	<0.059	0.18 J	0.23	0.22	0.24	0.31	0.27	*1.2*	0.26	0.25	0.22	0.28	0.23	0.36
Chromium	360,000	-	-	44	3.6	4.5	13	14	27	16	13	14	15	12	16	16	16	15 V
Lead	27	400	800	52	6.1	5.2	9.3	9.7	20	12	20	*98*	9.5	10	20	11	9.7	23 F1
Selenium	0.52	391	5,110	-	*1.1*	*0.74 J*	<0.53	*0.53 J*	*0.59 J*	<0.50	*0.59 J*	*0.74 J*	*0.65 J*	<0.49	<0.53	*0.82 J*	<0.48	*0.73 J F1*
Silver	0.8491	391	5,110	-	0.15 J	<0.11	<0.12	<0.12	<0.14	<0.12	<0.12	<0.12	<0.13	<0.12	<0.13	<0.12	<0.11	<0.13
Mercury	0.208	3.13	3.13	-	<0.0084	<0.0090	0.079	0.078	0.11	0.023	0.12	*0.23*	0.027	0.038	0.024	0.024	0.024	0.15
Hazard Index (Cumulative)																		
Non-Industrial		1.0	-	-	0.0032	0.0019	0.0080	0.008	0.0086	0.5887	0.0126	0.0327	0.0078	0.0077	0.4445	0.0193	0.0125	0.0135
Industrial		-	1.0	-	0.0002	0.0001	0.0017	0.0015	0.0018	0.1352	0.0025	0.1274	0.0013	0.0016	0.0405	0.0034	0.0024	0.0027
Cancer Risk (Cumulative)																		
Non-Industrial		1.00E-05	-	-	0.0E+00	0.0E+00	9.3E-08	7.4E-08	0.0E+00	1.90E-06	9.80E-08	5.7E-10	3.0E-07	2.3E-07	**2.5E-05**	9.6E-07	6.3E-07	1.4E-07
Industrial		-	1.00E-05	-	0.0E+00	0.0E+00	1.9E-08	1.5E-08	0.0E+00	3.8E-07	1.9E-08	1.1E-10	5.9E-08	4.6E-08	6.3E-06	1.9E-07	1.3E-07	2.8E-08

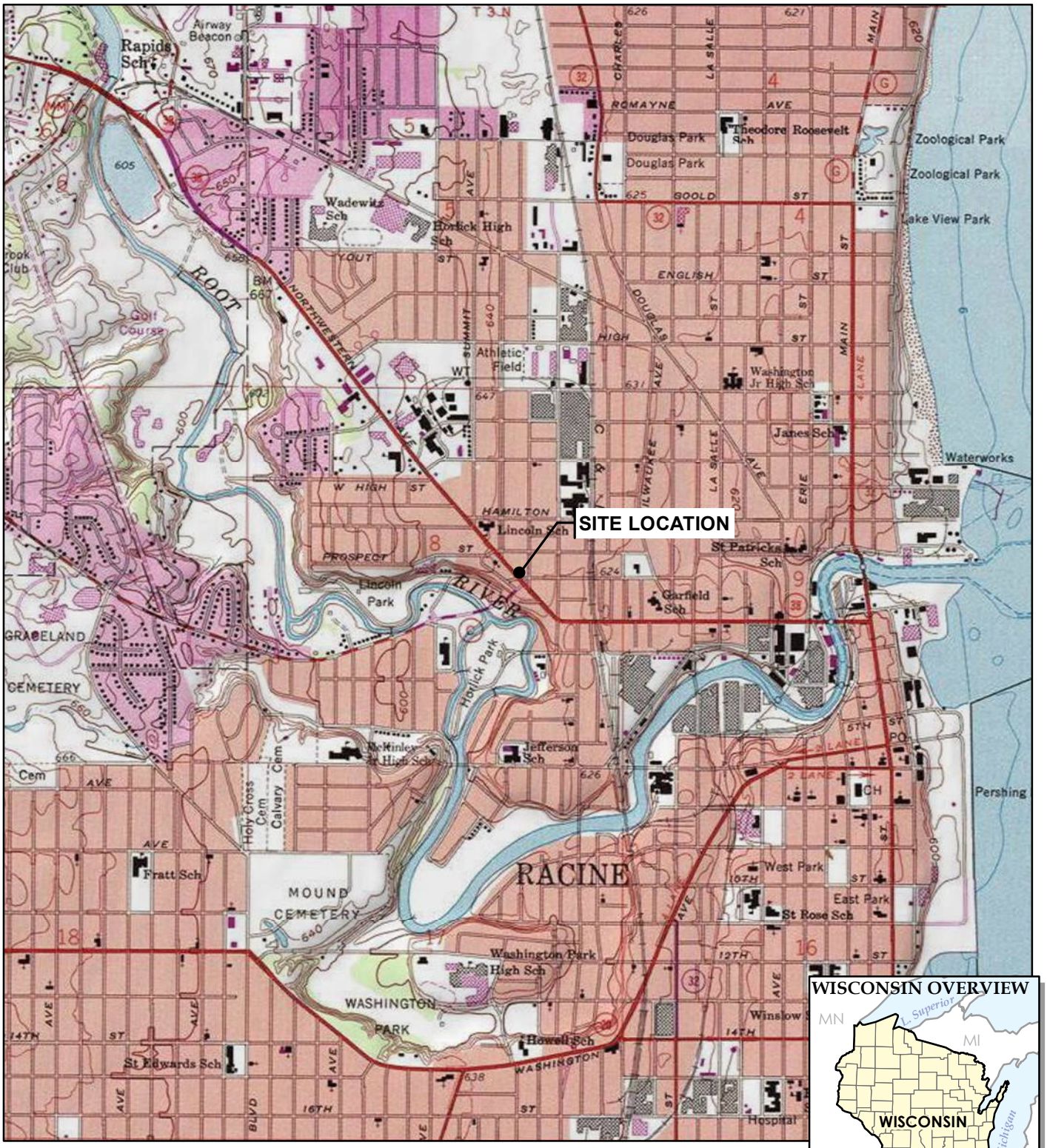
Notes:

Created By: M. Kahrilas 5/31/2016
Checked By: L. Auner 6/1/2016

1 PID = Photoionization Detector.
2 µg/kg = micrograms per kilogram (ppb).
3 Samples were collected by TRC and analyzed by TestAmerica (WDNR Cert. #999580010).
4 - = Suggested standard has not been established for this analyte.
5 - - = Sample was not analyzed for given analyte or field does not apply.
6 RCLs = Residual Contaminant Levels.
7 J = Result is less than the RCL but greater than or equal to the MDL and the concentration is an approximate value.
8 B = Compound was found in the blank and sample.
9 V = Serial Dilution exceeds the control limits.
10 F1 = MS and/or MSD Recovery is outside acceptance limits.
11 Results in **BOLD** indicate a detection (or potential detection if J-flagged) above the Non-Industrial or Industrial Direct Contact NR 720 RCL.
12 Results in *Italics* indicate a detection (or potential detection if J-flagged) above the Groundwater Pathway NR 720 RCL.

Footnotes:

(1) Only analytes that were detected in at least one sample are shown in the table.
(2) Value is the generic RCL for the groundwater pathway.
(3) Value is the generic RCL for exposure by direct contact.
(4) Calculated from http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search using default exposure assumptions listed in NR 720.12(3)
(5) Background threshold value (BTV) was taken from the Wisconsin DNR's NR 720 RCL spreadsheet
(6) Groundwater Pathway RCL for Trimethylbenzenes (1,2,4- and 1,3,5- combined).



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.

N

1 " = 2,000 '
1:24,000

0 2,000 4,000 FEET

TRC

708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

TRC - GIS

PROJECT:

WISDOT ID# 2290-17-70
STH 38
RACINE, RACINE COUNTY, WISCONSIN

TITLE:

SITE LOCATION MAP

DRAWN BY:	B RHODE
CHECKED BY:	L AUNER
APPROVED BY:	W STAPEL
DATE:	JULY 2016
PROJ. NO.:	243216
FILE:	243216-001slm.mxd

FIGURE 1

E:\WI_DOT\2016_243216\243216-001slm.mxd -- Saved By: JPAPEZ on 7/28/2016, 17:26:42 PM

1 " = 100 '
1:1,200

0 100 200 FEET

NOTES:
BASE MAP IMAGERY FROM ESRI/MICROSOFT, 2011.
MAP PROJECTION AND GRID COORDINATES ARE NAD83 STATE PLANE WI - SOUTH, US FEET.

TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600
TRC - GIS

PROJECT:

WISDOT ID# 2290-17-70
STH 38
RACINE, RACINE COUNTY, WISCONSIN

TITLE:

SITE MAP

DRAWN BY:	B RHODE
CHECKED BY:	L AUNER
APPROVED BY:	W STAPEL
DATE:	JULY 2016
PROJ. NO.:	243216
FILE:	243216-002.mxd

FIGURE 2

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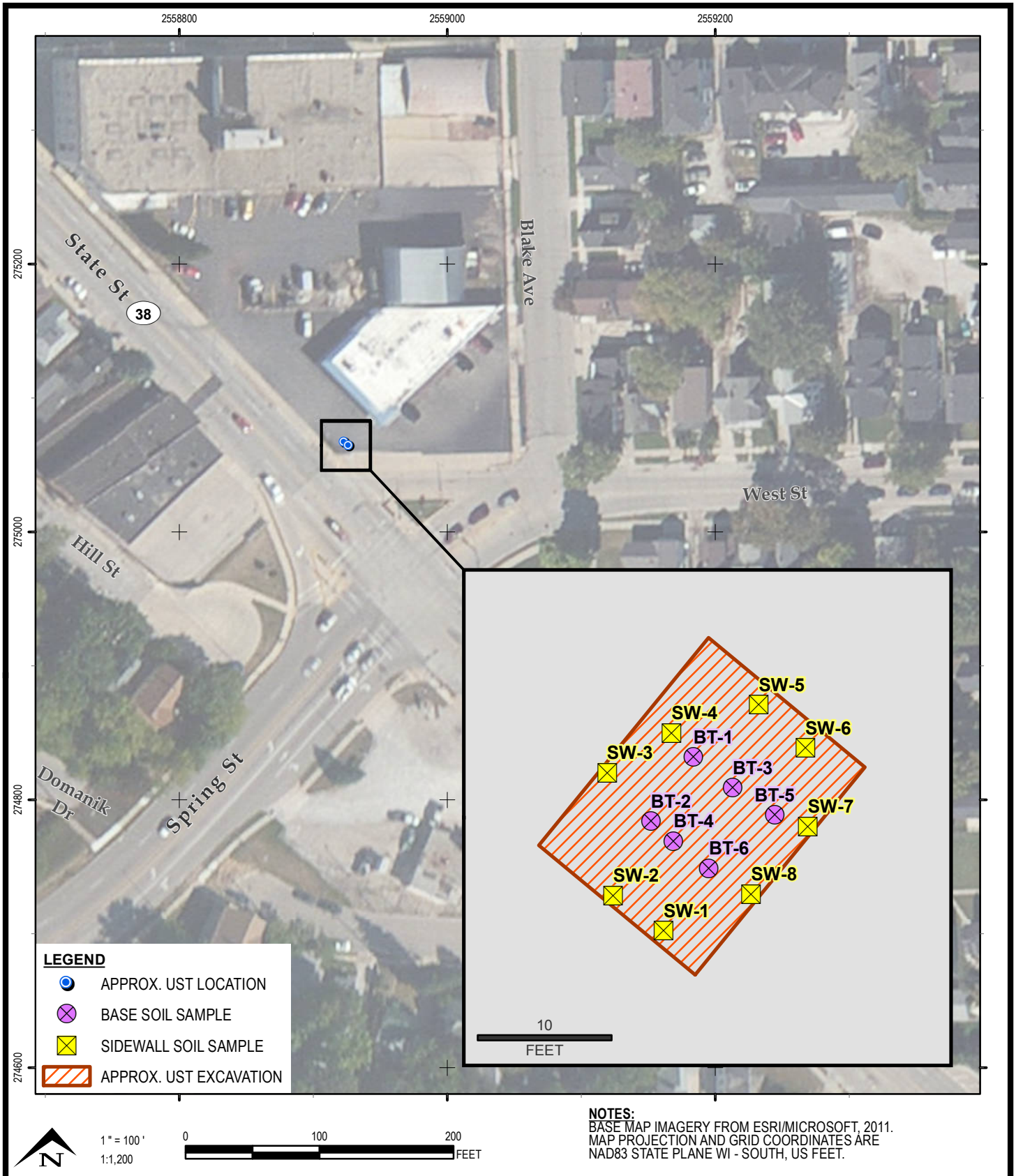

NOTES:
BASE MAP IMAGERY FROM ESRI/MICROSOFT, 2011.
MAP PROJECTION AND GRID COORDINATES ARE NAD83 STATE PLANE WI - SOUTH, US FEET.

TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600
TRC - GIS

PROJECT:

WISDOT ID# 2290-17-70
STH 38
RACINE, RACINE COUNTY, WISCONSIN

TITLE:

SOIL SAMPLE LOCATIONS

DRAWN BY:	B RHODE
CHECKED BY:	L AUNER
APPROVED BY:	W STAPEL
DATE:	JULY 2016
PROJ. NO.:	243216
FILE:	243216-003.mxd

FIGURE 3

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Appendix A
BRRTS Site Listing and Map

Wisconsin Department of Natural Resources

Environmental Cleanup & Brownfields Redevelopment

BRRTS on the Web

Click the Location Name below to view the Location Details page for this Activity. Other Activities, if present, may be viewed from that page.

< Basic Search

02-52-549890 MARTINIZING DRYCLEANING

OPEN ERP

Location Name (Click Location Name to View Location Details)				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)
			-87.8022111	252251010	UNKNOWN
Jurisdiction	PECFA No.	EPA Cerclis ID	Start Date	End Date	Last Action
DNR RR			2007-06-01		2016-02-02

Characteristics

PECFA Tracked?	EPA NPL Site?	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 Action 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	DERF BID PROP NORTHERN
2007-11-07	99	Miscellaneous	DERF BID PROP GILES
2007-11-09	99	Miscellaneous	DERF BID PROP SIGMA
2009-07-28	113	Receipt of Bid Review Requests - DERF	CONSULTANT SELCTION FORM
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	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	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
Linked to Code 130:		0252549890_VI_Letter.pdf Click to Download or Open	
2011-11-21	99	Miscellaneous	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)	
2012-03-30	140	Site Investigation Report Not Approved	MORE INF NECESSARY TO COMPLETE SI
2014-01-30	130	DNR Regulatory Reminder Sent	DERF FUNDING STATUS LTR
2014-09-25	195	Semi-Annual/PECFA Cost Reporting Requirement Met	Period: 1/1/2014 - 6/30/2014
Click 195 Action Name above to view the NR700 report			
2015-01-15	195	Semi-Annual/PECFA Cost Reporting Requirement Met	Period: 7/1/2014 - 12/31/2014
Click 195 Action Name above to view the NR700 report			
2015-02-26	112	Receipt of Change Orders - DERF	SI INV
2015-06-24	198	Request for Additional Information (Fee-Based or Closure)	PENDING RESUBMITTAL OF WORKPLAN AND RECOSTING
2015-06-24	99	Miscellaneous	OWNER PASSED AWAY AND FAMILY IS COMING UP TO SPEED ON THE DRYCLEANER PROCESS.
2015-07-06	195	Semi-Annual/PECFA Cost Reporting Requirement Met	Period: 1/1/2015 - 6/30/2015
Click 195 Action Name above to view the NR700 report			
2015-11-06	112	Receipt of Change Orders - DERF	CHANGE ORDER #3 - CORRECTED COSTS
2016-02-02	195	Semi-Annual/PECFA Cost Reporting Requirement Met	Period: 7/1/2015 - 12/31/2015
Click 195 Action Name above to view the NR700 report			

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

Role	Name/Address
Project Manager	SHANNA LAUBE-ANDERSON 9531 RAYNE RD STURTEVANT, WI 53177
Responsible Party	DOUG BERRY 3319 NOBBHILL DR RACINE, WI

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.

Release 2.4.11 | 03/24/2016 | Release Notes

Legend

- Open Site (ongoing cleanup)
- Open Site Boundary
- Closed Site (completed cleanup)
- Closed Site Boundary
- Groundwater Contamination
- Soil Contamination
- Groundwater and Soil Contamination
- Contamination From Another Property
- Dryclean Environmental Response Fund (DERF)
- Green Space Grant (2004-2009)
- Ready for Reuse
- Site Assessment Grant (2001-2009)
- State Funded Response
- Sustainable Urban Development Zone (S
- General Liability Clarification Letters
- Superfund NPL
- Voluntary Party Liability Exemption
- Rivers and Streams
- Open Water
- Municipality
- State Boundaries
- County Boundaries
- Major Roads
  - Interstate Highway
  - State Highway
  - US Highway

Notes

0.0 0 0.02 0.0 Miles

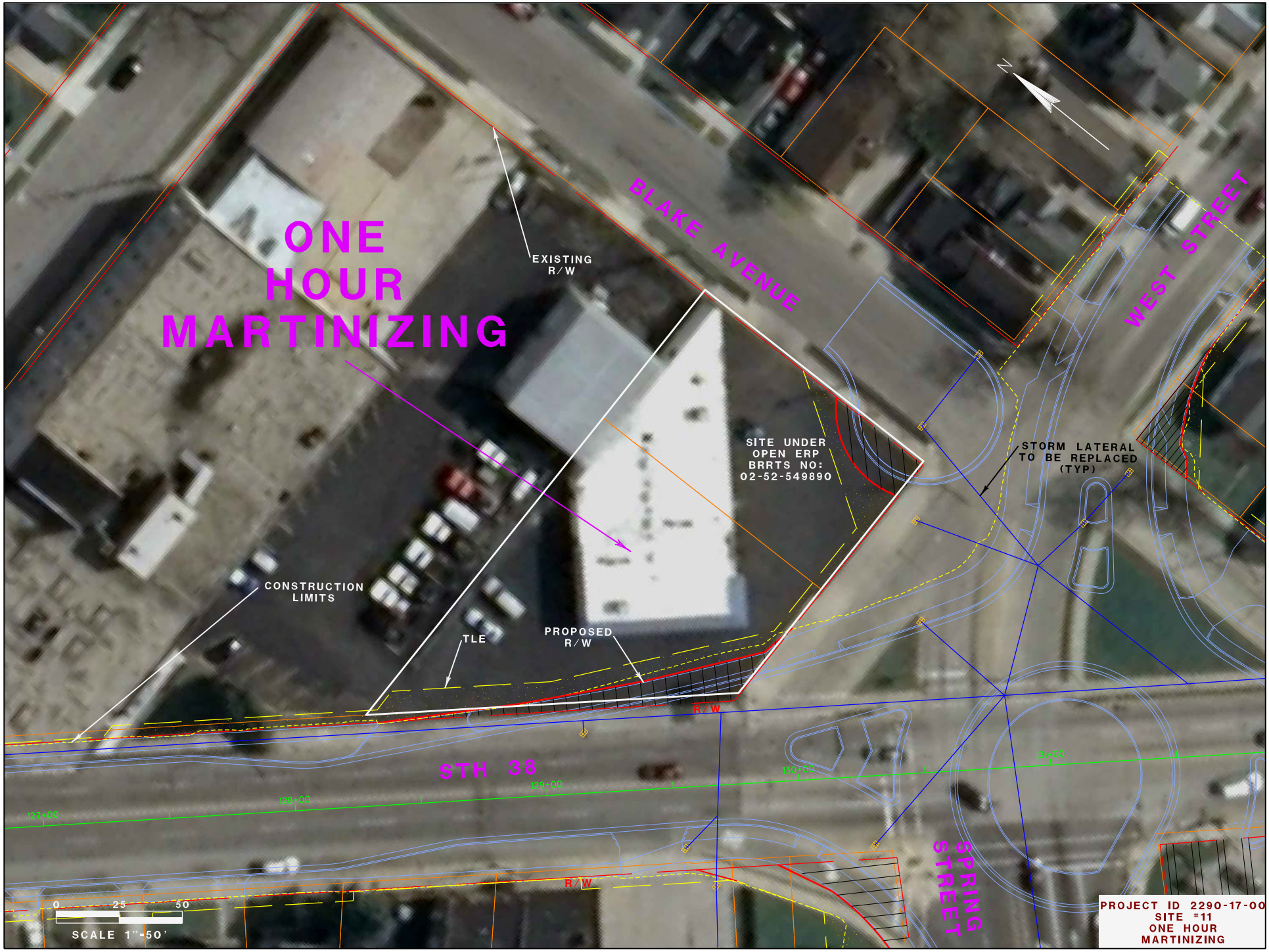
NAD_1983_HARN_Wisconsin_TM

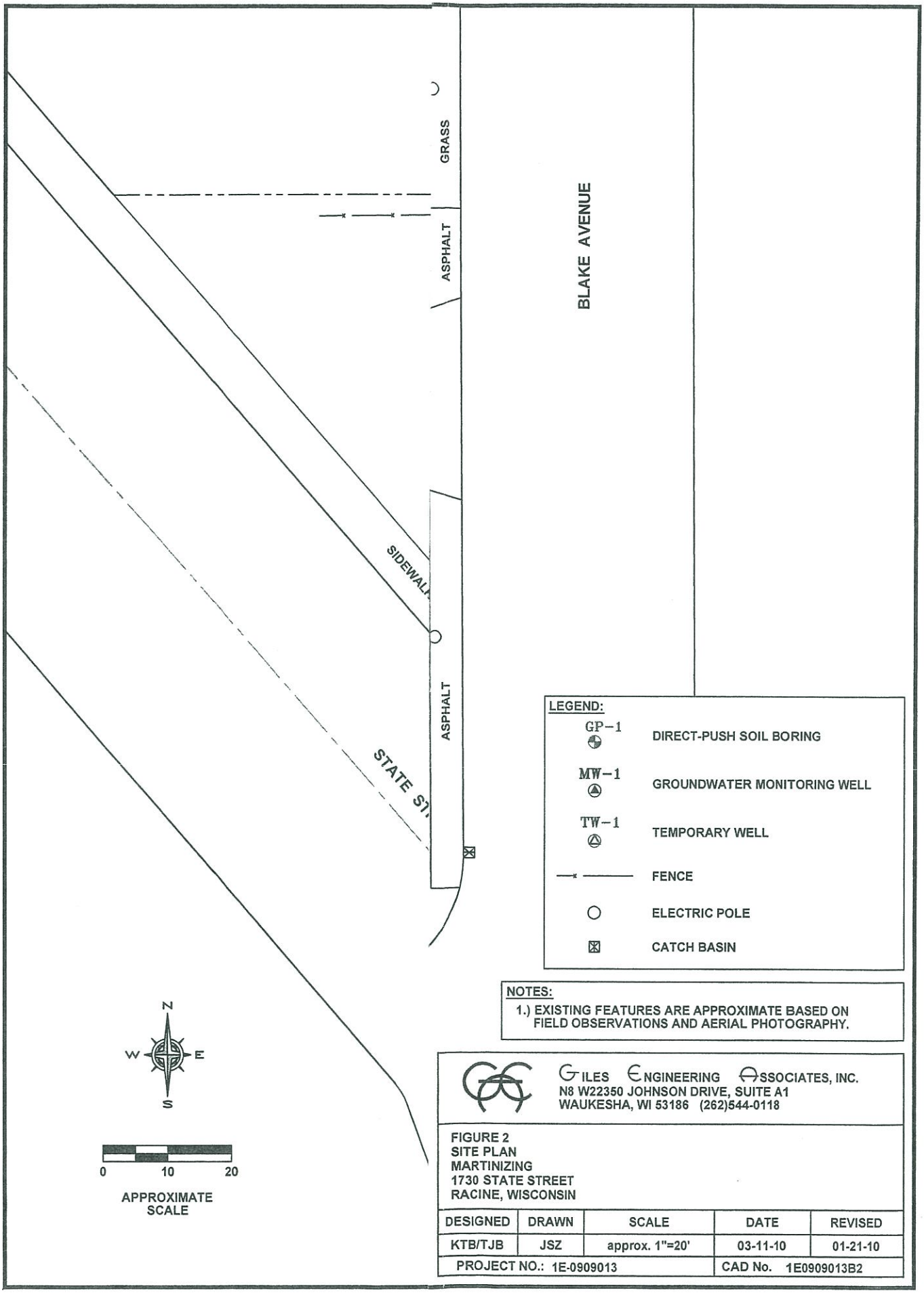
1: 990

DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made aregarding accuracy, applicability for a particular use, completemenss, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: http://dnr.wi.gov/org/legal/

Note: Not all sites are mapped.

