



November 3, 2015

Reference No. 058505

Mr. Brian Cooke
Alliant Energy
PO Box 77007
4902 North Biltmore Lane
Madison, Wisconsin 53707-1007

Dear Mr. Cooke:

**Re: Groundwater Sample Results
Wisconsin Power and Light Co.
540 West Delavan Drive
Janesville, Wisconsin**

1. Introduction

GHD Services, Inc. (GHD), formerly Conestoga-Rovers & Associates (CRA), has prepared this letter on behalf of General Motors, LLC (GM) to transmit the groundwater analytical results from samples collected in August 2015 at the Wisconsin Power and Light Company (Co.) (WP&L) property located at 540 West Delavan Drive, Janesville, Wisconsin (WP&L Property) per the requirements of section (s.) NR 716.14(2), Wisconsin Administrative Code (Wis. Adm. Code). The sampling activities were completed as part of the addendum to the site investigation conducted by GM on the GM Janesville Assembly Plant property located at 1000 General Motors Drive, Janesville, Wisconsin (Site) under Wisconsin Department of Natural Resources (WDNR) Bureau for Remediation and Redevelopment Tracking System (BRRTS) Number (#) 02-54-560205. The Site is located south and adjacent to the WP&L Property, across Delevan Drive. The Site location is presented on Figure 1.

2. Site Investigation

The sampling was conducted pursuant to a work plan addendum scope of work presented in a site investigation report that was approved by the WDNR on May 8, 2015. The work included the collection of one round of groundwater samples from the two existing monitoring wells (MW-26S and MW-27S) located on the WP&L Property. An Access Agreement was previously executed between GM and WP&L on August 19, 2014. Monitoring wells MW-26S and MW-27S were previously installed on September 8, 2014 as part of the site investigation and soil and groundwater samples were

subsequently collected in September 2014. The results of the 2014 sampling event were transmitted to WP&L on October 31, 2014. Sample locations are presented on Figures 2 and 3.

Monitoring wells MW-26S and MW-27S were sampled a second time on August 25, 2015. The groundwater analytical results were validated by a GHD chemist and were deemed acceptable with the qualifications noted. The groundwater analytical results were compared to the ch. NR 140, Wis. Adm. Code Enforcement Standards (ES) and Preventive Action Limits (PALs). A summary of the groundwater analytical results collected to date compared to the ES and PALs is presented in Table 1 and on Figure 4.

The laboratory analytical report for the 2015 sampling event is included as Attachment A.

3. Contact Information

The contact information for the person(s) responsible for completing this environmental investigation (Responsible Party [RP]), the environmental consultant conducting this work on behalf of the RP, and the WDNR contact are all provided below.

RP Contact

Ms. Kim Tucker-Billingslea
General Motors, LLC -
Global Environmental Compliance & Sustainability - Remediation Team
M/C 480-111-1N
WTC Engineering Bldg 1-11 1d-7
30200 Mound Road
Warren, Michigan 48090
Telephone: (248) 255-2797
Email: kim.tucker-billingslea@gm.com

Environmental Consultant

Julie Charlton
GHD Services, Inc.
1880 Assumption Street, Unit 200
Windsor, Ontario N8Y 1C4
Telephone: (519) 966-9886
Email: julie.charlton@ghd.com

WDNR Contact

Mr. Shawn Wenzel
WDNR - Remediation & Redevelopment Program
2514 Morse Street
Janesville, Wisconsin 53545-0249
Telephone: (608) 758-4934
Email: shawn.wenzel@wisconsin.gov

Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

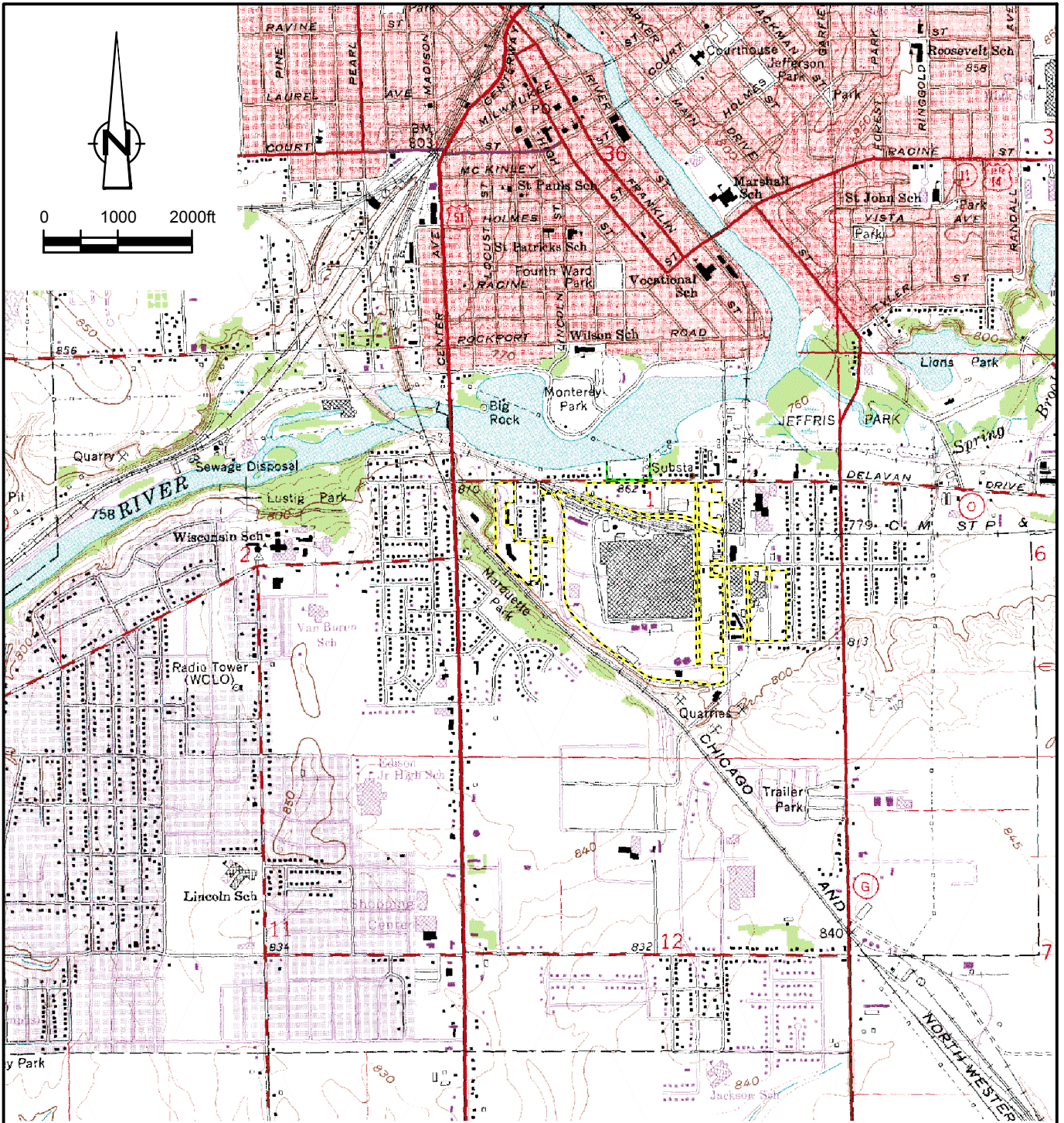


Julie Charlton

JC/sp/1

Encl.

