Summary Update Report for

John Webster Residence/WDOT

BRRTS 03-45-561657; PECFA 54313-9102-05

Project Number: 0721-01-14
Site Address: N9505 CTH U
Town of Oneida

Outagamie County, Wisconsin

May 29, 2014

Prepared For:

John Webster c/o Steve Webster 3781 Hillcrest Drive

Green Bay, Wisconsin 54313





Prepared by

Chad M. Fradette, EP 211 N. Broadway, Suite 114 Green Bay, Wisconsin 54303 (920) 569-5765 <u>cfradette@mach-iv.com</u>

1.0 SUMMARY

Mach IV Engineering (Mach IV) performed Site Investigation activities on the subject property.

The subject property is located at N9505 CTH U in the Town of Oneida, Outagamie County, Wisconsin. The property covered by this Phase I ESA (the subject property) is developed as residence. Former property usage was woodland. The subject property has been purchased by the Wisconsin Department of Transportation.

This Site Investigation activities were performed by Robert A Mach and Chad M Fradette of Mach IV Engineering & Surveying, LLC. Chad M Fradette is registered PECFA consultant, a licensed site assessor, and an Environmental Professional who meets the definition of an "Environmental Professional" as defined by 40 C.F.R. § 312.10(b). Robert A Mach is a Professional Engineer licensed by the State of Wisconsin and a registered PECFA consultant.

2.0 Brief Site History

The property is a residence with former usage of a 300-gallon gasoline underground storage tank (UST) and a 1,000-gallon fuel oil tank. The tanks were removed on February 4, 2014. Evidence of soil contamination was observed by the contractor during tank removal.

3.0 Drilling Overview

On April 7, 2014, seven Geoprobe[™] soil borings were installed on the property, GP-1 through GP-7. The boring locations were placed in the former locations of two USTs and the surrounding area to determine the extent of soil contamination. Soil boring GP-2 was converted into a standard monitoring well and soil borings GP-4, GP-6, and GP-7 were left with temporary monitoring wells left in place to aid in definition of groundwater contamination.

Mach IV directed the installation of the Geoprobe[™] soil borings by Geiss Soil & Samples LLC of Merrill, Wisconsin. All soil borings were observed, field observations were noted and each boring was screened with a photoionization detector (PID) to detect residual volatile organic compounds. Soil borings were observed continually from the surface to the bottom of each boring.

Mach IV returned to the site on April 21, 2014 to sample the four site wells. The wells had previously been surveyed by Mach IV staff.

4.0 Soil Boring Notes

Soil boring GP-1 was placed within a former tank location, noted by the removal contractor as the location of the gasoline UST. Indication of soil contamination was not encountered during field screening from 0 to 12 feet bgs, samples registered a PID reading of 0.0 ppm eq, and no odors were observed. The soils encountered below the tank backfill were brown sandy clay to nine feet bgs then hard clay. A perched groundwater was encountered at the clay interface. A soil sample was collected above the hard clay layer within the vadose zone.

Soil boring GP-2 was placed within a former tank location, noted by the removal contractor as the location of the fuel oil UST. Indication of soil contamination was encountered during field screening from 3 to 8.5 feet bgs, samples registered PID readings of 8 to 24 ppm eq in this area, and gasoline odors

were observed. No fuel oil odor was observed. This may possibly have been the location of the gasoline tank or by chance we encountered the leak from the other tank in this area. Soils at the bottom of the excavation may have also been mixed around during tank removal. The soils encountered below the tank backfill were brown sandy clay to 8.5 feet bgs then hard clay. A perched groundwater was encountered at the clay interface. Soil samples were collected at the area of highest PID reading and within the hard clay layer. A standard groundwater monitoring well was installed at this location.

Soil boring GP-3 was placed to define soil contamination. Indication of soil contamination was not encountered during field screening from 0 to 12 feet bgs, samples registered a PID reading of 0.0 ppm eq, and no odors were observed. The soils encountered below the topsoil were sandy clay to eight feet bgs over hard clay. A perched groundwater was encountered. Soil samples were collected at the groundwater interface and within the hard clay.

Soil boring GP-4 was placed to define soil and groundwater contamination. Indication of soil contamination was not encountered during field screening from 0 to 12 feet bgs, samples registered a PID reading of 0.0 ppm eq, and no odors were observed. The soils encountered below the topsoil were brown clay and sand to 4.5 feet bgs over hard clay. A perched groundwater was encountered. A soil sample was collected within the hard clay. A temporary well was set within the boring.

Soil boring GP-5 was placed to define soil contamination. Indication of soil contamination was not encountered during field screening from 0 to 12 feet bgs, samples registered a PID reading of 0.0 ppm eq, and no odors were observed. The soils encountered below the topsoil were jumbled layers of clay, silt and sandy clay to ten feet bgs over hard clay. A perched groundwater was encountered. Soil samples were collected at the groundwater interface and just above the hard clay. This boring was near to the septic tanks and was likely disturbed during installation of the tanks.

Soil boring GP-6 was placed to define soil and groundwater contamination. Indication of soil contamination was not encountered during field screening from 0 to 12 feet bgs, samples registered a PID reading of 0.0 ppm eq, and no odors were observed. The soils encountered below the topsoil were jumbled layers of clay, silt and silty clay to six feet bgs over clay. A perched groundwater was encountered. Soil samples were collected at the groundwater interface and within the clay. This boring was near to the septic tanks and was likely disturbed during installation of the tanks. A temporary well was set within the boring.

Soil boring GP-7 was placed to define soil and groundwater contamination. Indication of soil contamination was not encountered during field screening from 0 to 12 feet bgs, samples registered a PID reading of 0.0 ppm eq, and no odors were observed. The soils encountered below the asphalt and pavement base were brown clay and sandy clay to six feet bgs over hard clay. A perched groundwater was encountered. Soil samples were collected at the groundwater interface and within the hard clay. A temporary well was set within the boring.

Soil boring log documentation is located in Appendix C. Please refer to the Soil Boring Map figure located in Appendix A for soil boring locations.

5.0 Laboratory Analytical Results

5.1 Soil Samples

Soil sample GP-1, S-4, collected at 6 to 8 ft bgs, results reported no detections of petroleum volatile organic compounds (PVOCs) and naphthalene above laboratory method detection limits.

Soil sample GP-2, S-3, had a PID reading of 24 ppm and smelled of gasoline. It was collected at 4 to 6 ft bgs, results reported detections of ethylbenzene (155 ppb), naphthalene (3,230 ppb), 1,2,4-trimethylbenzene (TMB)(1,220 ppb), 1,3,5-TMB (424 ppb) and total xylenes (733 ppb). The detection of naphthalene exceeds the Groundwater Protection Residual Contaminant Level (GWRCL).

Soil sample GP-2, S-6, collected at 10 to 12 ft bgs, results reported no detections of petroleum volatile organic compounds (PVOCs) and naphthalene above laboratory method detection limits.

Soil sample GP-3, S-3, collected at 4 to 6 ft bgs, results reported no detections of petroleum volatile organic compounds (PVOCs) and naphthalene above laboratory method detection limits.

Soil sample GP-3, S-5, collected at 8 to 10 ft bgs, results reported no detections of petroleum volatile organic compounds (PVOCs) and naphthalene above laboratory method detection limits.

Soil sample GP-4, S-5, collected at 8 to 10 ft bgs, results reported no detections of petroleum volatile organic compounds (PVOCs) and naphthalene above laboratory method detection limits.

Soil sample GP-5, S-3, collected at 4 to 6 ft bgs, results reported no detections of petroleum volatile organic compounds (PVOCs) and naphthalene above laboratory method detection limits.

Soil sample GP-5, S-5, collected at 8 to 10 ft bgs, results reported no detections of petroleum volatile organic compounds (PVOCs) and naphthalene above laboratory method detection limits.

Soil sample GP-6, S-3, collected at 4 to 6 ft bgs, results reported no detections of petroleum volatile organic compounds (PVOCs) and naphthalene above laboratory method detection limits.

Soil sample GP-6, S-5, collected at 8 to 10 ft bgs, results reported no detections of petroleum volatile organic compounds (PVOCs) and naphthalene above laboratory method detection limits.

Soil sample GP-7, S-3, collected at 4 to 6 ft bgs, results reported no detections of petroleum volatile organic compounds (PVOCs) and naphthalene above laboratory method detection limits.

Soil sample GP-7, S-5, collected at 8 to 10 ft bgs, results reported no detections of petroleum volatile organic compounds (PVOCs) and naphthalene above laboratory method detection limits.

The soil data table is located in Appendix B and Laboratory Analytical Report is located in Appendix D.

5.2 Groundwater Samples

Groundwater was sampled from each well on April 21, 2014. Water levels were measured from each well and monitoring well MW-1 was developed. Each sample was submitted to Pace Analytical for analysis of volatile organic compounds (VOCs).

Monitoring well MW-1 reported a detection of MTBE (0.47 ppb) that was "J-flagged" by the laboratory. No other VOCs were reported above laboratory detection limits. The detection of MTBE did not exceed the enforcement standard.

Temporary monitoring well TMW-2 reported no detections of VOCs above laboratory detection limits.

Temporary monitoring well TMW-3 reported no detections of VOCs above laboratory detection limits.

Temporary monitoring well TMW-4 reported no detections of VOCs above laboratory detection limits.

The groundwater data table is located in Appendix B and Laboratory Analytical Report is located in Appendix D.

6.0 Discussion

On April 7, 2014, Mach IV Engineering installed seven soil borings, collected twelve soil samples to define soil contamination and installed one standard monitoring well in the source area and three temporary groundwater wells to define groundwater contamination.

Soil Results

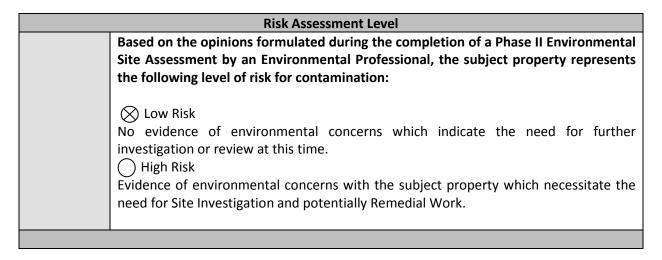
Soil contamination was discovered beneath the UST bed in soil boring GP-2. The contamination had a gasoline odor and contained typical gasoline compounds and naphthalene. Naphthalene and 1,2,4-TMB exceeded the groundwater RCL and naphthalene exceeded the SSRCL. The soil contamination did not extend beneath the vadose zone. There is a confining layer of hard clay at approximately 8 feet bgs across the site. There were no detections of PVOCs or naphthalene is any other soil samples in any boring.

The soil contamination is contained to a small area in the vicinity of soil boring GP-2. It is unlikely based on field screening and laboratory data that any soils on-site exceed direct contact standards.

Groundwater Results

There was only one detection found in monitoring well MW-1; MTBE at 0.47 ppb. There were no detections of any VOCs found in the other wells. The detection of MTBE was J-flagged by the laboratory. J-flagged detections are very small and not within the calibrated curve. The detection of MTBE is well below the enforcement standard.

7.0 OPINION



Information gathered by Mach IV during the Phase II ESA appears to be consistent and indicates that historical use of petroleum UST has led to a release at the Site, but does not pose a significant threat.

8.0 CONCLUSIONS & RECOMMENDATIONS

It is Mach IV's opinion that use of a gasoline UST at the Site has led to a release on the property.

Mach IV's opinion is based on the field and laboratory data collected and data interpretation.

The remaining soil contamination is localized to one area and is located at least three feet below the ground surface. Mach IV reviewed the WDOT plans for the area. The location of the contamination is near the toe of slope for the future off ramp construction and does not appear to be planned for disturbance. Since the soil will not be disturbed during construction and there is little to no groundwater contamination, the soil can remain in place indefinitely.

Mach IV recommends that no further Site Investigation activities be completed on Site and the case be considered for closure by the WDNR.

10.0 SIGNATURE(S) OF ENVIRONMENTAL PROFESSIONAL(S)

- I, Chad M. Fradette, possess sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding conditions indicative of releases or threatened releases, per ASTM E 1527-05, Section 7.5.1.
- I, Chad M. Fradette, meet the definition of Environmental Professional per ASTM E 1527-05, Section Z2.1.1(3)(iii). I possess a Baccalaureate or higher degree from an accredited institution of higher education in a discipline of engineering or science and the equivalent of fifteen (15) years of full-time relevant experience.
- I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 CFR 312.10. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

In addition, the undersigned acknowledge and agree that the above-noted declarations and statements are accurate with regard to the subject matter of this report.

May 29, 2014

Chad M. Fradette, EP

Director of Environmental Services

Date

APPENDIX A

Site Figures

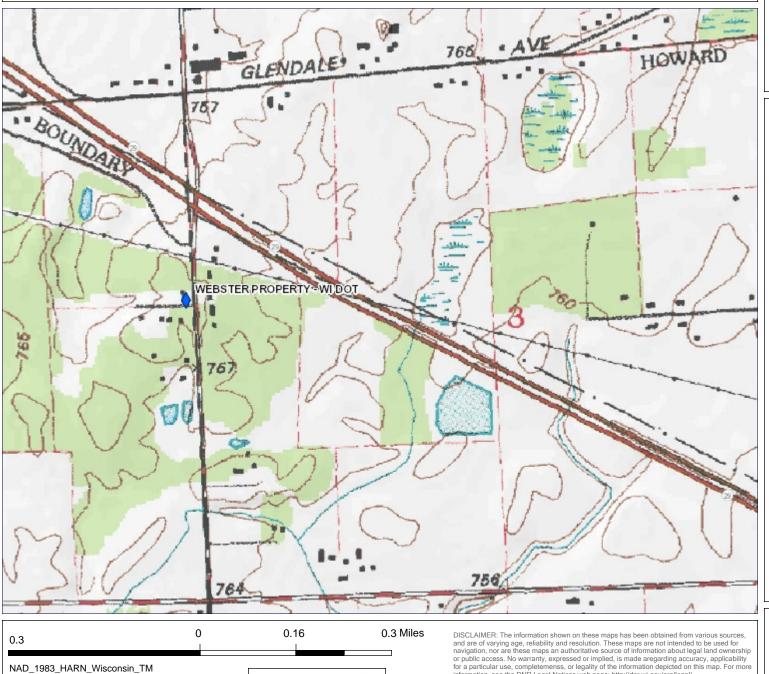


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© Latitude Geographics Group Ltd.

Site Location Map



1: 10,189

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Legend

- Open Site (ongoing cleanup)
- Open Site Boundary
- Closed Site (completed cleanup)
- Closed Site Boundary
- **Great Lakes**
- Cities
- Villages

Notes

information, see the DNR Legal Notices web page: http://dnr.wi.gov/org/legal/

Note: Not all sites are mapped.

John Webster Residence/WDOT N9505 CTH U Town of Oneida, Outagamie County Wisconsin

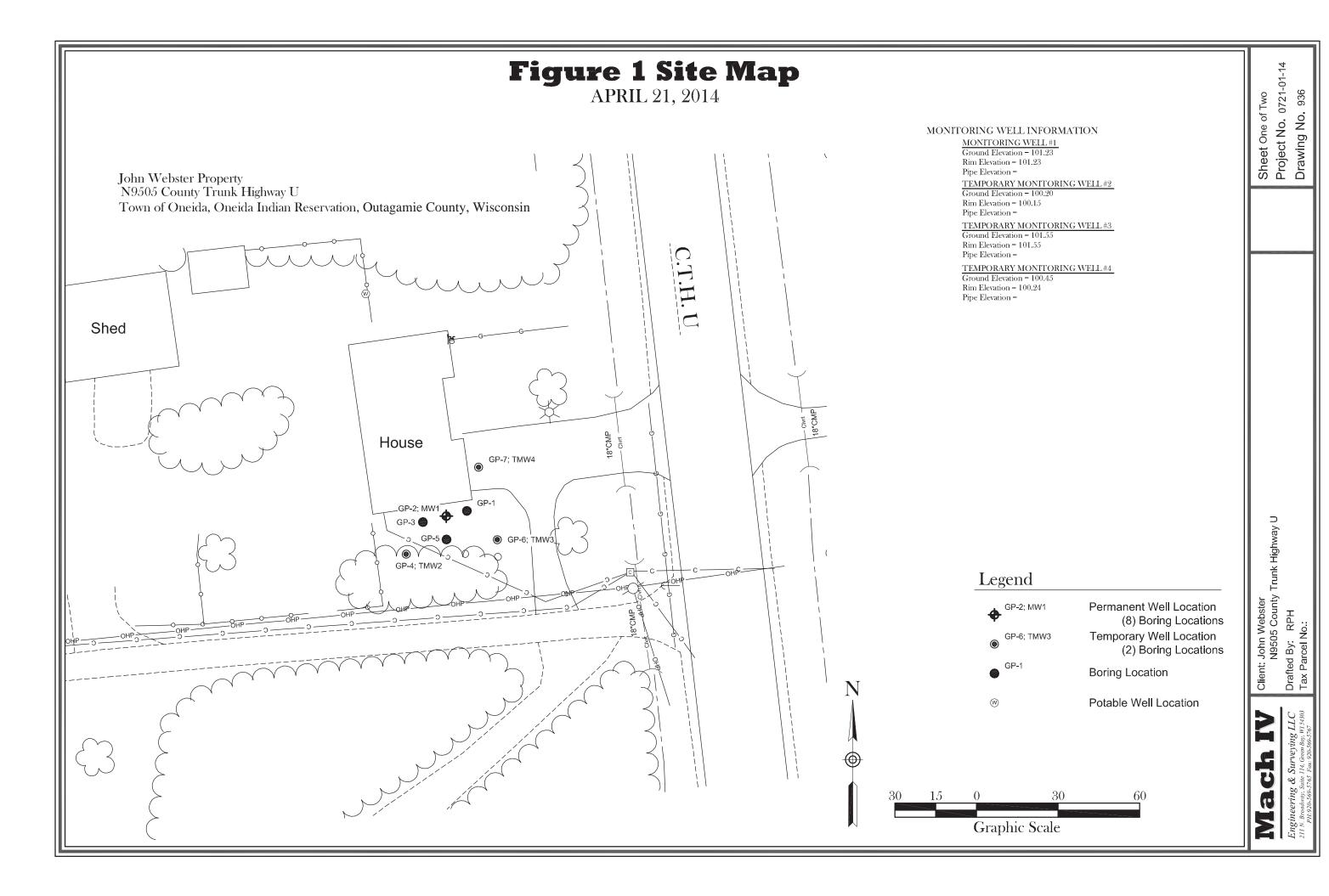


Figure 2 Groundwater Flow Direction

APRIL 21, 2014 Webster Property N9505 County Trunk Highway U Town of Oneida, Oneida Indian Reservation, Legend Outagamie County, Wisconsin Permanent Well Location (8) Boring Locations Temporary Well Location (2) Boring Locations **Boring Location** (97.97)Groundwater Elevation House GP-7; TMW4 (94.87) Former Tank Beds Extent of Soil Contamination (97.97) GP-2; MW1 GP-3 GP-6; TMW3 (94.91) GP-4; TMW2 (95.00)

Engineering & Surveying LLC 211 N. Broadway, Suite 114, Green Bay, WI 54303 PH:920-569-5765 Fax: 920-569-5767 Client: John Webster

Drafted By: RPH Tax Parcel No.:

Scale:

1" = 10'

Sheet One of Two Project No. 0721-01-14 Drawing No. 936

APPENDIX B

Data Tables

Soil Sample Laboratory Analytical Results John Webster Residence/WDOT N9505 CTH U, Town of Oneida, Outagamie County, Wisconsin Mach IV Engineering, Project No. 0721-01-14