Appendix B
Phase 1 Site Information

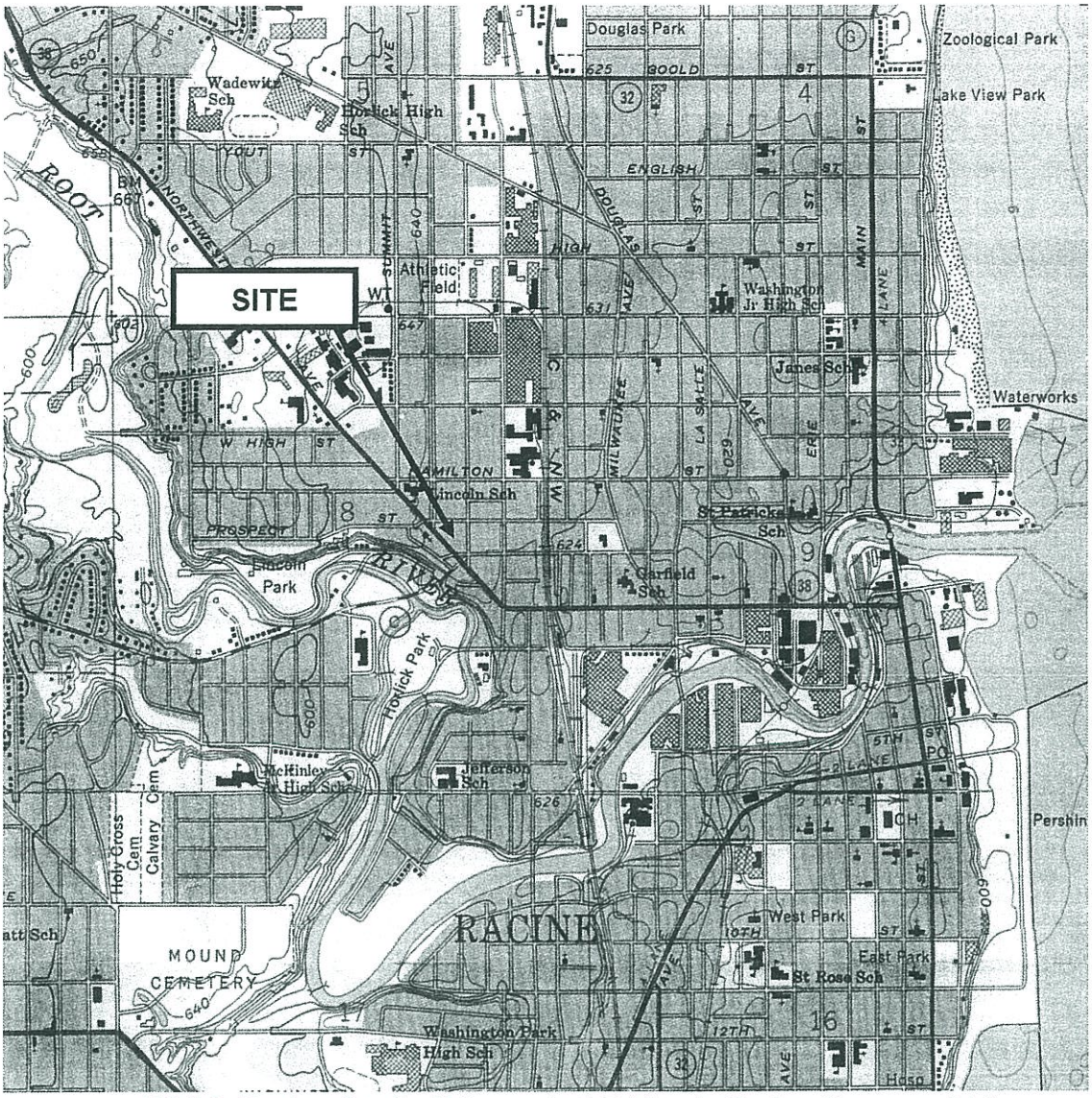

ONE HOUR MARTINIZING
EXISTING R/W
BLAKE AVENUE
WEST STREET
SITE UNDER OPEN ERP BRRTS NO: 02-52-549890
STORM LATERAL TO BE REPLACED (TYP)
CONSTRUCTION LIMITS
TLE
PROPOSED R/W
R/W
STH 38
SPRING STREET
R/W
0 25 50
SCALE 1"=50'
PROJECT ID 2290-17-00
SITE #11
ONE HOUR MARTINIZING



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	



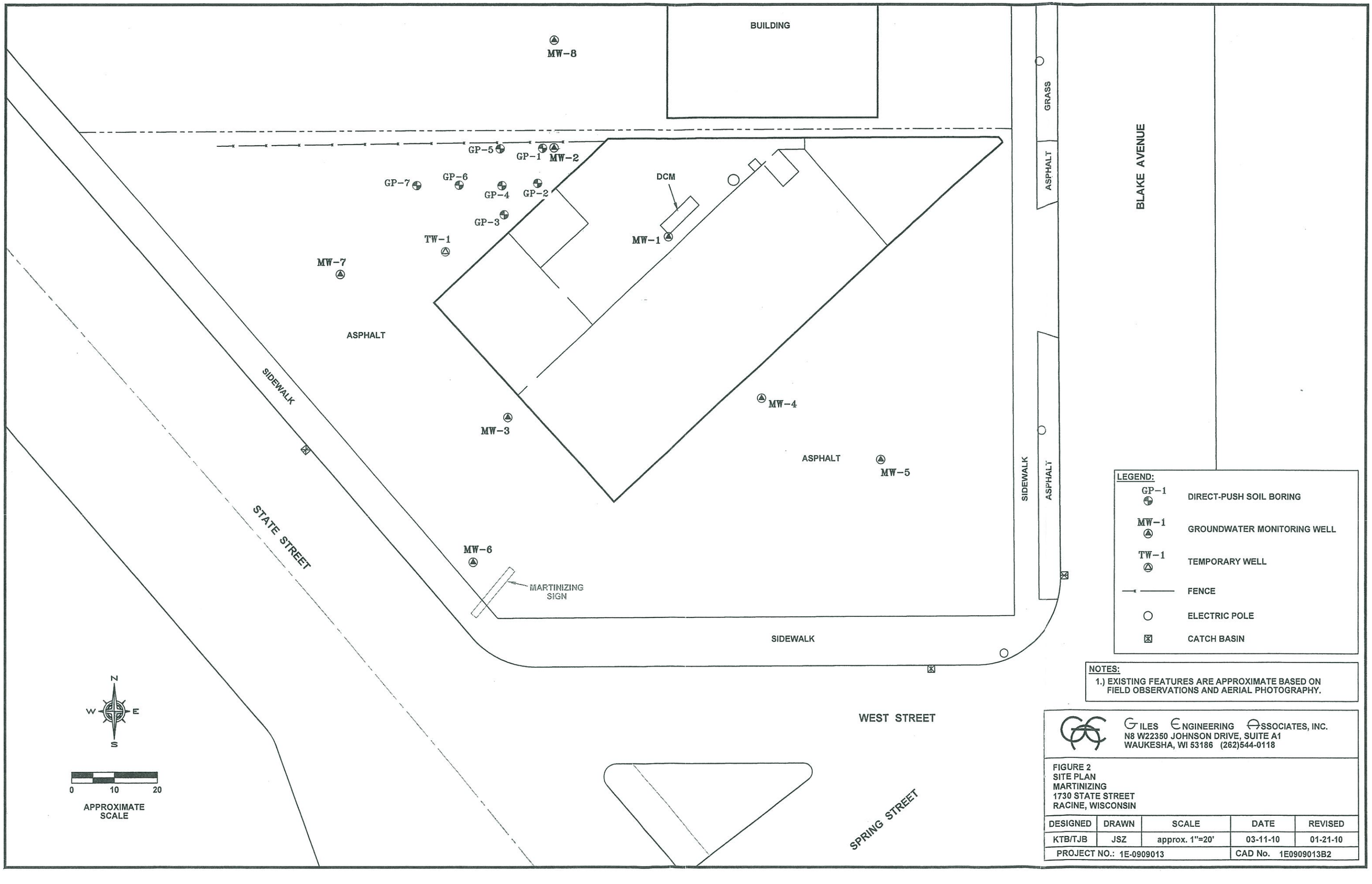
Source: USGS *Racine South, Wisconsin* 7.5-Minute Series (topographic) Quadrangle Map (1958; photorevised in 1971 and 1976)

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

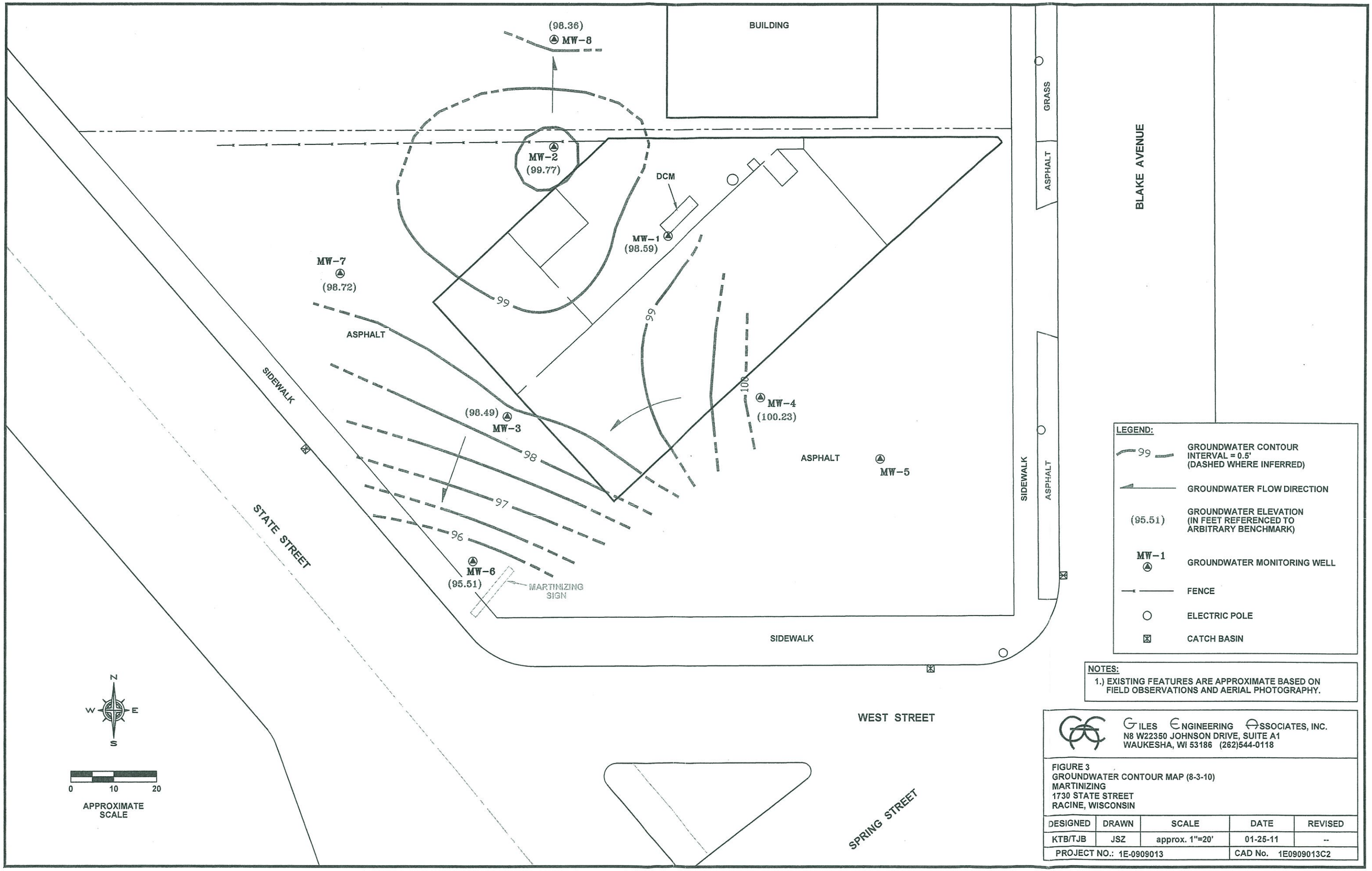
NOTES:

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

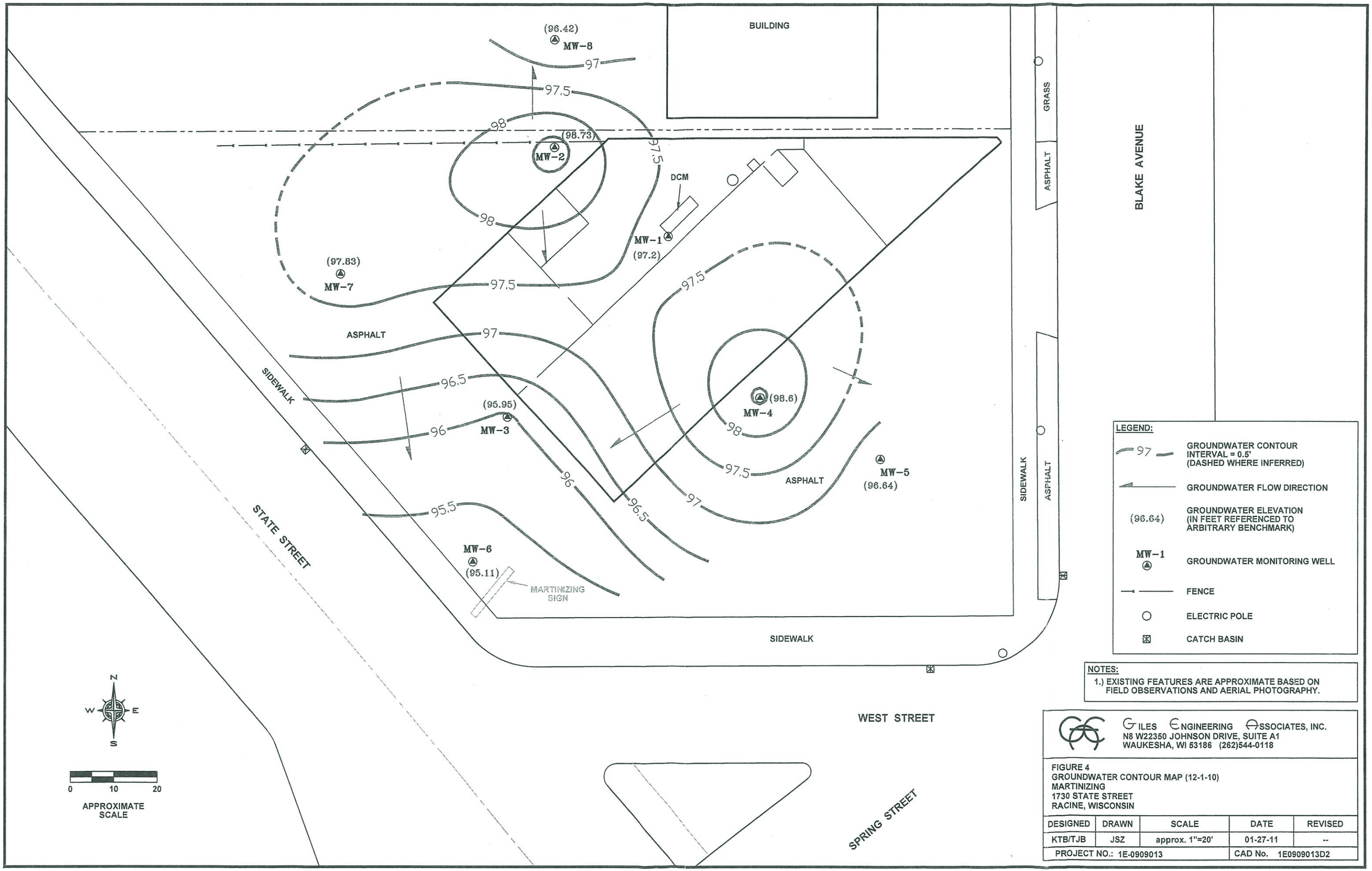
DESIGNED	DRAWN	SCALE	DATE	REVISED
KTB/TJB	JSZ	approx. 1"=20'	03-11-10	01-21-10
PROJECT NO.: 1E-0909013			CAD No. 1E0909013B2	



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	



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	

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	GP-7				
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				
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	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				
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	**{5200000}**	**{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
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	16.0	(3.4)	(1.8)j	(0.97)j	<0.40	<1.0	(1.6)	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	1.3j	<2.5	<0.5	850	85
cis-1,2-Dichloroethene	1000	3,800	2,000	2,600	2,300	2,700	(20)	(1.0)j	(5.5)	(13)	(27)	(21)	0.58j	4.6	<0.50	<0.50	<0.50	<0.50	410	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	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	280	1,700	730	11,000	21,000	22,000	210	(0.60)j	(0.80)j	130	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	170	150	(3.0)	5	0.5
Trichloroethene	260	1,900	860	4,200	8,300	7,000	61	<0.20	(0.22)j	27	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	110	100	<0.2	5	0.5
Vinyl chloride	71	340	210	110	54j	<50j	0.84j	<0.20	<0.20	<1.0	0.36j	<0.20	<0.20	<0.20	<0.20	<0.20	2.4	2.1	24	45	7.0	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

Appendix C
Photographic Documentation

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	STH 38 (Northwestern Avenue), Golf Avenue to Memorial Drive, Racine, Racine County, Wisconsin	WisDOT: 2290-17-70 TRC: 243216.0000.0000

Photo No.	Date
1	5/2/2016

Description
Reconstruction activities along STH 38, as viewed facing northwest from the southwest corner of the One-Hour Martinizing dry cleaning facility (to the right in the photo).

Photo No.	Date
2	5/2/2016

Description
Excavation for storm sewer installation along STH 38, as viewed facing northwest.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	STH 38 (Northwestern Avenue), Golf Avenue to Memorial Drive, Racine, Racine County, Wisconsin	WisDOT: 2290-17-70 TRC: 243216.0000.0000

Photo No.	Date
3	05/05/16

Description
Both tanks after they were uncovered during grading activities.

Photo No.	Date
4	05/05/16

Description
Tank interior with ~ 2 ft of liquid, assumed to be water.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	STH 38 (Northwestern Avenue), Golf Avenue to Memorial Drive, Racine, Racine County, Wisconsin	WisDOT: 2290-17-70 TRC: 243216.0000.0000

Photo No.	Date
5	

Description
Tank after removal from subsurface.

Photo No.	Date
6	

Description
Close-up of steel tank showing corrosion and cm-scale holes.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	STH 38 (Northwestern Avenue), Golf Avenue to Memorial Drive, Racine, Racine County, Wisconsin	WisDOT: 2290-17-70 TRC: 243216.0000.0000

Photo No.	Date
7	5/5/2016

Description
Cavity after tank removal, before soil excavation.

Photo No.	Date
8	5/6/2016

Description
Excavation after two loads of soil were removed. A total of 42.93 tons of soil were removed from the area surrounding the USTs.

Appendix D
Tank Disposal Documentation

SGS EnvironmentalContracting, LLC

UST / AST Removal

N2570 Daytona Drive
MERRILL, WI 54452
1-800-261-2803
715-539-2803
Fax 715-539-2661
Jay A. Schlueter
CELL (715) 218-1001
jay@sgs-env.com

REMEDIATION SYSTEM CONSTRUCTION

CONTAMINATED SOIL EXCAVATIONS

GEOPROBE SOIL BORING

CERTIFICATE OF UNDERGROUND STORAGE TANK DISPOSAL

On May 23rd, 2016 SGS Environmental Contracting LLC completed the removal of 2 Underground Storage Tanks: (2)- 1,000 gallon Leaded Gas UST's for:

WDOT #2290-17-70 State St.
1730 State St.
Racine WI 53404

Water product was pumped on site and disposed of by:

Chief Liquid Waste, INC.
210 Tower Rd.
Winneconne WI 54986

1 drum of sludge was left on site for others to handle.

Bobbie Jo Hoffman Office Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone: (800) 842-9792 (AWC)

4. Manifest Tracking Number: 015592760 JJK

GENERATOR

5. Generator's Name and Mailing Address
D.O.T. Project #2290-17-70
1730 State St.
Racine, WI 53404
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Advanced Waste Carriers, Inc. (AWC)
U.S. EPA ID Number: WI0000815381

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Advanced Waste Services - 'Advanced Waste Services, Inc.
3801L West Mckinley Ave
Milwaukee, WI 53205
Facility's Phone: 414-342-1852
U.S. EPA ID Number: WIR000136577

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non RCRA regulated, Non DOT hazardous Liquid material	001	TT	1000	G	NONE
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Profile #1: 41464959-O-B-2 / S-'AWS, Inc
2

Trailer # 552
Emergency Response Guide On-board
Site arrival time: 1PM
Site departure time: 1:45PM

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Gregory Frick
Signature
Month: 5 Day: 5 Year: 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jamal Belos
Signature
Month: 5 Day: 5 Year: 16

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: TONY SCHMITZ
Signature
Month: 05 Day: 05 Year: 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Appendix E
Tank Closure Checklist and Inventory Forms

TR-WM-140 (04/15)
Formerly ERS-8951 (R. 07/13)

Wisconsin Department of Agriculture, Trade and Consumer Protection
Bureau of Weights and Measures, Permits and Licensing
P.O. Box 7837
Madison, WI 53707-7837
(608) 224-4942

FOR OFFICE USE ONLY

Wis. Admin. Code §ATCP 93.560

TANK SYSTEM SERVICE AND CLOSURE ASSESSMENT REPORT

CHECK ONE: ☒ UNDERGROUND ☐ ABOVEGROUND

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

Complete One Form for **Each System Service Event**

The information you provide may be used for purposes other than for which it was originally intended (s.15.04 (1) (m), Wis. Stats.).

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

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

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

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

B. IDENTIFICATION (Please Print)

1. Facility Name: WDOT State St. #2290-17-70	2. Owner Name: Wisconsin Department of Transportation
Facility Street Address (not P.O. Box): 1730 State St.	3. Contact Name / Job Title:
Municipality: Racine	Mailing Address: P.O. Box 7965 Rm. 451
☒ City ☐ Village ☐ Town of:	Post Office / State / Zip Code: Madison WI 53707
Zip Code: 53404 / County: Racine	County: Dane / Telephone No. (include area code): (608) 266-1476
4. Primary Service Contractor Section A above: SGS Environmental Contracting LLC	Service Contractor Street Address: N2570 Daytona Dr.
Service Contractor Telephone No. (include area code): (715) 539-2803	Service Contractor City, State, Zip Code: Merrill WI 54452

C. TANK SYSTEM DETAIL (Complete for all service activities)

a	b	c	d	e	f	g		h	
Tank ID #	Type of Closure[1]	Tank Material of Construction	Piping Material of Construction	Tank Capacity (gallons)	Contents[2]	Release - System Integrity Compromised (e.g. holes, cracks, loose connection, etc)?		If "Yes" to "g", Then Specify Source & Cause of Release[5]	
								Source of Release[3]	Cause of Release[4]
	P	steel	steel	1000	LG	☒ Y	☐ N		
	P	steel	steel	1000	LG	☒ Y	☐ N		
						☐ Y	☐ N		
						☐ Y	☐ N		
						☐ Y	☐ N		
						☐ Y	☐ N		

1. Indicate type of closure: P = Permanent, TOS = Temporarily Out-of-Service, CIP = Closure In-Place

2. Indicate type of product: DL = Diesel, LG = Leaded Gasoline, UG = Unleaded Gasoline, FO = Fuel Oil, GH = Gasohol, AF = Aviation Fuel, K = Kerosene, PX = Premix, WO = Waste/Used Motor Oil, FCHZW = Flammable/Combustible Hazardous Waste, OC = Other Chemical (indicate the chemical name(s):

CAS number(s):

3. Source of release: T = tank, P = piping, D = dispenser, STP = submersible turbine pump, DP = delivery problem, O = other, UNK = Unknown

4. Cause of release: S = spill, O = overfill, POMD = physical or mechanical damage, C = corrosion, IP = installation problem, O = other, UNK = Unknown

5. Has release been reported to the Department of Natural Resources? ☐ Yes ☐ No ☐ Release not evident at this time

Part A Distribution: DATCP DNR Inspector Contractor Owner

TR-WM-140 (04/15)
Formerly ERS-8951 (R. 07/13)

D. CLOSURES (Check applicable box at right in response to all statements in section D)

Written notification was provided to the local agent 5 days in advance of closure date. ☑ Y ☐ N

All local permits were obtained before beginning closure. ☑ Y ☐ N ☐ NA

☐ UST Form TR-WM-137 or ☐ AST Form TR-WM-118 filed by owner with the DATCP indicating closure. ☐ Y ☐ N ☐ NA

NOTE: TANK INVENTORY FORM TR-WM-137 or TR-WM-118 SIGNED BY THE OWNER MUST BE SUBMITTED WITH EACH CLOSURE or CHANGE-IN-SERVICE CHECKLIST

D.1 ☐ TEMPORARILY OUT-OF-SERVICE 1. Product removed.	Remover Verified	Inspector Verified	NA
a. Product lines drained into tank (or other container) and liquid removed, and	☐Y ☐N	☐Y ☐N	☐
b. All product removed to bottom of suction line, OR	☐Y ☐N	☐Y ☐N	☐
c. All product removed to within 1" of bottom.	☐Y ☐N	☐Y ☐N	☐
2. Fill pipe, gauge pipe, tank truck vapor recovery fittings, and vapor return lines capped.	☐Y ☐N	☐Y ☐N	☐
3. All product lines at the islands or pumps located elsewhere are removed and capped, OR	☐Y ☐N	☐Y ☐N	☐
4. Dispensers/pumps left in place but locked and power disconnected.	☐Y ☐N	☐Y ☐N	☐
5. Vent lines left open.	☐Y ☐N	☐Y ☐N	☐
6. Inventory form filed indicating temporarily out-of-service (TOS) closure.	☐Y ☐N	☐Y ☐N	☐
D.2. ☑ CLOSURE BY REMOVAL OR IN-PLACE			
1. General Requirements			
a. Product from piping drained into tank (or other container).	☑Y ☐N	☐Y ☐N	☐
b. Piping disconnected from tank and removed.	☑Y ☐N	☐Y ☐N	☐
c. All liquid and residue removed from tank using explosion-proof pumps or hand pumps.	☑Y ☐N	☐Y ☐N	☐
d. All pump motors and suction hoses bonded to tank or otherwise grounded.	☑Y ☐N	☐Y ☐N	☐
e. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed.	☑Y ☐N	☐Y ☐N	☐
f. Vent lines left connected until tanks purged.	☐Y ☐N	☐Y ☐N	☑
g. Tank openings temporarily plugged so vapors exit through vent.	☑Y ☐N	☐Y ☐N	☐
h. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section E.	☑Y ☐N	☐Y ☐N	☐
2. Specific Closure-by-Removal Requirements			
a. Tank removed from excavation after **PURGING/INERTING**, placed on level ground and blocked to prevent movement.	☑Y ☐N	☐Y ☐N	☐
b. Tank cleaned before being removed from site.	☑Y ☐N	☐Y ☐N	☐
c. Tank labeled in 2" high letters after removal but before being moved from site.	☑Y ☐N	☐Y ☐N	☐
NOTE: **COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; DATE.**			
d. Tank vent hole (1/8" in uppermost part of tank) installed prior to moving the tank from site.	☑Y ☐N	☐Y ☐N	☐
e. Site security is provided while the excavation is open.	☑Y ☐N	☐Y ☐N	☐
3. Specific Closure-In-Place Requirements NOTE: **CLOSURES IN-PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF THE DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION (DATCP) OR LOCAL AGENT.**			
a. Tank properly cleaned to remove all sludge and residue.	☐Y ☐N	☐Y ☐N	☐
b. Solid inert material (sand, cyclone boiler slag, or pea gravel recommended) introduced and tank filled.	☐Y ☐N	☐Y ☐N	☐
c. Vent line disconnected or removed.	☐Y ☐N	☐Y ☐N	☐
d. Inventory form filed by owner with the DATCP indicating closure in-place.	☐Y ☐N	☐Y ☐N	☐

E. ☐ REPAIR, UPGRADE OR CHANGE-IN-SERVICE

Written notification was provided to the local agent 5 days in advance of service date. ☐ Y ☐ N ☐ NA

All local permits were obtained before beginning service. ☐ Y ☐ N ☐ NA

Form TR-WM-137 or ☐ TR-WM-118 filed by owner with the DATCP indicating change-in-service. ☐ Y ☐ N ☐ NA

F. METHOD OF VAPOR FREEING OF TANK

☐ Displacement of vapors by eductor or diffused air blower.
Eductor driven by compressed air, bonded and drop tube left in place; vapors discharged minimum of 12 feet above ground.
Diffused air blower bonded and drop tube removed. Air pressure not exceeding 5 psig.