cc: Shawn Wenzel, WDNR
Kim Tucker-Billingslea, GM LLC



SOURCE: USGS QUADRANGLE MAP;
 JANESVILLE WEST, WISCONSIN,
 PHOTOREVISED 1971 AND 1976

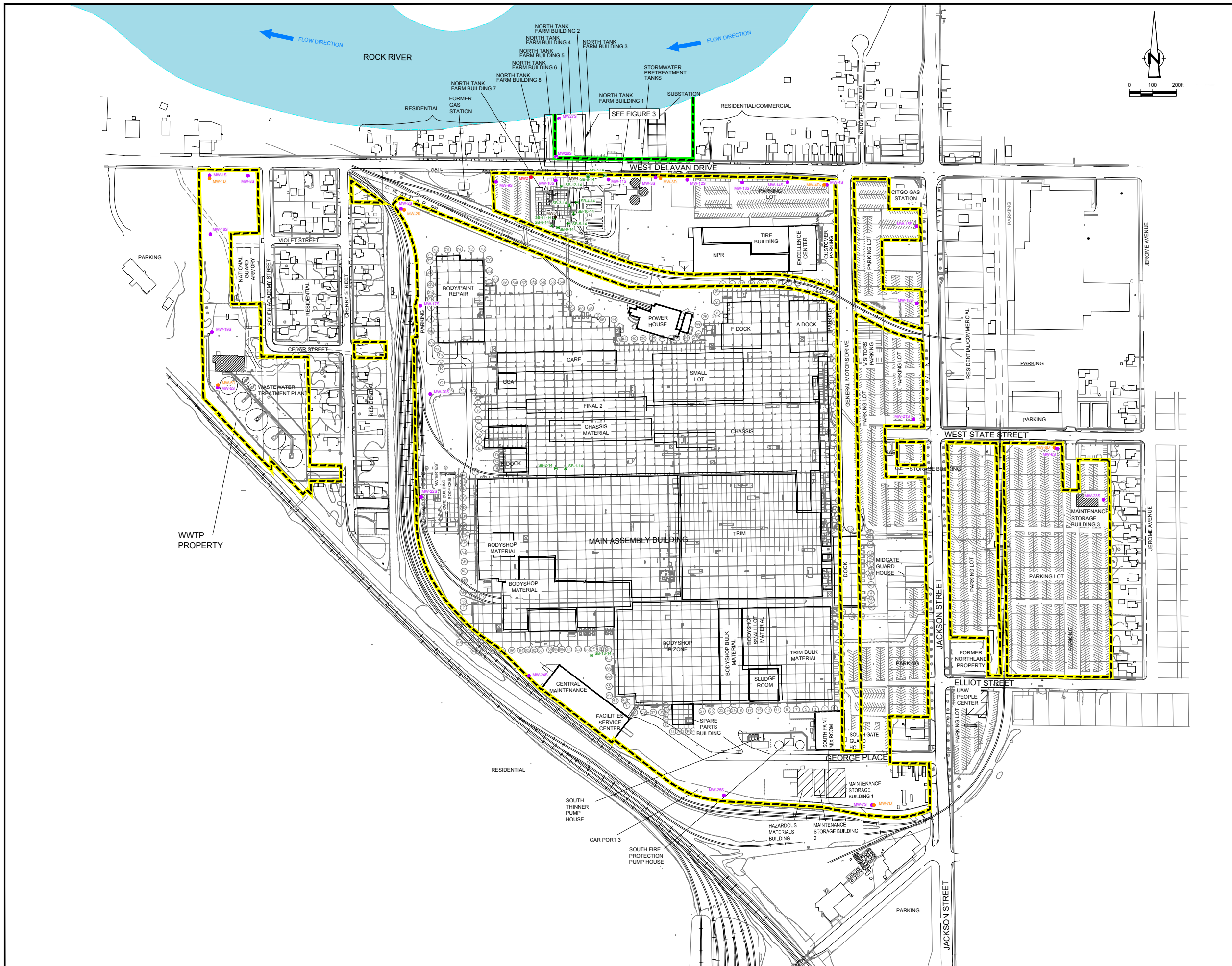
LEGEND

- GM JANESVILLE ASSEMBLY PLANT PROPERTY BOUNDARY
- APPROXIMATE WISCONSIN POWER AND LIGHT CO. PROPERTY BOUNDARY



JANESVILLE
 WISCONSIN

figure 1
 SITE LOCATION
 GM JANESVILLE ASSEMBLY PLANT
 Janesville, Wisconsin



LEGEND

- GM JANESVILLE ASSEMBLY PLANT PROPERTY BOUNDARY
- APPROXIMATE WISCONSIN POWER AND LIGHT CO. PROPERTY BOUNDARY
- RAILROAD
- FENCE LINE
- MW-15 MONITORING WELL LOCATION, WARZYN, 1988
- MW-10 SHALLOW MONITORING WELL LOCATION, CRA, 2011
- MW-25 DEEP MONITORING WELL LOCATION, CRA, 2011
- SB-1-14 SOIL BORING LOCATION, CRA, 2014
- SB-2-14 SOIL BORING LOCATION, CRA, 2014
- SB-3-14 SOIL BORING LOCATION, CRA, 2014

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

**GM JANESVILLE ASSEMBLY PLANT
JANESVILLE, WISCONSIN**

**SAMPLING LOCATIONS -
SEPTEMBER 2014**

Source Reference:
CSG JOB NUMBER: 1020101, FILE NAME: 10A05AS5.DWG, SHEETS 1 TO 10 OF 10, CROWN SERVICES GROUP, 03/09/2011.

Project Manager: M. DARNTON	Reviewed By: J. CHARLTON	Date: OCTOBER 2014
Scale: AS SHOWN	Project N ^o : 58505-01	Report N ^o : COOK001
		Drawing N ^o : figure 2