GP-1, S-4	GP-2, S-3	GP-2, S-6	GP-3, S-3	GP-3, S-5	GP-4, S-5	GP-5, S-3	GP-5, S-5	GP-6, S-3	GP-6, S-5	GP-7, S-3	GP-7, S-5	Non Ind	dustrial
4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	Croundwater BCI	Direct Contact
6.0 - 8.0	4.0 - 6.0	10.1 - 12.0	4.0 - 6.0	8.0 - 10.0	4.0 - 6.0	4.0 - 6.0	8.0 - 10.0	4.0 - 6.0	8.0 - 10.0	4.0 - 6.0	8.0 - 10.0	Giouridwaler RCL	RCL
0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
none	gasoline	none	none	none	none	none	none	none	none	none	none		
sandy clay below tank backfill	sandy clay below tank backfill	clay in vadose zone	sandy clay in vadose zone	hard caly	hard clay	sandy clay in vadose zone	sandy clay	silty clay in vadose zone	clay	sandy clay in vadose zone	hard clay		
pounds (PVO	Cs) and Naph	thalene, ppb											
<25.0	<50.0	<25.0	<35.7	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	5.1	<u>1,490</u>
<25.0	155	<25.0	<35.7	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,570	<u>7,470</u>
<25.0	<50.0	<25.0	<u><35.7</u>	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	27	<u>59,400</u>
<25.0	3,230	<25.0	<35.7	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	659	<u>5,150</u>
<25.0	<50.0	<25.0	<35.7	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,107	<u>818,000</u>
<25.0	1,220	<25.0	<35.7	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,379	<u>89,800</u>
<25.0	424	<25.0	<71.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NS	182,000
<75.0	733	<75.0	<35.7	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	3,940	<u>258,000</u>
	4/7/2014 6.0 - 8.0 0.0 none sandy clay below tank backfill counds (PVO) <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0	4/7/2014 4/7/2014 6.0 - 8.0 4.0 - 6.0 0.0 24 none gasoline sandy clay below tank backfill counds (PVOCs) and Naph <25.0 <50.0 <25.0 155 <25.0 <50.0 <25.0 3,230 <25.0 <50.0 <25.0 1,220 <25.0 424	4/7/2014 4/7/2014 4/7/2014 6.0 - 8.0 4.0 - 6.0 10.1 - 12.0 0.0 24 0.0 none gasoline none sandy clay below tank backfill clay in vadose zone counds (PVOCs) and Naphthalene, ppb <25.0	4/7/2014 4/7/2014 4/7/2014 4/7/2014 6.0 - 8.0 4.0 - 6.0 10.1 - 12.0 4.0 - 6.0 0.0 24 0.0 0.0 none gasoline none none sandy clay below tank backfill below tank backfill sandy clay in vadose zone sandy clay in vadose zone counds (PVOCs) and Naphthalene, ppb <25.0	4/7/2014 4/7/2014	4/7/2014 4/0 - 6.0 8.0 - 10.0 4.0 - 6.0 0.	4/7/2014 4/0 - 6.0 4.0 - 6.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4/7/2014 4/0 - 6.0 8.0 - 10.0 8.0 - 10.0 0.0	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014

Note: ppb

parts per billion (ug/kg) ft bgs

feet below ground surface exceeds direct contact standard, but is located greater than 4 feet below surface

NA Not analyzed

Groundwater Sample Laboratory Analytical Results John Webster Residence/WDOT N9505 CTH U, Town of Oneida, Outagamie County, Wisconsin Mach IV Engineering, Project No. 0721-01-14

Well Number	MW-1	TMMW-2	TMW-3	TMW-4	NR 140	NR 140						
Sampling Date	4/21/2014	4/21/2014	4/21/2014	4/21/2014	Preventive Action Limit	Enforcement Standard						
Detected and Selected Volatile Organic Compounds (VOCs), ppb												
Benzene	<0.50	<0.50	<0.50	<0.50	0.5	5						
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	140	700						
Methylene Chloride	<0.23	<0.23	<0.23	<0.23	0.5	5						
MTBE	0.47 J	<0.17	<0.17	<0.17	12	60						
Naphthalene	<2.5	<2.5	<2.5	<2.5	10	100						
Tetrachloroethene	<0.50	<0.50	<0.50	<0.50	0.5	5						
Toluene	<0.50	<0.50	<0.50	<0.50	160	800						
Trichloroethene	<0.33	<0.33	<0.33	<0.33	0.5	5						
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	NS	NS						
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	NS	NS						
Xylenes	<1.50	<1.50	<1.50	<1.50	400	2,000						

J - estimated concentration above the adjusted method detection limit and belwo the adjusted reporting limit

Water Level Elevations
John Webster Residence/WDOT
N9505 CTH U, Town of Oneida, Outagamie County, Wisconsin
Mach IV Engineering, Project No. 0721-01-14

Well Number Sampling Date	MW-1	TMW-2	TMW-3	TMW-4	
Water Level Elev	ation referen	ced to a site b	enchmark at	100 ft	
Sampling Date					
4/21/2014	97.97	95.00	94.91	94.87	

APPENDIX C

Field Notes and Borehole Documentation

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State of Wis., Dept. of Natural Resources dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 o

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

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Subdivision Name			Lot#		Green Ba			WI	54313				
Reason For Removal From	Service WI Uni	aue Well #	│ # of Replacem	nent Well	4. Pump, L	iner, Scree	n, Casing & Seali	ng Mater	ial				
Temporary Boring	1				Pump and	l piping remov	red?		∕es □No ⊠N/A				
3. Well / Drillhole / Bor		on			Liner(s) re	emoved?			res No No N/A				
Monitoring Well			n Date (mm/c	dd/yyyy)	Screen re	moved?			Yes ∐No XIN/A				
Water Well		/2014											
=	If a Well Construction Report is available, please attach.						w surface?		Yes No N/A				
Construction Type:					1	g material rise							
	riven (Sandpoint)	Γ	Dug		1	ial settle after , was hole reto			Yes □ No XIN/A Yes □ No XIN/A				
Other (specify):		_	_		If bentonit	e chips were u	used, were they hydr usafe source?	ated					
Formation Type:							g Sealing Material		Yes □ No 【私N/A				
☐ Unconsolidated Form	ation [Bedroo	ck		Condu	ctor Pipe-Grav	rity 🔲 Conductor I	Pipe-Pump	ed				
Total Well Depth From Gro				<u> </u>		ed & Poured nite Chips)	Other (Expla	ain):					
12			Sparence .		Sealing Mate								
Lower Drillhole Diameter (i	n.)	Casing D	epth (ft.)		1 —	ement Grout	:	•	d Slurry (11 lb./gal. wt.)				
2		<u> </u>			Sand-C	Cement (Conc		Bentonite Bentonite	-Sand Slurry " "				
Was well annular space gr	outed? NA L	Yes L	_No L	Unknown	1 —		הא Monitoring Well Bore		•				
If yes, to what depth (feet)	? Dept	h to Wate		1 6	Bentor	nite Chips ar Bentonite	Bento	nite - Cem	ent Grout				
		8	. 5 pe	rehed	Granul	ar Bentonite		nite - Sand	, , ,				
5. Material Used To Fill	Well / Drillhole		*		From (ft.)	To (ft.)	No. Yards, Sacks or Volume (circ		Mix Ratio or Mud Weight				
3/8 inch chipped	bentonite				Surface	12	0,6		100% Bentonite				
6. Comments													
								DNR Use	Only				
7. Supervision of Work Name of Person or Firm D		ilina li ice	ense #	Date of F	illing & Sealin	g (mm/dd/yyy			ited By				
Chad M Fradette	ong i ming a dec	~ 1	92926	1	/ 0 7/2014	,	,,,		- 3				
Street or Route				I .	elephone Nur		Comments						
				(920) 569-5765 Signature of Person Soing Work Date Signed									
City Croop Ray		State WI	ZIP Code	303	Signature of	verson Voin	g vyork		15/10/2014				
Green Bay		1 441		<u> </u>	1 00	100	TARRELL TO		. O. TOI <u>C</u> O 17				

			Koute		stewater Wa evelopment Wa				N 	<u>u</u>						
Facilit				, , , , , , , , , , , , , , , , , , ,		Lice	nse/Pern	nit/Mor	nitorin	g Num	ber	Boring	Numl	oer	_ of	
	Webster Property/WDOT						GP-2									
Boring First N	Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Darrin Last Name: Prentice						Date Drilling Started Date Drilling Completed Drilling Method $ \frac{04}{m m} / \frac{07}{d} / \frac{2014}{y y y} $ Date Drilling Completed Drilling Method Geoprobe									
	Firm: Geiss Soil & Samples					U# H	<u>, / U / a</u> /	اِ چِي اِ	$\frac{4}{y}$	$\frac{U4}{m}$	$\frac{U}{a}\frac{d}{a}$	ا چاکیا	$\frac{4}{y} - \frac{1}{y}$	Ged	pro	be
WI U	nique V	Vell No	0.	DNR Well ID No.	Vell Name		Static V							Boreho	ole Dia	ımeter
Ţ1		==						Feet M				_Feet I		2	i1	nches
State F	Plane _			imated: 🗆) or Borii		1	Lat	<u> </u>	***	Local	Grid L		n N			5 5
	1/4 of		1/4 of	Section, T	N, R	ال	ong	٠ ٥	11		F		S			□ E □ W
Facilit				County		County	Code				r Villa	ge				
	<u>5 CT</u>	ΗU	T T	Outagamie	9	45		To	wn o	One	ida		***************************************		olenna de la como	
Sam	ple ઝ ≎		Depth in Feet (Below ground surface)					:		i		Soil I	rope	rties		
	Length Att. & Recovered (in)	Blow Counts	Fee and sur		Description gic Origin For						Compressive Strength					.sq
lber Type	gth /	၁	h in		lajor Unit		CS	nic .	ram	FID	ress gth	in E	.g.,	city		nen[
Number and Type	cos	No.	Below				n S	Graphic Log	Well Diagram	PID/FID	omp	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
		-	10				+-		- 1	 	SC	20		I I		EO
3-1	1		0	tank			_	2								
	-		1	tank ba gra brsan	ch fill	,	FI	00								
S-2	0		2	ara	~1	1	FI	G.	7							
	2		3	***************************************	The state of the s	<u> </u>	′′	0 0		8						
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<i>-</i>	12		5	Cl	an		50	7/./		24		Ju	A.A	as		PVOCS
	-					······	100	V-/-		 			Va	VC		1091
S-4	1.0		6	***************************************			da	///		8						
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S-5			8	Y V			,	//		. 23			1			
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S-6	-		10	- raid	cury.			//	-		 	 	├	╂		
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			16													
	l															
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Signat		ury m	at the	information on this fo	and is true and c	Eim		r or m	у кпо	wieng	e.		voznomiki dal t			
		VK	ad	Ilu Yaas	LH		⁄lach	IV F	nain	eeri	na &	Sur	vevi	na		

		Waste Management	MONITORING WELL CONSTRUCT Form 4400-113A Rev. 7-98	TION
Facility/Project Name	Remediation/Redevelopment Local Grid Location of Well	Other	Well Name	
Mobster Property	ft_ S			
Facility License, Permit or Monitoring No.			Wis. Unique Well No. DNR Well ID N	Vo.
	Lat Lo	ongior	VZ 235	
Facility ID	St. Planeft. N, _		Date Well Installed 4, 07, 201	4
T (31/1)	Section Location of Waste/Source	e	m m d d v v v	Y
Type of Well Well Code	1/4 of 1/4 of Sec,	,T N, R \ W	Well Installed By: Name (first, last) and	l Firm
	Location of Well Relative to Was		Darrin Prentice	
Distance from Waste/ Enf. Stds.		Sidegradient	Geiss Soil + Sample	00//
A. Protective pipe, top elevation	d Downgradient n 1	Not Known ———————————————————————————————————	Yes a	THE RESERVE TO SERVE
		2. Protective cover		110
B. Well casing, top elevation	ft. MSL	a. Inside diameter	r:	in.
C. Land surface elevation	ft. MSL	b. Length:	_5_	ft.
	A	c. Material:	Steel 🗵	04
D. Surface seal, bottom ft. MS	Lor _ U_ II.		Other	10000
12. USCS classification of soil near screen		d. Additional pro	tection?	No
GP □ GM □ GC □ GW □ S	SW D SP D	If yes, describ	e:	
SM SC ML MH C	CL CH D	3 Sunface and	Bentonite 🛛	30
Bedrock		3, Surface scal:	•	01
	Yes 🛛 No	X	Other 🗆	
	tary 🗆 5 0	4. Material between	well casing and protective pipe:	m.m.
Hollow Stem Au			Bentonite 🗵	30
0	ther 🗆 💥		Other	200
45 D :::: 5 W = 0.0		5. Annular space se	al: a. Granular/Chipped Bentonite	33
15. Drilling fluid used: Water 0 2	Air 0 0 1	bLbs/gal n	nud weight Bentonite-sand slurry	35
Drilling Mud □ 0 3	None 99	cLbs/gal n	nud weight Bentonite slurry	31
16. Drilling additives used?	Yes 🗖 No			50
To Dinning Books of Door		eFt	volume added for any of the above	
Describe		f. How installed:		01
17. Source of water (attach analysis, if requ	tired):	8	Tremie pumped □	02
(Gravity 💢	08
All to the control of		6. Bentonite seal:		33
E.D	. 5. 8	b. □1/4 in. 🛛		32
E. Bentonite seal, top ft. MS	Lor Tt.	C	Other 🗆	21
F. Fine sand, top ft. MS	Lor 1.5 ft.	7. Fine sand materia	il: Manufacturer, product name & mesh	size
1. The said, up	201-2-3-11/ 機		ed Plint	******
G. Filter pack, top ft. MS	Lor 1,5 ft.	(8)		
of the pack, top		b. Yolume added		
H. Screen joint, top ft. MS	Lor 2 ft.	o. Filter pack mater	ial: Manufacturer, product name & mesh	size
		a. Volume added		
I. Well bottom ft. MS	Lor_ Q ft.	9. Well casing:	Flush threaded PVC schedule 40 🗹	22
		of well casing.	Fig. 1 of the property of the page of	23
J. Filter pack, bottom ft. MS	Lor 13 ft.			24
		10. Screen material:	Other 🗆	22
K. Borehole, bottom ft. MS	Lor_13_ft.	a. Screen type:	Eastern and M	22
		a. Gerten type.	Factory cut 🛛 Continuous slot 🗖	11
L. Borehole, diameter S. 25 in.		2	_	01
		b. Manufacturer		2012
M. O.D. well casing 2.40 in.		c. Slot size:	0.010	in.
		d. Slotted length		
N. I.D. well casing 2.06 in.		11. Backfill material		
	the state of the s		Other 🕱	20000
I hereby certify that the information on this	form is true and correct to the bes	t of my knowledge.		
Signature	Firm	C :1 C	1	
1 YIVIII Prontice	(5P155	Soil & Sam	MIPS LLC	

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin Department of Natural Resources

MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/W	Waste Management						
Remediation/Redevelopment			Other				
Facility/Project Name John Webster Residence/WDOT	ſ	County Name Outagamie		Well Name MW-			
Facility License, Permit or Monitoring Number		County Code 45	Wis. Unique Well Nu VZ235		DNR Wel	II ID Number	
] Yes	□ No	11. Depth to Water	***************************************		After Development	
2. Well development method			(from top of	a	ft.	6.08 ft.	
-	X 4∶		well casing)				
	6			04/21/20)14	04/21/2014	
_	3 42	2	Date	b/	_/	$\frac{1}{\sqrt{y}} = \frac{1}{m} \frac{1}{m} \frac{1}{d} \frac{1}{d} \frac{1}{y} \frac{1}{y} \frac{1}{y} \frac{1}{y} \frac{1}{y}$	
	☐ 6:	_					
	7 (10:15	[X a.m.	11:30 💢 a.m.	
	2 (Time	c : :	D.m.	: p.m.	
· ·]] [12. Sediment in well	0.0	6	0.00 inches	
	5		bottom		inches	inches	
	□ 50 □ □		13. Water clarity	Clear 📋	. 0	Clear 🔀 20	
		**	15. Water clarity	Turbid 🖾		Turbid □ 25	
		min.		(Describe) silty		(Describe)	
1 , 1		1 ft.					
5. Inside diameter of well	2.06	5 in.					
6. Volume of water in filter pack and well casing	_ 2.5	gal.					
7. Volume of water removed from well	15	gal.				at solid waste facility:	
8. Volume of water added (if any)	0.	0 gal.	14. Total suspended solids		mg/l	mg/l	
9. Source of water added			15. COD		mg/l	mg/l	
			16. Well developed b	y: Name (first,	last) and Firn	n	
10. Analysis performed on water added?	☐ Yes	. □ No	First Name: Cha	ad	Last Nam	e: Fradette	
(If yes, attach results)			Firm: Mach IV	Engineering	a & Surve	evina LLC	
17. Additional comments on development:			<u> </u>			· · · · · · · · · · · · · · · · · · ·	
Name and Address of Facility Contact/Owner/Respo	onsible	Party					
First Steve Last Webster Name: Webster			I hereby certify the	at the above in	formation	is true and correct to the best	
Facility/Firm:		····	Signature:		12/2		
Street: 3781 Hillcrest Drive			Print Name: Chac	d M Fradett	e U		
City/State/Zip: Green Bay, WI 54313	······································		Firm: Mach	IV Enginee	ring		

	y/Proje hste			y/WDOT	Lie	cens	e/Pern	nit/Mo	nitorin	g Num	ber	Boring		ber	01 _	
Borin	Drille	d By:	Name	of crew chief (first, last) and Firm Last Name: Prentice		Date Drilling Started Date Drilling Completed Drilling Method										
Firm:	Firm: Geiss Soil & Samples						<u>20</u> 1		$\frac{04}{m}$			$\frac{4}{y}$	l	opro		
WI U	nique V	Vell No). 	DNR Well ID No. Well Name	Fir	nal S		Water I Feet M		Surface	e Elev	ation _Feet l	MSL	Boreh 2		ameter nches
Local State I	Grid O	rigin	□ (est	imated: ☐) or Boring Location ☐ N,E	<u> </u>	L	at	۰ ٥	"	Local (Grid L	ocatio	n			-
	1/4 of			Section, TN, R		Lon	g	0 '	"		F	eet 🗖	N S _			E W
Facili 950	y ID 5 CT	ΉU		County Outagamie	Count 4	ty Co	ode 			City/ or One		ge				
Sarr	ple		(goe)		***************************************				***************************************			Soil I	rope	rties		essentites elumentamentemantemantema
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit			uscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1	12		0	top soil			70.			0.2						
S-2	12		2	br sandy clay			CY SP			0,0			1/	_		
S-3	24		4 5	Ų		10	24/ SP			0.0			6	dore		PVOLE
6-4	24		6 7	W/ g mul			دار عه	7/16 7/16 7/2	all common file.	0.0						
S-5	24		8 9	hard clay			cl			0.0						\$WC:
S-6	24		10 11	1			CL			0.0						
S-7			12 13	EaB					A PARTIE OF THE							
S-8			14													
			15						-				<u> </u>	-	 	
			16													
		L		information on this form is true an				<u> </u>	<u> </u>				<u> </u>			