☐ Inert gas using dry ice or liquid carbon dioxide.

☐ Inert gas using CO_2 or N_2 NOTE: **INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE. LEL METERS MAY NOT FUNCTION ACCURATELY. THE TANK MAY NOT BE ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT.**
Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank opposite the vent.
Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing device grounded.

☑ Readings of 10% or less of the lower flammable range (LEL) or 0% oxygen obtained before removing tank from ground.

☑ Tank atmosphere monitored for flammable or combustible vapor levels prior to and during cleaning and cutting.

☑ Calibrate combustible gas indicator and/or oxygen meter prior to use. Drop tube removed prior to checking atmosphere. Tank space monitored at bottom, middle and upper portion of tank.

G. REMOVER/CLEANER INFORMATION

George Frick	[signature]	42191	5-23-16
Remover/Cleaner Name (print)	Remover/Cleaner Signature	Certification No.	Date Signed

I attest that the procedures and information which I have provided as the tank closure contractor are correct and comply with ATCP 93.

Company expected to perform soil contamination assessment _____

H. INSPECTOR INFORMATION

_____	Inspector Not On Site	_____	_____
Inspector Name (print)	Inspector Signature	Inspector Cert #	LPO Agency #:

_____	_____	_____
FDID # For Location Where Inspection Performed	Inspector Telephone Number	Date Signed

Distribution: DATCP DNR Inspector Contractor Owner

Part B – To be completed by environmental professional

Submit original Part B to the WDNR along with a copy of Part A

I. TANK-SYSTEM SITE ASSESSMENT (TSSA)

Site Name: Martinizing Drycleaning

Address: 1730 State Street

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

To determine if a TSSA is required, see SPS 310 and section II part B of *ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS.*

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

1. Site Information

a. Has there been a previously documented release at this site? ☐ Y ☐ N

If yes, provide the PECFA # _____, or DNR BRRT's # 02-52-549890.

b. Number of active tanks[1] at facility prior to completion of current services USTs _____ ASTs _____.

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

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

EXCAVATION/TRENCH #	LENGTH	WIDTH	DEPTH
1	12'	20'	8'

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

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

a. Stained soils: ☑ Y ☐ N b. Petroleum odor: ☑ Y ☐ N c. Water In excavation/trench: ☐ Y ☑ N

d. Free product in the excavation/trench: ☐ Y ☑ N e. Sheen or free product on water: ☐ Y ☐ N

3. Geology/Hydrogeology

a. Depth to groundwater >8' feet b. Indicate type of geology[2] C

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

4. Receptors

a. Water supply well(s) within 250 feet of the facility? ☐ Y ☑ N If yes, specify _____

b. Surface water(s) within 1000 feet of the facility? ☐ Y ☑ N If yes, specify _____

5. Sampling

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

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

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

J. NOTE RELEVANT OBSERVATIONS, SPECIFIC PROBLEMS OR CONCERNS BELOW

2x TANKS REMOVED (8' 10" LENGTH, 4'6" DIAMETER). ~2' OF WATER WAS PRESENT PRIOR TO REMOVAL. PUMPED OFF. COLLECTED ~25 GALLONS OF SOLIDS FROM TANKS. CONTAINERIZED. SOME SMALL HOLES NOTED IN TANKS. STRONG ODORS, STAINING PRESENT AT TANKS (SOIL ADJACENT). PID RESULTS OF 11/300 IU. ODORS/STAINING/PID READINGS STRONGER NEAR THAN ADJACENT CONTAMINATED SOIL. REMOVED 2x LOADS (~40 TONS) OF SOIL, LANDFILLED, COLLECTED ASSESSMENT SAMPLES. EXCAVATION LIMITED BY MANHOLE/STORM, MONITORING WELL & PRIVATE PROPERTY.

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

Sample ID #	Sample Location & Soil/Geologic Description	Sample Collection Method				Depth Below Tank/Piping (feet)	Field Screening Result (ppm)	
		Grab	Shelby Tube	Direct Push	Split Spoon			
SW 1	~~SEE ATTACHED ABOVE~~	☑	☐	☐	☐	0	114.5	
SW 2	BR SANDY CLAY W/	☑	☐	☐	☐	0	59.4	
SW 3	TRC GRAVEL	☑	☐	☐	☐	0	1355	
SW 4		☑	☐	☐	☐	0	1900	
SW 5		☑	☐	☐	☐	0	742	
SW 6		☑	☐	☐	☐	0	1867	
SW 7		☑	☐	☐	☐	0	1744	
SW 8		☑	☐	☐	☐	0	1335	
TB 1		☑	☐	☐	☐	4'	839	
TB 2		☑	☐	☐	☐	4'	800	
TB 3		☑	☐	☐	☐	4'	684	
TB 4		☑	☐	☐	☐	4'	1070	
TB 5		☑	☐	☐	☐	4'	490	
TB 6	↓	☑	☐	☐	☐	4'	820	

TABLE 2 SOIL LABORATORY ANALYTICAL RESULTS-FOR PETROLEUM PRODUCTS

Sample ID #	BENZENE	TOLUENE	ETHYLBENZENE	MTBE	TRIMETHYL - BENZENES (TOTAL)	XYLENES (TOTAL)	NAPHTHALENE	CHLORINATED SOLVENTS
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
	SEE ATTACHED TABLE							

K. TANK-SYSTEM SITE ASSESSMENT INFORMATION

☐ As a tank-system site assessor certified under Wis. Admin. Code section SPS 305.83, it is my opinion that there is no indication of a release of a regulated substance to the environment.

☑ Sampling at the site indicates there has been a release to the environment. Pursuant to Wis. Admin. Code section SPS 310.585 (2) (a) and Wis. Stats. section 292.11 (2) (a), the owner or operator or contractor performing work under chapter SPS 310 shall immediately report any release of a regulated substance to the Wisconsin Department of Natural Resources. Failure to do so may result in forfeitures of a minimum of $10 and a maximum of $5000 for each violation under Wis. Stats. section 101.09 (5). Each day of continued violation and each tank are treated as separate offenses.

WARREN TYLER STAPEL		113565
Tank-System Site Assessor Name (print)	Tank-System Site Assessor Signature	Certification Number #
262-825-2045	06/01/2016	TRC ENVIRONMENTAL
Tank-System Site Assessor Telephone Number	Date Signed	Company Name

TR-WM-137 (04/15)
Formerly ERS 7437 (R. 03/13)

Wisconsin Department of Agriculture, Trade and Consumer Protection
Bureau of Weights and Measures, Storage Tank Regulation
P.O. Box 7837
Madison, WI 53707-7837
(608) 224-4942

FOR OFFICE USE ONLY
TDID#:
Reg Obj #:
Wis. Admin. Code §ATCP 93.140

UNDERGROUND FLAMMABLE/COMBUSTIBLE/HAZARDOUS LIQUID STORAGE TANK REGISTRATION

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. A separate form is needed for each tank. Send each completed form to the agency designated above. Have you previously registered this tank by submitting a form? ☐ Yes ☒ No
If yes, are you correcting/updating information only? ☐ Yes ☐ No
Personal information you provide may be used for purposes other than that for which it was originally collected (s. 15.04 (1)(m) Wis. Stats.)

This registration applies to a tank status that is (check one):
☐ In Use ☒ Closed - Tank Removed ☐ Ownership Change (Indicate new owner name in block 2—attach deed)
☐ Newly Installed ☐ Closed - Filled with Inert Materials
☐ Abandoned with Product ☐ Abandon with Water
☐ Abandoned without Product (empty) ☐ Temporarily Out of Service - Provide Date: _____

Fire Department providing fire coverage where tank is located:
☒ City ☐ Village ☐ Town: 5101 - Racine

A. IDENTIFICATION (Please Print)

1. Tank Site Name: WDOT- State St. #2290-17	Site Street Address: 1730 State St.		Site Telephone Number: ( )
☒ City ☐ Village ☐ Town: Racine	State: WISCONSIN	Zip Code: 53404	County: Racine
2. Tank Owner Legal Name: WDOT	Mailing Address: P.O. Box 7965 RM451		Telephone Number: (608) 266-1476
☒ City Madison ☐ Village ☐ Town:	State: WI	Zip Code: 53707-7965	County: Dane
3. Property Owner Name (if different than tank owner)	Property Owner Address if different than #1		
4. Class A Operator Name	DOB	Training Method	Certification #
5. Class B Operator Name	DOB	Training Method	Certification #

B. Site ID #: | **Facility ID #:** | **Customer ID #:**

C. Tank Capacity (gallons): 1000 | Tank Age (age or date installed): | Vehicle fueling: ☒ Yes ☐ No

D. LAND OWNER TYPE (check one) Refer to back
☐ County ☒ State ☐ Federal Leased ☐ Federal Owned ☐ Tribal Nation ☐ Municipal ☐ Other Government ☐ Private

E. OCCUPANCY TYPE (check one) Refer to back
☒ Retail Fuel Sales ☐ Bulk Storage ☐ Terminal Storage ☐ Mercantile/Commercial ☐ Industrial ☐ Residential ☐ School
☐ Agricultural (crop or livestock production) ☐ Backup or Emergency Generator ☐ Gov't Fleet ☐ Utility ☐ Other (specify:)

F. Tank Construction:
☒ Bare Steel ☐ Coated Steel ☐ Stainless steel ☐ Steel – Fiberglass Reinforced Plastic Composite
☐ Fiberglass ☐ Unknown ☐ Other (specify): _____ ☐ Lined (date): _____

Overfill Protection? ☐ Yes ☒ No
Spill Containment? ☐ Yes ☒ No

G. Tank Cathodic Protection: ☐ Sacrificial Anodes ☐ Impressed Current ☐ N/A
Tank Double Walled? ☐ Yes ☒ No

H. Primary Tank Leak Detection Method:
☐ Automatic tank gauging ☐ Interstitial monitoring ⇨ Electronic: ☐ Yes ☐ No ☐ Inventory control and tightness testing
☐ Manual tank gauging (only for tanks of 1,000 gallons or less) ☐ Statistical Inventory Reconciliation (SIR) ☒ Unknown

I. Piping Construction:
☒ Bare Steel ☐ Coated Steel ☐ Stainless Steel ☐ Fiberglass ☐ Flexible ☐ Copper ☐ Unknown ☐ NA ☐ Other _____

J. Piping Cathodic Protection: ☐ Sacrificial Anodes ☐ Impressed Current ☐ N/A
Pipe Double Walled? ☐ Yes ☐ No

K. Primary Piping System Type: ☐ Pressurized piping with ⇨ A. ☐ Pump auto shutoff - ELLD; B. ☐ flow restrictor – MLLD ☐ Unknown
☐ Suction piping with check valve at tank ☐ Suction piping with check valve at pump and inspectable ☐ Not needed if waste oil

L. Piping Leak Detection Method: ☐ Interstitial monitoring ⇨ Electronic: ☐ NO ☐ YES ⇨ Sump or cable sensor ☐ Yes ☐ No
☐ Tightness testing ☐ Electronic line monitor - ELLD ☐ SIR ☐ Not required ☐ Unknown

M. TANK CONTENTS (Current, or previous product (if tank now empty))
☒ Leaded ☐ Unleaded ☐ Gasohol ☐ E85 ☐ Diesel ☐ Bio-diesel ☐ Aviation ☐ Premix ☐ Fuel Oil ☐ Kerosene ☐ Unknown
☐ New Oil ☐ New oil – Low FP ☐ Waste/Used Motor Oil ☐ Hazardous Waste/Interface* ☐ Empty* ☐ Sand/Gravel/Slurry*

☐ Other (specify): _____ ☐ Chemical* Name _____ CAS #: _____

* NOT PECFA eligible.

Geo Latitude: 42° 44' 0.064" N Geo Longitude: 87° 48' 7.999" W
Has a site assessment been completed? (see reverse side for details) ☑ Yes ☐ No

N. If Tank Closed, Abandoned or Out of Service Give date (mo/day/yr): 5-5-16

Tank Owner Legal Name (please print): Wisconsin Dept of Transportation
E-mail Address: sharlene.tebeest@dot.wi.gov

Tank Owner Signature (Note: By signing, signer is accepting legal and financial responsibility for the storage tank system.) obo WisDOT
Date: 5/12/16

Note: Refer to comments on reverse side of form.

TR-WM-137 (04/15)
Formerly ERS 7437 (R. 03/13)

Wisconsin Department of Agriculture, Trade and Consumer Protection
Bureau of Weights and Measures, Storage Tank Regulation
P.O. Box 7837
Madison, WI 53707-7837
(608) 224-4942

FOR OFFICE USE ONLY
TDID#:
Reg Obj #:
Wis. Admin. Code §ATCP 93.140

UNDERGROUND FLAMMABLE/COMBUSTIBLE/HAZARDOUS LIQUID STORAGE TANK REGISTRATION

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. A separate form is needed for each tank. Send each completed form to the agency designated above. Have you previously registered this tank by submitting a form? ☐ Yes ☒ No
If yes, are you correcting/updating information only? ☐ Yes ☐ No
Personal information you provide may be used for purposes other than that for which it was originally collected (s. 15.04 (1)(m) Wis. Stats.)

This registration applies to a tank status that is (check one):
☐ In Use ☒ Closed - Tank Removed ☐ Ownership Change (Indicate new owner name in block 2—attach deed)
☐ Newly Installed ☐ Closed - Filled with Inert Materials
☐ Abandoned with Product ☐ Abandon with Water
☐ Abandoned without Product (empty) ☐ Temporarily Out of Service - Provide Date: _____

Fire Department providing fire coverage where tank is located:
☒ City ☐ Village ☐ Town: 5101- Racine

A. IDENTIFICATION (Please Print)

1. Tank Site Name: WDOT State St #2290-17-70
☒ City ☐ Village ☐ Town: Racine
Site Street Address: 1730 State St.
State: WISCONSIN Zip Code: 53404
Site Telephone Number: ( )
County: Racine

2. Tank Owner Legal Name: WDOT-
☒ City ☐ Village ☐ Town: Madison
Mailing Address: P.O. Box 7965 Rm451
State: WI Zip Code: 53707-7965
Telephone Number: (608) 266-1476
County: Dane

3. Property Owner Name (if different than tank owner)
Property Owner Address if different than #1

4. Class A Operator Name | DOB | Training Method | Certification #

5. Class B Operator Name | DOB | Training Method | Certification #

B. Site ID #: | **Facility ID #:** | **Customer ID #:**

C. Tank Capacity (gallons): 10000 | Tank Age (age or date installed): | Vehicle fueling: ☒ Yes ☐ No

D. LAND OWNER TYPE (check one) Refer to back
☐ County ☒ State ☐ Federal Leased ☐ Federal Owned ☐ Tribal Nation ☐ Municipal ☐ Other Government ☐ Private

E. OCCUPANCY TYPE (check one) Refer to back
☒ Retail Fuel Sales ☐ Bulk Storage ☐ Terminal Storage ☐ Mercantile/Commercial ☐ Industrial ☐ Residential ☐ School
☐ Agricultural (crop or livestock production) ☐ Backup or Emergency Generator ☐ Gov't Fleet ☐ Utility ☐ Other (specify:)

F. Tank Construction:
☒ Bare Steel ☐ Coated Steel ☐ Stainless steel ☐ Steel – Fiberglass Reinforced Plastic Composite
☐ Fiberglass ☐ Unknown ☐ Other (specify): _____ ☐ Lined (date): _____
Overfill Protection? ☐ Yes ☒ No
Spill Containment? ☐ Yes ☒ No

G. Tank Cathodic Protection: ☐ Sacrificial Anodes ☐ Impressed Current ☐ N/A
Tank Double Walled? ☐ Yes ☒ No

H. Primary Tank Leak Detection Method:
☐ Automatic tank gauging ☐ Interstitial monitoring ⇨ Electronic: ☐ Yes ☐ No ☐ Inventory control and tightness testing
☐ Manual tank gauging (only for tanks of 1,000 gallons or less) ☐ Statistical Inventory Reconciliation (SIR) ☒ Unknown

I. Piping Construction:
☒ Bare Steel ☐ Coated Steel ☐ Stainless Steel ☐ Fiberglass ☐ Flexible ☐ Copper ☐ Unknown ☐ NA ☐ Other _____

J. Piping Cathodic Protection: ☐ Sacrificial Anodes ☐ Impressed Current ☐ N/A
Pipe Double Walled? ☐ Yes ☐ No

K. Primary Piping System Type: ☐ Pressurized piping with ⇨ A. ☐ Pump auto shutoff - ELLD; B. ☐ flow restrictor – MLLD ☐ Unknown
☐ Suction piping with check valve at tank ☐ Suction piping with check valve at pump and inspectable ☐ Not needed if waste oil

L. Piping Leak Detection Method: ☐ Interstitial monitoring ⇨ Electronic: ☐ NO ☐ YES ⇨ Sump or cable sensor ☐ Yes ☐ No
☐ Tightness testing ☐ Electronic line monitor - ELLD ☐ SIR ☐ Not required ☐ Unknown

M. TANK CONTENTS (Current, or previous product (if tank now empty))
☒ Leaded ☐ Unleaded ☐ Gasohol ☐ E85 ☐ Diesel ☐ Bio-diesel ☐ Aviation ☐ Premix ☐ Fuel Oil ☐ Kerosene ☐ Unknown
☐ New Oil ☐ New oil – Low FP ☐ Waste/Used Motor Oil ☐ Hazardous Waste/Interface* ☐ Empty* ☐ Sand/Gravel/Slurry*

☐ Other (specify): _____ ☐ Chemical* Name _____ CAS #: _____

* NOT PECFA eligible.

N. If Tank Closed, Abandoned or Out of Service
Give date (mo/day/yr): 5-5-16

Geo Latitude: 42° 44' 0.037" N | Geo Longitude: 87° 48' 7.956" W
Has a site assessment been completed? (see reverse side for details) ☒ Yes ☐ No

Tank Owner Legal Name (please print): Wisconsin Dept of Transportation
E-mail Address: sharlene.tebeest@dot.wi.gov

Tank Owner Signature (Note: By signing, signer is accepting legal and financial responsibility for the storage tank system.)
Sharlene Tebeest obo WisDOT
Date: 5/12/16

Note: Refer to comments on reverse side of form.

Appendix F
Soil Disposal Documentation

Detail Contract Activity Report

All Ticket Types | January 01, 2016 to June 01, 2016 | Facility: KESTREL HAWK LANDFILL

History and Waiting | Specific Contract: 3063164864

3063164864

Ticket Date		Facility & Ticket Number		Customer	Truck	Material	Contract Rate		Billing Quantity	Ordered Quantity	Minimum Quantity	Maximum Quantity	Material Total	Tax Total	Total
04/29/2016	I	01	978728	333356 - Buteyn-Peterson Construction Co.Ir	J90	SW-CONT SOIL	26.50	F	21.14 TN	0.00	$106.00	$0.00	$560.21	$0.00	$560.21
04/29/2016	I	01	978739	333356 - Buteyn-Peterson Construction Co.Ir	J90	SW-CONT SOIL	26.50	F	21.94 TN	0.00	$106.00	$0.00	$581.41	$0.00	$581.41
04/29/2016	I	01	978740	333356 - Buteyn-Peterson Construction Co.Ir	K71	SW-CONT SOIL	26.50	F	25.30 TN	0.00	$106.00	$0.00	$670.45	$0.00	$670.45
05/02/2016	I	01	978772	333356 - Buteyn-Peterson Construction Co.Ir	J90	SW-CONT SOIL	26.50	F	19.74 TN	0.00	$106.00	$0.00	$523.11	$0.00	$523.11
05/02/2016	I	01	978774	333356 - Buteyn-Peterson Construction Co.Ir	JJ03	SW-CONT SOIL	26.50	F	20.33 TN	0.00	$106.00	$0.00	$538.75	$0.00	$538.75
05/02/2016	I	01	978781	333356 - Buteyn-Peterson Construction Co.Ir	J90	SW-CONT SOIL	26.50	F	19.21 TN	0.00	$106.00	$0.00	$509.07	$0.00	$509.07
05/02/2016	I	01	978808	333356 - Buteyn-Peterson Construction Co.Ir	PET3438	SW-CONT SOIL	26.50	F	25.96 TN	0.00	$106.00	$0.00	$687.94	$0.00	$687.94
05/02/2016	I	01	978811	333356 - Buteyn-Peterson Construction Co.Ir	J90	SW-CONT SOIL	26.50	F	12.11 TN	0.00	$106.00	$0.00	$320.92	$0.00	$320.92
05/02/2016	I	01	978837	333356 - Buteyn-Peterson Construction Co.Ir	PET3438	SW-CONT SOIL	26.50	F	13.10 TN	0.00	$106.00	$0.00	$347.15	$0.00	$347.15
05/02/2016	I	01	978866	333356 - Buteyn-Peterson Construction Co.Ir	PET3439	SW-CONT SOIL	26.50	F	18.83 TN	0.00	$106.00	$0.00	$499.00	$0.00	$499.00
05/02/2016	I	01	978887	333356 - Buteyn-Peterson Construction Co.Ir	J90	SW-CONT SOIL	26.50	F	15.26 TN	0.00	$106.00	$0.00	$404.39	$0.00	$404.39
05/03/2016	I	01	978896	333356 - Buteyn-Peterson Construction Co.Ir	J90	SW-CONT SOIL	26.50	F	18.72 TN	0.00	$106.00	$0.00	$496.08	$0.00	$496.08
05/03/2016	I	01	978902	333356 - Buteyn-Peterson Construction Co.Ir	KLS964	SW-CONT SOIL	26.50	F	19.08 TN	0.00	$106.00	$0.00	$505.62	$0.00	$505.62
05/03/2016	I	01	978930	333356 - Buteyn-Peterson Construction Co.Ir	PET3439	SW-CONT SOIL	26.50	F	11.83 TN	0.00	$106.00	$0.00	$313.50	$0.00	$313.50
05/06/2016	I	01	979193	333356 - Buteyn-Peterson Construction Co.Ir	PET3440	SW-CONT SOIL	26.50	F	20.28 TN	0.00	$106.00	$0.00	$537.42	$0.00	$537.42
05/06/2016	I	01	979194	333356 - Buteyn-Peterson Construction Co.Ir	PET3441	SW-CONT SOIL	26.50	F	22.65 TN	0.00	$106.00	$0.00	$600.23	$0.00	$600.23

Soil excavated from area surrounding USTs: two loads of soil removed on 5/6/2016 totaling 42.93 tons.

Tickets Reported: 16 Items Reported: 16 Contract Totals: $8,095.25 $0.00 $8,095.25

Material Summary	Weight Inbound	Weight Outbound	Volume Inbound	Volume Outbound	Count Inbound	Count Outbound	Billing Quantity	Material Total	Tax Total	Total
VG - SW-CONT SOIL	305.48	0.00 TN	255.00	0.00 YD	0.00	0.00 EA	305.48 TN	$8,095.25	$0.00	$8,095.25

Cash Totals:	$0.00	$0.00	$0.00
Invoice Totals:	$8,095.25	$0.00	$8,095.25
Report Totals:	$8,095.25	$0.00	$8,095.25

Tickets Reported: 16 Items Reported: 16

Appendix G
Laboratory Analytical Report

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-111307-1
Client Project/Site: STH 38 Tank Removal 257062.0000.0000

For:
TRC Environmental Corporation.
150 N. Patrick Blvd.
Suite 180
Brookfield, Wisconsin 53045

Attn: Mr. Tyler Stapel

Sandie Fredrick

Authorized for release by:
5/19/2016 5:16:51 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Table of Contents

Case Narrative

Client: TRC Environmental Corporation.
Project/Site: STH 38 Tank Removal 257062.0000.0000

TestAmerica Job ID: 500-111307-1

Job ID: 500-111307-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-111307-1

Comments
No additional comments.