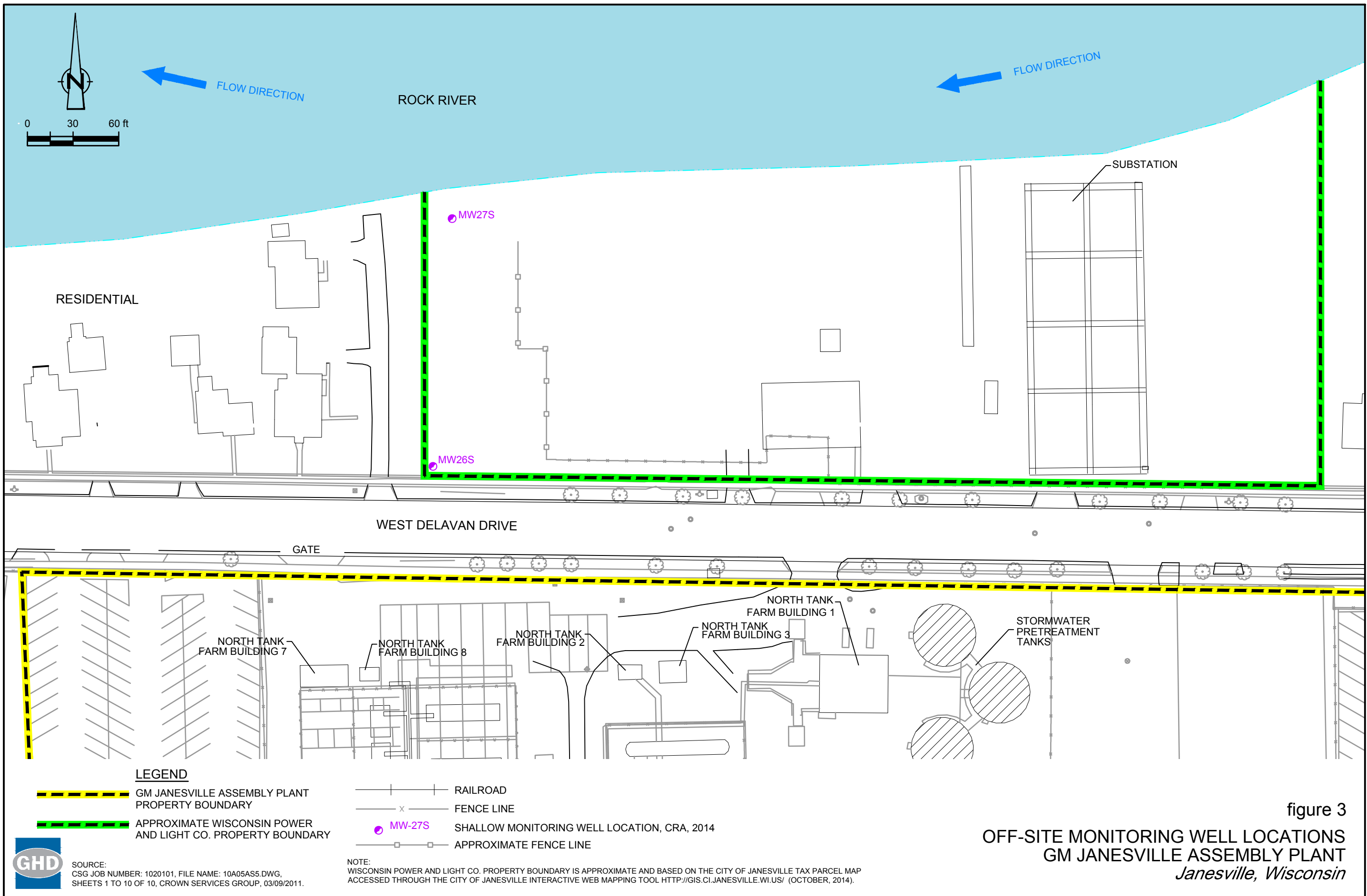
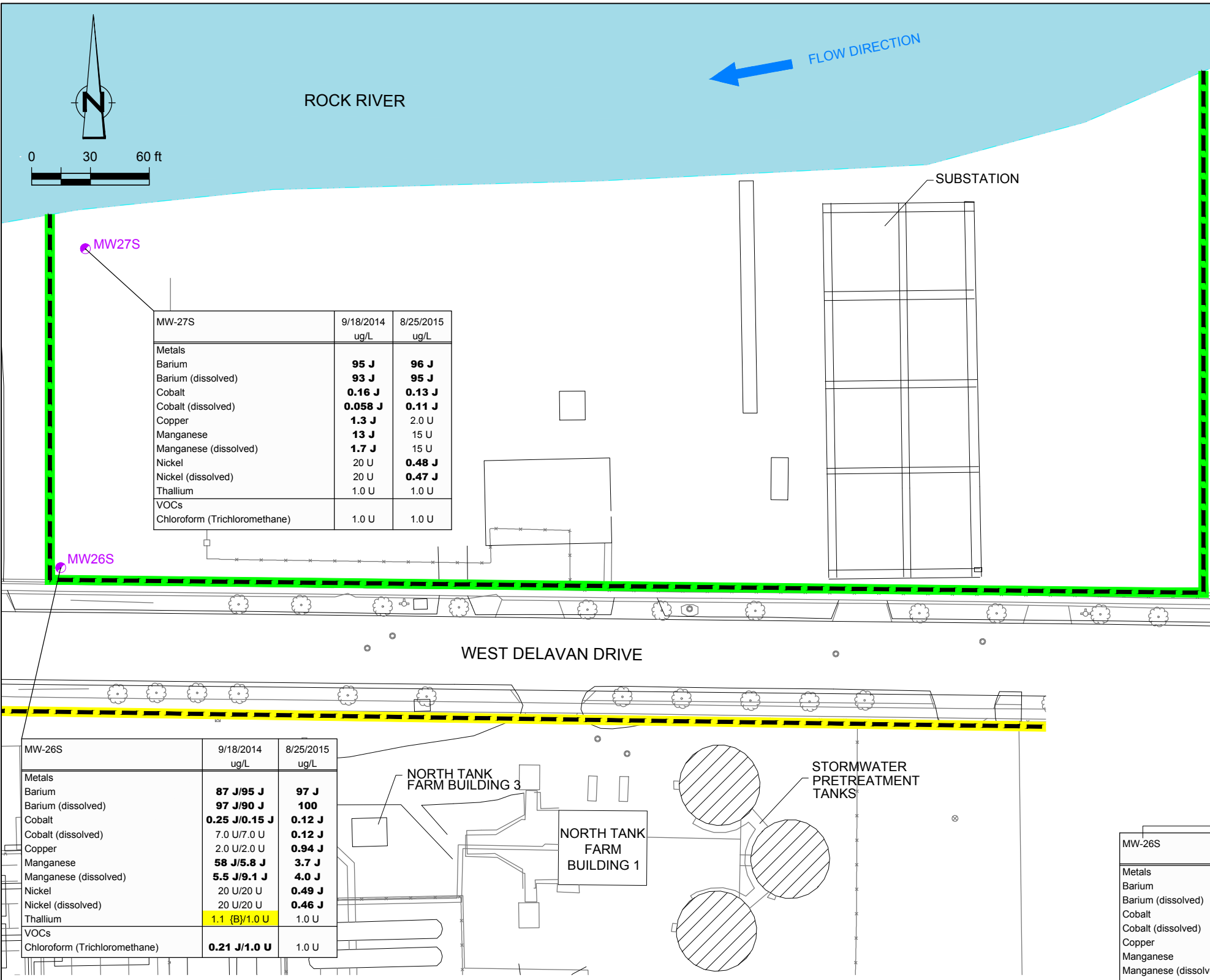


figure 3
 OFF-SITE MONITORING WELL LOCATIONS
 GM JANESVILLE ASSEMBLY PLANT
 Janesville, Wisconsin



MW-27S	9/18/2014 ug/L	8/25/2015 ug/L
Metals		
Barium	95 J	96 J
Barium (dissolved)	93 J	95 J
Cobalt	0.16 J	0.13 J
Cobalt (dissolved)	0.058 J	0.11 J
Copper	1.3 J	2.0 U
Manganese	13 J	15 U
Manganese (dissolved)	1.7 J	15 U
Nickel	20 U	0.48 J
Nickel (dissolved)	20 U	0.47 J
Thallium	1.0 U	1.0 U
VOCs		
Chloroform (Trichloromethane)	1.0 U	1.0 U

MW-26S	9/18/2014 ug/L	8/25/2015 ug/L
Metals		
Barium	87 J/95 J	97 J
Barium (dissolved)	97 J/90 J	100
Cobalt	0.25 J/0.15 J	0.12 J
Cobalt (dissolved)	7.0 U/7.0 U	0.12 J
Copper	2.0 U/2.0 U	0.94 J
Manganese	58 J/5.8 J	3.7 J
Manganese (dissolved)	5.5 J/9.1 J	4.0 J
Nickel	20 U/20 U	0.49 J
Nickel (dissolved)	20 U/20 U	0.46 J
Thallium	1.1 (B)/1.0 U	1.0 U
VOCs		
Chloroform (Trichloromethane)	0.21 J/1.0 U	1.0 U