State of Wis., Dept. of Natural Resources

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 o

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

☐ Verification Only of Fill and Seal	Route to: Drinking Water Waste Managemen	Watershed/Wastewater X Remediation/Redevelopment								
1. Well Location Information		2. Facility / Owner Information								
		Facility Name								
Outagamie Removed Well		Webster Property/WDOT								
Lattitude / Longitude (Degrees and Minutes) Method	Code (see instructions)	Facility ID (FID or PWS)								
44 • 34.912 . 'N	code (coe mandonone)		-11/8 4 14 1	11						
88 11.463 ww	ANTANIA DEVICES DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DE LA CONTRACTION DE LA CONTRACT	GP-3	nit/Monitoring	#						
1/4 1/4 Section Town	nship Range E	Original Well John Web								
or Gov't Lot #	N Hw	Present Well								
Well Street Address N9505 CTH U		same				APART				
Well City, Village or Town	Well ZIP Code		ess of Presen crest Drive	Owner						
Town of Oneida	54313	City of Prese			State	ZIP Code				
Subdivision Name	Lot#	Green Ba			WI	54313				
- Multi- Multi-	# of Double over 19/0!	4. Pump, L	iner, Screer	ı, Casing & Seali	ing Materi	ial				
	# of Replacement Well	Pump and	I piping remov	ed?	П	es DNo XN/A				
Temporary Boring		Liner(s) re	•	cu:		es No No N/A				
	n Date (mm/dd/yyyy)	Screen re				res No No N/A				
Monitoring Well 04/07/2014	2 a.t. (a.a.,,,,,,,		ft in place?		\square_{Y}	res □No XNA				
Mater Mall	on Report is available, Was casing cut off below surface?									
X Borehole / Drillhole please attach.		g material rise		X_1						
Construction Type:	· 		ial settle after		□,	res No No N/A				
Drilled Driven (Sandpoint)		, was hole reto		\Box'	res 🗆 No 😡 N/A					
Other (specify):		If bentonit with water	e chips were u from a known	sed, were they hydr safe source?	rated □\	res □No 図N/A				
Formation Type:		Required Me	thod of Placin	g Sealing Material						
X Unconsolidated Formation Bedro	ck		ctor Pipe-Grav	ity 📙 Conductor I	Pipe-Pump	ed				
Total Well Depth From Ground Surface (ft.) Casing i	Diameter (in.)		ed & Poured nite Chips)	Other (Expla	ain):					
12		Sealing Mate	erials							
	Depth (ft.)	1 —	ement Grout			d Slurry (11 lb./gal. wt.)				
2		1 🗂	Cement (Conc	·	1	-Sand Slurry " "				
Was well annular space grouted? NA Yes	☐ No ☐ Unknown	Concre		נ _י אן Ionitoring Well Bore	Bentonite	· · · · · · · · · · · · · · · · · · ·				
If yes, to what depth (feet)? Depth to Water	er (feet)		ite Chips		nite - Ceme					
			ar Bentonite		nite - Sand					
5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks or Volume (circ		Mix Ratio or Mud Weight				
3/8 inch chipped bentonite		Surface	12	0.6		100% Bentonite				
6. Comments	411111111111111111111111111111111111111	<u> </u>								
7. Supervision of Work					DNR Use	Only				
Name of Person or Firm Doing Filling & Sealing Lic			g (mm/dd/yyy	y) Date Received	Not	ted By				
		07/2014	·							
Street or Route	i i	elephone Nur		Comments						
211 N Broadway, Ste 114	920) 569 Signatura	1-5765 Person Øøjn	axNork //	Ina	te Signed					
City State Green Bay WI	ZIP Code 54303	Signature 0	ed M	MARKET		5/10/2014				

State of Wisconsin	
Department of Natural	Resources

	^{y/Proje} bste			y/WDOT		Licen	se/Pern	nit/Mor	nitorin	g Num	ber	Boring	Numl	per		
Boring	Drille	d By:	Name	of crew chief (first,]	ast) and Firm Ntice		Drilling						oleted	Drillin	g Mei	hod
				Samples	Titice	$\frac{04}{m}$	<u>, 07</u> ,	, <u>20</u> 1	$\frac{ 4}{y}$	04	$\frac{07}{a}$	$\frac{201}{y}$	$\frac{4}{y}$	Ged	opro	be
WI Uı	ique W	ell No	·	DNR Well ID No.	Well Name	Final	Static V	Vater I. Feet M		Surfac	e Elev	ation _Feet l		Boreho 2		
ocal	Grid O	rigin	(est	imated:) or Box	ing Location	<u></u>		0 '		Local	Grid L				1	nches
				N, Section, T		Lo	.at	۰ -			E	eet 🗖	N			□ E □ W
acili	y ID			County		County C		Civil 7			Villa		<u> </u>		_ FCCI	<u> </u>
Sam	5 CT	<u>н </u>	T	Outagam	ie	45_		To	wn o	f One	ida	Coil I	Prope		-	
	% (ii)	ST	Depth in Feet (Below ground surface)	Soil/Roc	k Description						u.	JUII I	торе	ues		
ype Z	Length Att. & Recovered (in)	Blow Counts	in F		ogic Origin For Major Unit		CS	ပ	ш	9	Compressive Strength	art H	_	ity		ents
Number and Type	Leng	3low	Septh Below	23011	inajor onit		USC	Graphic Log	Vell)iagra	PID/FID	ompr treng	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	- 12			Tari	7		TO -	G C	1 1	Ī	၁လ	ZO	11	P	Ь	20
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			1	Brel	an		CC	//								
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			3				1/2	۲7.		V-"		//		/		
3	24		4			7	+			0.0			The	MI	_	
			5	brel	any &	- 6.1	CL									
4	ad		6	4	and P	nova	/.			λ			/			
	24		7						-	0.0						
5	24		8				0.8	1//		0.0						Delay
	2		9				CL			U."			W			PVa
6	24		10							_			1			
			11	•			cl		H	0.0						
7			12	da.	-//											
			13	yenys u	ellalle											
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			Route	e To: Watershed/Wastev Remediation/Reve												
	(5)					 							Page		_ of	
We	y/Proje bste	r Pro	_{ne} operi	ty/WDOT		Licens	se/Pern	nit/Moi	nitorin	g Num	ber	Boring	Numb GP-	er		
Borin	g Drille	d By:	Name	of crew chief (first, last) a		Date I	Prilling	Starte	d	Date D	rilling	Comp		Drillin:	g Metl	hod
	lame:			Last Name: Prentic	e	04	,07	201	4	04,	$\frac{07}{a}$	201	4_	Geo		
Firm:	ique V	SS S		Samples DNR Well ID: No.	Name			y y Voter I		m m Surfac				Boreho		
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State of Wis., Dept. of Natural Resources

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

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

Verification Only of	Fill and Sea	- 1	Route to: Drinking Waste	g Water Managemer	. ===	Watershed/Wa	astewater 🔯	Remedia	ation/Redevelopment
1. Well Location Informa	tion				2. Facility	/ Owner Inf	ormation		
	Unique Well # emoved Well	of H	icap #			Property/V	VDOT		
Lattitude / Longitude (Degree	s and Minutes)	Method (Code (see in	structions)	Facility ID (FI	D or PWS)			
44 • 34.912.	' N		(,		-11 /h # 14 1	л		
88 11.463	'W				GP- 5	nit/Monitoring	#		
1/4 1 1/4 1/4	Section	Town	ship Rang	e DE	Original Well John Web	-			
or Gov't Lot#			N	Ħ₩					
Well Street Address N9505 CTH U		L	, _{, , ,} , , , , , , , , , , , , , , ,		Present Well same				
Well City, Village or Town			Well ZIP C	ode	Mailing Addre	ess of Preser	it Owner		
Town of Oneida			54313		City of Prese			State	ZIP Code
Subdivision Name			Lot#		Green Ba	У		WI	54313
Reason For Removal From S	ervice WI Uni	que Well #	# of Replacer	ment Well	4. Pump, L	iner, Scree	n, Casing & Seali	ng Mater	
Temporary Boring			·		Pump and	piping remov	ved?	□Y	′es □No ⊠N/A
3. Well / Drillhole / Boreh	ole Informati	on			Liner(s) re	moved?		\Box	′es □No ⊠N/A
	Original Co	onstruction	n Date (mm/	dd/yyyy)	Screen rei	moved?		Lly	′es ∐No ⊠N/A
Monitoring Well	04/07	/2014			Casing lef	t in place?		<u>Ш</u>	′es □No ⅪN/A
Water Well			on Report is a	available,	Was casin	g cut off belo	w surface?		res No No N/A
X Borehole / Drillhole	please att	ach. 			Did sealing	g material ris	e to surface?	\boxtimes'	
Construction Type:		г	¬_		1	ial settle after		닏	∕es □No ☑N/A
Drilled Driv	en (Sandpoint)	L	Dug			was hole ret			res ∐No XIN/A
Other (specify):							used, were they hydr n safe source?		res ∐No XIN/A
Formation Type:					1 -		g Sealing Material		
X Unconsolidated Formati	on _	Bedroo	ck		1 =	ctor Pipe-Grav ed & Poured	· 🗂		ed
Total Well Depth From Groun	nd Surface (ft.)	Casing D	iameter (in.)		(Bentor	nite Chips)	Other (Expla	ain):	
12		0	-45 (ft)		Sealing Mate			01	1 Olivery (44 lb /14)
Lower Drillhole Diameter (in. 2)	Casing D	ерін (п.)			ement Grout Cement (Conc	rata) Grout		d Slurry (11 lb./gal. wt.) -Sand Slurry " "
		l 1 Г	<u> </u>	1	Concre		Tele) Glodi	Bentonite	
Was well annular space grou		Yes l	No L	Unknown	1		Monitoring Well Bore		•
If yes, to what depth (feet)?	Dept	h to Wate	r (feet)		Benton	ite Chips	Bento	nite - Ceme	ent Grout
					Granul	ar Bentonite		nite - Sand	
5. Material Used To Fill We	ell / Drillhole				From (ft.)	To (ft.)	No. Yards, Sacks or Volume (circ		Mix Ratio or Mud Weight
3/8 inch chipped b	entonite				Surface	12	3.6		100% Bentonite
								·	
6. Comments		· · · · · · · · · · · · · · · · · · ·				<u> </u>			
7. Supervision of Work								DNR Use	Only
Name of Person or Firm Doi	ng Filling & Sea		ense #	1	-	g (mm/dd/yy)	yy) Date Received	No	ted By
Chad M Fradette		8	92926		07/2014			<u>_</u>	
Street or Route	Sto 114				elephone Nun		Comments		
211 N Broadway, S	JIC 114	State	ZIP Code		920) 569 Signature of	Ferson Doin	og Work		te Signed
city Green Bay		WI	li .	; 303	Signal die of	Th	Males	- 1	5/10/2014
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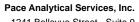
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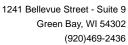
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Department of Natural	Resources

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APPENDIX D

Laboratory Report







April 17, 2014

Chad Fradette
Mach IV Engineering & Surveying
211 N. Broadway
Suite 114
Green Bay, WI 54303

RE: Project: WEBSTER/ WDOT Pace Project No.: 4094322

Dear Chad Fradette:

Enclosed are the analytical results for sample(s) received by the laboratory on April 07, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

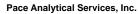
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brian Basten brian.basten@pacelabs.com Project Manager

Enclosures





Pace Analytical www.pacelabs.com

1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

CERTIFICATIONS

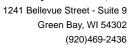
Project: WEBSTER/ WDOT

Pace Project No.: 4094322

Green Bay Certification IDs

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

New York Certification #: 11888 North Dakota Certification #: R-150 South Carolina Certification #: 83006001 US Dept of Agriculture #: S-76505 Wisconsin Certification #: 405132750



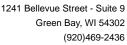


SAMPLE SUMMARY

Project: WEBSTER/ WDOT

Pace Project No.: 4094322

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4094322001	GP-1, S-4	Solid	04/07/14 08:45	04/07/14 16:10
4094322002	GP-2, S-3	Solid	04/07/14 09:00	04/07/14 16:10
4094322003	GP-2, S-6	Solid	04/07/14 09:00	04/07/14 16:10
4094322004	GP-3, S-3	Solid	04/07/14 10:30	04/07/14 16:10
4094322005	GP-3, S-5	Solid	04/07/14 10:40	04/07/14 16:10
4094322006	GP-4, S-5	Solid	04/07/14 10:50	04/07/14 16:10
4094322007	GP-5, S-3	Solid	04/07/14 11:10	04/07/14 16:10
4094322008	GP-5, S-5	Solid	04/07/14 11:15	04/07/14 16:10
4094322009	GP-6, S-3	Solid	04/07/14 11:20	04/07/14 16:10
4094322010	GP-6, S-5	Solid	04/07/14 11:25	04/07/14 16:10
4094322011	GP-7, S-3	Solid	04/07/14 11:40	04/07/14 16:10
4094322012	GP-7, S-5	Solid	04/07/14 11:45	04/07/14 16:10





SAMPLE ANALYTE COUNT

Project: WEBSTER/ WDOT

Pace Project No.: 4094322

ASTM D2974-87 AH 1 PASI-G 4094322002 GP-2, S-3 WI MOD GRO MRS 10 PASI-G 4094322003 GP-2, S-6 WI MOD GRO MRS 10 PASI-G 4094322004 GP-3, S-3 WI MOD GRO MRS 10 PASI-G 4094322004 GP-3, S-3 WI MOD GRO MRS 10 PASI-G 4094322005 GP-3, S-5 WI MOD GRO MRS 10 PASI-G 4094322006 GP-4, S-5 WI MOD GRO MRS 10 PASI-G 4094322007 GP-5, S-3 WI MOD GRO MRS 10 PASI-G 4094322007 GP-5, S-3 WI MOD GRO MRS 10 PASI-G 4094322008 GP-5, S-5 WI MOD GRO MRS 10 PASI-G 4094322007 GP-6, S-3 WI MOD GRO MRS 10 PASI-G 4094322008 GP-6, S-5 WI MOD GRO MRS 10 PASI-G 4094322008 GP-6, S-5 WI MOD GRO MRS 10 PASI-G 4094322008 GP-6, S-5 WI MOD GRO MRS 10 PASI-G 4094322008 GP-6, S-5 WI MOD GRO MRS 10 PASI-G 4094322009 GP-6, S-3 WI MOD GRO MRS 10 PASI-G 4094322009 GP-6, S-3 WI MOD GRO MRS 10 PASI-G 4094322009 GP-6, S-3 WI MOD GRO MRS 10 PASI-G 4094322000 GP-6, S-3 WI MOD GRO MRS 10 PASI-G 4094322000 GP-6, S-3 WI MOD GRO MRS 10 PASI-G 4094322000 GP-6, S-3 WI MOD GRO MRS 10 PASI-G 4094322000 GP-6, S-3 WI MOD GRO MRS 10 PASI-G 4094322000 GP-6, S-3 WI MOD GRO MRS 10 PASI-G 4094322000 GP-6, S-3 WI MOD GRO MRS 10 PASI-G 4094322000 GP-6, S-3 WI MOD GRO MRS 10 PASI-G 4094322000 GP-6, S-5 WI MOD GRO MRS 10 PASI-G 4094322000 GP-6, S-5 WI MOD GRO MRS 10 PASI-G 4094322000 GP-6, S-5 WI MOD GRO MRS 10 PASI-G 4094322000 GP-6, S-5 WI MOD GRO MRS 10 PASI-G 4094322000 GP-6, S-5 WI MOD GRO MRS 10 PASI-G 4094322000 GP-6, S-5 WI MOD GRO MRS 10 PASI-G 4094322000 GP-6, S-5 WI MOD GRO MRS 10 PASI-G 4094322000 GP-7, S-3 WI MOD GRO MRS 10 PASI-G	Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
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ASTM D2974-87 AH 1 PASI-G 4094322003 GP-2, S-6 WI MOD GRO MRS 10 PASI-G ASTM D2974-87 AH 1 PASI-G 4094322004 GP-3, S-3 WI MOD GRO MRS 10 PASI-G 4094322005 GP-3, S-5 WI MOD GRO MRS 10 PASI-G 4094322006 GP-4, S-5 WI MOD GRO MRS 10 PASI-G 4094322006 GP-4, S-5 WI MOD GRO MRS 10 PASI-G 4094322007 GP-5, S-3 WI MOD GRO MRS 10 PASI-G 4094322007 GP-5, S-3 WI MOD GRO MRS 10 PASI-G 4094322008 GP-5, S-5 WI MOD GRO MRS 10 PASI-G 4094322008 GP-6, S-5 WI MOD GRO MRS 10 PASI-G 4094322008 GP-6, S-5 WI MOD GRO MRS 10 PASI-G 4094322008 GP-6, S-5 WI MOD GRO MRS 10 PASI-G 4094322009 GP-6, S-3 WI MOD GRO MRS 10 PASI-G 4094322009 GP-6, S-3 WI MOD GRO MRS 10 PASI-G 4094322009 GP-6, S-3 WI MOD GRO MRS 10 PASI-G 4094322000 GP-6, S-5 WI MOD GRO MRS 10 PASI-G 4094322010 GP-6, S-5 WI MOD GRO MRS 10 PASI-G 4094322010 GP-7, S-3 WI MOD GRO MRS 10 PASI-G 4094322011 GP-7, S-3 WI MOD GRO MRS 10 PASI-G 4094322011 GP-7, S-3 WI MOD GRO MRS 10 PASI-G 4094322012 GP-7, S-5 WI MOD GRO MRS 10 PASI-G 4094322012 GP-7, S-5 WI MOD GRO MRS 10 PASI-G 4094322012 GP-7, S-5 WI MOD GRO MRS 10 PASI-G 4094322012 GP-7, S-5 WI MOD GRO MRS 10 PASI-G 4094322012 GP-7, S-5 WI MOD GRO MRS 10 PASI-G 4094322012 GP-7, S-5 WI MOD GRO MRS 10 PASI-G			ASTM D2974-87	AH	1	PASI-G
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ASTM D2974-87 AH 1 PASI-G 4094322005 GP-3, S-5 WI MOD GRO MRS 10 PASI-G 4094322006 GP-4, S-5 WI MOD GRO MRS 10 PASI-G 4094322007 GP-5, S-3 WI MOD GRO MRS 10 PASI-G 4094322008 GP-5, S-5 WI MOD GRO MRS 10 PASI-G 4094322008 GP-5, S-5 WI MOD GRO MRS 10 PASI-G 4094322008 GP-6, S-3 WI MOD GRO MRS 10 PASI-G 4094322009 GP-6, S-3 WI MOD GRO MRS 10 PASI-G 4094322009 GP-6, S-3 WI MOD GRO MRS 10 PASI-G 4094322009 GP-6, S-3 WI MOD GRO MRS 10 PASI-G 4094322010 GP-7, S-3 WI MOD GRO MRS 10 PASI-G 4094322010 GP-7, S-5 WI MOD GRO MRS 10 PASI-G 4094322010 GP-7, S-5 WI MOD GRO MRS 10 PASI-G 4094322011 GP-7, S-3 WI MOD GRO MRS 10 PASI-G 4094322011 GP-7, S-3 WI MOD GRO MRS 10 PASI-G 4094322011 GP-7, S-5 WI MOD GRO MRS 10 PASI-G 4094322012 GP-7, S-5 WI MOD GRO MRS 10 PASI-G			ASTM D2974-87	AH	1	PASI-G
A094322005 GP-3, S-5 WI MOD GRO MRS 10 PASI-G A094322006 GP-4, S-5 WI MOD GRO MRS 10 PASI-G A094322007 GP-5, S-3 WI MOD GRO MRS 10 PASI-G A094322008 GP-5, S-5 WI MOD GRO MRS 10 PASI-G A094322008 GP-5, S-5 WI MOD GRO MRS 10 PASI-G A094322009 GP-6, S-3 WI MOD GRO MRS 10 PASI-G A094322009 GP-6, S-3 WI MOD GRO MRS 10 PASI-G A094322009 GP-6, S-3 WI MOD GRO MRS 10 PASI-G A094322010 GP-6, S-5 WI MOD GRO MRS 10 PASI-G A094322010 GP-7, S-3 WI MOD GRO MRS 10 PASI-G A094322011 GP-7, S-3 WI MOD GRO MRS 10 PASI-G A094322012 GP-7, S-5 WI MOD GRO MRS 10 PASI-G ASTM D2974-87 AH 1 PAS	4094322004	GP-3, S-3	WI MOD GRO	MRS	10	PASI-G
ASTM D2974-87 AH 1 PASI-G 4094322006 GP-4, S-5 WI MOD GRO MRS 10 PASI-G 4094322007 GP-5, S-3 WI MOD GRO MRS 10 PASI-G 4094322008 GP-5, S-5 WI MOD GRO MRS 10 PASI-G 4094322008 GP-6, S-5 WI MOD GRO MRS 10 PASI-G 4094322009 GP-6, S-3 WI MOD GRO MRS 10 PASI-G 4094322009 GP-6, S-3 WI MOD GRO MRS 10 PASI-G 4094322010 GP-6, S-5 WI MOD GRO MRS 10 PASI-G 4094322010 GP-7, S-5 WI MOD GRO MRS 10 PASI-G 4094322010 GP-7, S-5 WI MOD GRO MRS 10 PASI-G 4094322010 GP-7, S-5 WI MOD GRO MRS 10 PASI-G 4094322011 GP-7, S-3 WI MOD GRO MRS 10 PASI-G 4094322012 GP-7, S-5 WI MOD GRO MRS 10 PASI-G 4094322012 GP-7, S-5 WI MOD GRO MRS 10 PASI-G			ASTM D2974-87	AH	1	PASI-G
4094322006 GP-4, S-5 WI MOD GRO MRS 10 PASI-G 4094322007 GP-5, S-3 WI MOD GRO MRS 10 PASI-G 4094322008 GP-5, S-5 WI MOD GRO MRS 10 PASI-G 4094322009 GP-6, S-3 WI MOD GRO MRS 10 PASI-G 4094322010 GP-6, S-5 WI MOD GRO MRS 10 PASI-G 4094322010 GP-6, S-5 WI MOD GRO MRS 10 PASI-G 4094322011 GP-7, S-3 WI MOD GRO MRS 10 PASI-G 4094322012 GP-7, S-5 WI MOD GRO MRS 10 PASI-G 4094322012 GP-7, S-5 WI MOD GRO MRS 10 PASI-G	4094322005	GP-3, S-5	WI MOD GRO	MRS	10	PASI-G
ASTM D2974-87 AH 1 PASI-G 4094322007 GP-5, S-3 WI MOD GRO MRS 10 PASI-G 4094322008 GP-5, S-5 WI MOD GRO MRS 10 PASI-G 4094322009 GP-6, S-3 WI MOD GRO MRS 10 PASI-G 4094322009 GP-6, S-3 WI MOD GRO MRS 10 PASI-G 4094322010 GP-6, S-5 WI MOD GRO MRS 10 PASI-G 4094322010 GP-7, S-5 WI MOD GRO MRS 10 PASI-G 4094322010 GP-7, S-3 WI MOD GRO MRS 10 PASI-G 4094322011 GP-7, S-3 WI MOD GRO MRS 10 PASI-G 4094322012 GP-7, S-5 WI MOD GRO MRS 10 PASI-G 4094322012 GP-7, S-5 WI MOD GRO MRS 10 PASI-G			ASTM D2974-87	AH	1	PASI-G
4094322007 GP-5, S-3 WI MOD GRO ASTM D2974-87 AH 1 PASI-G 4094322008 GP-5, S-5 WI MOD GRO MRS 10 PASI-G ASTM D2974-87 AH 1 PASI-G ASTM D2974-87 AB ASTM D2974-8	4094322006	GP-4, S-5	WI MOD GRO	MRS	10	PASI-G
ASTM D2974-87 AH 1 PASI-G 4094322008 GP-5, S-5 WI MOD GRO MRS 10 PASI-G ASTM D2974-87 AH 1 PASI-G 4094322009 GP-6, S-3 WI MOD GRO MRS 10 PASI-G ASTM D2974-87 AH 1 PASI-G 4094322010 GP-6, S-5 WI MOD GRO MRS 10 PASI-G ASTM D2974-87 AH 1 PASI-G			ASTM D2974-87	AH	1	PASI-G
4094322008 GP-5, S-5 WI MOD GRO MRS 10 PASI-G ASTM D2974-87 AH 1 PASI-G 4094322009 GP-6, S-3 WI MOD GRO MRS 10 PASI-G ASTM D2974-87 AH 1 PASI-G	4094322007	GP-5, S-3	WI MOD GRO	MRS	10	PASI-G
ASTM D2974-87 AH 1 PASI-G 4094322009 GP-6, S-3 WI MOD GRO MRS 10 PASI-G ASTM D2974-87 AH 1 PASI-G 4094322010 GP-6, S-5 WI MOD GRO MRS 10 PASI-G ASTM D2974-87 AH 1 PASI-G 4094322011 GP-7, S-3 WI MOD GRO MRS 10 PASI-G ASTM D2974-87 AH 1 PASI-G ASTM D2974-87 AH 1 PASI-G 4094322012 GP-7, S-5 WI MOD GRO MRS 10 PASI-G			ASTM D2974-87	AH	1	PASI-G
4094322009 GP-6, S-3 WI MOD GRO MRS 10 PASI-G ASTM D2974-87 AH 1 PASI-G 4094322010 GP-6, S-5 WI MOD GRO MRS 10 PASI-G ASTM D2974-87 AH 1 PASI-G 4094322011 GP-7, S-3 WI MOD GRO MRS 10 PASI-G ASTM D2974-87 AH 1 PASI-G ASTM D2974-87 AH 1 PASI-G WI MOD GRO MRS 10 PASI-G WI MOD GRO MRS 10 PASI-G	4094322008	GP-5, S-5	WI MOD GRO	MRS	10	PASI-G
ASTM D2974-87 AH 1 PASI-G 4094322010 GP-6, S-5 WI MOD GRO MRS 10 PASI-G ASTM D2974-87 AH 1 PASI-G 4094322011 GP-7, S-3 WI MOD GRO MRS 10 PASI-G ASTM D2974-87 AH 1 PASI-G ASTM D2974-87 AH 1 PASI-G WI MOD GRO MRS 10 PASI-G 4094322012 GP-7, S-5 WI MOD GRO MRS 10 PASI-G			ASTM D2974-87	AH	1	PASI-G
4094322010 GP-6, S-5 WI MOD GRO MRS 10 PASI-G ASTM D2974-87 AH 1 PASI-G 4094322011 GP-7, S-3 WI MOD GRO MRS 10 PASI-G ASTM D2974-87 AH 1 PASI-G ASTM D2974-87 AH 1 PASI-G 4094322012 GP-7, S-5 WI MOD GRO MRS 10 PASI-G	4094322009	GP-6, S-3	WI MOD GRO	MRS	10	PASI-G
ASTM D2974-87 AH 1 PASI-G 4094322011 GP-7, S-3 WI MOD GRO MRS 10 PASI-G ASTM D2974-87 AH 1 PASI-G 4094322012 GP-7, S-5 WI MOD GRO MRS 10 PASI-G			ASTM D2974-87	AH	1	PASI-G
4094322011 GP-7, S-3 WI MOD GRO MRS 10 PASI-G ASTM D2974-87 AH 1 PASI-G 4094322012 GP-7, S-5 WI MOD GRO MRS 10 PASI-G	4094322010	GP-6, S-5	WI MOD GRO	MRS	10	PASI-G
ASTM D2974-87 AH 1 PASI-G 4094322012 GP-7, S-5 WI MOD GRO MRS 10 PASI-G			ASTM D2974-87	AH	1	PASI-G
4094322012 GP-7, S-5 WI MOD GRO MRS 10 PASI-G	4094322011	GP-7, S-3	WI MOD GRO	MRS	10	PASI-G
·			ASTM D2974-87	AH	1	PASI-G
ASTM D2974-87 AH 1 PASI-G	4094322012	GP-7, S-5	WI MOD GRO	MRS	10	PASI-G
			ASTM D2974-87	AH	1	PASI-G