Receipt
The samples were received on 5/7/2016 11:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9º C.

GC/MS VOA
Method(s) 8260B: The following samples were diluted due to the abundance of non-target analytes: SW4 (500-111307-4), SW8 (500-111307-8) and TB6 (500-111307-14). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: SW6 (500-111307-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: STH 38 Tank Removal 257062.0000.0000

TestAmerica Job ID: 500-111307-1

Client Sample ID: SW1 — Lab Sample ID: 500-111307-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.5		1.0	0.47	mg/Kg	1	☼	6010B	Total/NA
Barium	11	B	1.0	0.19	mg/Kg	1	☼	6010B	Total/NA
Chromium	3.6		1.0	0.17	mg/Kg	1	☼	6010B	Total/NA
Lead	6.1		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.1		1.0	0.50	mg/Kg	1	☼	6010B	Total/NA
Silver	0.15	J	0.51	0.12	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: SW2 — Lab Sample ID: 500-111307-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.4		0.97	0.45	mg/Kg	1	☼	6010B	Total/NA
Barium	15	B	0.97	0.18	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18	J	0.19	0.056	mg/Kg	1	☼	6010B	Total/NA
Chromium	4.5		0.97	0.17	mg/Kg	1	☼	6010B	Total/NA
Lead	5.2		0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.74	J	0.97	0.48	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: SW3 — Lab Sample ID: 500-111307-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	72		66	24	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	69		66	25	ug/Kg	50	☼	8260B	Total/NA
Benzene	120		17	9.7	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	890		66	25	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	62	J	66	22	ug/Kg	50	☼	8260B	Total/NA
n-Butylbenzene	690		66	26	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	1900		66	27	ug/Kg	50	☼	8260B	Total/NA
p-Isopropyltoluene	310		66	24	ug/Kg	50	☼	8260B	Total/NA
sec-Butylbenzene	480		66	26	ug/Kg	50	☼	8260B	Total/NA
Arsenic	4.4		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Barium	34	B	1.1	0.19	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23		0.21	0.062	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		1.1	0.18	mg/Kg	1	☼	6010B	Total/NA
Lead	9.3		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.079		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SW4 — Lab Sample ID: 500-111307-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	110		32	18	ug/Kg	100	☼	8260B	Total/NA
Isopropylbenzene	1300		130	48	ug/Kg	100	☼	8260B	Total/NA
N-Propylbenzene	2000		130	52	ug/Kg	100	☼	8260B	Total/NA
p-Isopropyltoluene	320		130	46	ug/Kg	100	☼	8260B	Total/NA
sec-Butylbenzene	740		130	50	ug/Kg	100	☼	8260B	Total/NA
Arsenic	5.6		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Barium	33	B	1.1	0.19	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22		0.21	0.062	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		1.1	0.18	mg/Kg	1	☼	6010B	Total/NA
Lead	9.7		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.53	J	1.1	0.53	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SW4 (Continued) — Lab Sample ID: 500-111307-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.078		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SW5 — Lab Sample ID: 500-111307-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	52	J	73	26	ug/Kg	50	☼	8260B	Total/NA
Arsenic	7.2		1.2	0.54	mg/Kg	1	☼	6010B	Total/NA
Barium	78	B	1.2	0.21	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24		0.23	0.068	mg/Kg	1	☼	6010B	Total/NA
Chromium	27		1.2	0.20	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.59	J	1.2	0.58	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.11		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SW6 — Lab Sample ID: 500-111307-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	16000		130	51	ug/Kg	100	☼	8260B	Total/NA
Benzene	310		33	20	ug/Kg	100	☼	8260B	Total/NA
Isopropylbenzene	3000		130	51	ug/Kg	100	☼	8260B	Total/NA
Naphthalene	8800		130	45	ug/Kg	100	☼	8260B	Total/NA
n-Butylbenzene	4800		130	52	ug/Kg	100	☼	8260B	Total/NA
N-Propylbenzene	9600		130	55	ug/Kg	100	☼	8260B	Total/NA
p-Isopropyltoluene	880		130	48	ug/Kg	100	☼	8260B	Total/NA
sec-Butylbenzene	1200		130	53	ug/Kg	100	☼	8260B	Total/NA
Toluene	89		33	20	ug/Kg	100	☼	8260B	Total/NA
Xylenes, Total	360		67	29	ug/Kg	100	☼	8260B	Total/NA
1,2,4-Trimethylbenzene - DL	46000		1300	480	ug/Kg	1000	☼	8260B	Total/NA
Arsenic	5.4		1.0	0.46	mg/Kg	1	☼	6010B	Total/NA
Barium	42	B	1.0	0.18	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.31		0.20	0.058	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		1.0	0.17	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.023		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SW7 — Lab Sample ID: 500-111307-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	36		17	9.9	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	1200		68	26	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	380		68	23	ug/Kg	50	☼	8260B	Total/NA
n-Butylbenzene	1500		68	26	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	3400		68	28	ug/Kg	50	☼	8260B	Total/NA
p-Isopropyltoluene	320		68	24	ug/Kg	50	☼	8260B	Total/NA
sec-Butylbenzene	730		68	27	ug/Kg	50	☼	8260B	Total/NA
Arsenic	4.6		1.0	0.48	mg/Kg	1	☼	6010B	Total/NA
Barium	35	B	1.0	0.19	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27		0.21	0.060	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		1.0	0.18	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.51	0.26	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: STH 38 Tank Removal 257062.0000.0000

TestAmerica Job ID: 500-111307-1

Client Sample ID: SW7 (Continued) — Lab Sample ID: 500-111307-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.59	J	1.0	0.51	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.12		0.017	0.0090	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SW8 — Lab Sample ID: 500-111307-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	89	J	130	51	ug/Kg	100	☼	8260B	Total/NA
N-Propylbenzene	240		130	55	ug/Kg	100	☼	8260B	Total/NA
Arsenic	4.5		0.99	0.46	mg/Kg	1	☼	6010B	Total/NA
Barium	55	B	0.99	0.18	mg/Kg	1	☼	6010B	Total/NA
Cadmium	1.2		0.20	0.058	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.99	0.17	mg/Kg	1	☼	6010B	Total/NA
Lead	98		0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.74	J	0.99	0.49	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.23		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TB1 — Lab Sample ID: 500-111307-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	440		16	9.4	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	650		64	25	ug/Kg	50	☼	8260B	Total/NA
n-Butylbenzene	300		64	25	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	1000		64	27	ug/Kg	50	☼	8260B	Total/NA
p-Isopropyltoluene	130		64	23	ug/Kg	50	☼	8260B	Total/NA
sec-Butylbenzene	280		64	26	ug/Kg	50	☼	8260B	Total/NA
Arsenic	4.2		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	39	B	1.1	0.20	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26		0.21	0.062	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		1.1	0.18	mg/Kg	1	☼	6010B	Total/NA
Lead	9.5		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.65	J	1.1	0.53	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.027		0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TB2 — Lab Sample ID: 500-111307-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	64		64	23	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	83		64	24	ug/Kg	50	☼	8260B	Total/NA
Benzene	250		16	9.3	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	650		64	25	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	330		64	21	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	1500		64	26	ug/Kg	50	☼	8260B	Total/NA
p-Isopropyltoluene	200		64	23	ug/Kg	50	☼	8260B	Total/NA
sec-Butylbenzene	270		64	25	ug/Kg	50	☼	8260B	Total/NA
Arsenic	4.6		1.0	0.46	mg/Kg	1	☼	6010B	Total/NA
Barium	33	B	1.0	0.18	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.25		0.20	0.058	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		1.0	0.17	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.038		0.019	0.0097	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: STH 38 Tank Removal 257062.0000.0000

TestAmerica Job ID: 500-111307-1

Client Sample ID: TB3 — Lab Sample ID: 500-111307-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	150		66	25	ug/Kg	50	☼	8260B	Total/NA
Benzene	510		16	9.6	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	650		66	25	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	71		66	22	ug/Kg	50	☼	8260B	Total/NA
n-Butylbenzene	280		66	25	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	1200		66	27	ug/Kg	50	☼	8260B	Total/NA
p-Isopropyltoluene	170		66	24	ug/Kg	50	☼	8260B	Total/NA
sec-Butylbenzene	210		66	26	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	36		33	14	ug/Kg	50	☼	8260B	Total/NA
Arsenic	15		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	35	B	1.1	0.20	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22		0.22	0.062	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		1.1	0.19	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.024		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TB4 — Lab Sample ID: 500-111307-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	130		67	24	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	230		67	25	ug/Kg	50	☼	8260B	Total/NA
Benzene	1400		17	9.8	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	770		67	26	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	120		67	22	ug/Kg	50	☼	8260B	Total/NA
n-Butylbenzene	280		67	26	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	1400		67	28	ug/Kg	50	☼	8260B	Total/NA
p-Isopropyltoluene	230		67	24	ug/Kg	50	☼	8260B	Total/NA
sec-Butylbenzene	260		67	27	ug/Kg	50	☼	8260B	Total/NA
Toluene	80		17	9.8	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	64		33	15	ug/Kg	50	☼	8260B	Total/NA
Arsenic	4.0		1.0	0.48	mg/Kg	1	☼	6010B	Total/NA
Barium	41	B	1.0	0.19	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28		0.21	0.060	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		1.0	0.18	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.82	J	1.0	0.52	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.024		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TB5 — Lab Sample ID: 500-111307-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	120		66	24	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	200		66	25	ug/Kg	50	☼	8260B	Total/NA
Benzene	920		17	9.7	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	730		66	25	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	81		66	22	ug/Kg	50	☼	8260B	Total/NA
n-Butylbenzene	280		66	26	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	1500		66	27	ug/Kg	50	☼	8260B	Total/NA
p-Isopropyltoluene	170		66	24	ug/Kg	50	☼	8260B	Total/NA
sec-Butylbenzene	220		66	26	ug/Kg	50	☼	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: TRC Environmental Corporation.
Project/Site: STH 38 Tank Removal 257062.0000.0000

TestAmerica Job ID: 500-111307-1

Client Sample ID: TB5 (Continued)

Lab Sample ID: 500-111307-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	40		17	9.7	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	55		33	15	ug/Kg	50	☼	8260B	Total/NA
Arsenic	5.4		0.97	0.45	mg/Kg	1	☼	6010B	Total/NA
Barium	39	B	0.97	0.18	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23		0.19	0.056	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.97	0.17	mg/Kg	1	☼	6010B	Total/NA
Lead	9.7		0.49	0.24	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.024		0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TB6

Lab Sample ID: 500-111307-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	110	J	130	51	ug/Kg	100	☼	8260B	Total/NA
Benzene	210		34	20	ug/Kg	100	☼	8260B	Total/NA
Isopropylbenzene	510		130	52	ug/Kg	100	☼	8260B	Total/NA
n-Butylbenzene	840		130	52	ug/Kg	100	☼	8260B	Total/NA
N-Propylbenzene	1300		130	56	ug/Kg	100	☼	8260B	Total/NA
p-Isopropyltoluene	190		130	49	ug/Kg	100	☼	8260B	Total/NA
sec-Butylbenzene	420		130	54	ug/Kg	100	☼	8260B	Total/NA
Arsenic	5.1		1.1	0.52	mg/Kg	1	☼	6010B	Total/NA
Barium	43	B	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.36		0.22	0.065	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	V	1.1	0.19	mg/Kg	1	☼	6010B	Total/NA
Lead	23	F1	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.73	J F1	1.1	0.56	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.15		0.019	0.0097	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: TRC Environmental Corporation.
Project/Site: STH 38 Tank Removal 257062.0000.0000

TestAmerica Job ID: 500-111307-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: STH 38 Tank Removal 257062.0000.0000

TestAmerica Job ID: 500-111307-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-111307-1	SW1	Solid	05/06/16 12:00	05/07/16 11:00
500-111307-2	SW2	Solid	05/06/16 12:00	05/07/16 11:00
500-111307-3	SW3	Solid	05/06/16 12:00	05/07/16 11:00
500-111307-4	SW4	Solid	05/06/16 12:00	05/07/16 11:00
500-111307-5	SW5	Solid	05/06/16 12:00	05/07/16 11:00
500-111307-6	SW6	Solid	05/06/16 12:00	05/07/16 11:00
500-111307-7	SW7	Solid	05/06/16 12:00	05/07/16 11:00
500-111307-8	SW8	Solid	05/06/16 12:00	05/07/16 11:00
500-111307-9	TB1	Solid	05/06/16 12:00	05/07/16 11:00
500-111307-10	TB2	Solid	05/06/16 12:00	05/07/16 11:00
500-111307-11	TB3	Solid	05/06/16 12:00	05/07/16 11:00
500-111307-12	TB4	Solid	05/06/16 12:00	05/07/16 11:00
500-111307-13	TB5	Solid	05/06/16 12:00	05/07/16 11:00
500-111307-14	TB6	Solid	05/06/16 12:00	05/07/16 11:00

Client Sample ID: SW1
Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-1
Matrix: Solid
Percent Solids: 94.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<26		56	26	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
1,1,1-Trichloroethane	<21		56	21	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
1,1,2,2-Tetrachloroethane	<22		56	22	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
1,1,2-Trichloroethane	<20		56	20	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
1,1-Dichloroethane	<23		56	23	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
1,1-Dichloroethene	<22		56	22	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
1,1-Dichloropropene	<17		56	17	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
1,2,3-Trichlorobenzene	<26		56	26	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
1,2,3-Trichloropropane	<23		56	23	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
1,2,4-Trichlorobenzene	<19		56	19	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
1,2,4-Trimethylbenzene	<20		56	20	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
1,2-Dibromo-3-Chloropropane	<110		280	110	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
1,2-Dibromoethane	<22		56	22	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
1,2-Dichlorobenzene	<19		56	19	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
1,2-Dichloroethane	<22		56	22	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
1,2-Dichloropropane	<24		56	24	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
1,3,5-Trimethylbenzene	<21		56	21	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
1,3-Dichlorobenzene	<22		56	22	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
1,3-Dichloropropane	<20		56	20	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
1,4-Dichlorobenzene	<20		56	20	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
2,2-Dichloropropane	<25		56	25	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
2-Chlorotoluene	<17		56	17	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
4-Chlorotoluene	<20		56	20	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Benzene	<8.1		14	8.1	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Bromobenzene	<20		56	20	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Bromochloromethane	<24		56	24	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Bromodichloromethane	<21		56	21	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Bromoform	<27		56	27	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Bromomethane	<44		110	44	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Carbon tetrachloride	<21		56	21	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Chlorobenzene	<22		56	22	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Chloroethane	<28		56	28	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Chloroform	<21		56	21	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Chloromethane	<18		56	18	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
cis-1,2-Dichloroethene	<23		56	23	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
cis-1,3-Dichloropropene	<23		56	23	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Dibromochloromethane	<27		56	27	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Dibromomethane	<15		56	15	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Dichlorodifluoromethane	<38		110	38	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Ethylbenzene	<10		14	10	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Hexachlorobutadiene	<25		56	25	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Isopropyl ether	<15		56	15	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Isopropylbenzene	<21		56	21	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Methyl tert-butyl ether	<22		56	22	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Methylene Chloride	<91		280	91	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Naphthalene	<19		56	19	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
n-Butylbenzene	<22		56	22	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
N-Propylbenzene	<23		56	23	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
p-Isopropyltoluene	<20		56	20	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50

Client Sample ID: SW1

Lab Sample ID: 500-111307-1
Date Collected: 05/06/16 12:00
Matrix: Solid
Date Received: 05/07/16 11:00
Percent Solids: 94.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<22		56	22	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Styrene	<22		56	22	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
tert-Butylbenzene	<22		56	22	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Tetrachloroethene	<21		56	21	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Toluene	<8.2		14	8.2	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
trans-1,2-Dichloroethene	<20		56	20	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
trans-1,3-Dichloropropene	<20		56	20	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Trichloroethene	<9.1		28	9.1	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Trichlorofluoromethane	<24		56	24	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Vinyl chloride	<15		28	15	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50
Xylenes, Total	<12		28	12	ug/Kg	☼	05/06/16 12:00	05/19/16 01:15	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*71 - 127*	*05/06/16 12:00*	*05/19/16 01:15*	*50*
4-Bromofluorobenzene (Surr)	*85*		*71 - 120*	*05/06/16 12:00*	*05/19/16 01:15*	*50*
Dibromofluoromethane	*107*		*70 - 120*	*05/06/16 12:00*	*05/19/16 01:15*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*05/06/16 12:00*	*05/19/16 01:15*	*50*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.5**		1.0	0.47	mg/Kg	☼	05/13/16 09:08	05/14/16 21:06	1
Barium	**11**	**B**	1.0	0.19	mg/Kg	☼	05/13/16 09:08	05/14/16 21:06	1
Cadmium	<0.059		0.20	0.059	mg/Kg	☼	05/13/16 09:08	05/14/16 21:06	1
Chromium	**3.6**		1.0	0.17	mg/Kg	☼	05/13/16 09:08	05/14/16 21:06	1
Lead	**6.1**		0.51	0.25	mg/Kg	☼	05/13/16 09:08	05/14/16 21:06	1
Selenium	**1.1**		1.0	0.50	mg/Kg	☼	05/13/16 09:08	05/14/16 21:06	1
Silver	**0.15**	**J**	0.51	0.12	mg/Kg	☼	05/13/16 09:08	05/14/16 21:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0084		0.016	0.0084	mg/Kg	☼	05/12/16 14:00	05/16/16 17:54	1

Client Sample ID: SW2

Lab Sample ID: 500-111307-2
Date Collected: 05/06/16 12:00
Matrix: Solid
Date Received: 05/07/16 11:00
Percent Solids: 91.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<27		59	27	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
1,1,1-Trichloroethane	<22		59	22	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
1,1,2,2-Tetrachloroethane	<24		59	24	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
1,1,2-Trichloroethane	<21		59	21	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
1,1-Dichloroethane	<24		59	24	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
1,1-Dichloroethene	<23		59	23	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
1,1-Dichloropropene	<18		59	18	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
1,2,3-Trichlorobenzene	<27		59	27	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
1,2,3-Trichloropropane	<24		59	24	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
1,2,4-Trichlorobenzene	<20		59	20	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
1,2,4-Trimethylbenzene	<21		59	21	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
1,2-Dibromo-3-Chloropropane	<120		300	120	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50

Client: TRC Environmental Corporation.
Project/Site: STH 38 Tank Removal 257062.0000.0000

TestAmerica Job ID: 500-111307-1

Client Sample ID: SW2
Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-2
Matrix: Solid
Percent Solids: 91.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<23		59	23	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
1,2-Dichlorobenzene	<20		59	20	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
1,2-Dichloroethane	<23		59	23	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
1,2-Dichloropropane	<25		59	25	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
1,3,5-Trimethylbenzene	<22		59	22	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
1,3-Dichlorobenzene	<24		59	24	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
1,3-Dichloropropane	<21		59	21	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
1,4-Dichlorobenzene	<22		59	22	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
2,2-Dichloropropane	<26		59	26	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
2-Chlorotoluene	<19		59	19	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
4-Chlorotoluene	<21		59	21	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Benzene	<8.6		15	8.6	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Bromobenzene	<21		59	21	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Bromochloromethane	<25		59	25	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Bromodichloromethane	<22		59	22	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Bromoform	<29		59	29	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Bromomethane	<47		120	47	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Carbon tetrachloride	<23		59	23	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Chlorobenzene	<23		59	23	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Chloroethane	<30		59	30	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Chloroform	<22		59	22	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Chloromethane	<19		59	19	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
cis-1,2-Dichloroethene	<24		59	24	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
cis-1,3-Dichloropropene	<25		59	25	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Dibromochloromethane	<29		59	29	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Dibromomethane	<16		59	16	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Dichlorodifluoromethane	<40		120	40	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Ethylbenzene	<11		15	11	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Hexachlorobutadiene	<26		59	26	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Isopropyl ether	<16		59	16	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Isopropylbenzene	<23		59	23	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Methylene Chloride	<96		300	96	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Naphthalene	<20		59	20	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
n-Butylbenzene	<23		59	23	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
N-Propylbenzene	<24		59	24	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
p-Isopropyltoluene	<21		59	21	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
sec-Butylbenzene	<24		59	24	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Styrene	<23		59	23	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
tert-Butylbenzene	<24		59	24	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Tetrachloroethene	<22		59	22	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Toluene	<8.7		15	8.7	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
trans-1,2-Dichloroethene	<21		59	21	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
trans-1,3-Dichloropropene	<21		59	21	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Trichloroethene	<9.7		30	9.7	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Trichlorofluoromethane	<25		59	25	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Vinyl chloride	<15		30	15	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50
Xylenes, Total	<13		30	13	ug/Kg	☼	05/06/16 12:00	05/19/16 01:42	50

Client Sample ID: SW2

Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-2
Matrix: Solid
Percent Solids: 91.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		71 - 127	05/06/16 12:00	05/19/16 01:42	50
4-Bromofluorobenzene (Surr)	87		71 - 120	05/06/16 12:00	05/19/16 01:42	50
Dibromofluoromethane	107		70 - 120	05/06/16 12:00	05/19/16 01:42	50
Toluene-d8 (Surr)	98		75 - 120	05/06/16 12:00	05/19/16 01:42	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.4**		0.97	0.45	mg/Kg	☼	05/13/16 09:08	05/14/16 21:11	1
Barium	**15**	**B**	0.97	0.18	mg/Kg	☼	05/13/16 09:08	05/14/16 21:11	1
Cadmium	**0.18**	**J**	0.19	0.056	mg/Kg	☼	05/13/16 09:08	05/14/16 21:11	1
Chromium	**4.5**		0.97	0.17	mg/Kg	☼	05/13/16 09:08	05/14/16 21:11	1
Lead	**5.2**		0.48	0.24	mg/Kg	☼	05/13/16 09:08	05/14/16 21:11	1
Selenium	**0.74**	**J**	0.97	0.48	mg/Kg	☼	05/13/16 09:08	05/14/16 21:11	1
Silver	<0.11		0.48	0.11	mg/Kg	☼	05/13/16 09:08	05/14/16 21:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0090		0.017	0.0090	mg/Kg	☼	05/12/16 14:00	05/16/16 18:06	1

Client Sample ID: SW3

Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-3
Matrix: Solid
Percent Solids: 86.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		66	31	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
1,1,1-Trichloroethane	<25		66	25	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
1,1,2,2-Tetrachloroethane	<26		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
1,1,2-Trichloroethane	<23		66	23	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
1,1-Dichloroethane	<27		66	27	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
1,1-Dichloroethene	<26		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
1,1-Dichloropropene	<20		66	20	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
1,2,3-Trichlorobenzene	<30		66	30	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
1,2,3-Trichloropropane	<27		66	27	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
1,2,4-Trichlorobenzene	<23		66	23	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
1,2,4-Trimethylbenzene	**72**		66	24	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
1,2-Dibromoethane	<26		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
1,2-Dichlorobenzene	<22		66	22	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
1,2-Dichloroethane	<26		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
1,2-Dichloropropane	<28		66	28	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
1,3,5-Trimethylbenzene	**69**		66	25	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
1,3-Dichlorobenzene	<27		66	27	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
1,3-Dichloropropane	<24		66	24	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
1,4-Dichlorobenzene	<24		66	24	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
2,2-Dichloropropane	<29		66	29	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
2-Chlorotoluene	<21		66	21	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
4-Chlorotoluene	<23		66	23	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Benzene	**120**		17	9.7	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Bromobenzene	<24		66	24	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Bromochloromethane	<28		66	28	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50

Client Sample ID: SW3
Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-3
Matrix: Solid
Percent Solids: 86.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<25		66	25	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Bromoform	<32		66	32	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Bromomethane	<53		130	53	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Carbon tetrachloride	<25		66	25	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Chlorobenzene	<26		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Chloroethane	<33		66	33	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Chloroform	<25		66	25	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Chloromethane	<21		66	21	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
cis-1,2-Dichloroethene	<27		66	27	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
cis-1,3-Dichloropropene	<28		66	28	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Dibromochloromethane	<32		66	32	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Dibromomethane	<18		66	18	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Dichlorodifluoromethane	<45		130	45	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Ethylbenzene	<12		17	12	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Hexachlorobutadiene	<30		66	30	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Isopropyl ether	<18		66	18	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Isopropylbenzene	**890**		66	25	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Methyl tert-butyl ether	<26		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Methylene Chloride	<110		330	110	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Naphthalene	**62**	**J**	66	22	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
n-Butylbenzene	**690**		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
N-Propylbenzene	**1900**		66	27	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
p-Isopropyltoluene	**310**		66	24	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
sec-Butylbenzene	**480**		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Styrene	<26		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
tert-Butylbenzene	<26		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Tetrachloroethene	<25		66	25	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Toluene	<9.8		17	9.8	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
trans-1,2-Dichloroethene	<23		66	23	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
trans-1,3-Dichloropropene	<24		66	24	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Trichloroethene	<11		33	11	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Trichlorofluoromethane	<28		66	28	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Vinyl chloride	<17		33	17	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50
Xylenes, Total	<15		33	15	ug/Kg	☼	05/06/16 12:00	05/19/16 02:08	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*71 - 127*	*05/06/16 12:00*	*05/19/16 02:08*	*50*
4-Bromofluorobenzene (Surr)	*85*		*71 - 120*	*05/06/16 12:00*	*05/19/16 02:08*	*50*
Dibromofluoromethane	*104*		*70 - 120*	*05/06/16 12:00*	*05/19/16 02:08*	*50*
Toluene-d8 (Surr)	*104*		*75 - 120*	*05/06/16 12:00*	*05/19/16 02:08*	*50*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.4**		1.1	0.49	mg/Kg	☼	05/13/16 09:08	05/14/16 21:16	1
Barium	**34**	**B**	1.1	0.19	mg/Kg	☼	05/13/16 09:08	05/14/16 21:16	1
Cadmium	**0.23**		0.21	0.062	mg/Kg	☼	05/13/16 09:08	05/14/16 21:16	1
Chromium	**13**		1.1	0.18	mg/Kg	☼	05/13/16 09:08	05/14/16 21:16	1
Lead	**9.3**		0.53	0.26	mg/Kg	☼	05/13/16 09:08	05/14/16 21:16	1
Selenium	<0.53		1.1	0.53	mg/Kg	☼	05/13/16 09:08	05/14/16 21:16	1
Silver	<0.12		0.53	0.12	mg/Kg	☼	05/13/16 09:08	05/14/16 21:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.079**		0.019	0.010	mg/Kg	☼	05/12/16 14:00	05/16/16 16:32	1