- LEGEND**
- GM JANESVILLE ASSEMBLY PLANT PROPERTY BOUNDARY
 - APPROXIMATE WISCONSIN POWER AND LIGHT CO. PROPERTY BOUNDARY
 - RAILROAD
 - FENCE LINE
 - MW-27S SHALLOW MONITORING WELL LOCATION, CRA, 2014
 - APPROXIMATE FENCE LINE
 - 95J** DETECTED CONCENTRATION
 - 1.1 {B}** DETECTED CONCENTRATION EXCEEDS CRITERIA NOTED
 - ES ENFORCEMENT STANDARD
 - NV NO VALUE, CRITERIA IS NOT PROMULGATED
 - PAL PREVENTIVE ACTION LIMIT
 - U NOT DETECTED AT THE ASSOCIATED REPORTING LIMIT
 - J ESTIMATED CONCENTRATION
 - µg/L MICROGRAMS PER LITER
 - UJ NOT DETECTED; ASSOCIATED REPORTING LIMIT IS ESTIMATED
 - 7.0 U/7.0 U PARENT RESULT/DUPLICATE RESULT

NOTES:
 (1). CHAPTER (CH.) NR 140, WISCONSIN ADMINISTRATIVE CODE (WIS. ADM. CODE).
 WISCONSIN POWER AND LIGHT CO. PROPERTY BOUNDARY IS APPROXIMATE AND BASED ON THE CITY OF JANESVILLE TAX PARCEL MAP ACCESSED THROUGH THE CITY OF JANESVILLE INTERACTIVE WEB MAPPING TOOL HTTP://GIS.CI.JANESVILLE.WI.US/ (OCTOBER, 2014).

	NR 140, Wis. Adm. Code ⁽¹⁾	
	ES	PAL
	a	b
Metals (ug/L)		
Barium	2000	400
Barium (dissolved)	NV	NV
Cobalt	40	8
Cobalt (dissolved)	NV	NV
Copper	1300	130
Manganese	300	60
Manganese (dissolved)	NV	NV
Nickel	100	20
Nickel (dissolved)	NV	NV
Thallium	2	0.4
Volatile Organic Compounds (VOCs) (ug/L)		
Chloroform (Trichloromethane)	6	0.6

MW-26S	8/25/2015 ug/L
Metals	
Barium	97 J
Barium (dissolved)	100
Cobalt	0.12 J
Cobalt (dissolved)	0.12 J
Copper	0.94 J
Manganese	3.7 J
Manganese (dissolved)	4.0 J
Manganese	0.49 J
Manganese (dissolved)	0.46 J
Thallium	1.0 U
VOCs	
Chloroform (Trichloromethane)	1.0 U

figure 4
OFF-SITE GROUNDWATER ANALYTICAL RESULTS
GM JANESVILLE ASSEMBLY PLANT
Janesville, Wisconsin

SUMMARY OF OFF-SITE GROUNDWATER ANALYTICAL RESULTS
GM JANESVILLE ASSEMBLY PLANT
JANESVILLE, WISCONSIN

Sample Location:
Sample Identification:
Sample Date:
Sample Type:

MW-26S
GW-091814-JK-17
9/18/2014

MW-26S
GW-091814-JK-18
9/18/2014
Duplicate

MW-26S
GW-082515-JL-05
8/25/2015

MW-27S
GW-091814-JK-19
9/18/2014

MW-27S
GW-082515-JL-06
8/25/2015

	Units	NR 140, Wis. Adm. Code ⁽¹⁾							
		ES	PAL						
		a	b						
Metals									
Antimony	µg/L	6	1.2	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Antimony (dissolved)	µg/L	NV	NV	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Arsenic	µg/L	10	1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Arsenic (dissolved)	µg/L	NV	NV	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Barium	µg/L	2000	400	87 J	95 J	97 J	95 J	96 J	96 J
Barium (dissolved)	µg/L	NV	NV	97 J	90 J	100	93 J	95 J	95 J
Beryllium	µg/L	4	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Beryllium (dissolved)	µg/L	NV	NV	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cadmium	µg/L	5	0.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cadmium (dissolved)	µg/L	NV	NV	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	µg/L	100	10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chromium (dissolved)	µg/L	NV	NV	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chromium III (trivalent)	µg/L	NV	NV	20 U	20 U	20 U	20 U	20 U	20 U
Chromium VI (hexavalent)	µg/L	NV	NV	20 U	20 U	20 U	20 U	20 U	20 U
Cobalt	µg/L	40	8	0.25 J	0.15 J	0.12 J	0.16 J	0.13 J	0.13 J
Cobalt (dissolved)	µg/L	NV	NV	7.0 U	7.0 U	0.12 J	0.058 J	0.11 J	0.11 J
Copper	µg/L	1300	130	2.0 U	2.0 U	0.94 J	1.3 J	2.0 U	2.0 U
Copper (dissolved)	µg/L	NV	NV	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Lead	µg/L	15	1.5	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Lead (dissolved)	µg/L	NV	NV	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Manganese	µg/L	300	60	58 J	5.8 J	3.7 J	13 J	15 U	15 U
Manganese (dissolved)	µg/L	NV	NV	5.5 J	9.1 J	4.0 J	1.7 J	15 U	15 U
Mercury	µg/L	2	0.2	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Mercury (dissolved)	µg/L	NV	NV	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	µg/L	100	20	20 U	20 U	0.49 J	20 U	0.48 J	0.48 J
Nickel (dissolved)	µg/L	NV	NV	20 U	20 U	0.46 J	20 U	0.47 J	0.47 J
Selenium	µg/L	50	10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Selenium (dissolved)	µg/L	NV	NV	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Silver	µg/L	50	10	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Silver (dissolved)	µg/L	NV	NV	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Thallium	µg/L	2	0.4	1.1 ^b	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Thallium (dissolved)	µg/L	NV	NV	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vanadium	µg/L	30	6	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Vanadium (dissolved)	µg/L	NV	NV	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Zinc	µg/L	NV	NV	20 U	20 U	20 U	20 U	20 U	20 U
Zinc (dissolved)	µg/L	NV	NV	20 U	20 U	20 U	20 U	20 U	20 U
Semi-Volatile Organic Compounds (SVOCs)									
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl ether))	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	4.8 U
2,4,5-Trichlorophenol	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	4.8 U
2,4,6-Trichlorophenol	µg/L	NV	NV	3.8 U	3.9 U	3.8 U	4.0 U	3.8 U	3.8 U
2,4-Dichlorophenol	µg/L	NV	NV	9.6 U	9.7 U	9.5 U	10 U	9.6 U	9.6 U
2,4-Dimethylphenol	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	4.8 U
2,4-Dinitrophenol	µg/L	NV	NV	19 UJ	19 UJ	19 U	20 UJ	19 U	19 U
2,4-Dinitrotoluene	µg/L	0.05	0.005	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	4.8 U
2,6-Dinitrotoluene	µg/L	0.05	0.005	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	4.8 U
2-Chloronaphthalene	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	4.8 U
2-Chlorophenol	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	4.8 U
2-Methylnaphthalene	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	4.8 U
2-Methylphenol	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	4.8 U
2-Nitroaniline	µg/L	NV	NV	19 U	19 U	19 U	20 U	19 U	19 U
2-Nitrophenol	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	4.8 U
3&4-Methylphenol	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	4.8 U
3,3'-Dichlorobenzidine	µg/L	NV	NV	0.96 U	0.97 U	0.95 U	1.0 U	0.96 U	0.96 U
3-Nitroaniline	µg/L	NV	NV	19 U	19 U	19 U	20 U	19 U	19 U
4,6-Dinitro-2-methylphenol	µg/L	NV	NV	19 U	19 U	19 U	20 U	19 U	19 U
4-Bromophenyl phenyl ether	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	4.8 U
4-Chloro-3-methylphenol	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	4.8 U
4-Chloroaniline	µg/L	NV	NV	9.6 U	9.7 U	9.5 U	10 U	9.6 U	9.6 U
4-Chlorophenyl phenyl ether	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	4.8 U
4-Nitroaniline	µg/L	NV	NV	19 U	19 U	19 U	20 U	19 U	19 U
4-Nitrophenol	µg/L	NV	NV	19 U	19 U	19 U	20 U	19 U	19 U
Acenaphthene	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	4.8 U
Acenaphthylene	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	4.8 U
Acetophenone	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	4.8 U
Anthracene	µg/L	3000	600	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	4.8 U
Atrazine	µg/L	3	0.3	2.9 U	2.9 U	2.9 U	3.0 U	2.9 U	2.9 U
Benzaldehyde	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	4.8 U
Benzo(a)anthracene	µg/L	NV	NV	0.96 U	0.97 U	0.95 U	1.0 U	0.96 U	0.96 U
Benzo(a)pyrene	µg/L	0.2	0.02	0.96 U	0.97 U	0.95 U	1.0 U	0.96 U	0.96 U
Benzo(b)fluoranthene	µg/L	0.2	0.02	0.96 U	0.97 U	0.95 U	1.0 U	0.96 U	0.96 U
Benzo(g,h,i)perylene	µg/L	NV	NV	0.96 U	0.97 U	0.95 U	1.0 U	0.96 U	0.96 U
Benzo(k)fluoranthene	µg/L	NV	NV	0.96 U	0.97 U	0.95 U	1.0 U	0.96 U	0.96 U
Biphenyl (1,1-Biphenyl)	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	4.8 U
bis(2-Chloroethoxy)methane	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	4.8 U
bis(2-Chloroethyl)ether	µg/L	NV	NV	0.96 U	0.97 U	0.95 U	1.0 U	0.96 U	0.96 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	4.8 U
Butyl benzylphthalate (BBP)	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	4.8 U
Caprolactam	µg/L	NV	NV	9.6 U	9.7 U	9.5 U	10 U	9.6 U	9.6 U

SUMMARY OF OFF-SITE GROUNDWATER ANALYTICAL RESULTS
GM JANESVILLE ASSEMBLY PLANT
JANESVILLE, WISCONSIN

Sample Location:
Sample Identification:
Sample Date:
Sample Type:

MW-26S
GW-091814-JK-17
9/18/2014

MW-26S
GW-091814-JK-18
9/18/2014
Duplicate

MW-26S
GW-082515-JL-05
8/25/2015

MW-27S
GW-091814-JK-19
9/18/2014

MW-27S
GW-082515-JL-06
8/25/2015

	Units	NR 140, Wis. Adm. Code ⁽¹⁾							
		ES	PAL						
		a	b						
Carbazole	µg/L	NV	NV	9.6 U	9.7 U	9.5 U	10 U	9.6 U	
Chrysene	µg/L	0.2	0.02	0.96 U	0.97 U	0.95 U	1.0 U	0.96 U	
Dibenz(a,h)anthracene	µg/L	NV	NV	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	
Dibenzofuran	µg/L	NV	NV	3.8 U	3.9 U	3.8 U	4.0 U	3.8 U	
Diethyl phthalate	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	
Dimethyl phthalate	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	
Di-n-butylphthalate (DBP)	µg/L	1000	100	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	
Di-n-octyl phthalate (DnOP)	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	
Fluoranthene	µg/L	400	80	0.96 U	0.97 U	0.95 U	1.0 U	0.96 U	
Fluorene	µg/L	400	80	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	
Hexachlorobenzene	µg/L	1	0.1	0.19 U	0.19 U	0.19 U	0.20 U	0.19 U	
Hexachlorobutadiene	µg/L	NV	NV	0.96 U	0.97 U	0.95 U	1.0 U	0.96 U	
Hexachlorocyclopentadiene	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	
Hexachloroethane	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	
Indeno(1,2,3-cd)pyrene	µg/L	NV	NV	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	
Isophorone	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	
Naphthalene	µg/L	100	10	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	
Nitrobenzene	µg/L	NV	NV	2.9 U	2.9 U	2.9 U	3.0 U	2.9 U	
N-Nitrosodi-n-propylamine	µg/L	NV	NV	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	
N-Nitrosodiphenylamine	µg/L	7	0.7	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	
Pentachlorophenol	µg/L	1	0.1	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	
Phenanthrene	µg/L	NV	NV	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	
Phenol	µg/L	2000	400	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	
Pyrene	µg/L	250	50	4.8 U	4.9 U	4.8 U	5.1 U	4.8 U	
Volatile Organic Compounds (VOCs)									
1,1,1-Trichloroethane	µg/L	200	40	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,1,2,2-Tetrachloroethane	µg/L	0.2	0.02	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,1,2-Trichloroethane	µg/L	5	0.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,1-Dichloroethane	µg/L	850	85	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,1-Dichloroethene	µg/L	7	0.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2,4-Trichlorobenzene	µg/L	70	14	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 UJ	
1,2,4-Trimethylbenzene	µg/L	480	96	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.2	0.02	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.05	0.005	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichlorobenzene	µg/L	600	60	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichloroethane	µg/L	5	0.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichloropropane	µg/L	5	0.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,3,5-Trimethylbenzene	µg/L	480	96	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,3-Dichlorobenzene	µg/L	600	120	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,4-Dichlorobenzene	µg/L	75	15	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	4000	800	10 U	10 U	10 U	10 U	10 U	
2-Hexanone	µg/L	NV	NV	10 U	10 U	10 U	10 U	10 U	
4-Methyl-2-pentanone (Methyl isobutyl ketone)	µg/L	50000	5000	10 U	10 U	10 U	10 U	10 U	
Acetone	µg/L	9000	1800	10 U	10 U	10 U	10 U	10 U	
Benzene	µg/L	5	0.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Bromodichloromethane	µg/L	0.6	0.06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Bromoform	µg/L	4.4	0.44	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Bromomethane (Methyl bromide)	µg/L	10	1	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 U	
Carbon disulfide	µg/L	1000	200	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Carbon tetrachloride	µg/L	5	0.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Chlorobenzene	µg/L	NV	NV	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Chloroethane	µg/L	400	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Chloroform (Trichloromethane)	µg/L	6	0.6	1.0 U	0.21 J	1.0 U	1.0 U	1.0 U	
Chloromethane (Methyl chloride)	µg/L	30	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
cis-1,2-Dichloroethene	µg/L	700	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
cis-1,3-Dichloropropene	µg/L	NV	NV	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Cyclohexane	µg/L	NV	NV	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Dibromochloromethane	µg/L	60	6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Dichlorodifluoromethane (CFC-12)	µg/L	1000	200	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Ethylbenzene	µg/L	700	140	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Isopropyl benzene	µg/L	NV	NV	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Methyl acetate	µg/L	NV	NV	10 U	10 U	10 U	10 U	10 U	
Methyl cyclohexane	µg/L	NV	NV	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Methyl tert butyl ether (MTBE)	µg/L	60	12	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Methylene chloride	µg/L	5	0.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Styrene	µg/L	100	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Tetrachloroethene	µg/L	5	0.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Toluene	µg/L	800	160	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
trans-1,2-Dichloroethene	µg/L	100	20	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
trans-1,3-Dichloropropene	µg/L	NV	NV	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Trichloroethene	µg/L	5	0.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Trichlorofluoromethane (CFC-11)	µg/L	NV	NV	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Trifluorotrchloroethane (Freon 113)	µg/L	NV	NV	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Vinyl chloride	µg/L	0.2	0.02	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Xylenes (total)	µg/L	2000	400	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	

SUMMARY OF OFF-SITE GROUNDWATER ANALYTICAL RESULTS
GM JANESVILLE ASSEMBLY PLANT
JANESVILLE, WISCONSIN

Sample Location: Sample Identification: Sample Date: Sample Type:	MW-26S		MW-26S		MW-26S		MW-27S		MW-27S	
	GW-091814-JK-17		GW-091814-JK-18		GW-082515-JL-05		GW-091814-JK-19		GW-082515-JL-06	
	9/18/2014		9/18/2014		8/25/2015		9/18/2014		8/25/2015	
	<i>NR 140, Wis. Adm. Code ⁽¹⁾</i>		<i>Duplicate</i>							
	<i>Units</i>	<i>ES</i>	<i>PAL</i>							
		<i>a</i>	<i>b</i>							
Additional VOCs										
Ethylene glycol	µg/L	14000	2800	10000 U	10000 U	--	10000 U	--		

Notes:

(1) Chapter (ch.) NR 140, Wisconsin Administrative Code (Wis. Adm. Code)

87 J Detected concentrations are bolded

1.1^b Detected concentration exceeds criteria noted

ES Enforcement Standard

J Estimated concentration.

NV No value, criteria is not promulgated

PAL Preventive Action Limit

U Not detected at the associated reporting limit.

µg/L micrograms per liter

UJ Not detected; associated reporting limit is estimated.

Attachment A Laboratory Analytical Report

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-54737-1

Client Project/Site: 58505, Janesville WI, SSOW 108011

For:

GHD Services Inc.

45 Farmington Valley Drive

Plainville, Connecticut 06062

Attn: Ms. Kathy Shaw



Authorized for release by:

9/9/2015 3:45:45 PM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: GHD Services Inc.
Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

Job ID: 240-54737-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: GHD Services Inc.