PROJECT NARRATIVE

Project: WEBSTER/ WDOT

Pace Project No.: 4094322

Method: WI MOD GRO
Description: WIGRO GCV
Client: Mach IV Engineering
Date: April 17, 2014

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

Analyte Comments:

QC Batch: GCV/12154

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GP-2, S-3 (Lab ID: 4094322002)
 - a,a,a-Trifluorotoluene (S)

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



ANALYTICAL RESULTS

Project: WEBSTER/ WDOT

Pace Project No.: 4094322

Percent Moisture

Percent Moisture

Date: 04/17/2014 09:26 AM

Sample: GP-1, S-4 Lab ID: 4094322001 Collected: 04/07/14 08:45 Received: 04/07/14 16:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pi	eparation I	Method	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0 ∪	ıg/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 19:05	71-43-2	W
Ethylbenzene	<25.0 ∪	ıg/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 19:05	100-41-4	W
Methyl-tert-butyl ether	<25.0 ∪	ıg/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 19:05	1634-04-4	W
Naphthalene	<25.0 ∪		60.0	25.0	1	04/09/14 06:20	04/09/14 19:05	91-20-3	W
Toluene	<25.0 ∪	ıg/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 19:05	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 ∪	ıg/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 19:05	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 ∪	ıg/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 19:05	108-67-8	W
m&p-Xylene	<50.0 ∪		120	50.0	1	04/09/14 06:20	04/09/14 19:05	179601-23-1	W
o-Xylene	<25.0 ∪		60.0	25.0	1	04/09/14 06:20	04/09/14 19:05	95-47-6	W
Surrogates		3 3							
a,a,a-Trifluorotoluene (S)	102 %	%	80-120		1	04/09/14 06:20	04/09/14 19:05	98-08-8	
Percent Moisture	Analytical	Method: AST	ΓM D2974-87						
Percent Moisture	8.0 %	%	0.10	0.10	1		04/16/14 16:34		
Sample: GP-2, S-3 Results reported on a "dry-we		4094322002	2 Collected	d: 04/07/14	4 09:00	Received: 04/	/07/14 16:10 Ma	atrix: Solid	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pi	eparation I	Method	: TPH GRO/PVO	C WI ext.		
Benzene	<50.0 u	ıg/kg	120	50.0	2	04/09/14 06:20	04/09/14 19:34	71-43-2	W
Ethylbenzene	155 ւ	ıg/kg	143	59.4	2	04/09/14 06:20	04/09/14 19:34	100-41-4	
Methyl-tert-butyl ether	<50.0 ∪		120	50.0	2	04/09/14 06:20	04/09/14 19:34	1634-04-4	W
Naphthalene	3230 u		143	59.4	2	04/09/14 06:20	04/09/14 19:34	91-20-3	
Toluene	<50.0 ∪		120	50.0	2	04/09/14 06:20	04/09/14 19:34	108-88-3	W
1,2,4-Trimethylbenzene	1220 u		143	59.4	2	04/09/14 06:20	04/09/14 19:34	95-63-6	
1,3,5-Trimethylbenzene	424 u	0 0	143	59.4	2	04/09/14 06:20	04/09/14 19:34	108-67-8	
m&p-Xylene	522 (0 0	285	119	2	04/09/14 06:20	04/09/14 19:34	179601-23-1	
o-Xylene Surrogates	211 (143	59.4	2	04/09/14 06:20			
a,a,a-Trifluorotoluene (S)	101 9	%	80-120		2	04/09/14 06:20	04/09/14 19:34	98-08-8	D3

REPORT OF LABORATORY ANALYSIS

0.10

0.10

1

04/16/14 16:34

Analytical Method: ASTM D2974-87

15.9 %



ANALYTICAL RESULTS

Project: WEBSTER/ WDOT

Pace Project No.: 4094322

Date: 04/17/2014 09:26 AM

Sample: GP-2, S-6 Lab ID: 4094322003 Collected: 04/07/14 09:00 Received: 04/07/14 16:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
WIGRO GCV	Analytica	al Method: WI M	OD GRO P	reparation I	Method	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 13:50	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 13:50	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 13:50	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 13:50	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 13:50	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 13:50	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 13:50	108-67-8	W
n&p-Xylene	<50.0	ug/kg	120	50.0	1	04/09/14 06:20	04/09/14 13:50	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 13:50	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	04/09/14 06:20	04/09/14 13:50	98-08-8	
Percent Moisture	Analytica	al Method: ASTN	1 D2974-87						
Percent Moisture	10.2	%	0.10	0.10	1		04/16/14 16:34		
Sample: GP-3, S-3	Lab ID:	4094322004	Collecte	d: 04/07/14	1 10:30	Received: 04/	07/14 16:10 Ma	atrix: Solid	
Results reported on a "dry-we	eight" basis								
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
WIGRO GCV	Analytica	al Method: WI M	OD GRO P	reparation I	Method	: TPH GRO/PVO	C WI ext.		
Benzene	<35.7	ug/kg	85.7	35.7	1	04/09/14 06:20	04/09/14 13:21	71-43-2	W
Ethylbenzene	<35.7		85.7	35.7	1	04/09/14 06:20	04/09/14 13:21	100-41-4	W
Methyl-tert-butyl ether	<35.7		85.7	35.7	1	04/09/14 06:20	04/09/14 13:21	1634-04-4	W
Naphthalene	<35.7		85.7	35.7	1	04/09/14 06:20	04/09/14 13:21	91-20-3	W

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO P	reparation N	/lethod	I: TPH GRO/PVO	C WI ext.		
Benzene	<35.7 u	ıg/kg	85.7	35.7	1	04/09/14 06:20	04/09/14 13:21	71-43-2	W
Ethylbenzene	<35.7 ∪	ıg/kg	85.7	35.7	1	04/09/14 06:20	04/09/14 13:21	100-41-4	W
Methyl-tert-butyl ether	<35.7 ∪	ıg/kg	85.7	35.7	1	04/09/14 06:20	04/09/14 13:21	1634-04-4	W
Naphthalene	<35.7 ∪	ıg/kg	85.7	35.7	1	04/09/14 06:20	04/09/14 13:21	91-20-3	W
Toluene	<35.7 ∪	ıg/kg	85.7	35.7	1	04/09/14 06:20	04/09/14 13:21	108-88-3	W
1,2,4-Trimethylbenzene	<35.7 ∪	ıg/kg	85.7	35.7	1	04/09/14 06:20	04/09/14 13:21	95-63-6	W
1,3,5-Trimethylbenzene	<35.7 ∪	ıg/kg	85.7	35.7	1	04/09/14 06:20	04/09/14 13:21	108-67-8	W
m&p-Xylene	<71.4 ∪	ıg/kg	171	71.4	1	04/09/14 06:20	04/09/14 13:21	179601-23-1	W
o-Xylene	<35.7 ∪	ıg/kg	85.7	35.7	1	04/09/14 06:20	04/09/14 13:21	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101 %	6	80-120		1	04/09/14 06:20	04/09/14 13:21	98-08-8	
Percent Moisture	Analytical	Method: AS	ΓM D2974-87						
Percent Moisture	12.8 %	6	0.10	0.10	1		04/16/14 16:35		



Project: WEBSTER/ WDOT

Pace Project No.: 4094322

Date: 04/17/2014 09:26 AM

Sample: GP-3, S-5 Lab ID: 4094322005 Collected: 04/07/14 10:40 Received: 04/07/14 16:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
WIGRO GCV	Analytica	l Method: WI M	IOD GRO Pre	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0 (ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:13	71-43-2	W
Ethylbenzene	<25.0 ∪	ıg/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:13	100-41-4	W
Methyl-tert-butyl ether	<25.0 ∪	ıg/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:13	1634-04-4	W
Naphthalene	<25.0 ∪	ıg/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:13	91-20-3	W
Toluene	<25.0 ∪	ıg/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:13	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 ∪	ıg/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:13	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 ∪	ıg/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:13	108-67-8	W
m&p-Xylene	<50.0 ∪	ıg/kg	120	50.0	1	04/09/14 06:20	04/09/14 16:13	179601-23-1	W
o-Xylene Surrogates	<25.0 (ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:13	95-47-6	W
a,a,a-Trifluorotoluene (S)	101 9	%	80-120		1	04/09/14 06:20	04/09/14 16:13	98-08-8	
Percent Moisture	Analytica	I Method: ASTI	M D2974-87						
Percent Moisture	9.1	%	0.10	0.10	1		04/16/14 16:35		
Sample: GP-4, S-5	Lab ID:	4094322006	Collected	: 04/07/14	10:50	Received: 04/	07/14 16:10 Ma	atrix: Solid	
Results reported on a "dry-we	ight" basis								
Parameters	Rosults		100	LOD					

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pi	eparation N	/lethod	: TPH GRO/PVOC	C WI ext.		
Benzene	<25.0 u	g/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:42	71-43-2	W
Ethylbenzene	<25.0 u	g/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:42	100-41-4	W
Methyl-tert-butyl ether	<25.0 u	g/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:42	1634-04-4	W
Naphthalene	<25.0 u	g/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:42	91-20-3	W
Toluene	<25.0 u	g/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:42	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 u	g/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:42	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 u	g/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:42	108-67-8	W
m&p-Xylene	<50.0 u	g/kg	120	50.0	1	04/09/14 06:20	04/09/14 16:42	179601-23-1	W
o-Xylene Surrogates	<25.0 u	g/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:42	95-47-6	W
a,a,a-Trifluorotoluene (S)	101 %	6	80-120		1	04/09/14 06:20	04/09/14 16:42	98-08-8	
Percent Moisture	Analytical	Method: AST	ΓM D2974-87						
Percent Moisture	11.0 %	6	0.10	0.10	1		04/16/14 16:35		



Project: WEBSTER/ WDOT

Pace Project No.: 4094322

Date: 04/17/2014 09:26 AM

Sample: GP-5, S-3 Lab ID: 4094322007 Collected: 04/07/14 11:10 Received: 04/07/14 16:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytica	al Method: WI M	OD GRO P	reparation I	Method	I: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 11:55	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 11:55	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 11:55	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 11:55	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 11:55	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 11:55	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 11:55	108-67-8	W
m&p-Xylene	<50.0		120	50.0	1	04/09/14 06:20	04/09/14 11:55	179601-23-1	W
o-Xylene Surrogates	<25.0		60.0	25.0	1	04/09/14 06:20	04/09/14 11:55	95-47-6	W
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	04/09/14 06:20	04/09/14 11:55	98-08-8	
Percent Moisture	Analytica	al Method: ASTN	1 D2974-87						
Percent Moisture	11.7	%	0.10	0.10	1		04/16/14 16:35		
Sample: GP-5, S-5	Lab ID:	4094322008	Collected	d: 04/07/14	1 11:15	Received: 04/	/07/14 16:10 Ma	atrix: Solid	
Results reported on a "dry-we	eight" basis								
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytica	al Method: WI M	OD GRO P	reparation I	Method	: TPH GRO/PVO	C WI ext.		
Benzene	-25 0 ⋅		60.0	25.0	4	04/00/14 06:20	04/09/14 10:57	71 12 2	۱۸/

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical M	ethod: WI MOI	D GRO F	Preparation	Method	I: TPH GRO/PVO	C WI ext.		
Benzene	<25.0 ug/l	kg	60.0	25.0	1	04/09/14 06:20	04/09/14 10:57	71-43-2	W
Ethylbenzene	<25.0 ug/l	kg	60.0	25.0	1	04/09/14 06:20	04/09/14 10:57	100-41-4	W
Methyl-tert-butyl ether	<25.0 ug/l	kg	60.0	25.0	1	04/09/14 06:20	04/09/14 10:57	1634-04-4	W
Naphthalene	<25.0 ug/l	kg	60.0	25.0	1	04/09/14 06:20	04/09/14 10:57	91-20-3	W
Toluene	<25.0 ug/l	kg	60.0	25.0	1	04/09/14 06:20	04/09/14 10:57	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 ug/l	kg	60.0	25.0	1	04/09/14 06:20	04/09/14 10:57	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 ug/l	kg	60.0	25.0	1	04/09/14 06:20	04/09/14 10:57	108-67-8	W
m&p-Xylene	<50.0 ug/l	kg	120	50.0	1	04/09/14 06:20	04/09/14 10:57	179601-23-1	W
o-Xylene	<25.0 ug/l	kg	60.0	25.0	1	04/09/14 06:20	04/09/14 10:57	95-47-6	W
Surrogates	•								
a,a,a-Trifluorotoluene (S)	101 %		80-120		1	04/09/14 06:20	04/09/14 10:57	98-08-8	
Percent Moisture	Analytical M	ethod: ASTM [02974-87						
Percent Moisture	11.0 %		0.10	0.10	1		04/16/14 16:35		