Client Sample ID: SW4

Lab Sample ID: 500-111307-4

Date Collected: 05/06/16 12:00

Matrix: Solid

Date Received: 05/07/16 11:00

Percent Solids: 87.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<58		130	58	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
1,1,1-Trichloroethane	<48		130	48	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
1,1,2,2-Tetrachloroethane	<50		130	50	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
1,1,2-Trichloroethane	<44		130	44	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
1,1-Dichloroethane	<52		130	52	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
1,1-Dichloroethene	<49		130	49	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
1,1-Dichloropropene	<38		130	38	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
1,2,3-Trichlorobenzene	<58		130	58	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
1,2,3-Trichloropropane	<52		130	52	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
1,2,4-Trichlorobenzene	<43		130	43	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
1,2,4-Trimethylbenzene	<45		130	45	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
1,2-Dibromo-3-Chloropropane	<250		630	250	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
1,2-Dibromoethane	<49		130	49	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
1,2-Dichlorobenzene	<42		130	42	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
1,2-Dichloroethane	<49		130	49	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
1,2-Dichloropropane	<54		130	54	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
1,3,5-Trimethylbenzene	<48		130	48	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
1,3-Dichlorobenzene	<50		130	50	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
1,3-Dichloropropane	<46		130	46	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
1,4-Dichlorobenzene	<46		130	46	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
2,2-Dichloropropane	<56		130	56	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
2-Chlorotoluene	<40		130	40	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
4-Chlorotoluene	<44		130	44	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Benzene	**110**		32	18	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Bromobenzene	<45		130	45	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Bromochloromethane	<54		130	54	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Bromodichloromethane	<47		130	47	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Bromoform	<61		130	61	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Bromomethane	<100		250	100	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Carbon tetrachloride	<48		130	48	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Chlorobenzene	<49		130	49	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Chloroethane	<64		130	64	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Chloroform	<47		130	47	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Chloromethane	<40		130	40	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
cis-1,2-Dichloroethene	<52		130	52	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
cis-1,3-Dichloropropene	<53		130	53	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Dibromochloromethane	<62		130	62	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Dibromomethane	<34		130	34	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Dichlorodifluoromethane	<85		250	85	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Ethylbenzene	<23		32	23	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Hexachlorobutadiene	<56		130	56	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Isopropyl ether	<35		130	35	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Isopropylbenzene	**1300**		130	48	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Methyl tert-butyl ether	<50		130	50	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Methylene Chloride	<210		630	210	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100

Client Sample ID: SW4

Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-4
Matrix: Solid
Percent Solids: 87.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<42		130	42	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
n-Butylbenzene	<49		130	49	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
N-Propylbenzene	**2000**		130	52	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
p-Isopropyltoluene	**320**		130	46	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
sec-Butylbenzene	**740**		130	50	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Styrene	<49		130	49	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
tert-Butylbenzene	<50		130	50	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Tetrachloroethene	<47		130	47	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Toluene	<19		32	19	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
trans-1,2-Dichloroethene	<44		130	44	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
trans-1,3-Dichloropropene	<46		130	46	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Trichloroethene	<21		63	21	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Trichlorofluoromethane	<54		130	54	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Vinyl chloride	<33		63	33	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100
Xylenes, Total	<28		63	28	ug/Kg	☼	05/06/16 12:00	05/19/16 05:42	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*71 - 127*	*05/06/16 12:00*	*05/19/16 05:42*	*100*
4-Bromofluorobenzene (Surr)	*88*		*71 - 120*	*05/06/16 12:00*	*05/19/16 05:42*	*100*
Dibromofluoromethane	*108*		*70 - 120*	*05/06/16 12:00*	*05/19/16 05:42*	*100*
Toluene-d8 (Surr)	*103*		*75 - 120*	*05/06/16 12:00*	*05/19/16 05:42*	*100*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.6**		1.1	0.49	mg/Kg	☼	05/13/16 09:08	05/14/16 21:21	1
Barium	**33**	**B**	1.1	0.19	mg/Kg	☼	05/13/16 09:08	05/14/16 21:21	1
Cadmium	**0.22**		0.21	0.062	mg/Kg	☼	05/13/16 09:08	05/14/16 21:21	1
Chromium	**14**		1.1	0.18	mg/Kg	☼	05/13/16 09:08	05/14/16 21:21	1
Lead	**9.7**		0.53	0.26	mg/Kg	☼	05/13/16 09:08	05/14/16 21:21	1
Selenium	**0.53**	**J**	1.1	0.53	mg/Kg	☼	05/13/16 09:08	05/14/16 21:21	1
Silver	<0.12		0.53	0.12	mg/Kg	☼	05/13/16 09:08	05/14/16 21:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.078**		0.018	0.0094	mg/Kg	☼	05/12/16 14:00	05/16/16 16:34	1

Client Sample ID: SW5

Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-5
Matrix: Solid
Percent Solids: 81.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<34		73	34	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
1,1,1-Trichloroethane	<28		73	28	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
1,1,2,2-Tetrachloroethane	<29		73	29	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
1,1,2-Trichloroethane	<26		73	26	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
1,1-Dichloroethane	<30		73	30	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
1,1-Dichloroethene	<28		73	28	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
1,1-Dichloropropene	<22		73	22	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
1,2,3-Trichlorobenzene	<33		73	33	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50

Client: TRC Environmental Corporation.
Project/Site: STH 38 Tank Removal 257062.0000.0000

TestAmerica Job ID: 500-111307-1

Client Sample ID: SW5
Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-5
Matrix: Solid
Percent Solids: 81.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<30		73	30	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
1,2,4-Trichlorobenzene	<25		73	25	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
1,2,4-Trimethylbenzene	**52**	**J**	73	26	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
1,2-Dibromo-3-Chloropropane	<140		360	140	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
1,2-Dibromoethane	<28		73	28	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
1,2-Dichlorobenzene	<24		73	24	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
1,2-Dichloroethane	<28		73	28	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
1,2-Dichloropropane	<31		73	31	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
1,3,5-Trimethylbenzene	<28		73	28	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
1,3-Dichlorobenzene	<29		73	29	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
1,3-Dichloropropane	<26		73	26	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
1,4-Dichlorobenzene	<26		73	26	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
2,2-Dichloropropane	<32		73	32	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
2-Chlorotoluene	<23		73	23	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
4-Chlorotoluene	<25		73	25	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Benzene	<11		18	11	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Bromobenzene	<26		73	26	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Bromochloromethane	<31		73	31	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Bromodichloromethane	<27		73	27	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Bromoform	<35		73	35	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Bromomethane	<58		150	58	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Carbon tetrachloride	<28		73	28	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Chlorobenzene	<28		73	28	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Chloroethane	<37		73	37	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Chloroform	<27		73	27	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Chloromethane	<23		73	23	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
cis-1,2-Dichloroethene	<30		73	30	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
cis-1,3-Dichloropropene	<30		73	30	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Dibromochloromethane	<35		73	35	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Dibromomethane	<20		73	20	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Dichlorodifluoromethane	<49		150	49	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Ethylbenzene	<13		18	13	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Hexachlorobutadiene	<32		73	32	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Isopropyl ether	<20		73	20	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Isopropylbenzene	<28		73	28	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Methyl tert-butyl ether	<29		73	29	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Methylene Chloride	<120		360	120	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Naphthalene	<24		73	24	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
n-Butylbenzene	<28		73	28	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
N-Propylbenzene	<30		73	30	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
p-Isopropyltoluene	<26		73	26	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
sec-Butylbenzene	<29		73	29	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Styrene	<28		73	28	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
tert-Butylbenzene	<29		73	29	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Tetrachloroethene	<27		73	27	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Toluene	<11		18	11	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
trans-1,2-Dichloroethene	<25		73	25	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
trans-1,3-Dichloropropene	<26		73	26	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Trichloroethene	<12		36	12	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50

Client Sample ID: SW5

Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-5

Matrix: Solid
Percent Solids: 81.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	<31		73	31	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Vinyl chloride	<19		36	19	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50
Xylenes, Total	<16		36	16	ug/Kg	☼	05/06/16 12:00	05/19/16 02:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*71 - 127*	*05/06/16 12:00*	*05/19/16 02:35*	*50*
4-Bromofluorobenzene (Surr)	*86*		*71 - 120*	*05/06/16 12:00*	*05/19/16 02:35*	*50*
Dibromofluoromethane	*107*		*70 - 120*	*05/06/16 12:00*	*05/19/16 02:35*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*05/06/16 12:00*	*05/19/16 02:35*	*50*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.2**		1.2	0.54	mg/Kg	☼	05/13/16 09:08	05/14/16 21:27	1
Barium	**78**	**B**	1.2	0.21	mg/Kg	☼	05/13/16 09:08	05/14/16 21:27	1
Cadmium	**0.24**		0.23	0.068	mg/Kg	☼	05/13/16 09:08	05/14/16 21:27	1
Chromium	**27**		1.2	0.20	mg/Kg	☼	05/13/16 09:08	05/14/16 21:27	1
Lead	**20**		0.59	0.29	mg/Kg	☼	05/13/16 09:08	05/14/16 21:27	1
Selenium	**0.59**	**J**	1.2	0.58	mg/Kg	☼	05/13/16 09:08	05/14/16 21:27	1
Silver	<0.14		0.59	0.14	mg/Kg	☼	05/13/16 09:08	05/14/16 21:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**		0.019	0.010	mg/Kg	☼	05/12/16 14:00	05/16/16 16:36	1

Client Sample ID: SW6

Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-6

Matrix: Solid
Percent Solids: 86.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<62		130	62	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
1,1,1-Trichloroethane	<51		130	51	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
1,1,2,2-Tetrachloroethane	<53		130	53	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
1,1,2-Trichloroethane	<47		130	47	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
1,1-Dichloroethane	<55		130	55	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
1,1-Dichloroethene	<52		130	52	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
1,1-Dichloropropene	<40		130	40	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
1,2,3-Trichlorobenzene	<61		130	61	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
1,2,3-Trichloropropane	<55		130	55	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
1,2,4-Trichlorobenzene	<46		130	46	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
1,2-Dibromo-3-Chloropropane	<270		670	270	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
1,2-Dibromoethane	<52		130	52	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
1,2-Dichlorobenzene	<45		130	45	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
1,2-Dichloroethane	<52		130	52	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
1,2-Dichloropropane	<57		130	57	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
1,3,5-Trimethylbenzene	**16000**		130	51	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
1,3-Dichlorobenzene	<54		130	54	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
1,3-Dichloropropane	<48		130	48	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
1,4-Dichlorobenzene	<49		130	49	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
2,2-Dichloropropane	<59		130	59	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100

Client: TRC Environmental Corporation.
Project/Site: STH 38 Tank Removal 257062.0000.0000

TestAmerica Job ID: 500-111307-1

Client Sample ID: SW6
Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-6
Matrix: Solid
Percent Solids: 86.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	<42		130	42	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
4-Chlorotoluene	<47		130	47	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Benzene	**310**		33	20	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Bromobenzene	<48		130	48	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Bromochloromethane	<57		130	57	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Bromodichloromethane	<50		130	50	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Bromoform	<65		130	65	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Bromomethane	<110		270	110	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Carbon tetrachloride	<51		130	51	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Chlorobenzene	<52		130	52	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Chloroethane	<67		130	67	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Chloroform	<49		130	49	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Chloromethane	<43		130	43	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
cis-1,2-Dichloroethene	<55		130	55	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
cis-1,3-Dichloropropene	<56		130	56	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Dibromochloromethane	<65		130	65	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Dibromomethane	<36		130	36	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Dichlorodifluoromethane	<90		270	90	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Ethylbenzene	<24		33	24	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Hexachlorobutadiene	<60		130	60	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Isopropyl ether	<37		130	37	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Isopropylbenzene	**3000**		130	51	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Methyl tert-butyl ether	<53		130	53	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Methylene Chloride	<220		670	220	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Naphthalene	**8800**		130	45	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
n-Butylbenzene	**4800**		130	52	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
N-Propylbenzene	**9600**		130	55	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
p-Isopropyltoluene	**880**		130	48	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
sec-Butylbenzene	**1200**		130	53	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Styrene	<52		130	52	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
tert-Butylbenzene	<53		130	53	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Tetrachloroethene	<49		130	49	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Toluene	**89**		33	20	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
trans-1,2-Dichloroethene	<47		130	47	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
trans-1,3-Dichloropropene	<48		130	48	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Trichloroethene	<22		67	22	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Trichlorofluoromethane	<57		130	57	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Vinyl chloride	<35		67	35	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100
Xylenes, Total	**360**		67	29	ug/Kg	☼	05/06/16 12:00	05/19/16 07:02	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*71 - 127*	*05/06/16 12:00*	*05/19/16 07:02*	*100*
4-Bromofluorobenzene (Surr)	*87*		*71 - 120*	*05/06/16 12:00*	*05/19/16 07:02*	*100*
Dibromofluoromethane	*110*		*70 - 120*	*05/06/16 12:00*	*05/19/16 07:02*	*100*
Toluene-d8 (Surr)	*101*		*75 - 120*	*05/06/16 12:00*	*05/19/16 07:02*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**46000**		1300	480	ug/Kg	☼	05/06/16 12:00	05/19/16 07:29	1000

Client Sample ID: SW6

Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-6
Matrix: Solid
Percent Solids: 86.2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*71 - 127*	*05/06/16 12:00*	*05/19/16 07:29*	*1000*
4-Bromofluorobenzene (Surr)	*86*		*71 - 120*	*05/06/16 12:00*	*05/19/16 07:29*	*1000*
Dibromofluoromethane	*109*		*70 - 120*	*05/06/16 12:00*	*05/19/16 07:29*	*1000*
Toluene-d8 (Surr)	*100*		*75 - 120*	*05/06/16 12:00*	*05/19/16 07:29*	*1000*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.4**		1.0	0.46	mg/Kg	☼	05/13/16 09:08	05/14/16 21:32	1
Barium	**42**	**B**	1.0	0.18	mg/Kg	☼	05/13/16 09:08	05/14/16 21:32	1
Cadmium	**0.31**		0.20	0.058	mg/Kg	☼	05/13/16 09:08	05/14/16 21:32	1
Chromium	**16**		1.0	0.17	mg/Kg	☼	05/13/16 09:08	05/14/16 21:32	1
Lead	**12**		0.50	0.25	mg/Kg	☼	05/13/16 09:08	05/14/16 21:32	1
Selenium	<0.50		1.0	0.50	mg/Kg	☼	05/13/16 09:08	05/14/16 21:32	1
Silver	<0.12		0.50	0.12	mg/Kg	☼	05/13/16 09:08	05/14/16 21:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.019	0.010	mg/Kg	☼	05/12/16 14:00	05/16/16 16:57	1

Client Sample ID: SW7

Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-7
Matrix: Solid
Percent Solids: 85.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		68	31	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
1,1,1-Trichloroethane	<26		68	26	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
1,1,2,2-Tetrachloroethane	<27		68	27	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
1,1,2-Trichloroethane	<24		68	24	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
1,1-Dichloroethane	<28		68	28	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
1,1-Dichloroethene	<26		68	26	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
1,1-Dichloropropene	<20		68	20	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
1,2,3-Trichlorobenzene	<31		68	31	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
1,2,3-Trichloropropane	<28		68	28	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
1,2,4-Trichlorobenzene	<23		68	23	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
1,2,4-Trimethylbenzene	<24		68	24	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
1,2-Dibromo-3-Chloropropane	<130		340	130	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
1,2-Dibromoethane	<26		68	26	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
1,2-Dichlorobenzene	<23		68	23	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
1,2-Dichloroethane	<26		68	26	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
1,2-Dichloropropane	<29		68	29	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
1,3,5-Trimethylbenzene	<26		68	26	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
1,3-Dichlorobenzene	<27		68	27	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
1,3-Dichloropropane	<24		68	24	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
1,4-Dichlorobenzene	<25		68	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
2,2-Dichloropropane	<30		68	30	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
2-Chlorotoluene	<21		68	21	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
4-Chlorotoluene	<24		68	24	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Benzene	**36**		17	9.9	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Bromobenzene	<24		68	24	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Bromochloromethane	<29		68	29	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50

Client Sample ID: SW7
Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-7
Matrix: Solid
Percent Solids: 85.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<25		68	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Bromoform	<33		68	33	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Bromomethane	<54		140	54	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Carbon tetrachloride	<26		68	26	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Chlorobenzene	<26		68	26	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Chloroethane	<34		68	34	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Chloroform	<25		68	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Chloromethane	<22		68	22	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
cis-1,2-Dichloroethene	<28		68	28	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
cis-1,3-Dichloropropene	<28		68	28	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Dibromochloromethane	<33		68	33	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Dibromomethane	<18		68	18	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Dichlorodifluoromethane	<46		140	46	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Ethylbenzene	<12		17	12	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Hexachlorobutadiene	<30		68	30	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Isopropyl ether	<19		68	19	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Isopropylbenzene	**1200**		68	26	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Methyl tert-butyl ether	<27		68	27	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Methylene Chloride	<110		340	110	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Naphthalene	**380**		68	23	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
n-Butylbenzene	**1500**		68	26	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
N-Propylbenzene	**3400**		68	28	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
p-Isopropyltoluene	**320**		68	24	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
sec-Butylbenzene	**730**		68	27	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Styrene	<26		68	26	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
tert-Butylbenzene	<27		68	27	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Tetrachloroethene	<25		68	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Toluene	<9.9		17	9.9	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
trans-1,2-Dichloroethene	<24		68	24	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
trans-1,3-Dichloropropene	<24		68	24	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Trichloroethene	<11		34	11	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Trichlorofluoromethane	<29		68	29	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Vinyl chloride	<18		34	18	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50
Xylenes, Total	<15		34	15	ug/Kg	☼	05/06/16 12:00	05/19/16 03:02	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*71 - 127*	*05/06/16 12:00*	*05/19/16 03:02*	*50*
4-Bromofluorobenzene (Surr)	*85*		*71 - 120*	*05/06/16 12:00*	*05/19/16 03:02*	*50*
Dibromofluoromethane	*111*		*70 - 120*	*05/06/16 12:00*	*05/19/16 03:02*	*50*
Toluene-d8 (Surr)	*103*		*75 - 120*	*05/06/16 12:00*	*05/19/16 03:02*	*50*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.6**		1.0	0.48	mg/Kg	☼	05/13/16 09:08	05/14/16 21:37	1
Barium	**35**	**B**	1.0	0.19	mg/Kg	☼	05/13/16 09:08	05/14/16 21:37	1
Cadmium	**0.27**		0.21	0.060	mg/Kg	☼	05/13/16 09:08	05/14/16 21:37	1
Chromium	**13**		1.0	0.18	mg/Kg	☼	05/13/16 09:08	05/14/16 21:37	1
Lead	**20**		0.51	0.26	mg/Kg	☼	05/13/16 09:08	05/14/16 21:37	1
Selenium	**0.59**	**J**	1.0	0.51	mg/Kg	☼	05/13/16 09:08	05/14/16 21:37	1
Silver	<0.12		0.51	0.12	mg/Kg	☼	05/13/16 09:08	05/14/16 21:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.017	0.0090	mg/Kg	☼	05/12/16 14:00	05/16/16 16:59	1

Client Sample ID: SW8

Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-8

Matrix: Solid
Percent Solids: 85.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<61		130	61	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
1,1,1-Trichloroethane	<50		130	50	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
1,1,2,2-Tetrachloroethane	<53		130	53	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
1,1,2-Trichloroethane	<47		130	47	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
1,1-Dichloroethane	<54		130	54	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
1,1-Dichloroethene	<52		130	52	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
1,1-Dichloropropene	<40		130	40	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
1,2,3-Trichlorobenzene	<61		130	61	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
1,2,3-Trichloropropane	<55		130	55	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
1,2,4-Trichlorobenzene	<45		130	45	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
1,2,4-Trimethylbenzene	<47		130	47	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
1,2-Dibromo-3-Chloropropane	<260		660	260	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
1,2-Dibromoethane	<51		130	51	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
1,2-Dichlorobenzene	<44		130	44	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
1,2-Dichloroethane	<52		130	52	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
1,2-Dichloropropane	<57		130	57	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
1,3,5-Trimethylbenzene	<50		130	50	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
1,3-Dichlorobenzene	<53		130	53	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
1,3-Dichloropropane	<48		130	48	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
1,4-Dichlorobenzene	<48		130	48	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
2,2-Dichloropropane	<59		130	59	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
2-Chlorotoluene	<42		130	42	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
4-Chlorotoluene	<46		130	46	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Benzene	<19		33	19	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Bromobenzene	<47		130	47	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Bromochloromethane	<57		130	57	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Bromodichloromethane	<49		130	49	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Bromoform	<64		130	64	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Bromomethane	<110		270	110	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Carbon tetrachloride	<51		130	51	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Chlorobenzene	<51		130	51	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Chloroethane	<67		130	67	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Chloroform	<49		130	49	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Chloromethane	<42		130	42	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
cis-1,2-Dichloroethene	<54		130	54	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
cis-1,3-Dichloropropene	<55		130	55	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Dibromochloromethane	<65		130	65	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Dibromomethane	<36		130	36	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Dichlorodifluoromethane	<89		270	89	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Ethylbenzene	<24		33	24	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Hexachlorobutadiene	<59		130	59	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Isopropyl ether	<37		130	37	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Isopropylbenzene	89	J	130	51	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Methyl tert-butyl ether	<52		130	52	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Methylene Chloride	<220		660	220	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100

Client Sample ID: SW8

Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-8
Matrix: Solid
Percent Solids: 85.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<44		130	44	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
n-Butylbenzene	<51		130	51	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
N-Propylbenzene	**240**		130	55	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
p-Isopropyltoluene	<48		130	48	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
sec-Butylbenzene	<53		130	53	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Styrene	<51		130	51	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
tert-Butylbenzene	<53		130	53	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Tetrachloroethene	<49		130	49	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Toluene	<19		33	19	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
trans-1,2-Dichloroethene	<46		130	46	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
trans-1,3-Dichloropropene	<48		130	48	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Trichloroethene	<22		66	22	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Trichlorofluoromethane	<57		130	57	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Vinyl chloride	<35		66	35	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100
Xylenes, Total	<29		66	29	ug/Kg	☼	05/06/16 12:00	05/19/16 06:09	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*71 - 127*	*05/06/16 12:00*	*05/19/16 06:09*	*100*
4-Bromofluorobenzene (Surr)	*84*		*71 - 120*	*05/06/16 12:00*	*05/19/16 06:09*	*100*
Dibromofluoromethane	*108*		*70 - 120*	*05/06/16 12:00*	*05/19/16 06:09*	*100*
Toluene-d8 (Surr)	*99*		*75 - 120*	*05/06/16 12:00*	*05/19/16 06:09*	*100*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.5**		0.99	0.46	mg/Kg	☼	05/13/16 09:08	05/14/16 21:42	1
Barium	**55**	**B**	0.99	0.18	mg/Kg	☼	05/13/16 09:08	05/14/16 21:42	1
Cadmium	**1.2**		0.20	0.058	mg/Kg	☼	05/13/16 09:08	05/14/16 21:42	1
Chromium	**14**		0.99	0.17	mg/Kg	☼	05/13/16 09:08	05/14/16 21:42	1
Lead	**98**		0.50	0.25	mg/Kg	☼	05/13/16 09:08	05/14/16 21:42	1
Selenium	**0.74**	**J**	0.99	0.49	mg/Kg	☼	05/13/16 09:08	05/14/16 21:42	1
Silver	<0.12		0.50	0.12	mg/Kg	☼	05/13/16 09:08	05/14/16 21:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.23**		0.018	0.0095	mg/Kg	☼	05/12/16 14:00	05/16/16 17:03	1

Client Sample ID: TB1

Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-9
Matrix: Solid
Percent Solids: 87.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		64	30	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
1,1,1-Trichloroethane	<24		64	24	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
1,1,2,2-Tetrachloroethane	<26		64	26	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
1,1,2-Trichloroethane	<23		64	23	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
1,1-Dichloroethane	<26		64	26	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
1,1-Dichloroethene	<25		64	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
1,1-Dichloropropene	<19		64	19	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
1,2,3-Trichlorobenzene	<29		64	29	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50