Project: WEBSTER/ WDOT

Pace Project No.: 4094322

Percent Moisture

Percent Moisture

Date: 04/17/2014 09:26 AM

Sample: GP-6, S-3 Lab ID: 4094322009 Collected: 04/07/14 11:20 Received: 04/07/14 16:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.			
Benzene	<25.0 ∪	ıg/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 15:44	71-43-2	W	
Ethylbenzene	<25.0 ∪	ıg/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 15:44	100-41-4	W	
Methyl-tert-butyl ether	<25.0 ∪	ıg/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 15:44	1634-04-4	W	
Naphthalene	<25.0 ∪	ıg/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 15:44	91-20-3	W	
Toluene	<25.0 ∪	ıg/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 15:44	108-88-3	W	
1,2,4-Trimethylbenzene	<25.0 ∪	ıg/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 15:44	95-63-6	W	
1,3,5-Trimethylbenzene	<25.0 ∪	ıg/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 15:44	108-67-8	W	
m&p-Xylene	<50.0 ∪	ıg/kg	120	50.0	1	04/09/14 06:20	04/09/14 15:44	179601-23-1	W	
o-Xylene	<25.0 ∪	ıg/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 15:44	95-47-6	W	
Surrogates										
a,a,a-Trifluorotoluene (S)	101 %	6	80-120		1	04/09/14 06:20	04/09/14 15:44	98-08-8		
Percent Moisture	Analytical	Analytical Method: ASTM D2974-87								
Percent Moisture	12.3 %	/6	0.10	0.10	1		04/16/14 16:54			
r creent worstare	, ,		00							
		4094322010		l: 04/07/14	11:25	Received: 04/	07/14 16:10 Ma	atrix: Solid		
Sample: GP-6, S-5	Lab ID:			d: 04/07/14	11:25	Received: 04/	07/14 16:10 Ma	atrix: Solid		
Sample: GP-6, S-5	Lab ID:			d: 04/07/14	l 11:25 DF	Received: 04/	07/14 16:10 Ma	atrix: Solid CAS No.	Qua	
Sample: GP-6, S-5 Results reported on a "dry-we	Lab ID: eight" basis Results	4094322010 Units	Collected	LOD	DF		Analyzed		Qua	
Sample: GP-6, S-5 Results reported on a "dry-we Parameters WIGRO GCV	Lab ID: eight" basis Results	4094322010 Units Method: WI	Collected	LOD	DF	Prepared	Analyzed	CAS No.	Qua W	
Sample: GP-6, S-5 Results reported on a "dry-we Parameters WIGRO GCV Benzene	Lab ID: eight" basis Results Analytical	Units Method: WI	LOQ MOD GRO Pr	LOD -	DF Method	Prepared:	Analyzed WI ext.	CAS No.		
Sample: GP-6, S-5 Results reported on a "dry-wee Parameters WIGRO GCV Benzene Ethylbenzene	Lab ID: eight" basis Results Analytical	Units Method: WI ling/kg	LOQ MOD GRO Pr	LOD	DF Method	Prepared : TPH GRO/PVOC 04/09/14 06:20	Analyzed WI ext. 04/09/14 18:08	CAS No. 71-43-2 100-41-4	W	
Sample: GP-6, S-5 Results reported on a "dry-wee Parameters WIGRO GCV Benzene Ethylbenzene Methyl-tert-butyl ether	Lab ID: eight" basis Results Analytical <25.0 to <25.0 to	Units Units Method: WI I	LOQ MOD GRO Pr 60.0 60.0	LOD	DF Method 1 1	Prepared : TPH GRO/PVO0 04/09/14 06:20 04/09/14 06:20	Analyzed WI ext. 04/09/14 18:08 04/09/14 18:08 04/09/14 18:08	CAS No. 71-43-2 100-41-4 1634-04-4	W W	
Sample: GP-6, S-5 Results reported on a "dry-wee Parameters WIGRO GCV Benzene Ethylbenzene Methyl-tert-butyl ether Naphthalene	Lab ID: eight" basis Results Analytical <25.0 t <25.0 t <25.0 t <25.0 t	Units Units Method: WI I	LOQ	LOD	DF Method 1 1 1	Prepared : TPH GRO/PVOC 04/09/14 06:20 04/09/14 06:20 04/09/14 06:20	Analyzed WI ext. 04/09/14 18:08 04/09/14 18:08 04/09/14 18:08	CAS No. 71-43-2 100-41-4 1634-04-4 91-20-3	W W W	
Sample: GP-6, S-5 Results reported on a "dry-wee Parameters WIGRO GCV Benzene Ethylbenzene Methyl-tert-butyl ether Naphthalene Toluene	Lab ID: eight" basis Results Analytical <25.0 t <25.0 t <25.0 t <25.0 t <25.0 t	Units Units Method: WI I Ig/kg Ig/kg Ig/kg Ig/kg Ig/kg Ig/kg Ig/kg	LOQ	LOD	DF Nethod 1 1 1 1	Prepared : TPH GRO/PVOC 04/09/14 06:20 04/09/14 06:20 04/09/14 06:20 04/09/14 06:20	Analyzed WI ext. 04/09/14 18:08 04/09/14 18:08 04/09/14 18:08 04/09/14 18:08 04/09/14 18:08	71-43-2 100-41-4 1634-04-4 91-20-3 108-88-3	W W W	
Sample: GP-6, S-5 Results reported on a "dry-wee Parameters WIGRO GCV Benzene Ethylbenzene Methyl-tert-butyl ether Naphthalene Toluene 1,2,4-Trimethylbenzene	Lab ID: eight" basis Results Analytical <25.0 t	Units Units Method: WI I Ig/kg Ig/kg Ig/kg Ig/kg Ig/kg Ig/kg Ig/kg Ig/kg Ig/kg	Collected LOQ MOD GRO Pr 60.0 60.0 60.0 60.0 60.0	LOD	DF Method 1 1 1 1	Prepared : TPH GRO/PVO0 04/09/14 06:20 04/09/14 06:20 04/09/14 06:20 04/09/14 06:20 04/09/14 06:20	Analyzed C WI ext. 04/09/14 18:08 04/09/14 18:08 04/09/14 18:08 04/09/14 18:08 04/09/14 18:08 04/09/14 18:08	CAS No. 71-43-2 100-41-4 1634-04-4 91-20-3 108-88-3 95-63-6	W W W W	
Sample: GP-6, S-5 Results reported on a "dry-wee Parameters WIGRO GCV Benzene Ethylbenzene Methyl-tert-butyl ether Naphthalene Toluene 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene	Lab ID: eight" basis Results Analytical <25.0 t <25.0 t <25.0 t <25.0 t <25.0 t	Units Units Method: WI I Ig/kg	Collected LOQ MOD GRO Pr 60.0 60.0 60.0 60.0 60.0 60.0	LOD 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	DF Method 1 1 1 1 1	Prepared : TPH GRO/PVOC 04/09/14 06:20 04/09/14 06:20 04/09/14 06:20 04/09/14 06:20 04/09/14 06:20 04/09/14 06:20	Analyzed C WI ext. 04/09/14 18:08 04/09/14 18:08 04/09/14 18:08 04/09/14 18:08 04/09/14 18:08	CAS No. 71-43-2 100-41-4 1634-04-4 91-20-3 108-88-3 95-63-6 108-67-8	W W W W W	
Sample: GP-6, S-5 Results reported on a "dry-wee Parameters WIGRO GCV Benzene Ethylbenzene Methyl-tert-butyl ether Naphthalene Toluene 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene m&p-Xylene	Lab ID: eight" basis Results Analytical <25.0 t <50.0 t	Units Units Method: WI I Ig/kg	Collected LOQ MOD GRO Pr 60.0 60.0 60.0 60.0 60.0 60.0 60.0	LOD 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	DF Method 1 1 1 1 1 1 1 1	Prepared : TPH GRO/PVOC 04/09/14 06:20 04/09/14 06:20 04/09/14 06:20 04/09/14 06:20 04/09/14 06:20 04/09/14 06:20 04/09/14 06:20	Analyzed C WI ext. 04/09/14 18:08 04/09/14 18:08 04/09/14 18:08 04/09/14 18:08 04/09/14 18:08 04/09/14 18:08 04/09/14 18:08	CAS No. 71-43-2 100-41-4 1634-04-4 91-20-3 108-88-3 95-63-6 108-67-8 179601-23-1	W W W W W	
Sample: GP-6, S-5 Results reported on a "dry-we	Lab ID: eight" basis Results Analytical <25.0 t Units Units Method: WI I Ig/kg	Collected LOQ MOD GRO Pr 60.0 60.0 60.0 60.0 60.0 60.0 120	LOD 25.0 25.0 25.0 25.0 25.0 25.0 25.0 50.0	DF Method 1 1 1 1 1 1 1 1	Prepared : TPH GRO/PVOC 04/09/14 06:20 04/09/14 06:20 04/09/14 06:20 04/09/14 06:20 04/09/14 06:20 04/09/14 06:20 04/09/14 06:20 04/09/14 06:20	Analyzed C WI ext. 04/09/14 18:08 04/09/14 18:08 04/09/14 18:08 04/09/14 18:08 04/09/14 18:08 04/09/14 18:08 04/09/14 18:08	CAS No. 71-43-2 100-41-4 1634-04-4 91-20-3 108-88-3 95-63-6 108-67-8 179601-23-1	W W W W W W		

REPORT OF LABORATORY ANALYSIS

0.10

0.10

1

04/16/14 16:54

Analytical Method: ASTM D2974-87

11.1 %



Project: WEBSTER/ WDOT

Pace Project No.: 4094322

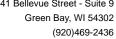
Date: 04/17/2014 09:26 AM

Sample: GP-7, S-3 Lab ID: 4094322011 Collected: 04/07/14 11:40 Received: 04/07/14 16:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical M	ethod: WI MC	D GRO Pro	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0 ug/l	кg	60.0	25.0	1	04/09/14 06:20	04/09/14 12:52	71-43-2	W
Ethylbenzene	<25.0 ug/l	kg	60.0	25.0	1	04/09/14 06:20	04/09/14 12:52	100-41-4	W
Methyl-tert-butyl ether	<25.0 ug/l	kg	60.0	25.0	1	04/09/14 06:20	04/09/14 12:52	1634-04-4	W
Naphthalene	<25.0 ug/l	kg	60.0	25.0	1	04/09/14 06:20	04/09/14 12:52	91-20-3	W
Toluene	<25.0 ug/l	kg	60.0	25.0	1	04/09/14 06:20	04/09/14 12:52	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 ug/l	-	60.0	25.0	1	04/09/14 06:20	04/09/14 12:52	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 ug/l	kg	60.0	25.0	1	04/09/14 06:20	04/09/14 12:52	108-67-8	W
m&p-Xylene	<50.0 ug/l	kg	120	50.0	1	04/09/14 06:20	04/09/14 12:52	179601-23-1	W
o-Xylene	<25.0 ug/l	kg	60.0	25.0	1	04/09/14 06:20	04/09/14 12:52	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101 %		80-120		1	04/09/14 06:20	04/09/14 12:52	98-08-8	
Percent Moisture	Analytical M	ethod: ASTM	D2974-87						
Percent Moisture	13.7 %		0.10	0.10	1		04/16/14 16:54		
Sample: GP-7, S-5	Lab ID: 4	094322012	Collected	: 04/07/14	11:45	Received: 04/	07/14 16:10 Ma	atrix: Solid	
Results reported on a "dry-we	ight" basis								

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI I	MOD GRO Pi	eparation N	/lethod	: TPH GRO/PVOC	C WI ext.		
Benzene	<25.0 ug	g/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:37	71-43-2	W
Ethylbenzene	<25.0 ug	g/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:37	100-41-4	W
Methyl-tert-butyl ether	<25.0 ug	g/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:37	1634-04-4	W
Naphthalene	<25.0 ug	g/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:37	91-20-3	W
Toluene	<25.0 ug	g/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:37	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 ug	g/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:37	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 ug	g/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:37	108-67-8	W
m&p-Xylene	<50.0 ug	g/kg	120	50.0	1	04/09/14 06:20	04/09/14 18:37	179601-23-1	W
o-Xylene	<25.0 ug	g/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:37	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101 %)	80-120		1	04/09/14 06:20	04/09/14 18:37	98-08-8	
Percent Moisture	Analytical	Method: AST	M D2974-87						
Percent Moisture	10.7 %)	0.10	0.10	1		04/16/14 16:54		





QUALITY CONTROL DATA

Project: WEBSTER/ WDOT

Pace Project No.: 4094322

Date: 04/17/2014 09:26 AM

QC Batch: GCV/12154 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV

Associated Lab Samples: 4094322001, 4094322002, 4094322003, 4094322004, 4094322005, 4094322006, 4094322007, 4094322008,

4094322009, 4094322010, 4094322011, 4094322012

METHOD BLANK: 952418 Matrix: Solid

Associated Lab Samples: 4094322001, 4094322002, 4094322003, 4094322004, 4094322005, 4094322006, 4094322007, 4094322008,

4094322009, 4094322010, 4094322011, 4094322012

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	04/09/14 09:03	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	04/09/14 09:03	
Benzene	ug/kg	<10.0	50.0	04/09/14 09:03	
Ethylbenzene	ug/kg	<25.0	50.0	04/09/14 09:03	
m&p-Xylene	ug/kg	<50.0	100	04/09/14 09:03	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	04/09/14 09:03	
Naphthalene	ug/kg	<25.0	50.0	04/09/14 09:03	
o-Xylene	ug/kg	<25.0	50.0	04/09/14 09:03	
Toluene	ug/kg	<25.0	50.0	04/09/14 09:03	
a,a,a-Trifluorotoluene (S)	%	102	80-120	04/09/14 09:03	

LABORATORY CONTROL SAME	PLE & LCSD: 952419		95	52420						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	951	1030	95	103	80-120	8	20	
1,3,5-Trimethylbenzene	ug/kg	1000	945	1020	95	102	80-120	8	20	
Benzene	ug/kg	1000	993	1050	99	105	80-120	6	20	
Ethylbenzene	ug/kg	1000	1010	1080	101	108	80-120	7	20	
m&p-Xylene	ug/kg	2000	2020	2180	101	109	80-120	7	20	
Methyl-tert-butyl ether	ug/kg	1000	994	1040	99	104	80-120	5	20	
Naphthalene	ug/kg	1000	1030	1110	103	111	80-120	8	20	
o-Xylene	ug/kg	1000	988	1070	99	107	80-120	8	20	
Toluene	ug/kg	1000	1010	1070	101	107	80-120	7	20	
a,a,a-Trifluorotoluene (S)	%				100	101	80-120			

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QUALITY CONTROL DATA

Project: WEBSTER/ WDOT

Pace Project No.: 4094322

QC Batch: PMST/9572 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 4094322001, 4094322002, 4094322003, 4094322004, 4094322005, 4094322006, 4094322007, 4094322008

SAMPLE DUPLICATE: 956685

Date: 04/17/2014 09:26 AM

Percent Moisture

4094322001 Dup Max
Result Result RPD Qualifiers

7.9 1 10

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QUALITY CONTROL DATA

Project: WEBSTER/ WDOT

Pace Project No.: 4094322

QC Batch: PMST/9573 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 4094322009, 4094322010, 4094322011, 4094322012

SAMPLE DUPLICATE: 956735

Date: 04/17/2014 09:26 AM

Percent Moisture

4094322010
Result
Result
Result
Result
RPD
AAA
RPD
Qualifiers

7 10

(920)469-2436



QUALIFIERS

Project: WEBSTER/ WDOT

Pace Project No.: 4094322

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

Date: 04/17/2014 09:26 AM

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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

(920)469-2436



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WEBSTER/ WDOT

Pace Project No.: 4094322

Date: 04/17/2014 09:26 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4094322001	GP-1, S-4	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322002	GP-2, S-3	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322003	GP-2, S-6	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322004	GP-3, S-3	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322005	GP-3, S-5	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322006	GP-4, S-5	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322007	GP-5, S-3	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322008	GP-5, S-5	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322009	GP-6, S-3	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322010	GP-6, S-5	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322011	GP-7, S-3	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322012	GP-7, S-5	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322001	GP-1, S-4	ASTM D2974-87	PMST/9572		
4094322002	GP-2, S-3	ASTM D2974-87	PMST/9572		
4094322003	GP-2, S-6	ASTM D2974-87	PMST/9572		
4094322004	GP-3, S-3	ASTM D2974-87	PMST/9572		
4094322005	GP-3, S-5	ASTM D2974-87	PMST/9572		
4094322006	GP-4, S-5	ASTM D2974-87	PMST/9572		
4094322007	GP-5, S-3	ASTM D2974-87	PMST/9572		
4094322008	GP-5, S-5	ASTM D2974-87	PMST/9572		
4094322009	GP-6, S-3	ASTM D2974-87	PMST/9573		
4094322010	GP-6, S-5	ASTM D2974-87	PMST/9573		
4094322011	GP-7, S-3	ASTM D2974-87	PMST/9573		
4094322012	GP-7, S-5	ASTM D2974-87	PMST/9573		

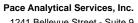
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Branch/Loca	tion:] /		e ace		l lytical " ecelebs.com			/)			۷	10943	322 E
Project Conta	act: Chad Fragletto] /			·				C	10		Quote #:				age 17 SC 2
Phone:	970 6150019			C	H	MIA	OF C	US	TO	DY			Mail To Contact:				
Project Numb	per:		A=No		HCL C=		*Preservation C D=HNO3 E=0		F=Methar	ol G=Na	аОН		Mail To Company:	n	had	hlv 9	ng.
Project Name	" Webster WDO.T		H=S	odium Bisul	fate Soluti	ion	I=Sodium Thios	ulfate .	J≕Other				Mail To Address:	1	M N.	Broadu	19 July 11 54303
Project State	: WI-PECFA			RED? S/NO)	Y/N	_								6	reen i	Barg, WI	,54303
Sampled By (Print): Chad M Fradele	/		RVATION DE)*	Pick Letter	F							Invoice To Contact:				
Sampled By (Sign): Ond Mark					4							Invoice To Company:				
PO #:		egulatory Program:			Requested	3							Invoice To Address:				
	ge Options MS/MSD		trix Codes	3	in be	147											
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☐ EP/	A Level IV NOT needed on S =	Soil	SW = Surfac		Analyses	Ğ							CLIENT	IA	B COM	IMENTS	Profile #
PACE LAB#	CLIENT FIELD ID	Sludge COLL DATE	WP = Wipe ECTION TIME	MATRIX	₹	C							COMMENTS	i		e Only)	T TOING W
001	6P-1-5-4	4/7/14	 	5		×								1-4	Only F	1-40	76h
002	6P-2,5-3	4/7/14	10900	3		シ								1		ì	* /
003	GP-2, 5-6	4/7/4	0900	5		X											
004	6P-3,5-3	· · · · · · · · · · · · · · · · · · ·	1030	5		X										ľ	
005	GP-3, 5-5	4/7/14	1640	5		X											
006	6P-4, S-5	4/7/4	1050	5		χ											
007	6P-5, S-3	4/7/1	1	5		乂											
20 k	6P-55-5-5	4/7/1	1115	5		X											
009	6P-6, S-3	4/7/14	11/20	5		ン											
010	6P-6,5-5	4/7/14	(125	5		X											
011	6P-775-3		1140	5		صر											
012	OP-7, 5-5	4/7/1	1145	5		X								1	7	1	<i>\\</i>
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	maround Time Requested - Prelims FAT subject to approval/surcharge)	Relin	nguished By:	II In	Z J.		Date/time	rel 1	400	Received	Wy.		Date/Time:	111	120	PACE Pro	ject No.
(INUSII	Date Needed:	Relin	nquished By:	<u> </u>	1		Date/Time	.7	,	Pacok od			Date/Time;	140	70	409	4322
Transmit Pre Email #1:	lim Rush Results by (complete what you war	···	nguished By:	LA	LYGJI			7 ,	10pm	-		7	· 41711	-/ ((Ol Rec	eipt Temp =	Dd1°C
Email #2:		Rein	iquisited by:	· // ·	•		Date/Time	•		Received	DУ:		Date/Time:		-	Sample Re	ceipt pH
Telephone:		Relin	quished By:				Date/Time			Received	Ву:		Date/Time:			OK / Ad	justed
Fax:	LIOL D															Cooler Cus	
	samples on HOLD are subject to icial pricing and release of liability	Relir	quished By:				Date/Time			Received	By:		Date/Time:		awaninawa a	Present / No Intact / No	
					***	***************************************	·····								Versi	on 6.0 06/14/06	

Sample Condition Upon Receipt

Pace Analytical Services, Inc. 1241 Bellevue Street, Suite 9 Green Bay, W 54302

Pace Analytical[™]