Client Sample ID: TB1
Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-9
Matrix: Solid
Percent Solids: 87.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<27		64	27	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
1,2,4-Trichlorobenzene	<22		64	22	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
1,2,4-Trimethylbenzene	<23		64	23	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
1,2-Dibromo-3-Chloropropane	<130		320	130	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
1,2-Dibromoethane	<25		64	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
1,2-Dichlorobenzene	<22		64	22	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
1,2-Dichloroethane	<25		64	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
1,2-Dichloropropane	<28		64	28	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
1,3,5-Trimethylbenzene	<24		64	24	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
1,3-Dichlorobenzene	<26		64	26	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
1,3-Dichloropropane	<23		64	23	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
1,4-Dichlorobenzene	<23		64	23	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
2,2-Dichloropropane	<29		64	29	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
2-Chlorotoluene	<20		64	20	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
4-Chlorotoluene	<23		64	23	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Benzene	**440**		16	9.4	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Bromobenzene	<23		64	23	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Bromochloromethane	<28		64	28	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Bromodichloromethane	<24		64	24	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Bromoform	<31		64	31	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Bromomethane	<51		130	51	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Carbon tetrachloride	<25		64	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Chlorobenzene	<25		64	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Chloroethane	<32		64	32	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Chloroform	<24		64	24	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Chloromethane	<21		64	21	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
cis-1,2-Dichloroethene	<26		64	26	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
cis-1,3-Dichloropropene	<27		64	27	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Dibromochloromethane	<31		64	31	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Dibromomethane	<17		64	17	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Dichlorodifluoromethane	<43		130	43	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Ethylbenzene	<12		16	12	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Hexachlorobutadiene	<29		64	29	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Isopropyl ether	<18		64	18	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Isopropylbenzene	**650**		64	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Methyl tert-butyl ether	<25		64	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Methylene Chloride	<100		320	100	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Naphthalene	<22		64	22	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
n-Butylbenzene	**300**		64	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
N-Propylbenzene	**1000**		64	27	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
p-Isopropyltoluene	**130**		64	23	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
sec-Butylbenzene	**280**		64	26	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Styrene	<25		64	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
tert-Butylbenzene	<26		64	26	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Tetrachloroethene	<24		64	24	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Toluene	<9.5		16	9.5	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
trans-1,2-Dichloroethene	<23		64	23	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
trans-1,3-Dichloropropene	<23		64	23	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Trichloroethene	<11		32	11	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50

Client Sample ID: TB1

Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-9
Matrix: Solid
Percent Solids: 87.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	<28		64	28	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Vinyl chloride	<17		32	17	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50
Xylenes, Total	<14		32	14	ug/Kg	☼	05/06/16 12:00	05/19/16 03:28	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*71 - 127*	*05/06/16 12:00*	*05/19/16 03:28*	*50*
4-Bromofluorobenzene (Surr)	*87*		*71 - 120*	*05/06/16 12:00*	*05/19/16 03:28*	*50*
Dibromofluoromethane	*108*		*70 - 120*	*05/06/16 12:00*	*05/19/16 03:28*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*05/06/16 12:00*	*05/19/16 03:28*	*50*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.2**		1.1	0.50	mg/Kg	☼	05/13/16 09:08	05/14/16 21:47	1
Barium	**39**	**B**	1.1	0.20	mg/Kg	☼	05/13/16 09:08	05/14/16 21:47	1
Cadmium	**0.26**		0.21	0.062	mg/Kg	☼	05/13/16 09:08	05/14/16 21:47	1
Chromium	**15**		1.1	0.18	mg/Kg	☼	05/13/16 09:08	05/14/16 21:47	1
Lead	**9.5**		0.54	0.27	mg/Kg	☼	05/13/16 09:08	05/14/16 21:47	1
Selenium	**0.65**	**J**	1.1	0.53	mg/Kg	☼	05/13/16 09:08	05/14/16 21:47	1
Silver	<0.13		0.54	0.13	mg/Kg	☼	05/13/16 09:08	05/14/16 21:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**		0.017	0.0091	mg/Kg	☼	05/12/16 14:00	05/16/16 17:05	1

Client Sample ID: TB2

Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-10
Matrix: Solid
Percent Solids: 87.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<29		64	29	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
1,1,1-Trichloroethane	<24		64	24	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
1,1,2,2-Tetrachloroethane	<25		64	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
1,1,2-Trichloroethane	<22		64	22	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
1,1-Dichloroethane	<26		64	26	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
1,1-Dichloroethene	<25		64	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
1,1-Dichloropropene	<19		64	19	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
1,2,3-Trichlorobenzene	<29		64	29	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
1,2,3-Trichloropropane	<26		64	26	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
1,2,4-Trichlorobenzene	<22		64	22	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
1,2,4-Trimethylbenzene	**64**		64	23	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
1,2-Dibromo-3-Chloropropane	<130		320	130	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
1,2-Dibromoethane	<25		64	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
1,2-Dichlorobenzene	<21		64	21	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
1,2-Dichloroethane	<25		64	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
1,2-Dichloropropane	<27		64	27	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
1,3,5-Trimethylbenzene	**83**		64	24	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
1,3-Dichlorobenzene	<26		64	26	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
1,3-Dichloropropane	<23		64	23	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
1,4-Dichlorobenzene	<23		64	23	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50

Client Sample ID: TB2
Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-10
Matrix: Solid
Percent Solids: 87.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	<28		64	28	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
2-Chlorotoluene	<20		64	20	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
4-Chlorotoluene	<22		64	22	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Benzene	**250**		16	9.3	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Bromobenzene	<23		64	23	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Bromochloromethane	<27		64	27	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Bromodichloromethane	<24		64	24	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Bromoform	<31		64	31	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Bromomethane	<51		130	51	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Carbon tetrachloride	<25		64	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Chlorobenzene	<25		64	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Chloroethane	<32		64	32	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Chloroform	<24		64	24	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Chloromethane	<20		64	20	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
cis-1,2-Dichloroethene	<26		64	26	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
cis-1,3-Dichloropropene	<27		64	27	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Dibromochloromethane	<31		64	31	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Dibromomethane	<17		64	17	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Dichlorodifluoromethane	<43		130	43	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Ethylbenzene	<12		16	12	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Hexachlorobutadiene	<28		64	28	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Isopropyl ether	<18		64	18	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Isopropylbenzene	**650**		64	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Methyl tert-butyl ether	<25		64	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Methylene Chloride	<100		320	100	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Naphthalene	**330**		64	21	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
n-Butylbenzene	<25		64	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
N-Propylbenzene	**1500**		64	26	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
p-Isopropyltoluene	**200**		64	23	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
sec-Butylbenzene	**270**		64	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Styrene	<25		64	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
tert-Butylbenzene	<25		64	25	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Tetrachloroethene	<24		64	24	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Toluene	<9.4		16	9.4	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
trans-1,2-Dichloroethene	<22		64	22	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
trans-1,3-Dichloropropene	<23		64	23	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Trichloroethene	<10		32	10	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Trichlorofluoromethane	<27		64	27	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Vinyl chloride	<17		32	17	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50
Xylenes, Total	<14		32	14	ug/Kg	☼	05/06/16 12:00	05/19/16 03:55	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*71 - 127*	*05/06/16 12:00*	*05/19/16 03:55*	*50*
4-Bromofluorobenzene (Surr)	*87*		*71 - 120*	*05/06/16 12:00*	*05/19/16 03:55*	*50*
Dibromofluoromethane	*109*		*70 - 120*	*05/06/16 12:00*	*05/19/16 03:55*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*05/06/16 12:00*	*05/19/16 03:55*	*50*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.6**		1.0	0.46	mg/Kg	☼	05/13/16 09:08	05/14/16 22:00	1

Client Sample ID: TB2

Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-10
Matrix: Solid
Percent Solids: 87.8

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**33**	**B**	1.0	0.18	mg/Kg	☼	05/13/16 09:08	05/14/16 22:00	1
Cadmium	**0.25**		0.20	0.058	mg/Kg	☼	05/13/16 09:08	05/14/16 22:00	1
Chromium	**12**		1.0	0.17	mg/Kg	☼	05/13/16 09:08	05/14/16 22:00	1
Lead	**10**		0.50	0.25	mg/Kg	☼	05/13/16 09:08	05/14/16 22:00	1
Selenium	<0.49		1.0	0.49	mg/Kg	☼	05/13/16 09:08	05/14/16 22:00	1
Silver	<0.12		0.50	0.12	mg/Kg	☼	05/13/16 09:08	05/14/16 22:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.038**		0.019	0.0097	mg/Kg	☼	05/12/16 14:00	05/16/16 17:08	1

Client Sample ID: TB3

Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-11
Matrix: Solid
Percent Solids: 87.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		66	30	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
1,1,1-Trichloroethane	<25		66	25	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
1,1,2,2-Tetrachloroethane	<26		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
1,1,2-Trichloroethane	<23		66	23	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
1,1-Dichloroethane	<27		66	27	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
1,1-Dichloroethene	<26		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
1,1-Dichloropropene	<20		66	20	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
1,2,3-Trichlorobenzene	<30		66	30	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
1,2,3-Trichloropropane	<27		66	27	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
1,2,4-Trichlorobenzene	<22		66	22	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
1,2,4-Trimethylbenzene	<23		66	23	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
1,2-Dibromoethane	<25		66	25	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
1,2-Dichlorobenzene	<22		66	22	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
1,2-Dichloroethane	<26		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
1,2-Dichloropropane	<28		66	28	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
1,3,5-Trimethylbenzene	**150**		66	25	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
1,3-Dichlorobenzene	<26		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
1,3-Dichloropropane	<24		66	24	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
1,4-Dichlorobenzene	<24		66	24	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
2,2-Dichloropropane	<29		66	29	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
2-Chlorotoluene	<21		66	21	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
4-Chlorotoluene	<23		66	23	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Benzene	**510**		16	9.6	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Bromobenzene	<23		66	23	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Bromochloromethane	<28		66	28	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Bromodichloromethane	<24		66	24	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Bromoform	<32		66	32	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Bromomethane	<52		130	52	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Carbon tetrachloride	<25		66	25	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Chlorobenzene	<25		66	25	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Chloroethane	<33		66	33	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Chloroform	<24		66	24	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50

Client Sample ID: TB3
Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-11
Matrix: Solid
Percent Solids: 87.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<21		66	21	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
cis-1,2-Dichloroethene	<27		66	27	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
cis-1,3-Dichloropropene	<27		66	27	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Dibromochloromethane	<32		66	32	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Dibromomethane	<18		66	18	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Dichlorodifluoromethane	<44		130	44	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Ethylbenzene	<12		16	12	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Hexachlorobutadiene	<29		66	29	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Isopropyl ether	<18		66	18	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Isopropylbenzene	**650**		66	25	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Methyl tert-butyl ether	<26		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Methylene Chloride	<110		330	110	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Naphthalene	**71**		66	22	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
n-Butylbenzene	**280**		66	25	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
N-Propylbenzene	**1200**		66	27	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
p-Isopropyltoluene	**170**		66	24	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
sec-Butylbenzene	**210**		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Styrene	<25		66	25	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
tert-Butylbenzene	<26		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Tetrachloroethene	<24		66	24	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Toluene	<9.6		16	9.6	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
trans-1,2-Dichloroethene	<23		66	23	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
trans-1,3-Dichloropropene	<24		66	24	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Trichloroethene	<11		33	11	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Trichlorofluoromethane	<28		66	28	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Vinyl chloride	<17		33	17	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50
Xylenes, Total	**36**		33	14	ug/Kg	☼	05/06/16 12:00	05/19/16 04:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*71 - 127*	*05/06/16 12:00*	*05/19/16 04:22*	*50*
4-Bromofluorobenzene (Surr)	*87*		*71 - 120*	*05/06/16 12:00*	*05/19/16 04:22*	*50*
Dibromofluoromethane	*106*		*70 - 120*	*05/06/16 12:00*	*05/19/16 04:22*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*05/06/16 12:00*	*05/19/16 04:22*	*50*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**15**		1.1	0.50	mg/Kg	☼	05/13/16 09:08	05/14/16 22:05	1
Barium	**35**	**B**	1.1	0.20	mg/Kg	☼	05/13/16 09:08	05/14/16 22:05	1
Cadmium	**0.22**		0.22	0.062	mg/Kg	☼	05/13/16 09:08	05/14/16 22:05	1
Chromium	**16**		1.1	0.19	mg/Kg	☼	05/13/16 09:08	05/14/16 22:05	1
Lead	**20**		0.54	0.27	mg/Kg	☼	05/13/16 09:08	05/14/16 22:05	1
Selenium	<0.53		1.1	0.53	mg/Kg	☼	05/13/16 09:08	05/14/16 22:05	1
Silver	<0.13		0.54	0.13	mg/Kg	☼	05/13/16 09:08	05/14/16 22:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**		0.018	0.0094	mg/Kg	☼	05/12/16 14:00	05/16/16 17:11	1

Client: TRC Environmental Corporation.
Project/Site: STH 38 Tank Removal 257062.0000.0000

TestAmerica Job ID: 500-111307-1

Client Sample ID: TB4
Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-12
Matrix: Solid
Percent Solids: 85.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		67	31	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
1,1,1-Trichloroethane	<25		67	25	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
1,1,2,2-Tetrachloroethane	<27		67	27	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
1,1,2-Trichloroethane	<24		67	24	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
1,1-Dichloroethane	<27		67	27	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
1,1-Dichloroethene	<26		67	26	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
1,1-Dichloropropene	<20		67	20	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
1,2,3-Trichlorobenzene	<31		67	31	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
1,2,3-Trichloropropane	<28		67	28	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
1,2,4-Trichlorobenzene	<23		67	23	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
1,2,4-Trimethylbenzene	**130**		67	24	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
1,2-Dibromoethane	<26		67	26	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
1,2-Dichlorobenzene	<22		67	22	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
1,2-Dichloroethane	<26		67	26	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
1,2-Dichloropropane	<29		67	29	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
1,3,5-Trimethylbenzene	**230**		67	25	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
1,3-Dichlorobenzene	<27		67	27	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
1,3-Dichloropropane	<24		67	24	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
1,4-Dichlorobenzene	<24		67	24	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
2,2-Dichloropropane	<30		67	30	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
2-Chlorotoluene	<21		67	21	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
4-Chlorotoluene	<23		67	23	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Benzene	**1400**		17	9.8	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Bromobenzene	<24		67	24	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Bromochloromethane	<29		67	29	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Bromodichloromethane	<25		67	25	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Bromoform	<32		67	32	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Bromomethane	<53		130	53	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Carbon tetrachloride	<26		67	26	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Chlorobenzene	<26		67	26	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Chloroethane	<34		67	34	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Chloroform	<25		67	25	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Chloromethane	<21		67	21	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
cis-1,2-Dichloroethene	<27		67	27	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
cis-1,3-Dichloropropene	<28		67	28	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Dibromochloromethane	<33		67	33	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Dibromomethane	<18		67	18	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Dichlorodifluoromethane	<45		130	45	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Ethylbenzene	<12		17	12	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Hexachlorobutadiene	<30		67	30	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Isopropyl ether	<18		67	18	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Isopropylbenzene	**770**		67	26	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Methyl tert-butyl ether	<26		67	26	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Methylene Chloride	<110		330	110	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Naphthalene	**120**		67	22	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
n-Butylbenzene	**280**		67	26	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
N-Propylbenzene	**1400**		67	28	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
p-Isopropyltoluene	**230**		67	24	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50

Client Sample ID: TB4

Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-12
Matrix: Solid
Percent Solids: 85.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	**260**		67	27	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Styrene	<26		67	26	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
tert-Butylbenzene	<27		67	27	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Tetrachloroethene	<25		67	25	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Toluene	**80**		17	9.8	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
trans-1,2-Dichloroethene	<23		67	23	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
trans-1,3-Dichloropropene	<24		67	24	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Trichloroethene	<11		33	11	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Trichlorofluoromethane	<29		67	29	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Vinyl chloride	<18		33	18	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50
Xylenes, Total	**64**		33	15	ug/Kg	☼	05/06/16 12:00	05/19/16 04:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*71 - 127*	*05/06/16 12:00*	*05/19/16 04:49*	*50*
4-Bromofluorobenzene (Surr)	*87*		*71 - 120*	*05/06/16 12:00*	*05/19/16 04:49*	*50*
Dibromofluoromethane	*107*		*70 - 120*	*05/06/16 12:00*	*05/19/16 04:49*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*05/06/16 12:00*	*05/19/16 04:49*	*50*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.0**		1.0	0.48	mg/Kg	☼	05/13/16 09:08	05/14/16 22:10	1
Barium	**41**	**B**	1.0	0.19	mg/Kg	☼	05/13/16 09:08	05/14/16 22:10	1
Cadmium	**0.28**		0.21	0.060	mg/Kg	☼	05/13/16 09:08	05/14/16 22:10	1
Chromium	**16**		1.0	0.18	mg/Kg	☼	05/13/16 09:08	05/14/16 22:10	1
Lead	**11**		0.52	0.26	mg/Kg	☼	05/13/16 09:08	05/14/16 22:10	1
Selenium	**0.82**	**J**	1.0	0.52	mg/Kg	☼	05/13/16 09:08	05/14/16 22:10	1
Silver	<0.12		0.52	0.12	mg/Kg	☼	05/13/16 09:08	05/14/16 22:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**		0.019	0.010	mg/Kg	☼	05/12/16 14:00	05/16/16 17:14	1

Client Sample ID: TB5

Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-13
Matrix: Solid
Percent Solids: 86.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		66	31	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
1,1,1-Trichloroethane	<25		66	25	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
1,1,2,2-Tetrachloroethane	<26		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
1,1,2-Trichloroethane	<23		66	23	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
1,1-Dichloroethane	<27		66	27	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
1,1-Dichloroethene	<26		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
1,1-Dichloropropene	<20		66	20	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
1,2,3-Trichlorobenzene	<30		66	30	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
1,2,3-Trichloropropane	<27		66	27	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
1,2,4-Trichlorobenzene	<23		66	23	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
1,2,4-Trimethylbenzene	**120**		66	24	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50

Client Sample ID: TB5
Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-13
Matrix: Solid
Percent Solids: 86.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<26		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
1,2-Dichlorobenzene	<22		66	22	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
1,2-Dichloroethane	<26		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
1,2-Dichloropropane	<28		66	28	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
1,3,5-Trimethylbenzene	**200**		66	25	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
1,3-Dichlorobenzene	<26		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
1,3-Dichloropropane	<24		66	24	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
1,4-Dichlorobenzene	<24		66	24	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
2,2-Dichloropropane	<29		66	29	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
2-Chlorotoluene	<21		66	21	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
4-Chlorotoluene	<23		66	23	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Benzene	**920**		17	9.7	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Bromobenzene	<24		66	24	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Bromochloromethane	<28		66	28	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Bromodichloromethane	<25		66	25	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Bromoform	<32		66	32	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Bromomethane	<53		130	53	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Carbon tetrachloride	<25		66	25	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Chlorobenzene	<26		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Chloroethane	<33		66	33	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Chloroform	<24		66	24	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Chloromethane	<21		66	21	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
cis-1,2-Dichloroethene	<27		66	27	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
cis-1,3-Dichloropropene	<28		66	28	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Dibromochloromethane	<32		66	32	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Dibromomethane	<18		66	18	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Dichlorodifluoromethane	<45		130	45	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Ethylbenzene	<12		17	12	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Hexachlorobutadiene	<30		66	30	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Isopropyl ether	<18		66	18	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Isopropylbenzene	**730**		66	25	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Methyl tert-butyl ether	<26		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Methylene Chloride	<110		330	110	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Naphthalene	**81**		66	22	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
n-Butylbenzene	**280**		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
N-Propylbenzene	**1500**		66	27	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
p-Isopropyltoluene	**170**		66	24	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
sec-Butylbenzene	**220**		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Styrene	<26		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
tert-Butylbenzene	<26		66	26	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Tetrachloroethene	<24		66	24	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Toluene	**40**		17	9.7	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
trans-1,2-Dichloroethene	<23		66	23	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
trans-1,3-Dichloropropene	<24		66	24	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Trichloroethene	<11		33	11	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Trichlorofluoromethane	<28		66	28	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Vinyl chloride	<17		33	17	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50
Xylenes, Total	**55**		33	15	ug/Kg	☼	05/06/16 12:00	05/19/16 05:15	50

Client Sample ID: TB5

Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-13
Matrix: Solid
Percent Solids: 86.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*71 - 127*	*05/06/16 12:00*	*05/19/16 05:15*	*50*
4-Bromofluorobenzene (Surr)	*91*		*71 - 120*	*05/06/16 12:00*	*05/19/16 05:15*	*50*
Dibromofluoromethane	*109*		*70 - 120*	*05/06/16 12:00*	*05/19/16 05:15*	*50*
Toluene-d8 (Surr)	*99*		*75 - 120*	*05/06/16 12:00*	*05/19/16 05:15*	*50*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.4**		0.97	0.45	mg/Kg	☼	05/13/16 09:08	05/14/16 22:15	1
Barium	**39**	**B**	0.97	0.18	mg/Kg	☼	05/13/16 09:08	05/14/16 22:15	1
Cadmium	**0.23**		0.19	0.056	mg/Kg	☼	05/13/16 09:08	05/14/16 22:15	1
Chromium	**16**		0.97	0.17	mg/Kg	☼	05/13/16 09:08	05/14/16 22:15	1
Lead	**9.7**		0.49	0.24	mg/Kg	☼	05/13/16 09:08	05/14/16 22:15	1
Selenium	<0.48		0.97	0.48	mg/Kg	☼	05/13/16 09:08	05/14/16 22:15	1
Silver	<0.11		0.49	0.11	mg/Kg	☼	05/13/16 09:08	05/14/16 22:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**		0.017	0.0091	mg/Kg	☼	05/12/16 14:00	05/16/16 17:16	1

Client Sample ID: TB6

Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-14
Matrix: Solid
Percent Solids: 84.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<62		130	62	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
1,1,1-Trichloroethane	<51		130	51	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
1,1,2,2-Tetrachloroethane	<54		130	54	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
1,1,2-Trichloroethane	<47		130	47	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
1,1-Dichloroethane	<55		130	55	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
1,1-Dichloroethene	<52		130	52	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
1,1-Dichloropropene	<40		130	40	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
1,2,3-Trichlorobenzene	<62		130	62	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
1,2,3-Trichloropropane	<56		130	56	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
1,2,4-Trichlorobenzene	<46		130	46	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
1,2,4-Trimethylbenzene	<48		130	48	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
1,2-Dibromo-3-Chloropropane	<270		670	270	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
1,2-Dibromoethane	<52		130	52	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
1,2-Dichlorobenzene	<45		130	45	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
1,2-Dichloroethane	<53		130	53	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
1,2-Dichloropropane	<58		130	58	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
1,3,5-Trimethylbenzene	**110**	**J**	130	51	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
1,3-Dichlorobenzene	<54		130	54	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
1,3-Dichloropropane	<49		130	49	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
1,4-Dichlorobenzene	<49		130	49	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
2,2-Dichloropropane	<60		130	60	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
2-Chlorotoluene	<42		130	42	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
4-Chlorotoluene	<47		130	47	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Benzene	**210**		34	20	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Bromobenzene	<48		130	48	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Bromochloromethane	<58		130	58	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100

Client Sample ID: TB6
Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-14
Matrix: Solid
Percent Solids: 84.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<50		130	50	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Bromoform	<65		130	65	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Bromomethane	<110		270	110	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Carbon tetrachloride	<52		130	52	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Chlorobenzene	<52		130	52	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Chloroethane	<68		130	68	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Chloroform	<50		130	50	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Chloromethane	<43		130	43	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
cis-1,2-Dichloroethene	<55		130	55	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
cis-1,3-Dichloropropene	<56		130	56	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Dibromochloromethane	<66		130	66	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Dibromomethane	<36		130	36	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Dichlorodifluoromethane	<91		270	91	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Ethylbenzene	<25		34	25	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Hexachlorobutadiene	<60		130	60	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Isopropyl ether	<37		130	37	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Isopropylbenzene	**510**		130	52	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Methyl tert-butyl ether	<53		130	53	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Methylene Chloride	<220		670	220	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Naphthalene	<45		130	45	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
n-Butylbenzene	**840**		130	52	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
N-Propylbenzene	**1300**		130	56	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
p-Isopropyltoluene	**190**		130	49	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
sec-Butylbenzene	**420**		130	54	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Styrene	<52		130	52	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
tert-Butylbenzene	<54		130	54	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Tetrachloroethene	<50		130	50	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Toluene	<20		34	20	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
trans-1,2-Dichloroethene	<47		130	47	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
trans-1,3-Dichloropropene	<49		130	49	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Trichloroethene	<22		67	22	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Trichlorofluoromethane	<58		130	58	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Vinyl chloride	<35		67	35	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100
Xylenes, Total	<30		67	30	ug/Kg	☼	05/06/16 12:00	05/19/16 06:35	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*71 - 127*	*05/06/16 12:00*	*05/19/16 06:35*	*100*
4-Bromofluorobenzene (Surr)	*87*		*71 - 120*	*05/06/16 12:00*	*05/19/16 06:35*	*100*
Dibromofluoromethane	*106*		*70 - 120*	*05/06/16 12:00*	*05/19/16 06:35*	*100*
Toluene-d8 (Surr)	*101*		*75 - 120*	*05/06/16 12:00*	*05/19/16 06:35*	*100*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.1**		1.1	0.52	mg/Kg	☼	05/13/16 09:08	05/14/16 22:21	1
Barium	**43**	**B**	1.1	0.21	mg/Kg	☼	05/13/16 09:08	05/14/16 22:21	1
Cadmium	**0.36**		0.22	0.065	mg/Kg	☼	05/13/16 09:08	05/14/16 22:21	1
Chromium	**15**	**V**	1.1	0.19	mg/Kg	☼	05/13/16 09:08	05/14/16 22:21	1
Lead	**23**	**F1**	0.56	0.28	mg/Kg	☼	05/13/16 09:08	05/14/16 22:21	1
Selenium	**0.73**	**J F1**	1.1	0.56	mg/Kg	☼	05/13/16 09:08	05/14/16 22:21	1
Silver	<0.13		0.56	0.13	mg/Kg	☼	05/13/16 09:08	05/14/16 22:21	1

Client: TRC Environmental Corporation.
Project/Site: STH 38 Tank Removal 257062.0000.0000

TestAmerica Job ID: 500-111307-1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.019	0.0097	mg/Kg	☼	05/12/16 14:00	05/16/16 17:19	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
V	Serial Dilution exceeds the control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

GC/MS VOA

Prep Batch: 334474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111307-1	SW1	Total/NA	Solid	5035	
500-111307-2	SW2	Total/NA	Solid	5035	
500-111307-3	SW3	Total/NA	Solid	5035	
500-111307-4	SW4	Total/NA	Solid	5035	
500-111307-5	SW5	Total/NA	Solid	5035	
500-111307-6	SW6	Total/NA	Solid	5035	
500-111307-6 - DL	SW6	Total/NA	Solid	5035	
500-111307-7	SW7	Total/NA	Solid	5035	
500-111307-8	SW8	Total/NA	Solid	5035	
500-111307-9	TB1	Total/NA	Solid	5035	
500-111307-10	TB2	Total/NA	Solid	5035	
500-111307-11	TB3	Total/NA	Solid	5035	
500-111307-12	TB4	Total/NA	Solid	5035	
500-111307-13	TB5	Total/NA	Solid	5035	
500-111307-14	TB6	Total/NA	Solid	5035	

Analysis Batch: 336098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111307-1	SW1	Total/NA	Solid	8260B	334474
500-111307-2	SW2	Total/NA	Solid	8260B	334474
500-111307-3	SW3	Total/NA	Solid	8260B	334474
500-111307-4	SW4	Total/NA	Solid	8260B	334474
500-111307-5	SW5	Total/NA	Solid	8260B	334474
500-111307-6	SW6	Total/NA	Solid	8260B	334474
500-111307-6 - DL	SW6	Total/NA	Solid	8260B	334474
500-111307-7	SW7	Total/NA	Solid	8260B	334474
500-111307-8	SW8	Total/NA	Solid	8260B	334474
500-111307-9	TB1	Total/NA	Solid	8260B	334474
500-111307-10	TB2	Total/NA	Solid	8260B	334474
500-111307-11	TB3	Total/NA	Solid	8260B	334474
500-111307-12	TB4	Total/NA	Solid	8260B	334474
500-111307-13	TB5	Total/NA	Solid	8260B	334474
500-111307-14	TB6	Total/NA	Solid	8260B	334474
LCS 500-336098/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-336098/6	Method Blank	Total/NA	Solid	8260B	

Metals

Prep Batch: 335182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111307-1	SW1	Total/NA	Solid	7471B	
500-111307-1 DU	SW1	Total/NA	Solid	7471B	
500-111307-1 MS	SW1	Total/NA	Solid	7471B	
500-111307-1 MSD	SW1	Total/NA	Solid	7471B	
500-111307-2	SW2	Total/NA	Solid	7471B	
500-111307-3	SW3	Total/NA	Solid	7471B	
500-111307-4	SW4	Total/NA	Solid	7471B	
500-111307-5	SW5	Total/NA	Solid	7471B	
500-111307-6	SW6	Total/NA	Solid	7471B	
500-111307-7	SW7	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 335182 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111307-8	SW8	Total/NA	Solid	7471B	
500-111307-9	TB1	Total/NA	Solid	7471B	
500-111307-10	TB2	Total/NA	Solid	7471B	
500-111307-11	TB3	Total/NA	Solid	7471B	
500-111307-12	TB4	Total/NA	Solid	7471B	
500-111307-13	TB5	Total/NA	Solid	7471B	
500-111307-14	TB6	Total/NA	Solid	7471B	
LCS 500-335182/13-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 500-335182/12-A	Method Blank	Total/NA	Solid	7471B	

Prep Batch: 335321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111307-1	SW1	Total/NA	Solid	3050B	
500-111307-2	SW2	Total/NA	Solid	3050B	
500-111307-3	SW3	Total/NA	Solid	3050B	
500-111307-4	SW4	Total/NA	Solid	3050B	
500-111307-5	SW5	Total/NA	Solid	3050B	
500-111307-6	SW6	Total/NA	Solid	3050B	
500-111307-7	SW7	Total/NA	Solid	3050B	
500-111307-8	SW8	Total/NA	Solid	3050B	
500-111307-9	TB1	Total/NA	Solid	3050B	
500-111307-10	TB2	Total/NA	Solid	3050B	
500-111307-11	TB3	Total/NA	Solid	3050B	
500-111307-12	TB4	Total/NA	Solid	3050B	
500-111307-13	TB5	Total/NA	Solid	3050B	
500-111307-14	TB6	Total/NA	Solid	3050B	
500-111307-14 DU	TB6	Total/NA	Solid	3050B	
500-111307-14 MS	TB6	Total/NA	Solid	3050B	
500-111307-14 MSD	TB6	Total/NA	Solid	3050B	
LCS 500-335321/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-335321/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 335570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111307-1	SW1	Total/NA	Solid	6010B	335321
500-111307-2	SW2	Total/NA	Solid	6010B	335321
500-111307-3	SW3	Total/NA	Solid	6010B	335321
500-111307-4	SW4	Total/NA	Solid	6010B	335321
500-111307-5	SW5	Total/NA	Solid	6010B	335321
500-111307-6	SW6	Total/NA	Solid	6010B	335321
500-111307-7	SW7	Total/NA	Solid	6010B	335321
500-111307-8	SW8	Total/NA	Solid	6010B	335321
500-111307-9	TB1	Total/NA	Solid	6010B	335321
500-111307-10	TB2	Total/NA	Solid	6010B	335321
500-111307-11	TB3	Total/NA	Solid	6010B	335321
500-111307-12	TB4	Total/NA	Solid	6010B	335321
500-111307-13	TB5	Total/NA	Solid	6010B	335321
500-111307-14	TB6	Total/NA	Solid	6010B	335321
500-111307-14 DU	TB6	Total/NA	Solid	6010B	335321
500-111307-14 MS	TB6	Total/NA	Solid	6010B	335321
500-111307-14 MSD	TB6	Total/NA	Solid	6010B	335321

Metals (Continued)

Analysis Batch: 335570 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-335321/2-A	Lab Control Sample	Total/NA	Solid	6010B	335321
MB 500-335321/1-A	Method Blank	Total/NA	Solid	6010B	335321

Analysis Batch: 335762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111307-1	SW1	Total/NA	Solid	7471B	335182
500-111307-1 DU	SW1	Total/NA	Solid	7471B	335182
500-111307-1 MS	SW1	Total/NA	Solid	7471B	335182
500-111307-1 MSD	SW1	Total/NA	Solid	7471B	335182
500-111307-2	SW2	Total/NA	Solid	7471B	335182
500-111307-3	SW3	Total/NA	Solid	7471B	335182
500-111307-4	SW4	Total/NA	Solid	7471B	335182
500-111307-5	SW5	Total/NA	Solid	7471B	335182
500-111307-6	SW6	Total/NA	Solid	7471B	335182
500-111307-7	SW7	Total/NA	Solid	7471B	335182
500-111307-8	SW8	Total/NA	Solid	7471B	335182
500-111307-9	TB1	Total/NA	Solid	7471B	335182
500-111307-10	TB2	Total/NA	Solid	7471B	335182
500-111307-11	TB3	Total/NA	Solid	7471B	335182
500-111307-12	TB4	Total/NA	Solid	7471B	335182
500-111307-13	TB5	Total/NA	Solid	7471B	335182
500-111307-14	TB6	Total/NA	Solid	7471B	335182
LCS 500-335182/13-A	Lab Control Sample	Total/NA	Solid	7471B	335182
MB 500-335182/12-A	Method Blank	Total/NA	Solid	7471B	335182

General Chemistry

Analysis Batch: 334807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111307-1	SW1	Total/NA	Solid	Moisture	
500-111307-1 DU	SW1	Total/NA	Solid	Moisture	
500-111307-2	SW2	Total/NA	Solid	Moisture	
500-111307-3	SW3	Total/NA	Solid	Moisture	
500-111307-4	SW4	Total/NA	Solid	Moisture	
500-111307-5	SW5	Total/NA	Solid	Moisture	
500-111307-6	SW6	Total/NA	Solid	Moisture	
500-111307-7	SW7	Total/NA	Solid	Moisture	
500-111307-8	SW8	Total/NA	Solid	Moisture	
500-111307-9	TB1	Total/NA	Solid	Moisture	
500-111307-10	TB2	Total/NA	Solid	Moisture	
500-111307-11	TB3	Total/NA	Solid	Moisture	
500-111307-12	TB4	Total/NA	Solid	Moisture	
500-111307-13	TB5	Total/NA	Solid	Moisture	
500-111307-14	TB6	Total/NA	Solid	Moisture	

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: STH 38 Tank Removal 257062.0000.0000

TestAmerica Job ID: 500-111307-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(71-127)	(71-120)	(70-120)	(75-120)
500-111307-1	SW1	105	85	107	97
500-111307-2	SW2	107	87	107	98
500-111307-3	SW3	104	85	104	104
500-111307-4	SW4	105	88	108	103
500-111307-5	SW5	106	86	107	98
500-111307-6	SW6	107	87	110	101
500-111307-6 - DL	SW6	105	86	109	100
500-111307-7	SW7	111	85	111	103
500-111307-8	SW8	107	84	108	99
500-111307-9	TB1	107	87	108	101
500-111307-10	TB2	107	87	109	97
500-111307-11	TB3	107	87	106	98
500-111307-12	TB4	108	87	107	98
500-111307-13	TB5	106	91	109	99
500-111307-14	TB6	107	87	106	101
LCS 500-336098/4	Lab Control Sample	100	87	106	98
MB 500-336098/6	Method Blank	103	87	106	98

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-336098/6
Matrix: Solid
Analysis Batch: 336098

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			05/19/16 00:48	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			05/19/16 00:48	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			05/19/16 00:48	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			05/19/16 00:48	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			05/19/16 00:48	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			05/19/16 00:48	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			05/19/16 00:48	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			05/19/16 00:48	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/Kg			05/19/16 00:48	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			05/19/16 00:48	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			05/19/16 00:48	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			05/19/16 00:48	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			05/19/16 00:48	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			05/19/16 00:48	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			05/19/16 00:48	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			05/19/16 00:48	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			05/19/16 00:48	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			05/19/16 00:48	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			05/19/16 00:48	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			05/19/16 00:48	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			05/19/16 00:48	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			05/19/16 00:48	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			05/19/16 00:48	1
Benzene	<0.15		0.25	0.15	ug/Kg			05/19/16 00:48	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			05/19/16 00:48	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			05/19/16 00:48	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			05/19/16 00:48	1
Bromoform	<0.48		1.0	0.48	ug/Kg			05/19/16 00:48	1
Bromomethane	<0.80		2.0	0.80	ug/Kg			05/19/16 00:48	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			05/19/16 00:48	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			05/19/16 00:48	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			05/19/16 00:48	1
Chloroform	<0.37		1.0	0.37	ug/Kg			05/19/16 00:48	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			05/19/16 00:48	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			05/19/16 00:48	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			05/19/16 00:48	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			05/19/16 00:48	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			05/19/16 00:48	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/Kg			05/19/16 00:48	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			05/19/16 00:48	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			05/19/16 00:48	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			05/19/16 00:48	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			05/19/16 00:48	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			05/19/16 00:48	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			05/19/16 00:48	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			05/19/16 00:48	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			05/19/16 00:48	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			05/19/16 00:48	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-336098/6
Matrix: Solid
Analysis Batch: 336098

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			05/19/16 00:48	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			05/19/16 00:48	1
Styrene	<0.39		1.0	0.39	ug/Kg			05/19/16 00:48	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			05/19/16 00:48	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			05/19/16 00:48	1
Toluene	<0.15		0.25	0.15	ug/Kg			05/19/16 00:48	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			05/19/16 00:48	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			05/19/16 00:48	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			05/19/16 00:48	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			05/19/16 00:48	1
Vinyl chloride	<0.26		0.50	0.26	ug/Kg			05/19/16 00:48	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			05/19/16 00:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*71 - 127*		*05/19/16 00:48*	*1*
4-Bromofluorobenzene (Surr)	*87*		*71 - 120*		*05/19/16 00:48*	*1*
Dibromofluoromethane	*106*		*70 - 120*		*05/19/16 00:48*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*05/19/16 00:48*	*1*

Lab Sample ID: LCS 500-336098/4
Matrix: Solid
Analysis Batch: 336098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	51.8		ug/Kg		104	68 - 125
1,1,1-Trichloroethane	50.0	48.8		ug/Kg		98	70 - 125
1,1,2,2-Tetrachloroethane	50.0	45.2		ug/Kg		90	68 - 125
1,1,2-Trichloroethane	50.0	49.3		ug/Kg		99	70 - 125
1,1-Dichloroethane	50.0	48.1		ug/Kg		96	70 - 125
1,1-Dichloroethene	50.0	52.9		ug/Kg		106	70 - 125
1,1-Dichloropropene	50.0	48.8		ug/Kg		98	70 - 125
1,2,3-Trichlorobenzene	50.0	49.6		ug/Kg		99	58 - 135
1,2,3-Trichloropropane	50.0	44.4		ug/Kg		89	63 - 125
1,2,4-Trichlorobenzene	50.0	46.2		ug/Kg		92	64 - 126
1,2,4-Trimethylbenzene	50.0	45.8		ug/Kg		92	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	44.7		ug/Kg		89	51 - 125
1,2-Dibromoethane	50.0	49.6		ug/Kg		99	70 - 125
1,2-Dichlorobenzene	50.0	48.3		ug/Kg		97	70 - 125
1,2-Dichloroethane	50.0	47.4		ug/Kg		95	70 - 125
1,2-Dichloropropane	50.0	47.1		ug/Kg		94	70 - 125
1,3,5-Trimethylbenzene	50.0	46.3		ug/Kg		93	70 - 125
1,3-Dichlorobenzene	50.0	46.5		ug/Kg		93	70 - 125
1,3-Dichloropropane	50.0	47.6		ug/Kg		95	70 - 125
1,4-Dichlorobenzene	50.0	46.4		ug/Kg		93	70 - 125
2,2-Dichloropropane	50.0	37.1		ug/Kg		74	62 - 125
2-Chlorotoluene	50.0	43.0		ug/Kg		86	69 - 125
4-Chlorotoluene	50.0	44.2		ug/Kg		88	70 - 125
Benzene	50.0	46.9		ug/Kg		94	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-336098/4
Matrix: Solid
Analysis Batch: 336098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	48.8		ug/Kg		98	70 - 125
Bromochloromethane	50.0	53.0		ug/Kg		106	70 - 125
Bromodichloromethane	50.0	47.8		ug/Kg		96	70 - 125
Bromoform	50.0	51.7		ug/Kg		103	54 - 128
Bromomethane	50.0	54.5		ug/Kg		109	40 - 150
Carbon tetrachloride	50.0	55.7		ug/Kg		111	70 - 125
Chlorobenzene	50.0	49.0		ug/Kg		98	70 - 125
Chloroethane	50.0	45.0		ug/Kg		90	60 - 139
Chloroform	50.0	48.9		ug/Kg		98	70 - 125
Chloromethane	50.0	42.8		ug/Kg		86	60 - 140
cis-1,2-Dichloroethene	50.0	49.3		ug/Kg		99	70 - 125
cis-1,3-Dichloropropene	50.0	46.8		ug/Kg		94	70 - 125
Dibromochloromethane	50.0	50.2		ug/Kg		100	66 - 125
Dibromomethane	50.0	51.4		ug/Kg		103	70 - 125
Dichlorodifluoromethane	50.0	54.6		ug/Kg		109	51 - 140
Ethylbenzene	50.0	46.8		ug/Kg		94	70 - 125
Hexachlorobutadiene	50.0	52.9		ug/Kg		106	57 - 140
Isopropylbenzene	50.0	46.6		ug/Kg		93	70 - 125
Methyl tert-butyl ether	50.0	51.0		ug/Kg		102	67 - 125
Methylene Chloride	50.0	48.3		ug/Kg		97	68 - 125
Naphthalene	50.0	46.5		ug/Kg		93	50 - 136
n-Butylbenzene	50.0	44.1		ug/Kg		88	70 - 125
N-Propylbenzene	50.0	44.4		ug/Kg		89	70 - 125
p-Isopropyltoluene	50.0	46.7		ug/Kg		93	70 - 125
sec-Butylbenzene	50.0	46.2		ug/Kg		92	70 - 125
Styrene	50.0	47.7		ug/Kg		95	70 - 125
tert-Butylbenzene	50.0	46.6		ug/Kg		93	70 - 125
Tetrachloroethene	50.0	49.7		ug/Kg		99	70 - 125
Toluene	50.0	46.5		ug/Kg		93	70 - 125
trans-1,2-Dichloroethene	50.0	48.4		ug/Kg		97	70 - 125
trans-1,3-Dichloropropene	50.0	48.9		ug/Kg		98	70 - 125
Trichloroethene	50.0	49.8		ug/Kg		100	70 - 125
Trichlorofluoromethane	50.0	58.5		ug/Kg		117	60 - 126
Vinyl chloride	50.0	51.4		ug/Kg		103	70 - 126
Xylenes, Total	100	93.5		ug/Kg		94	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*71 - 127*
4-Bromofluorobenzene (Surr)	*87*		*71 - 120*
Dibromofluoromethane	*106*		*70 - 120*
Toluene-d8 (Surr)	*98*		*75 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-335321/1-A
Matrix: Solid
Analysis Batch: 335570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335321

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.46		1.0	0.46	mg/Kg		05/13/16 09:08	05/14/16 20:19	1
Barium	0.197	J	1.0	0.18	mg/Kg		05/13/16 09:08	05/14/16 20:19	1
Cadmium	<0.058		0.20	0.058	mg/Kg		05/13/16 09:08	05/14/16 20:19	1
Chromium	<0.17		1.0	0.17	mg/Kg		05/13/16 09:08	05/14/16 20:19	1
Lead	<0.25		0.50	0.25	mg/Kg		05/13/16 09:08	05/14/16 20:19	1
Selenium	<0.50		1.0	0.50	mg/Kg		05/13/16 09:08	05/14/16 20:19	1
Silver	<0.12		0.50	0.12	mg/Kg		05/13/16 09:08	05/14/16 20:19	1

Lab Sample ID: LCS 500-335321/2-A
Matrix: Solid
Analysis Batch: 335570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335321

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.06		mg/Kg		91	80 - 120
Barium	200	192		mg/Kg		96	80 - 120
Cadmium	5.00	4.61		mg/Kg		92	80 - 120
Chromium	20.0	19.1		mg/Kg		95	80 - 120
Lead	10.0	9.09		mg/Kg		91	80 - 120
Selenium	10.0	8.22		mg/Kg		82	80 - 120
Silver	5.00	4.52		mg/Kg		90	80 - 120

Lab Sample ID: 500-111307-14 MS
Matrix: Solid
Analysis Batch: 335570

Client Sample ID: TB6
Prep Type: Total/NA
Prep Batch: 335321

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	5.1		10.7	15.0		mg/Kg	☼	92	75 - 125
Barium	43	B	214	223		mg/Kg	☼	84	75 - 125
Cadmium	0.36		5.36	4.83		mg/Kg	☼	83	75 - 125
Chromium	15	V	21.4	33.2		mg/Kg	☼	86	75 - 125
Lead	23	F1	10.7	29.3	F1	mg/Kg	☼	56	75 - 125
Selenium	0.73	J F1	10.7	8.34	F1	mg/Kg	☼	71	75 - 125
Silver	<0.13		5.36	4.53		mg/Kg	☼	84	75 - 125

Lab Sample ID: 500-111307-14 MSD
Matrix: Solid
Analysis Batch: 335570

Client Sample ID: TB6
Prep Type: Total/NA
Prep Batch: 335321

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	5.1		11.1	15.0		mg/Kg	☼	89	75 - 125	1	20
Barium	43	B	222	244		mg/Kg	☼	91	75 - 125	9	20
Cadmium	0.36		5.56	5.27		mg/Kg	☼	88	75 - 125	9	20
Chromium	15	V	22.2	37.5		mg/Kg	☼	102	75 - 125	12	20
Lead	23	F1	11.1	31.6		mg/Kg	☼	75	75 - 125	8	20
Selenium	0.73	J F1	11.1	9.13		mg/Kg	☼	76	75 - 125	9	20
Silver	<0.13		5.56	4.75		mg/Kg	☼	85	75 - 125	5	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-111307-14 DU
Matrix: Solid
Analysis Batch: 335570

Client Sample ID: TB6
Prep Type: Total/NA
Prep Batch: 335321

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Arsenic	5.1			5.03		mg/Kg	☼			1	20
Barium	43	B		41.0		mg/Kg	☼			4	20
Cadmium	0.36			0.634	F3	mg/Kg	☼			54	20
Chromium	15	V		14.3		mg/Kg	☼			4	20
Lead	23	F1		42.1	F3	mg/Kg	☼			57	20
Selenium	0.73	J F1		0.788	J	mg/Kg	☼			8	20
Silver	<0.13			<0.12		mg/Kg	☼			NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-335182/12-A
Matrix: Solid
Analysis Batch: 335762

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335182

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0088		0.017	0.0088	mg/Kg		05/12/16 14:00	05/16/16 15:57	1

Lab Sample ID: LCS 500-335182/13-A
Matrix: Solid
Analysis Batch: 335762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335182

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.167	0.163		mg/Kg		97	80 - 120		

Lab Sample ID: 500-111307-1 MS
Matrix: Solid
Analysis Batch: 335762

Client Sample ID: SW1
Prep Type: Total/NA
Prep Batch: 335182

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	<0.0084		0.0763	0.0839		mg/Kg	☼	110	75 - 125		

Lab Sample ID: 500-111307-1 MSD
Matrix: Solid
Analysis Batch: 335762

Client Sample ID: SW1
Prep Type: Total/NA
Prep Batch: 335182

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.0084		0.0870	0.0958		mg/Kg	☼	110	75 - 125	13	20

Lab Sample ID: 500-111307-1 DU
Matrix: Solid
Analysis Batch: 335762

Client Sample ID: SW1
Prep Type: Total/NA
Prep Batch: 335182

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	<0.0084			0.00839	J	mg/Kg	☼			NC	20

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 38 Tank Removal 257062.0000.0000

TestAmerica Job ID: 500-111307-1

Client Sample ID: SW1
Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334807	05/10/16 14:56	LWN	TAL CHI

Client Sample ID: SW1
Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-1
Matrix: Solid
Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			334474	05/06/16 12:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	336098	05/19/16 01:15	DJD	TAL CHI
Total/NA	Prep	3050B			335321	05/13/16 09:08	JEF	TAL CHI
Total/NA	Analysis	6010B		1	335570	05/14/16 21:06	PJ1	TAL CHI
Total/NA	Prep	7471B			335182	05/12/16 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	335762	05/16/16 17:54	MJD	TAL CHI

Client Sample ID: SW2
Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334807	05/10/16 14:56	LWN	TAL CHI

Client Sample ID: SW2
Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-2
Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			334474	05/06/16 12:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	336098	05/19/16 01:42	DJD	TAL CHI
Total/NA	Prep	3050B			335321	05/13/16 09:08	JEF	TAL CHI
Total/NA	Analysis	6010B		1	335570	05/14/16 21:11	PJ1	TAL CHI
Total/NA	Prep	7471B			335182	05/12/16 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	335762	05/16/16 18:06	MJD	TAL CHI

Client Sample ID: SW3
Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334807	05/10/16 14:56	LWN	TAL CHI

Client Sample ID: SW3

Lab Sample ID: 500-111307-3
Date Collected: 05/06/16 12:00
Matrix: Solid
Date Received: 05/07/16 11:00
Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			334474	05/06/16 12:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	336098	05/19/16 02:08	DJD	TAL CHI
Total/NA	Prep	3050B			335321	05/13/16 09:08	JEF	TAL CHI
Total/NA	Analysis	6010B		1	335570	05/14/16 21:16	PJ1	TAL CHI
Total/NA	Prep	7471B			335182	05/12/16 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	335762	05/16/16 16:32	MJD	TAL CHI

Client Sample ID: SW4

Lab Sample ID: 500-111307-4
Date Collected: 05/06/16 12:00
Matrix: Solid
Date Received: 05/07/16 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334807	05/10/16 14:56	LWN	TAL CHI

Client Sample ID: SW4

Lab Sample ID: 500-111307-4
Date Collected: 05/06/16 12:00
Matrix: Solid
Date Received: 05/07/16 11:00
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			334474	05/06/16 12:00	WRE	TAL CHI
Total/NA	Analysis	8260B		100	336098	05/19/16 05:42	DJD	TAL CHI
Total/NA	Prep	3050B			335321	05/13/16 09:08	JEF	TAL CHI
Total/NA	Analysis	6010B		1	335570	05/14/16 21:21	PJ1	TAL CHI
Total/NA	Prep	7471B			335182	05/12/16 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	335762	05/16/16 16:34	MJD	TAL CHI

Client Sample ID: SW5

Lab Sample ID: 500-111307-5
Date Collected: 05/06/16 12:00
Matrix: Solid
Date Received: 05/07/16 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334807	05/10/16 14:56	LWN	TAL CHI