			Project	WO#:40	7013	22
Client Name: Mach IV				MO# - 40	<i>y</i> 343) <u></u>
Courler: Fed Ex UPS Client Pa	ce Other:	•				
Tracking #:			_	4094322		i ■III
Custody Seal on Cooler/Box Present: Tyes			「 yes □ no			
Custody Seal on Samples Present: yes ?		intact:	□ yes □ no			
Packing Material: Bubble Wrap Bub			****		***************************************	***************************************
Cooler Temperature Uncorr: RO //Corr:			Blue Dry None gical Tissue is Fr	•	ice, cooling	process has begun
Temp Blank Present: Tyes Fno		Βισισί	gical lissue is Fr	ozen: i ; yes i no	·	
Temp should be above freezing to 6°C for all sample ex	cont Dinto			, no	Person (Date:	examining contents:
Frozen Biota Samples should be received < 0°C.	ссері віота.		Comments:		Initials:	95
Chain of Custody Present:	—□Yes □No	□n/a	1.			
Chain of Custody Filled Out:	ØYes □No	□N/A	2.			
Chain of Custody Relinquished:	DYes □No	□N/A	3			
Sampler Name & Signature on COC:	□Yes □No	□N/A	4.			
Samples Arrived within Hold Time:	Yes 🗆 No	□N/A	5.			
 VOA Samples frozen upon receipt 	□Yes □No	ļ	Date/Time:			
Short Hold Time Analysis (<72hr):	□Yes □No	□N/A	6.		***************************************	
Rush Turn Around Time Requested:	□Yes □No I	□N/A	7.			
Sufficient Volume:	ÆYes □No	□n/A (8.			HAVOUR
Correct Containers Used:	ØYes □No I	□N/A S	9.			
-Pace Containers Used:	Yes ONo	□n/A				
-Pace IR Containers Used:	□Yes □No ,4	ÐN/A				
Containers Intact:		□N/A ·	10.		***************************************	***************************************
Filtered volume received for Dissolved tests	□Yes □Ng 1	JN/A	11.		***************************************	
Sample Labels match COC: 4-7-14	71) Yes 2000 [JN/A -	12. 05 406		honle	
-Includes date/time/ID/Analysis Matrix:	<u> </u>		O. 1	lectings water	Morle	8 4-7-14 811
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	□Yes □No T	SN/A	13. T HNO3	В Г H2SO4 Г	NaOH [NaOH +ZnAct
All containers needing preservation are found to be in			13,		·	
compliance with EPA recommendation. (<u>HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9,</u> NaOH ≥12)	□Yes □No 〔	⊅ N/A				
exceptions: VOA, coliform, TOC, TOX, TOH,		·	nitial when	Lab Std #ID of	Da	te/
D&G, WIDROW, Phenolics, OTHER:	□Yes .☑Ńo			preservative	Tin	ne:
Headspace in VOA Vials (>6mm):		2N/A 1				
Frip Blank Present:	□Yes □No ₹		15.			
Frip Blank Custody Seals Present	□Yes □No [⊒N/A				
Pace Trip Blank Lot # (if purchased): Client Notification/ Resolution:			14			
Person Contacted:	Г	ate/Ti		checked, see attache	ed form for ad	Iditional comments
Comments/ Resolution:		- CI C - 1 1				
***************************************		****				
Project Manager Review:		godenie				. 6 113
and the state of t				Date: _	- 4	1-8-14



1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436



April 25, 2014

Chad Fradette
Mach IV Engineering & Surveying
211 N. Broadway
Suite 114
Green Bay, WI 54303

RE: Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

Dear Chad Fradette:

Enclosed are the analytical results for sample(s) received by the laboratory on April 21, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

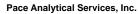
Sincerely,

Brian Basten brian.basten@pacelabs.com

Project Manager

Enclosures





Pace Analytical www.pacelabs.com

1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

CERTIFICATIONS

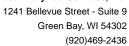
Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

Green Bay Certification IDs

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

New York Certification #: 11888 North Dakota Certification #: R-150 South Carolina Certification #: 83006001 US Dept of Agriculture #: S-76505 Wisconsin Certification #: 405132750



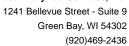


SAMPLE SUMMARY

Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

Lab ID	Sample ID	Matrix	Date Collected	Date Received	
4095040001	MW-1	Water	04/21/14 12:30	04/21/14 13:20	
4095040002	TMW-2	Water	04/21/14 10:30	04/21/14 13:20	
4095040003	TMW-3	Water	04/21/14 10:40	04/21/14 13:20	
4095040004	TMW-4	Water	04/21/14 10:50	04/21/14 13:20	





SAMPLE ANALYTE COUNT

Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4095040001	MW-1	EPA 8260	SMT	64	PASI-G
4095040002	TMW-2	EPA 8260	SMT	64	PASI-G
4095040003	TMW-3	EPA 8260	SMT	64	PASI-G
4095040004	TMW-4	EPA 8260	SMT	64	PASI-G



1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

PROJECT NARRATIVE

Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

Method: EPA 8260 Description: 8260 MSV

Client: Mach IV Engineering

Date: April 25, 2014

General Information:

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

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

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



Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

Date: 04/25/2014 09:14 AM

Sample: MW-1 Lab ID: 4095040001 Collected: 04/21/14 12:30 Received: 04/21/14 13:20 Matrix: Water

Campie. MVV 1	Lub ID. 40000		u. 04/21/1-	1 12.00	recoursed. o-	#/21/14 10.20 W	atrix. Water	
Parameters	Results Uni	ts LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Metho	d: EPA 8260						
Benzene	<0.50 ug/L	1.0	0.50	1		04/23/14 10:38	71-43-2	
Bromobenzene	<0.23 ug/L	1.0	0.23	1		04/23/14 10:38	108-86-1	
Bromochloromethane	<0.32 ug/L	1.0	0.32	1		04/23/14 10:38	74-97-5	
Bromodichloromethane	<0.50 ug/L	1.0	0.50	1		04/23/14 10:38	75-27-4	
Bromoform	<0.50 ug/L	1.0	0.50	1		04/23/14 10:38	75-25-2	
Bromomethane	<2.4 ug/L	5.0	2.4	1		04/23/14 10:38	74-83-9	
n-Butylbenzene	<0.22 ug/L	1.0	0.22	1		04/23/14 10:38	104-51-8	
sec-Butylbenzene	<2.2 ug/L	5.0	2.2	1		04/23/14 10:38		
tert-Butylbenzene	<0.18 ug/L	1.0	0.18	1		04/23/14 10:38		
Carbon tetrachloride	<0.50 ug/L	1.0	0.50	1		04/23/14 10:38		
Chlorobenzene	<0.50 ug/L	1.0	0.50	1		04/23/14 10:38		
Chloroethane	<0.37 ug/L	1.0	0.37	1		04/23/14 10:38		
Chloroform	<2.5 ug/L	5.0	2.5	1		04/23/14 10:38		
Chloromethane	<0.50 ug/L	1.0	0.50	1		04/23/14 10:38		
2-Chlorotoluene	<0.50 ug/L	1.0	0.50	1		04/23/14 10:38		
4-Chlorotoluene	<0.21 ug/L	1.0	0.30	1		04/23/14 10:38		
	< 2.2 ug/L	5.0	2.2	1		04/23/14 10:38		
1,2-Dibromo-3-chloropropane Dibromochloromethane	<0.32 ug/L	1.0	0.32	1		04/23/14 10:38		
			0.32	1				
1,2-Dibromoethane (EDB)	<0.16 ug/L	1.0				04/23/14 10:38		
Dibromomethane	<0.43 ug/L	1.0	0.43	1		04/23/14 10:38		
1,2-Dichlorobenzene	<0.50 ug/L	1.0	0.50	1		04/23/14 10:38		
1,3-Dichlorobenzene	<0.50 ug/L	1.0	0.50	1		04/23/14 10:38		
1,4-Dichlorobenzene	<0.50 ug/L	1.0	0.50	1		04/23/14 10:38		
Dichlorodifluoromethane	<0.16 ug/L	1.0	0.16	1		04/23/14 10:38		
1,1-Dichloroethane	<0.16 ug/L	1.0	0.16	1		04/23/14 10:38		
1,2-Dichloroethane	<0.17 ug/L	1.0	0.17	1		04/23/14 10:38		
1,1-Dichloroethene	<0.41 ug/L	1.0	0.41	1		04/23/14 10:38		
cis-1,2-Dichloroethene	<0.26 ug/L	1.0	0.26	1		04/23/14 10:38		
trans-1,2-Dichloroethene	<0.24 ug/L	1.0	0.24	1		04/23/14 10:38		
1,2-Dichloropropane	<0.23 ug/L	1.0	0.23	1		04/23/14 10:38	78-87-5	
1,3-Dichloropropane	<0.50 ug/L	1.0	0.50	1		04/23/14 10:38	142-28-9	
2,2-Dichloropropane	<0.48 ug/L	1.0	0.48	1		04/23/14 10:38		
1,1-Dichloropropene	<0.44 ug/L	1.0	0.44	1		04/23/14 10:38	563-58-6	
cis-1,3-Dichloropropene	<0.15 ug/L	1.0	0.15	1		04/23/14 10:38	10061-01-5	
trans-1,3-Dichloropropene	<0.23 ug/L	1.0	0.23	1		04/23/14 10:38	10061-02-6	
Diisopropyl ether	<0.50 ug/L	1.0	0.50	1		04/23/14 10:38	108-20-3	
Ethylbenzene	<0.50 ug/L	1.0	0.50	1		04/23/14 10:38	100-41-4	
Hexachloro-1,3-butadiene	<2.1 ug/L	5.0	2.1	1		04/23/14 10:38	87-68-3	
Isopropylbenzene (Cumene)	<0.12 ug/L	1.0	0.12	1		04/23/14 10:38	98-82-8	
p-Isopropyltoluene	<0.13 ug/L	1.0	0.13	1		04/23/14 10:38	99-87-6	
Methylene Chloride	<0.23 ug/L	1.0	0.23	1		04/23/14 10:38	75-09-2	
Methyl-tert-butyl ether	0.47J ug/L	1.0	0.17	1		04/23/14 10:38	1634-04-4	
Naphthalene	<2.5 ug/L	5.0	2.5	1		04/23/14 10:38	91-20-3	
n-Propylbenzene	<0.50 ug/L	1.0	0.50	1		04/23/14 10:38	103-65-1	
Styrene	<0.15 ug/L	1.0	0.15	1		04/23/14 10:38		
1,1,1,2-Tetrachloroethane	<0.18 ug/L	1.0	0.18	1		04/23/14 10:38		



Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

Date: 04/25/2014 09:14 AM

Sample: MW-1	Lab ID:	4095040001	Collected	d: 04/21/14	12:30	Received: 04	/21/14 13:20 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytica	l Method: EPA 8	260						
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		04/23/14 10:38	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/23/14 10:38	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/23/14 10:38	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/23/14 10:38	87-61-6	
1,2,4-Trichlorobenzene	<2.2	-	5.0	2.2	1		04/23/14 10:38	120-82-1	
1,1,1-Trichloroethane	<0.50	-	1.0	0.50	1		04/23/14 10:38	71-55-6	
1,1,2-Trichloroethane	<0.16	ug/L	1.0	0.16	1		04/23/14 10:38	79-00-5	
Trichloroethene	<0.33	•	1.0	0.33	1		04/23/14 10:38		
Trichlorofluoromethane	<0.17	-	1.0	0.17	1		04/23/14 10:38		
1,2,3-Trichloropropane	<0.50		1.0	0.50	1		04/23/14 10:38		
1,2,4-Trimethylbenzene	<0.50	-	1.0	0.50	1		04/23/14 10:38		
1,3,5-Trimethylbenzene	<0.50	ū	1.0	0.50	1		04/23/14 10:38		
Vinyl chloride	<0.18		1.0	0.18	1		04/23/14 10:38		
m&p-Xylene	<1.0	-	2.0	1.0	1		04/23/14 10:38		
o-Xylene	<0.50	0	1.0	0.50	1		04/23/14 10:38		
Surrogates	\0.50	ug/L	1.0	0.50	'		04/23/14 10:30	33 47 0	
4-Bromofluorobenzene (S)	93 (2%	59-130		1		04/23/14 10:38	460-00-4	
Dibromofluoromethane (S)	105 9		70-130		1		04/23/14 10:38		
Toluene-d8 (S)	96 (70-130		1		04/23/14 10:38		
. ,	l ah ID:	4005040002	Callagta	d. 04/24/4	1.40-20	Dogoivade 04	U24/4.4.42:20 N	otriss Motor	
. ,	Lab ID:	4095040002	Collected	d: 04/21/14	1 10:30	Received: 04	1/21/14 13:20 M	atrix: Water	
	Lab ID:	4095040002 Units	Collected	d: 04/21/14 LOD	1 10:30 DF	Received: 04	./21/14 13:20 M Analyzed	atrix: Water CAS No.	Qual
Sample: TMW-2 Parameters	Results		LOQ						Qual
Sample: TMW-2 Parameters 8260 MSV	Results	Units	LOQ					CAS No.	Qual
Sample: TMW-2 Parameters 8260 MSV Benzene	Results	Units	LOQ	LOD	DF		Analyzed	CAS No.	Qual
Sample: TMW-2 Parameters 8260 MSV Benzene Bromobenzene	Results Analytica	Units	LOQ 260 1.0	LOD 0.50	DF 1		Analyzed 04/23/14 11:00	CAS No. 71-43-2 108-86-1	Qual
Sample: TMW-2 Parameters	Results Analytica <0.50 (Units	LOQ 2260 1.0 1.0	0.50 0.23	DF 1 1 1		Analyzed 04/23/14 11:00 04/23/14 11:00	CAS No. 71-43-2 108-86-1 74-97-5	Qual
Sample: TMW-2 Parameters 8260 MSV Benzene Bromobenzene Bromochloromethane Bromodichloromethane	Analytica <0.50 (0.23 (0.32 (0	Units	LOQ	0.50 0.23 0.32	DF 1 1 1 1 1		Analyzed 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00	CAS No. 71-43-2 108-86-1 74-97-5 75-27-4	Qual
Parameters 8260 MSV Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform	Analytica <0.50 (0.23 (0.32 (0.50))	Units	LOQ	0.50 0.23 0.32 0.50	DF 1 1 1 1		Analyzed 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00	71-43-2 108-86-1 74-97-5 75-27-4 75-25-2	Qual
Sample: TMW-2 Parameters 8260 MSV Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane	Analytica <0.50 (0.23 (0.32 (0.50 (0	Units	LOQ	0.50 0.23 0.32 0.50 0.50	DF 1 1 1 1 1 1		Analyzed 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00	71-43-2 108-86-1 74-97-5 75-27-4 75-25-2 74-83-9	Qual
Sample: TMW-2 Parameters 8260 MSV Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane n-Butylbenzene	Analytica <0.50 (0.32 (0.50 (0	Units	LOQ	0.50 0.23 0.32 0.50 0.50 2.4	DF 1 1 1 1 1 1 1 1 1 1 1		Analyzed 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00	71-43-2 108-86-1 74-97-5 75-27-4 75-25-2 74-83-9 104-51-8	Qual
Parameters 8260 MSV Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane n-Butylbenzene sec-Butylbenzene	Analytica <0.50 (<0.23 (<0.32 (<0.50 (<2.4 (<0.22 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (Units	LOQ 1.0 1.0 1.0 1.0 1.0 5.0 1.0 5.0	0.50 0.23 0.32 0.50 0.50 2.4 0.22 2.2	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Analyzed 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00	71-43-2 108-86-1 74-97-5 75-27-4 75-25-2 74-83-9 104-51-8 135-98-8	Qual
Sample: TMW-2 Parameters 8260 MSV Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene	Analytica <0.50 (<0.23 (<0.32 (<0.50 (<2.4 (<0.22 (<0.22 (<2.2 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18 (<0.18	Units	LOQ 1.0 1.0 1.0 1.0 1.0 1.0 5.0	0.50 0.23 0.32 0.50 0.50 2.4 0.22	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Analyzed 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00	71-43-2 108-86-1 74-97-5 75-27-4 75-25-2 74-83-9 104-51-8 135-98-8 98-06-6	Qual
Parameters 8260 MSV Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane n-Butylbenzene sec-Butylbenzene	Analytica <0.50 (<0.23 (<0.32 (<0.50 (<2.4 (<0.22 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (<2.2 (Units	LOQ 1.0 1.0 1.0 1.0 1.0 5.0 1.0 5.0	0.50 0.23 0.32 0.50 0.50 2.4 0.22 2.2 0.18 0.50	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Analyzed 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00	71-43-2 108-86-1 74-97-5 75-27-4 75-25-2 74-83-9 104-51-8 135-98-8 98-06-6 56-23-5	Qual
Parameters 8260 MSV Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon tetrachloride	Results	Units	LOQ 1.0 1.0 1.0 1.0 1.0 5.0 1.0 5.0 1.0	0.50 0.23 0.32 0.50 0.50 2.4 0.22 2.2 0.18 0.50 0.50	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Analyzed 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00	71-43-2 108-86-1 74-97-5 75-27-4 75-25-2 74-83-9 104-51-8 135-98-8 98-06-6 56-23-5 108-90-7	Qual
Parameters 8260 MSV Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon tetrachloride Chlorobenzene	Results	Units Il Method: EPA 8 ug/L	LOQ 1.0 1.0 1.0 1.0 1.0 5.0 1.0 5.0 1.0	0.50 0.23 0.32 0.50 0.50 2.4 0.22 2.2 0.18 0.50	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Analyzed 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00	71-43-2 108-86-1 74-97-5 75-27-4 75-25-2 74-83-9 104-51-8 135-98-8 98-06-6 56-23-5 108-90-7 75-00-3	Qual
Sample: TMW-2 Parameters 8260 MSV Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon tetrachloride Chlorobenzene Chloroethane	Results	Units Il Method: EPA 8 ug/L	LOQ 1.0 1.0 1.0 1.0 1.0 5.0 1.0 5.0 1.0 1.0	0.50 0.23 0.32 0.50 0.50 2.4 0.22 2.2 0.18 0.50 0.50 0.37 2.5	DF 1		Analyzed 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00	71-43-2 108-86-1 74-97-5 75-27-4 75-25-2 74-83-9 104-51-8 135-98-8 98-06-6 56-23-5 108-90-7 75-00-3 67-66-3	Qual
Sample: TMW-2 Parameters 8260 MSV Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon tetrachloride Chlorobenzene Chlorotethane Chloroform Chloromethane	Results	Units Il Method: EPA 8 ug/L	LOQ 1.0 1.0 1.0 1.0 1.0 5.0 1.0 1.0 1.0 5.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	0.50 0.23 0.32 0.50 0.50 2.4 0.22 2.2 0.18 0.50 0.50 0.37 2.5	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Analyzed 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00	71-43-2 108-86-1 74-97-5 75-27-4 75-25-2 74-83-9 104-51-8 135-98-8 98-06-6 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3	Qual
Sample: TMW-2 Parameters 8260 MSV Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon tetrachloride Chlorobenzene Chloroform Chloromethane 2-Chlorotoluene	Results	Units I Method: EPA 8 ug/L	LOQ 1.0 1.0 1.0 1.0 1.0 5.0 1.0 1.0 1.0 5.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	0.50 0.23 0.32 0.50 0.50 2.4 0.22 2.2 0.18 0.50 0.50 0.37 2.5 0.50	DF 1		Analyzed 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00	71-43-2 108-86-1 74-97-5 75-27-4 75-25-2 74-83-9 104-51-8 135-98-8 98-06-6 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 95-49-8	Qual
Parameters 8260 MSV Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromomethane Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon tetrachloride Chlorobenzene Chlorototuene 4-Chlorotoluene	Results	Units Il Method: EPA 8 ug/L	LOQ 1.0 1.0 1.0 1.0 1.0 5.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	0.50 0.23 0.32 0.50 0.50 2.4 0.22 2.2 0.18 0.50 0.50 0.37 2.5 0.50 0.50	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Analyzed 04/23/14 11:00	71-43-2 108-86-1 74-97-5 75-27-4 75-25-2 74-83-9 104-51-8 135-98-8 98-06-6 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 95-49-8 106-43-4	Qual
Sample: TMW-2 Parameters 8260 MSV Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon tetrachloride Chlorobenzene Chloroform Chloromethane 2-Chlorotoluene	Results	Units Il Method: EPA 8 ug/L LOQ 1.0 1.0 1.0 1.0 1.0 5.0 1.0 1.0 1.0 5.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	0.50 0.23 0.32 0.50 0.50 2.4 0.22 2.2 0.18 0.50 0.50 0.37 2.5 0.50	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Analyzed 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00 04/23/14 11:00	71-43-2 108-86-1 74-97-5 75-27-4 75-25-2 74-83-9 104-51-8 135-98-8 98-06-6 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 95-49-8 106-43-4 96-12-8	Qual	

(920)469-2436



ANALYTICAL RESULTS

Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

Date: 04/25/2014 09:14 AM

Sample: TMW-2 Lab ID: 4095040002 Collected: 04/21/14 10:30 Received: 04/21/14 13:20 Matrix: Water