Client Sample ID: SW5

Lab Sample ID: 500-111307-5
Date Collected: 05/06/16 12:00
Matrix: Solid
Date Received: 05/07/16 11:00
Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			334474	05/06/16 12:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	336098	05/19/16 02:35	DJD	TAL CHI
Total/NA	Prep	3050B			335321	05/13/16 09:08	JEF	TAL CHI
Total/NA	Analysis	6010B		1	335570	05/14/16 21:27	PJ1	TAL CHI
Total/NA	Prep	7471B			335182	05/12/16 14:00	MJD	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 38 Tank Removal 257062.0000.0000

TestAmerica Job ID: 500-111307-1

Client Sample ID: SW5

Lab Sample ID: 500-111307-5
Date Collected: 05/06/16 12:00
Matrix: Solid
Date Received: 05/07/16 11:00
Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1	335762	05/16/16 16:36	MJD	TAL CHI

Client Sample ID: SW6

Lab Sample ID: 500-111307-6
Date Collected: 05/06/16 12:00
Matrix: Solid
Date Received: 05/07/16 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334807	05/10/16 14:56	LWN	TAL CHI

Client Sample ID: SW6

Lab Sample ID: 500-111307-6
Date Collected: 05/06/16 12:00
Matrix: Solid
Date Received: 05/07/16 11:00
Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			334474	05/06/16 12:00	WRE	TAL CHI
Total/NA	Analysis	8260B		100	336098	05/19/16 07:02	DJD	TAL CHI
Total/NA	Prep	5035	DL		334474	05/06/16 12:00	WRE	TAL CHI
Total/NA	Analysis	8260B	DL	1000	336098	05/19/16 07:29	DJD	TAL CHI
Total/NA	Prep	3050B			335321	05/13/16 09:08	JEF	TAL CHI
Total/NA	Analysis	6010B		1	335570	05/14/16 21:32	PJ1	TAL CHI
Total/NA	Prep	7471B			335182	05/12/16 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	335762	05/16/16 16:57	MJD	TAL CHI

Client Sample ID: SW7

Lab Sample ID: 500-111307-7
Date Collected: 05/06/16 12:00
Matrix: Solid
Date Received: 05/07/16 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334807	05/10/16 14:56	LWN	TAL CHI

Client Sample ID: SW7

Lab Sample ID: 500-111307-7
Date Collected: 05/06/16 12:00
Matrix: Solid
Date Received: 05/07/16 11:00
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			334474	05/06/16 12:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	336098	05/19/16 03:02	DJD	TAL CHI
Total/NA	Prep	3050B			335321	05/13/16 09:08	JEF	TAL CHI
Total/NA	Analysis	6010B		1	335570	05/14/16 21:37	PJ1	TAL CHI
Total/NA	Prep	7471B			335182	05/12/16 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	335762	05/16/16 16:59	MJD	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 38 Tank Removal 257062.0000.0000

TestAmerica Job ID: 500-111307-1

Client Sample ID: SW8
Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334807	05/10/16 14:56	LWN	TAL CHI

Client Sample ID: SW8
Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-8
Matrix: Solid
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			334474	05/06/16 12:00	WRE	TAL CHI
Total/NA	Analysis	8260B		100	336098	05/19/16 06:09	DJD	TAL CHI
Total/NA	Prep	3050B			335321	05/13/16 09:08	JEF	TAL CHI
Total/NA	Analysis	6010B		1	335570	05/14/16 21:42	PJ1	TAL CHI
Total/NA	Prep	7471B			335182	05/12/16 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	335762	05/16/16 17:03	MJD	TAL CHI

Client Sample ID: TB1
Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334807	05/10/16 14:56	LWN	TAL CHI

Client Sample ID: TB1
Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-9
Matrix: Solid
Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			334474	05/06/16 12:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	336098	05/19/16 03:28	DJD	TAL CHI
Total/NA	Prep	3050B			335321	05/13/16 09:08	JEF	TAL CHI
Total/NA	Analysis	6010B		1	335570	05/14/16 21:47	PJ1	TAL CHI
Total/NA	Prep	7471B			335182	05/12/16 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	335762	05/16/16 17:05	MJD	TAL CHI

Client Sample ID: TB2
Date Collected: 05/06/16 12:00
Date Received: 05/07/16 11:00

Lab Sample ID: 500-111307-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334807	05/10/16 14:56	LWN	TAL CHI

Client Sample ID: TB2

Lab Sample ID: 500-111307-10
Date Collected: 05/06/16 12:00
Matrix: Solid
Date Received: 05/07/16 11:00
Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			334474	05/06/16 12:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	336098	05/19/16 03:55	DJD	TAL CHI
Total/NA	Prep	3050B			335321	05/13/16 09:08	JEF	TAL CHI
Total/NA	Analysis	6010B		1	335570	05/14/16 22:00	PJ1	TAL CHI
Total/NA	Prep	7471B			335182	05/12/16 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	335762	05/16/16 17:08	MJD	TAL CHI

Client Sample ID: TB3

Lab Sample ID: 500-111307-11
Date Collected: 05/06/16 12:00
Matrix: Solid
Date Received: 05/07/16 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334807	05/10/16 14:56	LWN	TAL CHI

Client Sample ID: TB3

Lab Sample ID: 500-111307-11
Date Collected: 05/06/16 12:00
Matrix: Solid
Date Received: 05/07/16 11:00
Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			334474	05/06/16 12:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	336098	05/19/16 04:22	DJD	TAL CHI
Total/NA	Prep	3050B			335321	05/13/16 09:08	JEF	TAL CHI
Total/NA	Analysis	6010B		1	335570	05/14/16 22:05	PJ1	TAL CHI
Total/NA	Prep	7471B			335182	05/12/16 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	335762	05/16/16 17:11	MJD	TAL CHI

Client Sample ID: TB4

Lab Sample ID: 500-111307-12
Date Collected: 05/06/16 12:00
Matrix: Solid
Date Received: 05/07/16 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334807	05/10/16 14:56	LWN	TAL CHI

Client Sample ID: TB4

Lab Sample ID: 500-111307-12
Date Collected: 05/06/16 12:00
Matrix: Solid
Date Received: 05/07/16 11:00
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			334474	05/06/16 12:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	336098	05/19/16 04:49	DJD	TAL CHI
Total/NA	Prep	3050B			335321	05/13/16 09:08	JEF	TAL CHI
Total/NA	Analysis	6010B		1	335570	05/14/16 22:10	PJ1	TAL CHI
Total/NA	Prep	7471B			335182	05/12/16 14:00	MJD	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 38 Tank Removal 257062.0000.0000

TestAmerica Job ID: 500-111307-1

Client Sample ID: TB4

Lab Sample ID: 500-111307-12
Date Collected: 05/06/16 12:00
Matrix: Solid
Date Received: 05/07/16 11:00
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1	335762	05/16/16 17:14	MJD	TAL CHI

Client Sample ID: TB5

Lab Sample ID: 500-111307-13
Date Collected: 05/06/16 12:00
Matrix: Solid
Date Received: 05/07/16 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334807	05/10/16 14:56	LWN	TAL CHI

Client Sample ID: TB5

Lab Sample ID: 500-111307-13
Date Collected: 05/06/16 12:00
Matrix: Solid
Date Received: 05/07/16 11:00
Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			334474	05/06/16 12:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	336098	05/19/16 05:15	DJD	TAL CHI
Total/NA	Prep	3050B			335321	05/13/16 09:08	JEF	TAL CHI
Total/NA	Analysis	6010B		1	335570	05/14/16 22:15	PJ1	TAL CHI
Total/NA	Prep	7471B			335182	05/12/16 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	335762	05/16/16 17:16	MJD	TAL CHI

Client Sample ID: TB6

Lab Sample ID: 500-111307-14
Date Collected: 05/06/16 12:00
Matrix: Solid
Date Received: 05/07/16 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334807	05/10/16 14:56	LWN	TAL CHI

Client Sample ID: TB6

Lab Sample ID: 500-111307-14
Date Collected: 05/06/16 12:00
Matrix: Solid
Date Received: 05/07/16 11:00
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			334474	05/06/16 12:00	WRE	TAL CHI
Total/NA	Analysis	8260B		100	336098	05/19/16 06:35	DJD	TAL CHI
Total/NA	Prep	3050B			335321	05/13/16 09:08	JEF	TAL CHI
Total/NA	Analysis	6010B		1	335570	05/14/16 22:21	PJ1	TAL CHI
Total/NA	Prep	7471B			335182	05/12/16 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	335762	05/16/16 17:19	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: TRC Environmental Corporation.
Project/Site: STH 38 Tank Removal 257062.0000.0000

TestAmerica Job ID: 500-111307-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-16

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact: W. STAPEL
Company:
Address:
Address:
Phone:
Fax:
E-Mail: WStapel@trcsolutions.com

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-111307
Chain of Custody Number:
Page 1 of 2
Temperature °C of Cooler: 2.9

Client: TRC
Client Project #:
Project Name: STH 38 TANK REMOVAL
Project Location/State: WISCONSIN
Lab Project #:
Sampler: W. STAPEL
Lab PM: S. FREDRICK

Preservative
Parameter

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	RCRA METALS TOTALS	VOCs
1		SW1	5/6	12 PM	2	S	X	X
2		SW2					X	X
3		SW3					X	X
4		SW 4					X	X
5		SW 5					X	X
6		SW 6					X	X
7		SW 7					X	X
8		SW 8					X	X
9		TB 1					X	X
10		TB 2					X	X

500-111307 COC

9. Other

Comments

'e Key
4°
to 4°
4°
4°
to 4°

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days X 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
				[signature]	TACHI	05/07/16	1:00

Lab Courier
Shipped EX SATURDAY
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-111307

Chain of Custody Number:

Page 2 of 2

Temperature °C of Cooler:

(optional) Report To	(optional) Bill To
Contact: W. STAPEL	Contact:
Company:	Company:
Address:	Address:
Address:	Address:
Phone:	Phone:
Fax:	Fax:
E-Mail: wstapel@trcsolutions.com	PO#/Reference#

Client	Client Project #
TRC	
Project Name: STH 38 TANK REMOVAL	
Project Location/State: WISCONSIN	Lab Project #
Sampler: W. STAPEL	Lab PM: S. FREDRICK

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: RCRA Metals Totals	Parameter: VOCs								Comments
11		TB 3	5/6	12PM	2	S		X	X								
12		TB 4	↓	↓	↓	↓		X	X								
13		TB 5						X	X								
14		TB 6						X	X								

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days X 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
				[signature]	TA-CHI	05/07/16	11:00

Lab Courier
Shipped FX SATURDAY
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

ORIGIN ID:RRLA (262) 825-2045
TYLER STAPEL
TRC ENVIRONMENTAL
150 N PATRICK BLVD, SUITE 180

BROOKFIELD, WI 53045
UNITED STATES US

SHIP DATE: 06MAY16
ACTWGT: 20.00 LB
CAD: 1698635/INET373[illegible]

BILL RECIPIENT

TO ATTN: SAMPLE RECEIVING
TEST AMERICA - CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484
(708) 534-5200 REF:
INV:
PO: DEPT:

0450
05.07

63231/2.

RT 0
FZ 0

500-111307 Waybill

Express

MON - 09 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7762 8591 0450

79 JOTA

60484
IL-US ORD

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-111307-1

Login Number: 111307
List Number: 1
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix H
Cumulative Hazard Index and Cancer Risk Calculations

Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
SW 1

# of Soil-Concentration Entries: 6

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0032	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 5/31/2016.
Date of Worksheet Used: 12/11/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	1.5			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	11.			
Chromium, Total	7440-47-3	-	-			44.	3.6			
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	6.1			
Selenium	7782-49-2	391.	-	391.	nc		1.1		0.0028	
Silver	7440-22-4	391.	-	391.	nc		0.15		0.0004	

Created By: M. Kahrilas 5/31/2016
Checked By: L. Auner 6/01/2016

Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
SW 2

# of Soil-Concentration Entries: 6

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0019	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 5/31/2016.
Date of Worksheet Used: 12/11/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	2.4			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	15.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.18			
Chromium, Total	7440-47-3	-	-			44.	4.5			
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	5.2			
Selenium	7782-49-2	391.	-	391.	nc		0.74		0.0019	

Created By: M. Kahrilas 5/31/2016
Checked By: L. Auner 6/01/2016

Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
SW 3

# of Soil-Concentration Entries: 15

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.008	9.3E-08

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 5/31/2016.
Date of Worksheet Used: 12/11/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.12		0.0011	8.1E-08
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc		0.072		0.0008	
Trimethylbenzene, 1,3,5-	108-67-8	782.	-	182.	Csat		0.069		0.0001	
Naphthalene	91-20-3	188.	5.15	5.15	ca		0.062		0.0003	1.2E-08
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	4.4			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	34.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.23			
Chromium, Total	7440-47-3	-	-			44.	13.			
Mercury (elemental)	7439-97-6	16.9	-	3.13	Csat		0.079		0.0047	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	9.3			
Butylbenzene, n-	104-51-8	3,910.	-	108.	Csat		0.69		0.0002	
Butylbenzene, sec-	135-98-8	7,820.	-	145.	Csat		0.48		0.0001	
Cumene	98-82-8	2,660.	-	268.	Csat		0.89		0.0003	
Isopropyltoluene, p-	99-87-6	-	-	162.	Csat		0.31			
Propyl benzene	103-65-1	4,630.	-	264.	Csat		1.9		0.0004	

Created By: M. Kahrilas 5/31/2016
Checked By: L. Auner 6/01/2016

Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
SW 4

# of Soil-Concentration Entries: 12

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.008	7.4E-08

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 5/31/2016.
Date of Worksheet Used: 12/11/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.11		0.001	7.4E-08
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	5.6			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	33.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.22			
Chromium, Total	7440-47-3	-	-			44.	14.			
Mercury (elemental)	7439-97-6	16.9	-	3.13	Csat		0.078		0.0046	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	9.7			
Selenium	7782-49-2	391.	-	391.	nc		0.53		0.0014	
Butylbenzene, sec-	135-98-8	7,820.	-	145.	Csat		0.74		0.0001	
Cumene	98-82-8	2,660.	-	268.	Csat		1.3		0.0005	
Isopropyltoluene, p-	99-87-6	-	-	162.	Csat		0.32			
Propyl benzene	103-65-1	4,630.	-	264.	Csat		2.		0.0004	

Created By: M. Kahrilas 5/31/2016
Checked By: L. Auner 6/01/2016

Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
SW 5

# of Soil-Concentration Entries: 8

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0086	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 5/31/2016.
Date of Worksheet Used: 12/11/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc		0.052		0.0006	
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	7.2			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	78.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.24			
Chromium, Total	7440-47-3	-	-			44.	27.			
Mercury (elemental)	7439-97-6	16.9	-	3.13	Csat		0.11		0.0065	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	20.			
Selenium	7782-49-2	391.	-	391.	nc		0.59		0.0015	

Created By: M. Kahrilas 5/31/2016
Checked By: L. Auner 6/01/2016

Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
SW 6

# of Soil-Concentration Entries: 17

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
1	0.5887	1.9E-06

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 5/31/2016.
Date of Worksheet Used: 12/11/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.31		0.0028	2.1E-07
Toluene	108-88-3	5,300.	-	818.	Csat		0.089		0.	
Xylenes	1330-20-7	878.	-	260.	Csat		0.36		0.0004	
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc		46.		0.5122	
Trimethylbenzene, 1,3,5-	108-67-8	782.	-	182.	Csat		16.		0.0205	
Naphthalene	91-20-3	188.	5.15	5.15	ca		8.8	E	0.0468	1.7E-06
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	5.4			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	42.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.31			
Chromium, Total	7440-47-3	-	-			44.	16.			
Mercury (elemental)	7439-97-6	16.9	-	3.13	Csat		0.023		0.0014	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	12.			
Butylbenzene, n-	104-51-8	3,910.	-	108.	Csat		4.8		0.0012	
Butylbenzene, sec-	135-98-8	7,820.	-	145.	Csat		1.2		0.0002	
Cumene	98-82-8	2,660.	-	268.	Csat		3.		0.0011	
Isopropyltoluene, p-	99-87-6	-	-	162.	Csat		0.88			
Propyl benzene	103-65-1	4,630.	-	264.	Csat		9.6		0.0021	

Created By: M. Kahrilas 5/31/2016
Checked By: L. Auner 6/01/2016

Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
SW 7

# of Soil-Concentration Entries: 14

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0126	9.8E-08

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 5/31/2016.
Date of Worksheet Used: 12/11/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.036		0.0003	2.4E-08
Naphthalene	91-20-3	188.	5.15	5.15	ca		0.38		0.002	7.4E-08
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	4.6			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	35.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.27			
Chromium, Total	7440-47-3	-	-			44.	13.			
Mercury (elemental)	7439-97-6	16.9	-	3.13	Csat		0.12		0.0071	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	20.			
Selenium	7782-49-2	391.	-	391.	nc		0.59		0.0015	
Butylbenzene, n-	104-51-8	3,910.	-	108.	Csat		1.5		0.0004	
Butylbenzene, sec-	135-98-8	7,820.	-	145.	Csat		0.73		0.0001	
Cumene	98-82-8	2,660.	-	268.	Csat		1.2		0.0005	
Isopropyltoluene, p-	99-87-6	-	-	162.	Csat		0.32			
Propyl benzene	103-65-1	4,630.	-	264.	Csat		3.4		0.0007	

Created By: M. Kahrilas 5/31/2016
Checked By: L. Auner 6/01/2016

Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
SW 8

# of Soil-Concentration Entries: 9

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0327	5.7E-10

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 5/31/2016.
Date of Worksheet Used: 12/11/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	4.5			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	55.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	1.2		0.0171	5.7E-10
Chromium, Total	7440-47-3	-	-			44.	14.			
Mercury (elemental)	7439-97-6	16.9	-	3.13	Csat		0.23		0.0136	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	98.			
Selenium	7782-49-2	391.	-	391.	nc		0.74		0.0019	
Cumene	98-82-8	2,660.	-	268.	Csat		0.089		0.	
Propyl benzene	103-65-1	4,630.	-	264.	Csat		0.24		0.0001	

Created By: M. Kahrilas 5/31/2016
Checked By: L. Auner 6/01/2016

Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
TB 1

# of Soil-Concentration Entries: 13

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0078	3.0E-07

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 6/1/2016.
Date of Worksheet Used: 12/11/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.44		0.004	3.0E-07
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	4.2			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	39.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.26			
Chromium, Total	7440-47-3	-	-			44.	15.			
Mercury (elemental)	7439-97-6	16.9	-	3.13	Csat		0.027		0.0016	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	9.5			
Selenium	7782-49-2	391.	-	391.	nc		0.65		0.0017	
Butylbenzene, n-	104-51-8	3,910.	-	108.	Csat		0.3		0.0001	
Butylbenzene, sec-	135-98-8	7,820.	-	145.	Csat		0.28		0.	
Cumene	98-82-8	2,660.	-	268.	Csat		0.65		0.0002	
Isopropyltoluene, p-	99-87-6	-	-	162.	Csat		0.13			
Propyl benzene	103-65-1	4,630.	-	264.	Csat		1.		0.0002	

Created By: M. Kahrilas 5/31/2016
Checked By: L. Auner 6/01/2016

Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
TB 2

# of Soil-Concentration Entries: 14

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0077	2.3E-07

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 6/1/2016.
Date of Worksheet Used: 12/11/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.25		0.0023	1.7E-07
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc		0.064		0.0007	
Trimethylbenzene, 1,3,5-	108-67-8	782.	-	182.	Csat		0.083		0.0001	
Naphthalene	91-20-3	188.	5.15	5.15	ca		0.33		0.0018	6.4E-08
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	4.6			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	33.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.25			
Chromium, Total	7440-47-3	-	-			44.	12.			
Mercury (elemental)	7439-97-6	16.9	-	3.13	Csat		0.038		0.0022	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	10.			
Butylbenzene, sec-	135-98-8	7,820.	-	145.	Csat		0.27		0.	
Cumene	98-82-8	2,660.	-	268.	Csat		0.65		0.0002	
Isopropyltoluene, p-	99-87-6	-	-	162.	Csat		0.2			
Propyl benzene	103-65-1	4,630.	-	264.	Csat		1.5		0.0003	

Created By: M. Kahrilas 5/31/2016
Checked By: L. Auner 6/01/2016

Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
TB 3

# of Soil-Concentration Entries: 15

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
1	0.4445	2.5E-05

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 5/31/2016.
Date of Worksheet Used: 12/11/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.51		0.0046	3.4E-07
Xylenes	1330-20-7	878.	-	260.	Csat		0.036		0.	
Trimethylbenzene, 1,3,5-	108-67-8	782.	-	182.	Csat		0.15		0.0002	
Naphthalene	91-20-3	188.	5.15	5.15	ca		0.071		0.0004	1.4E-08
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	15.	E	0.4373	2.4E-05
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	35.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.22			
Chromium, Total	7440-47-3	-	-			44.	16.			
Mercury (elemental)	7439-97-6	16.9	-	3.13	Csat		0.024		0.0014	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	20.			
Butylbenzene, n-	104-51-8	3,910.	-	108.	Csat		0.28		0.0001	
Butylbenzene, sec-	135-98-8	7,820.	-	145.	Csat		0.21		0.	
Cumene	98-82-8	2,660.	-	268.	Csat		0.65		0.0002	
Isopropyltoluene, p-	99-87-6	-	-	162.	Csat		0.17			
Propyl benzene	103-65-1	4,630.	-	264.	Csat		1.2		0.0003	

Created By: M. Kahrilas 5/31/2016
Checked By: L. Auner 6/01/2016

Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
TB 4

# of Soil-Concentration Entries: 18

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0193	9.6E-07

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 6/2/2016.
Date of Worksheet Used: 12/11/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		1.4		0.0126	9.4E-07
Toluene	108-88-3	5,300.	-	818.	Csat		0.08		0.	
Xylenes	1330-20-7	878.	-	260.	Csat		0.064		0.0001	
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc		0.13		0.0014	
Trimethylbenzene, 1,3,5-	108-67-8	782.	-	182.	Csat		0.23		0.0003	
Naphthalene	91-20-3	188.	5.15	5.15	ca		0.12		0.0006	2.3E-08
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	4.			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	41.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.28			
Chromium, Total	7440-47-3	-	-			44.	16.			
Mercury (elemental)	7439-97-6	16.9	-	3.13	Csat		0.024		0.0014	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	11.			
Selenium	7782-49-2	391.	-	391.	nc		0.82		0.0021	
Butylbenzene, n-	104-51-8	3,910.	-	108.	Csat		0.28		0.0001	
Butylbenzene, sec-	135-98-8	7,820.	-	145.	Csat		0.26		0.	
Cumene	98-82-8	2,660.	-	268.	Csat		0.77		0.0003	
Isopropyltoluene, p-	99-87-6	-	-	162.	Csat		0.23			
Propyl benzene	103-65-1	4,630.	-	264.	Csat		1.4		0.0003	

Created By: M. Kahrilas 5/31/2016
Checked By: L. Auner 6/01/2016

Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
TB 5

# of Soil-Concentration Entries: 17

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0125	6.3E-07

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 6/1/2016.
Date of Worksheet Used: 12/11/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.92		0.0083	6.2E-07
Toluene	108-88-3	5,300.	-	818.	Csat		0.04		0.	
Xylenes	1330-20-7	878.	-	260.	Csat		0.055		0.0001	
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc		0.12		0.0013	
Trimethylbenzene, 1,3,5-	108-67-8	782.	-	182.	Csat		0.2		0.0003	
Naphthalene	91-20-3	188.	5.15	5.15	ca		0.081		0.0004	1.6E-08
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	5.4			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	39.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.23			
Chromium, Total	7440-47-3	-	-			44.	16.			
Mercury (elemental)	7439-97-6	16.9	-	3.13	Csat		0.024		0.0014	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	9.7			
Butylbenzene, n-	104-51-8	3,910.	-	108.	Csat		0.28		0.0001	
Butylbenzene, sec-	135-98-8	7,820.	-	145.	Csat		0.22		0.	
Cumene	98-82-8	2,660.	-	268.	Csat		0.73		0.0003	
Isopropyltoluene, p-	99-87-6	-	-	162.	Csat		0.17			
Propyl benzene	103-65-1	4,630.	-	264.	Csat		1.5		0.0003	

Created By: M. Kahrilas 5/31/2016
Checked By: L. Auner 6/01/2016

Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
TB 6

# of Soil-Concentration Entries: 14

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0135	1.4E-07

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 5/31/2016.
Date of Worksheet Used: 12/11/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.21		0.0019	1.4E-07
Trimethylbenzene, 1,3,5-	108-67-8	782.	-	182.	Csat		0.11		0.0001	
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	5.1			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	43.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.36			
Chromium, Total	7440-47-3	-	-			44.	15.			
Mercury (elemental)	7439-97-6	16.9	-	3.13	Csat		0.15		0.0089	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	23.			
Selenium	7782-49-2	391.	-	391.	nc		0.73		0.0019	
Butylbenzene, n-	104-51-8	3,910.	-	108.	Csat		0.84		0.0002	
Butylbenzene, sec-	135-98-8	7,820.	-	145.	Csat		0.42		0.0001	
Cumene	98-82-8	2,660.	-	268.	Csat		0.51		0.0002	
Isopropyltoluene, p-	99-87-6	-	-	162.	Csat		0.19			
Propyl benzene	103-65-1	4,630.	-	264.	Csat		1.3		0.0003	

Created By: M. Kahrilas 5/31/2016
Checked By: L. Auner 6/01/2016