Campie. Timer 2	Eus 15. 400004	ooicote	u. 04/21/1-	1 10.00	reconved. o	#/21/14 10.20 W	anx. Water	
Parameters	Results Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method:	EPA 8260						
Dibromomethane	<0.43 ug/L	1.0	0.43	1		04/23/14 11:00	74-95-3	
1,2-Dichlorobenzene	<0.50 ug/L	1.0	0.50	1		04/23/14 11:00	95-50-1	
1,3-Dichlorobenzene	<0.50 ug/L	1.0	0.50	1		04/23/14 11:00	541-73-1	
1,4-Dichlorobenzene	<0.50 ug/L	1.0	0.50	1		04/23/14 11:00	106-46-7	
Dichlorodifluoromethane	<0.16 ug/L	1.0	0.16	1		04/23/14 11:00	75-71-8	
1,1-Dichloroethane	<0.16 ug/L	1.0	0.16	1		04/23/14 11:00	75-34-3	
1,2-Dichloroethane	<0.17 ug/L	1.0	0.17	1		04/23/14 11:00	107-06-2	
1,1-Dichloroethene	<0.41 ug/L	1.0	0.41	1		04/23/14 11:00	75-35-4	
cis-1,2-Dichloroethene	<0.26 ug/L	1.0	0.26	1		04/23/14 11:00	156-59-2	
trans-1,2-Dichloroethene	<0.24 ug/L	1.0	0.24	1		04/23/14 11:00		
1,2-Dichloropropane	<0.23 ug/L	1.0	0.23	1		04/23/14 11:00	78-87-5	
1,3-Dichloropropane	<0.50 ug/L	1.0	0.50	1		04/23/14 11:00		
2,2-Dichloropropane	<0.48 ug/L	1.0	0.48	1		04/23/14 11:00		
1,1-Dichloropropene	<0.44 ug/L	1.0	0.44	1		04/23/14 11:00		
cis-1,3-Dichloropropene	<0.15 ug/L	1.0	0.15	1		04/23/14 11:00		
trans-1,3-Dichloropropene	<0.23 ug/L	1.0	0.23	1		04/23/14 11:00		
Diisopropyl ether	<0.50 ug/L	1.0	0.50	1		04/23/14 11:00		
Ethylbenzene	<0.50 ug/L	1.0	0.50	1		04/23/14 11:00		
Hexachloro-1,3-butadiene	<2.1 ug/L	5.0	2.1	1		04/23/14 11:00		
Isopropylbenzene (Cumene)	<0.12 ug/L	1.0	0.12	1		04/23/14 11:00		
p-Isopropyltoluene	<0.12 ug/L	1.0	0.12	1		04/23/14 11:00		
Methylene Chloride	<0.13 ug/L	1.0	0.13	1		04/23/14 11:00		
Methyl-tert-butyl ether	<0.23 ug/L <0.17 ug/L	1.0	0.23	1		04/23/14 11:00		
Naphthalene	<2.5 ug/L	5.0	2.5	1		04/23/14 11:00		
n-Propylbenzene	< 0.50 ug/L	1.0	0.50	1		04/23/14 11:00		
	<0.15 ug/L	1.0	0.30	1		04/23/14 11:00		
Styrene 1,1,1,2-Tetrachloroethane	<0.13 ug/L <0.18 ug/L	1.0	0.13	1		04/23/14 11:00		
1,1,2,2-Tetrachloroethane	<0.16 ug/L <0.25 ug/L	1.0	0.16	1		04/23/14 11:00		
Tetrachloroethene	< 0.23 ug/L	1.0	0.23	1		04/23/14 11:00		
			0.50	1				
Toluene	<0.50 ug/L	1.0	2.1	1		04/23/14 11:00		
1,2,3-Trichlorobenzene	<2.1 ug/L	5.0				04/23/14 11:00		
1,2,4-Trichlorobenzene	<2.2 ug/L	5.0	2.2	1		04/23/14 11:00		
1,1,1-Trichloroethane	<0.50 ug/L	1.0	0.50	1		04/23/14 11:00		
1,1,2-Trichloroethane	<0.16 ug/L	1.0	0.16	1		04/23/14 11:00		
Trichloroethene	<0.33 ug/L	1.0	0.33	1		04/23/14 11:00		
Trichlorofluoromethane	<0.17 ug/L	1.0	0.17	1		04/23/14 11:00		
1,2,3-Trichloropropane	<0.50 ug/L	1.0	0.50	1		04/23/14 11:00		
1,2,4-Trimethylbenzene	<0.50 ug/L	1.0	0.50	1		04/23/14 11:00		
1,3,5-Trimethylbenzene	<0.50 ug/L	1.0	0.50	1		04/23/14 11:00		
Vinyl chloride	<0.18 ug/L	1.0	0.18	1		04/23/14 11:00		
m&p-Xylene	<1.0 ug/L	2.0	1.0	1		04/23/14 11:00		
o-Xylene	<0.50 ug/L	1.0	0.50	1		04/23/14 11:00	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	92 %	59-130		1		04/23/14 11:00		
Dibromofluoromethane (S)	104 %	70-130		1		04/23/14 11:00		
Toluene-d8 (S)	95 %	70-130		1		04/23/14 11:00	2037-26-5	



Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

Date: 04/25/2014 09:14 AM

Sample: TMW-3 Lab ID: 4095040003 Collected: 04/21/14 10:40 Received: 04/21/14 13:20 Matrix: Water

Sample. Timvv-3	Lab ID. 40	033040003	Collected	J. U4/21/12	10.40	Received. 02	1/21/14 13.20 IVI	allix. Walei	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Mo	ethod: EPA 8	260						
Benzene	<0.50 ug/L	_	1.0	0.50	1		04/23/14 11:22	71-43-2	
Bromobenzene	<0.23 ug/L	L	1.0	0.23	1		04/23/14 11:22	108-86-1	
Bromochloromethane	<0.32 ug/L	L	1.0	0.32	1		04/23/14 11:22	74-97-5	
Bromodichloromethane	<0.50 ug/L	L	1.0	0.50	1		04/23/14 11:22	75-27-4	
Bromoform	<0.50 ug/L	L	1.0	0.50	1		04/23/14 11:22	75-25-2	
Bromomethane	<2.4 ug/L	L	5.0	2.4	1		04/23/14 11:22	74-83-9	
n-Butylbenzene	<0.22 ug/L	L	1.0	0.22	1		04/23/14 11:22	104-51-8	
sec-Butylbenzene	<2.2 ug/L	L	5.0	2.2	1		04/23/14 11:22	135-98-8	
tert-Butylbenzene	<0.18 ug/L	L	1.0	0.18	1		04/23/14 11:22	98-06-6	
Carbon tetrachloride	<0.50 ug/L	L	1.0	0.50	1		04/23/14 11:22	56-23-5	
Chlorobenzene	<0.50 ug/L	L	1.0	0.50	1		04/23/14 11:22	108-90-7	
Chloroethane	<0.37 ug/L	L	1.0	0.37	1		04/23/14 11:22	75-00-3	
Chloroform	<2.5 ug/L		5.0	2.5	1		04/23/14 11:22	67-66-3	
Chloromethane	<0.50 ug/L		1.0	0.50	1		04/23/14 11:22	74-87-3	
2-Chlorotoluene	<0.50 ug/L	L	1.0	0.50	1		04/23/14 11:22	95-49-8	
4-Chlorotoluene	<0.21 ug/L		1.0	0.21	1		04/23/14 11:22	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2 ug/L		5.0	2.2	1		04/23/14 11:22	96-12-8	
Dibromochloromethane	<0.32 ug/L		1.0	0.32	1		04/23/14 11:22		
1,2-Dibromoethane (EDB)	<0.16 ug/L		1.0	0.16	1		04/23/14 11:22	106-93-4	
Dibromomethane	<0.43 ug/L		1.0	0.43	1		04/23/14 11:22		
1,2-Dichlorobenzene	<0.50 ug/L		1.0	0.50	1		04/23/14 11:22		
1,3-Dichlorobenzene	<0.50 ug/L		1.0	0.50	1		04/23/14 11:22		
1,4-Dichlorobenzene	<0.50 ug/L		1.0	0.50	1		04/23/14 11:22		
Dichlorodifluoromethane	<0.16 ug/L		1.0	0.16	1		04/23/14 11:22		
1,1-Dichloroethane	<0.16 ug/L		1.0	0.16	1		04/23/14 11:22		
1,2-Dichloroethane	< 0.17 ug/L		1.0	0.17	1		04/23/14 11:22		
1,1-Dichloroethene	<0.41 ug/L		1.0	0.41	1		04/23/14 11:22		
cis-1,2-Dichloroethene	<0.26 ug/L		1.0	0.26	1		04/23/14 11:22		
trans-1,2-Dichloroethene	< 0.24 ug/L		1.0	0.24	1		04/23/14 11:22		
1,2-Dichloropropane	<0.23 ug/L		1.0	0.23	1		04/23/14 11:22		
1,3-Dichloropropane	< 0.50 ug/L		1.0	0.50	1		04/23/14 11:22		
2,2-Dichloropropane	<0.48 ug/L		1.0	0.48	1		04/23/14 11:22		
1,1-Dichloropropene	<0.44 ug/L		1.0	0.44	1		04/23/14 11:22		
cis-1,3-Dichloropropene	<0.15 ug/L		1.0	0.15	1		04/23/14 11:22		
trans-1,3-Dichloropropene	<0.23 ug/L		1.0	0.13	1		04/23/14 11:22		
Diisopropyl ether	<0.50 ug/L		1.0	0.50	1		04/23/14 11:22		
Ethylbenzene			1.0		1		04/23/14 11:22		
Hexachloro-1,3-butadiene	<0.50 ug/L <2.1 ug/L		5.0	0.50 2.1	1		04/23/14 11:22		
Isopropylbenzene (Cumene)	<0.12 ug/L		1.0	0.12	1		04/23/14 11:22		
,			1.0	0.12	1		04/23/14 11:22		
p-Isopropyltoluene Methylone Chloride	<0.13 ug/L			0.13					
Methylene Chloride	<0.23 ug/L		1.0		1		04/23/14 11:22		
Methyl-tert-butyl ether	<0.17 ug/L		1.0	0.17	1		04/23/14 11:22		
Naphthalene	<2.5 ug/L		5.0	2.5	1		04/23/14 11:22		
n-Propylbenzene	<0.50 ug/L		1.0	0.50	1		04/23/14 11:22		
Styrene	<0.15 ug/L		1.0	0.15	1		04/23/14 11:22		
1,1,1,2-Tetrachloroethane	<0.18 ug/L	L	1.0	0.18	1		04/23/14 11:22	630-20-6	



Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

Date: 04/25/2014 09:14 AM

Sample: TMW-3	Lab ID:	4095040003	Collected	d: 04/21/14	4 10:40	Received: 04	I/21/14 13:20 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical	Method: EPA 8	3260						
1,1,2,2-Tetrachloroethane	<0.25 u	g/L	1.0	0.25	1		04/23/14 11:22	79-34-5	
Tetrachloroethene	<0.50 u	g/L	1.0	0.50	1		04/23/14 11:22	127-18-4	
Toluene	<0.50 u	g/L	1.0	0.50	1		04/23/14 11:22	108-88-3	
1,2,3-Trichlorobenzene	<2.1 u	g/L	5.0	2.1	1		04/23/14 11:22	87-61-6	
1,2,4-Trichlorobenzene	<2.2 u	g/L	5.0	2.2	1		04/23/14 11:22	120-82-1	
1,1,1-Trichloroethane	<0.50 u	-	1.0	0.50	1		04/23/14 11:22	71-55-6	
1,1,2-Trichloroethane	<0.16 u	g/L	1.0	0.16	1		04/23/14 11:22	79-00-5	
Trichloroethene	<0.33 u	-	1.0	0.33	1		04/23/14 11:22	79-01-6	
Trichlorofluoromethane	<0.17 u		1.0	0.17	1		04/23/14 11:22	75-69-4	
1,2,3-Trichloropropane	<0.50 u	-	1.0	0.50	1		04/23/14 11:22		
1,2,4-Trimethylbenzene	< 0.50 u	-	1.0	0.50	1		04/23/14 11:22		
1,3,5-Trimethylbenzene	<0.50 u		1.0	0.50	1		04/23/14 11:22		
Vinyl chloride	<0.18 u		1.0	0.18	1		04/23/14 11:22		
m&p-Xylene	<1.0 u		2.0	1.0	1		04/23/14 11:22		
o-Xylene	< 0.50 u		1.0	0.50	1		04/23/14 11:22		
Surrogates	40.00 a	g/ L	1.0	0.00	•		04/20/14 11:22	30 47 G	
4-Bromofluorobenzene (S)	94 %	1	59-130		1		04/23/14 11:22	460-00-4	
Dibromofluoromethane (S)	101 %	1	70-130		1		04/23/14 11:22		
Toluene-d8 (S)	95 %		70-130		1		04/23/14 11:22		
Sample: TMW-4	Lab ID:	4095040004	Collected	d: 04/21/1	4 10:50	Received: 04	1/21/14 13:20 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical	Method: EPA 8	3260						
Benzene	<0.50 u	a/L	1.0	0.50	1		04/23/14 11:45	71-43-2	
Bromobenzene	<0.23 u	•	1.0	0.23	1		04/23/14 11:45		
Bromochloromethane	< 0.32 u	-	1.0	0.32	1		04/23/14 11:45		
Bromodichloromethane	< 0.50 u	-	1.0	0.50	1		04/23/14 11:45		
Bromoform	< 0.50 u	9	1.0	0.50	1		04/23/14 11:45		
Bromomethane	< 2.4 u		5.0	2.4	1		04/23/14 11:45		
n-Butylbenzene	< 0.22 u	-	1.0	0.22	1		04/23/14 11:45		
sec-Butylbenzene	<2.2 u	•	5.0	2.2	1		04/23/14 11:45		
tert-Butylbenzene	< 0.18 u		1.0	0.18	1		04/23/14 11:45		
Carbon tetrachloride	<0.50 u		1.0	0.50	1		04/23/14 11:45		
Chlorobenzene	<0.50 u	-	1.0	0.50	1		04/23/14 11:45		
Chloroethane	<0.37 u	-	1.0	0.37	1		04/23/14 11:45		
Chloroform		-	5.0	2.5	1		04/23/14 11:45		
	< 2.5 ug	-			1		04/23/14 11:45		
Chloromethane	<0.50 u	-	1.0	0.50					
2-Chlorotoluene	<0.50 u	-	1.0	0.50	1		04/23/14 11:45		
4-Chlorotoluene	< 0.21 u	-	1.0	0.21	1		04/23/14 11:45		
1,2-Dibromo-3-chloropropane	<2.2 u	-	5.0	2.2	1		04/23/14 11:45		
Dibromochloromethane 1,2-Dibromoethane (EDB)	<0.32 ug <0.16 ug	-	1.0	0.32	1		04/23/14 11:45		
	-0.16 H	1/1	1.0	0.16	1		04/23/14 11:45	106-93-4	



Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

Date: 04/25/2014 09:14 AM

Sample: TMW-4 Lab ID: 4095040004 Collected: 04/21/14 10:50 Received: 04/21/14 13:20 Matrix: Water

Campic. Timer 4	Lub ID.	1000010001	Concoto	J. 04/21/1-	10.00	reconved. 0-	721714 10.20 W	atrix. Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical N	Method: EPA	8260						
Dibromomethane	<0.43 ug	/L	1.0	0.43	1		04/23/14 11:45	74-95-3	
1,2-Dichlorobenzene	<0.50 ug	ı/L	1.0	0.50	1		04/23/14 11:45	95-50-1	
1,3-Dichlorobenzene	<0.50 ug	/L	1.0	0.50	1		04/23/14 11:45	541-73-1	
1,4-Dichlorobenzene	<0.50 ug	ı/L	1.0	0.50	1		04/23/14 11:45	106-46-7	
Dichlorodifluoromethane	<0.16 ug	ı/L	1.0	0.16	1		04/23/14 11:45	75-71-8	
1,1-Dichloroethane	<0.16 ug		1.0	0.16	1		04/23/14 11:45	75-34-3	
1,2-Dichloroethane	<0.17 ug		1.0	0.17	1		04/23/14 11:45	107-06-2	
1,1-Dichloroethene	<0.41 ug	ı/L	1.0	0.41	1		04/23/14 11:45	75-35-4	
cis-1,2-Dichloroethene	<0.26 ug		1.0	0.26	1		04/23/14 11:45	156-59-2	
trans-1,2-Dichloroethene	<0.24 ug		1.0	0.24	1		04/23/14 11:45	156-60-5	
1,2-Dichloropropane	<0.23 ug		1.0	0.23	1		04/23/14 11:45		
1,3-Dichloropropane	<0.50 ug		1.0	0.50	1		04/23/14 11:45		
2,2-Dichloropropane	<0.48 ug		1.0	0.48	1		04/23/14 11:45		
1,1-Dichloropropene	<0.44 ug		1.0	0.44	1		04/23/14 11:45		
cis-1,3-Dichloropropene	<0.15 ug		1.0	0.15	1		04/23/14 11:45		
trans-1,3-Dichloropropene	<0.23 ug		1.0	0.23	1		04/23/14 11:45		
Diisopropyl ether	<0.50 ug		1.0	0.50	1		04/23/14 11:45		
Ethylbenzene	<0.50 ug		1.0	0.50	1		04/23/14 11:45		
Hexachloro-1,3-butadiene	<2.1 ug		5.0	2.1	1		04/23/14 11:45		
sopropylbenzene (Cumene)	<0.12 ug		1.0	0.12	1		04/23/14 11:45		
o-Isopropyltoluene	<0.12 ug		1.0	0.12	1		04/23/14 11:45		
	<0.13 ug		1.0	0.13	1		04/23/14 11:45		
Methylene Chloride Methyl-tert-butyl ether	<0.23 ug <0.17 ug		1.0	0.23	1		04/23/14 11:45		
•	<2.5 ug		5.0	2.5	1		04/23/14 11:45		
Naphthalene	<0.50 ug								
n-Propylbenzene			1.0	0.50	1		04/23/14 11:45		
Styrene	<0.15 ug		1.0	0.15	1		04/23/14 11:45		
1,1,1,2-Tetrachloroethane	<0.18 ug		1.0	0.18	1		04/23/14 11:45		
1,1,2,2-Tetrachloroethane	<0.25 ug		1.0	0.25	1		04/23/14 11:45		
Tetrachloroethene	<0.50 ug		1.0	0.50	1		04/23/14 11:45		
Toluene	<0.50 ug		1.0	0.50	1		04/23/14 11:45		
1,2,3-Trichlorobenzene	<2.1 ug		5.0	2.1	1		04/23/14 11:45		
1,2,4-Trichlorobenzene	<2.2 ug		5.0	2.2	1		04/23/14 11:45		
1,1,1-Trichloroethane	<0.50 ug		1.0	0.50	1		04/23/14 11:45		
1,1,2-Trichloroethane	<0.16 ug		1.0	0.16	1		04/23/14 11:45		
Trichloroethene	<0.33 ug		1.0	0.33	1		04/23/14 11:45		
Trichlorofluoromethane	<0.17 ug	ı/L	1.0	0.17	1		04/23/14 11:45		
1,2,3-Trichloropropane	<0.50 ug		1.0	0.50	1		04/23/14 11:45		
1,2,4-Trimethylbenzene	<0.50 ug		1.0	0.50	1		04/23/14 11:45		
1,3,5-Trimethylbenzene	<0.50 ug		1.0	0.50	1		04/23/14 11:45		
Vinyl chloride	<0.18 ug		1.0	0.18	1		04/23/14 11:45		
m&p-Xylene	<1.0 ug		2.0	1.0	1		04/23/14 11:45		
o-Xylene	<0.50 ug	/L	1.0	0.50	1		04/23/14 11:45	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92 %		59-130		1		04/23/14 11:45		
Dibromofluoromethane (S)	100 %		70-130		1		04/23/14 11:45		
Toluene-d8 (S)	97 %		70-130		1		04/23/14 11:45	2037-26-5	

(920)469-2436



QUALITY CONTROL DATA

Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

Date: 04/25/2014 09:14 AM

QC Batch: MSV/23906 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV

Associated Lab Samples: 4095040001, 4095040002, 4095040003, 4095040004

METHOD BLANK: 959233 Matrix: Water
Associated Lab Samples: 4095040001, 4095040002, 4095040003, 4095040004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	04/23/14 07:54	
1,1,1-Trichloroethane	ug/L	< 0.50	1.0	04/23/14 07:54	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	04/23/14 07:54	
1,1,2-Trichloroethane	ug/L	<0.16	1.0	04/23/14 07:54	
1,1-Dichloroethane	ug/L	<0.16	1.0	04/23/14 07:54	
1,1-Dichloroethene	ug/L	<0.41	1.0	04/23/14 07:54	
1,1-Dichloropropene	ug/L	< 0.44	1.0	04/23/14 07:54	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	04/23/14 07:54	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	04/23/14 07:54	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	04/23/14 07:54	
I,2,4-Trimethylbenzene	ug/L	< 0.50	1.0	04/23/14 07:54	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	04/23/14 07:54	
1,2-Dibromoethane (EDB)	ug/L	<0.16	1.0	04/23/14 07:54	
1,2-Dichlorobenzene	ug/L	< 0.50	1.0	04/23/14 07:54	
1,2-Dichloroethane	ug/L	< 0.17	1.0	04/23/14 07:54	
1,2-Dichloropropane	ug/L	< 0.23	1.0	04/23/14 07:54	
I,3,5-Trimethylbenzene	ug/L	< 0.50	1.0	04/23/14 07:54	
,3-Dichlorobenzene	ug/L	< 0.50	1.0	04/23/14 07:54	
,3-Dichloropropane	ug/L	< 0.50	1.0	04/23/14 07:54	
,4-Dichlorobenzene	ug/L	< 0.50	1.0	04/23/14 07:54	
2,2-Dichloropropane	ug/L	<0.48	1.0	04/23/14 07:54	
2-Chlorotoluene	ug/L	< 0.50	1.0	04/23/14 07:54	
1-Chlorotoluene	ug/L	<0.21	1.0	04/23/14 07:54	
Benzene	ug/L	< 0.50	1.0	04/23/14 07:54	
Bromobenzene	ug/L	< 0.23	1.0	04/23/14 07:54	
Bromochloromethane	ug/L	< 0.32	1.0	04/23/14 07:54	
Bromodichloromethane	ug/L	< 0.50	1.0	04/23/14 07:54	
Bromoform	ug/L	< 0.50	1.0	04/23/14 07:54	
Bromomethane	ug/L	<2.4	5.0	04/23/14 07:54	
Carbon tetrachloride	ug/L	< 0.50	1.0	04/23/14 07:54	
Chlorobenzene	ug/L	<0.50	1.0	04/23/14 07:54	
Chloroethane	ug/L	<0.37	1.0	04/23/14 07:54	
Chloroform	ug/L	<2.5	5.0	04/23/14 07:54	
Chloromethane	ug/L	<0.50	1.0	04/23/14 07:54	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	04/23/14 07:54	
cis-1,3-Dichloropropene	ug/L	<0.15	1.0	04/23/14 07:54	
Dibromochloromethane	ug/L	<0.32	1.0	04/23/14 07:54	
Dibromomethane	ug/L	< 0.43	1.0	04/23/14 07:54	
Dichlorodifluoromethane	ug/L	<0.16	1.0	04/23/14 07:54	
Diisopropyl ether	ug/L	<0.50	1.0	04/23/14 07:54	
Ethylbenzene	ug/L	<0.50	1.0	04/23/14 07:54	
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	04/23/14 07:54	
sopropylbenzene (Cumene)	ug/L	<0.12	1.0	04/23/14 07:54	

(920)469-2436



QUALITY CONTROL DATA

Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

Date: 04/25/2014 09:14 AM

METHOD BLANK: 959233 Matrix: Water Associated Lab Samples: 4095040001, 4095040002, 4095040003, 4095040004

_		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	<1.0	2.0	04/23/14 07:54	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	04/23/14 07:54	
Methylene Chloride	ug/L	< 0.23	1.0	04/23/14 07:54	
n-Butylbenzene	ug/L	<0.22	1.0	04/23/14 07:54	
n-Propylbenzene	ug/L	< 0.50	1.0	04/23/14 07:54	
Naphthalene	ug/L	<2.5	5.0	04/23/14 07:54	
o-Xylene	ug/L	< 0.50	1.0	04/23/14 07:54	
p-Isopropyltoluene	ug/L	<0.13	1.0	04/23/14 07:54	
sec-Butylbenzene	ug/L	<2.2	5.0	04/23/14 07:54	
Styrene	ug/L	<0.15	1.0	04/23/14 07:54	
tert-Butylbenzene	ug/L	<0.18	1.0	04/23/14 07:54	
Tetrachloroethene	ug/L	< 0.50	1.0	04/23/14 07:54	
Toluene	ug/L	< 0.50	1.0	04/23/14 07:54	
trans-1,2-Dichloroethene	ug/L	<0.24	1.0	04/23/14 07:54	
trans-1,3-Dichloropropene	ug/L	< 0.23	1.0	04/23/14 07:54	
Trichloroethene	ug/L	< 0.33	1.0	04/23/14 07:54	
Trichlorofluoromethane	ug/L	<0.17	1.0	04/23/14 07:54	
Vinyl chloride	ug/L	<0.18	1.0	04/23/14 07:54	
4-Bromofluorobenzene (S)	%	93	59-130	04/23/14 07:54	
Dibromofluoromethane (S)	%	100	70-130	04/23/14 07:54	
Toluene-d8 (S)	%	94	70-130	04/23/14 07:54	

LABORATORY CONTROL SAMPL	E & LCSD: 959234		95	9235						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.0	53.9	108	108	70-130	0	20	
1,1,2,2-Tetrachloroethane	ug/L	50	49.1	48.4	98	97	70-130	2	20	
1,1,2-Trichloroethane	ug/L	50	49.2	49.1	98	98	70-130	0	20	
1,1-Dichloroethane	ug/L	50	54.7	56.5	109	113	70-130	3	20	
1,1-Dichloroethene	ug/L	50	49.8	49.5	100	99	70-132	0	20	
1,2,4-Trichlorobenzene	ug/L	50	49.5	52.6	99	105	70-130	6	20	
1,2-Dibromo-3-chloropropane	ug/L	50	50.9	50.6	102	101	50-150	0	20	
1,2-Dibromoethane (EDB)	ug/L	50	50.1	48.9	100	98	70-130	2	20	
1,2-Dichlorobenzene	ug/L	50	50.2	50.6	100	101	70-130	1	20	
1,2-Dichloroethane	ug/L	50	53.6	54.3	107	109	70-130	1	20	
1,2-Dichloropropane	ug/L	50	54.7	58.0	109	116	70-130	6	20	
1,3-Dichlorobenzene	ug/L	50	48.3	48.6	97	97	70-130	1	20	
1,4-Dichlorobenzene	ug/L	50	51.8	52.9	104	106	70-130	2	20	
Benzene	ug/L	50	54.7	55.8	109	112	70-130	2	20	
Bromodichloromethane	ug/L	50	51.8	53.0	104	106	70-130	2	20	
Bromoform	ug/L	50	48.0	47.7	96	95	70-130	1	20	
Bromomethane	ug/L	50	24.0	29.2	48	58	34-157	19	20	
Carbon tetrachloride	ug/L	50	55.4	55.1	111	110	70-132	1	20	
Chlorobenzene	ug/L	50	50.3	52.1	101	104	70-130	3	20	
Chloroethane	ug/L	50	49.7	50.6	99	101	60-143	2	20	



QUALITY CONTROL DATA

Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

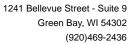
Date: 04/25/2014 09:14 AM

LABORATORY CONTROL SAMP	LE & LCSD: 959234		95	9235						
_		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
Chloroform	ug/L	50	59.3	61.0	119	122	70-130	3	20	
Chloromethane	ug/L	50	45.4	46.2	91	92	43-148	2	20	
cis-1,2-Dichloroethene	ug/L	50	51.2	53.2	102	106	51-133	4	20	
cis-1,3-Dichloropropene	ug/L	50	56.2	56.1	112	112	70-130	0	20	
Dibromochloromethane	ug/L	50	49.3	49.8	99	100	70-130	1	20	
Dichlorodifluoromethane	ug/L	50	33.3	32.7	67	65	10-174	2	20	
Ethylbenzene	ug/L	50	55.9	56.5	112	113	70-130	1	20	
Isopropylbenzene (Cumene)	ug/L	50	56.7	58.1	113	116	70-136	2	20	
m&p-Xylene	ug/L	100	113	115	113	115	70-131	2	20	
Methyl-tert-butyl ether	ug/L	50	53.7	54.2	107	108	54-139	1	20	
Methylene Chloride	ug/L	50	52.4	54.7	105	109	70-130	4	20	
o-Xylene	ug/L	50	56.9	57.6	114	115	70-130	1	20	
Styrene	ug/L	50	59.5	59.9	119	120	70-130	1	20	
Tetrachloroethene	ug/L	50	47.2	46.2	94	92	70-130	2	20	
Toluene	ug/L	50	51.1	52.1	102	104	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	50	50.9	52.7	102	105	70-130	3	20	
trans-1,3-Dichloropropene	ug/L	50	48.6	48.7	97	97	70-130	0	20	
Trichloroethene	ug/L	50	52.5	54.0	105	108	70-130	3	20	
Trichlorofluoromethane	ug/L	50	51.7	52.8	103	106	50-150	2	20	
Vinyl chloride	ug/L	50	46.1	47.6	92	95	59-157	3	20	
4-Bromofluorobenzene (S)	%				107	109	59-130			
Dibromofluoromethane (S)	%				98	100	70-130			
Toluene-d8 (S)	%				95	95	70-130			

MATRIX SPIKE & MATRIX SPIK	E DUPLICAT	E: 95939	0		959391							
			MS	MSD								
	40	095040001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	53.5	56.1	107	112	70-130	5	20	
1,1,2,2-Tetrachloroethane	ug/L	< 0.25	50	50	47.1	49.9	94	100	70-130	6	20	
1,1,2-Trichloroethane	ug/L	< 0.16	50	50	47.0	50.4	94	101	70-130	7	20	
1,1-Dichloroethane	ug/L	<0.16	50	50	53.2	56.5	106	113	70-130	6	20	
1,1-Dichloroethene	ug/L	< 0.41	50	50	49.9	51.3	100	103	70-138	3	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	50.8	55.8	100	110	70-130	9	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	49.9	51.8	100	104	50-150	4	20	
1,2-Dibromoethane (EDB)	ug/L	<0.16	50	50	47.4	50.3	95	101	70-130	6	20	
1,2-Dichlorobenzene	ug/L	< 0.50	50	50	47.6	52.2	95	104	70-130	9	20	
1,2-Dichloroethane	ug/L	< 0.17	50	50	51.7	54.8	103	110	70-130	6	20	
1,2-Dichloropropane	ug/L	< 0.23	50	50	55.1	56.4	110	113	70-130	2	20	
1,3-Dichlorobenzene	ug/L	< 0.50	50	50	46.1	49.6	92	99	70-130	7	20	
1,4-Dichlorobenzene	ug/L	< 0.50	50	50	49.3	52.6	99	105	70-130	7	20	
Benzene	ug/L	< 0.50	50	50	53.6	55.8	107	112	70-130	4	20	
Bromodichloromethane	ug/L	< 0.50	50	50	50.3	53.4	101	107	70-130	6	20	
Bromoform	ug/L	< 0.50	50	50	45.5	49.6	91	99	70-130	9	20	
Bromomethane	ug/L	<2.4	50	50	29.4	31.5	59	63	34-159	7	20	
Carbon tetrachloride	ug/L	< 0.50	50	50	56.0	57.9	112	116	70-132	3	20	
Chlorobenzene	ug/L	< 0.50	50	50	48.9	52.2	98	104	70-130	6	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

Date: 04/25/2014 09:14 AM

MATRIX SPIKE & MATRIX SPI	NE DOI LIOAI	E: 95939	MS	MSD	959391							
	41	095040001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD		Qua
Chloroethane	ug/L	<0.37	50	50	47.9	50.1	96	100	60-143	5	20	
Chloroform	ug/L	<2.5	50	50	57.9	60.9	116	122	70-130	5	20	
Chloromethane	ug/L	< 0.50	50	50	42.3	44.4	85	89	43-149	5	20	
cis-1,2-Dichloroethene	ug/L	< 0.26	50	50	50.4	52.5	101	105	48-137	4	33	
cis-1,3-Dichloropropene	ug/L	<0.15	50	50	53.8	57.2	108	114	70-130	6	20	
Dibromochloromethane	ug/L	< 0.32	50	50	47.8	51.4	96	103	70-130	7	20	
Dichlorodifluoromethane	ug/L	< 0.16	50	50	29.8	30.3	60	61	10-174	2	20	
Ethylbenzene	ug/L	< 0.50	50	50	53.8	58.0	108	116	70-130	8	20	
sopropylbenzene (Cumene)	ug/L	<0.12	50	50	55.9	59.5	112	119	70-136	6	20	
n&p-Xylene	ug/L	<1.0	100	100	109	119	109	119	70-135	9	20	
Methyl-tert-butyl ether	ug/L	0.47J	50	50	52.6	54.9	104	109	54-139	4	20	
Methylene Chloride	ug/L	< 0.23	50	50	51.1	53.8	102	108	70-133	5	20	
o-Xylene	ug/L	< 0.50	50	50	55.5	60.4	111	121	70-130	8	20	
Styrene	ug/L	<0.15	50	50	57.6	61.5	115	123	70-130	7	20	
Tetrachloroethene	ug/L	< 0.50	50	50	46.5	48.8	92	97	70-130	5	20	
Toluene	ug/L	< 0.50	50	50	49.6	53.4	99	107	70-130	7	20	
rans-1,2-Dichloroethene	ug/L	< 0.24	50	50	50.2	52.9	100	106	70-130	5	20	
rans-1,3-Dichloropropene	ug/L	< 0.23	50	50	46.6	50.8	93	102	70-130	9	20	
Trichloroethene	ug/L	< 0.33	50	50	51.7	55.0	103	110	70-130	6	20	
Trichlorofluoromethane	ug/L	<0.17	50	50	52.0	53.5	104	107	50-150	3	20	
/inyl chloride	ug/L	<0.18	50	50	46.5	47.8	93	96	59-158	3	20	
1-Bromofluorobenzene (S)	%						108	107	59-130			
Dibromofluoromethane (S)	%						100	98	70-130			
Toluene-d8 (S)	%						96	97	70-130			



1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

QUALIFIERS

Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

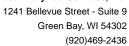
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

Date: 04/25/2014 09:14 AM

PASI-G Pace Analytical Services - Green Bay





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

Date: 04/25/2014 09:14 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4095040001	MW-1	EPA 8260	MSV/23906		
4095040002	TMW-2	EPA 8260	MSV/23906		
4095040003	TMW-3	EPA 8260	MSV/23906		
4095040004	TMW-4	EPA 8260	MSV/23906		

	(Please Print Clearly)												EST R			Page I	Oi
Company Name	e: Mach IV Eng)							MN: 6	12-607	-1700	WI: 920-469-2436			19
Branch/Locatio			1 /		Pace		alytic					- \	Ó			4095	0H0 🖁
Project Contact	1: Chad M. Fradot	40	1 /			www.p	pacelabs.c	com				A	30	Quote #:			040 Jege 18 0 18 0 18 0 18 0 18 0 18 0 18 0 18
Phone:	979 6150019			C	H/	IN	OF	C	US	TO	DY	3		Mail To Contact:			Ш
Project Number	r 0721-01-14		A=No		HCL C≔		*Preserva	ation Code	es	=Methar		аОН		Mail To Company:			
Project Name:	webster Residence	/WDOT	H=Sc	odium Bisu	fate Soluti	on	I=Sodiur	n Thiosulfa	ate J:	Other]	Mail To Address:			
Project State:	WI-PECFA			RED? (NO)	Y/N	M											
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Sampled By (Si	I Walk Myssell	6		···	l									Invoice To Company:		MILL 241-011	
PO #:		gulatory rogram:			este									Invoice To Address:			
Data Package	In)		rix Codes W = Water	5] 👼		4										
☐ EPA I	Level III (billable) C = C	Biota Charcoal	DW = Drinki GW = Groun SW = Surface	nd Water	Analyses Requested	200	?							Invoice To Phone:			
☐ EPA I	Level IV S = S	Soil Sludge	WW = Wast WP = Wipe		Analy	>								CLIENT		OMMENTS	Profile #
PACE LAB#	CLIENT FIELD ID	DATE	ECTION TIME	MATRIX										COMMENTS	-	Jse Only)	
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(Rush TA	naround Time Requested - Prelims AT subject to approval/surcharge) Date Needed:		iquished By:	211	h Jug	4	9/2	ite/Time: ///// ite/Time:	13.	RÒ	Received	lle	1/60	Pate/Time: Understanding	(320	PACE PRO 40950	
§	n Rush Results by (complete what you want		.,		1	, 		4- 671				10				Receipt Temp =	201 °C
Email #1: Email #2:		Relin	quished By:				Da	te/Time:			Received	ву:		Date/Time:		Sample R	
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Fax:	mples on HOLD are subject to	Dollo	iquished By:				Da	ite/Time:			Received	l By:		Date/Time:		Cooler Cus Present / N	
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Sample Condition Upon Receipt

Pace Analytical Services, Inc. 1241 Bellevue Street, Suite 9 Green Bay, WI 54302

/ Pace Analytical ™				Gigen day, vii o4
/			Project# WO#:4	095040
Client Name: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			N. S. D. 11 (SE) 1 1 1 1 1	
Courier: Fed Ex F UPS Client F Pac	oe Other:			
Tracking #:			4095040	
Custody Seal on Cooler/Box Present: Tyes			**	
Custody Seal on Samples Present: yes Packing Material: Bubble Wrap Bub			t: Tyes Tho	
Thermometer Used			Blue Dry None — Samples or	n ice, cooling process has begun
Cooler Temperature Uncorr: (CO) /Corr:	1,7000.		ogical Tissue is Frozen: Tyes	
Temp Blank Present: Tyes Tho			厂 no	Person examining contents:
Temp should be above freezing to 6°C for all sample exc	cept Biota.			Date: 4/2/1/0
Frozen Biota Samples should be received ≤ 0°C.			Comments:	Initials:
Chain of Custody Present:	ØYes □		1.	
Chain of Custody Filled Out:	Æ Yes □	No DN/A	2.	
Chain of Custody Relinquished:	Yes 🗆	No DN/A	3.	
Sampler Name & Signature on COC:	√ Yes □	No □N/A	4.	
Samples Arrived within Hold Time:	□¥es □	No □N/A	5.	
- VOA Samples frozen upon receipt	□Yes □	No	Date/Time:	
Short Hold Time Analysis (<72hr):	□Yes 🗷	NO DNIA	6.	
Rush Turn Around Time Requested:	□Yes 🖸	No □N/A	7.	
Sufficient Volume:	☑Yes □	No □N/A	8.	
Correct Containers Used:	Ž Yes □	No □N/A	9.	
-Pace Containers Used:	√∐Yes □	No □N/A		
-Pace IR Containers Used:	□Yes □	No DN/A		
Containers Intact:		No 🗆 N/A	10.	
Filtered volume received for Dissolved tests	□Yes □	No ĐNA	11.	
Sample Labels match COC: OHAJUIM	Yes	N/A	12. ho collection of	late or times
-Includes date/time/ID/Analysis Matrix:	\sim			QXG 4/2/14
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	□Yes □	No DIVIA	13 F HNO3 F H2SO4 F	■ NaOH F NaOH +ZnAct
All containers needing preservation are found to be in			10.	
compliance with EPA recommendation.	☐Yes ☐	No 🗖 M/A		
(HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12) exceptions (VOA, coliform, TOC, TOX, TOH,			Initial when Lab Std #ID of	Date/
O&G, WIDROW, Phenolics, OTHER:	∠⊒Yes □		completed preservative	Time:
Headspace in VOA Vials (>6mm):		No □N/A		
Trip Blank Present:		No □N/A		
Trip Blank Custody Seals Present	□Yes □	NO DATA		
Pace Trip Blank Lot # (if purchased):			If the sheet are officed	ned form for additional comments
Client Notification/ Resolution: Person Contacted:		Date	Time:	Lea form for additional comments
Comments/ Resolution:				
	,			
Project Manager Review:		LA	Date:	4-21-19