Project: 58505, Janesville WI, SSOW 108011

Report Number: 240-54737-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 08/26/2015; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 3.0° C, 3.2° C, 3.4° C and 3.6° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples GW-082515-JL-05 (240-54737-1) and GW-082515-JL-06 (240-54737-2) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 08/31/2015.

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

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Samples GW-082515-JL-05 (240-54737-1) and GW-082515-JL-06 (240-54737-2) were analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 08/27/2015 and analyzed on 09/06/2015.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 240-195072.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Case Narrative

Client: GHD Services Inc.
Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

Job ID: 240-54737-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

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

DISSOLVED METALS (ICPMS)

Samples GW-082515-JL-05 (240-54737-1) and GW-082515-JL-06 (240-54737-2) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 08/27/2015 and analyzed on 08/28/2015.

Some requested practical quantitation limits (PQLs) fall below the laboratory's verified standard quantitation limit. The continuing calibration blanks and method blanks may not support the lower PQL.

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

TOTAL RECOVERABLE METALS (ICPMS)

Samples GW-082515-JL-05 (240-54737-1) and GW-082515-JL-06 (240-54737-2) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 08/27/2015 and analyzed on 08/28/2015.

Some requested practical quantitation limits (PQLs) fall below the laboratory's verified standard quantitation limit. The continuing calibration blanks and method blanks may not support the lower PQL.

Arsenic, Chromium, Lead, Selenium and Vanadium were detected in method blank MB 240-195074/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

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

HEXAVALENT CHROMIUM

Samples GW-082515-JL-05 (240-54737-1) and GW-082515-JL-06 (240-54737-2) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were analyzed on 08/26/2015.

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

DISSOLVED MERCURY (CVAA)

Samples GW-082515-JL-05 (240-54737-1) and GW-082515-JL-06 (240-54737-2) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 08/27/2015 and analyzed on 08/28/2015.

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

TOTAL MERCURY

Samples GW-082515-JL-05 (240-54737-1) and GW-082515-JL-06 (240-54737-2) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 08/27/2015 and analyzed on 08/28/2015.

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

TRIVALENT CHROMIUM

Samples GW-082515-JL-05 (240-54737-1) and GW-082515-JL-06 (240-54737-2) were analyzed for trivalent chromium in accordance with EPA SW-846 Method 7196A_CR3. The samples were analyzed on 09/01/2015.

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

Method Summary

Client: GHD Services Inc.
Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
7196A	Chromium, Hexavalent	SW846	TAL CAN
7196A	Chromium, Trivalent (Colorimetric)	SW846	TAL CAN

Protocol References:

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

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396



Sample Summary

Client: GHD Services Inc.
Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-54737-1	GW-082515-JL-05	Water	08/25/15 11:55	08/26/15 09:30
240-54737-2	GW-082515-JL-06	Water	08/25/15 12:00	08/26/15 09:30

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Detection Summary

Client: GHD Services Inc.
 Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

Client Sample ID: GW-082515-JL-05

Lab Sample ID: 240-54737-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.77	J B	5.0	0.18	ug/L	1		6020	Total
Barium	97	J	100	1.1	ug/L	1		6020	Total
Cobalt	0.12	J	7.0	0.021	ug/L	1		6020	Total
Chromium	2.7	J B	5.0	0.20	ug/L	1		6020	Total
Copper	0.94	J	2.0	0.75	ug/L	1		6020	Total
Manganese	3.7	J	15	1.1	ug/L	1		6020	Total
Nickel	0.49	J	20	0.23	ug/L	1		6020	Total
Lead	0.14	J B	3.0	0.11	ug/L	1		6020	Total
Selenium	1.6	J B	5.0	0.25	ug/L	1		6020	Total
Vanadium	0.95	J B	4.0	0.23	ug/L	1		6020	Total
Arsenic	0.75	J B	5.0	0.18	ug/L	1		6020	Dissolved
Cobalt	0.12	J	7.0	0.021	ug/L	1		6020	Dissolved
Chromium	2.5	J B	5.0	0.20	ug/L	1		6020	Dissolved
Manganese	4.0	J	15	1.1	ug/L	1		6020	Dissolved
Nickel	0.46	J	20	0.23	ug/L	1		6020	Dissolved
Selenium	1.5	J B	5.0	0.25	ug/L	1		6020	Dissolved
Vanadium	0.94	J B	4.0	0.23	ug/L	1		6020	Dissolved
Barium	100		100	1.1	ug/L	1		6020	Dissolved

Client Sample ID: GW-082515-JL-06

Lab Sample ID: 240-54737-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.76	J B	5.0	0.18	ug/L	1		6020	Total
Barium	96	J	100	1.1	ug/L	1		6020	Total
Cobalt	0.13	J	7.0	0.021	ug/L	1		6020	Total
Chromium	2.9	J B	5.0	0.20	ug/L	1		6020	Total
Nickel	0.48	J	20	0.23	ug/L	1		6020	Total
Selenium	1.3	J B	5.0	0.25	ug/L	1		6020	Total
Vanadium	1.0	J B	4.0	0.23	ug/L	1		6020	Total
Arsenic	0.74	J B	5.0	0.18	ug/L	1		6020	Dissolved
Cobalt	0.11	J	7.0	0.021	ug/L	1		6020	Dissolved
Chromium	2.9	J B	5.0	0.20	ug/L	1		6020	Dissolved
Nickel	0.47	J	20	0.23	ug/L	1		6020	Dissolved
Selenium	1.2	J B	5.0	0.25	ug/L	1		6020	Dissolved
Vanadium	1.1	J B	4.0	0.23	ug/L	1		6020	Dissolved
Barium	95	J	100	1.1	ug/L	1		6020	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
 Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

Client Sample ID: GW-082515-JL-05

Lab Sample ID: 240-54737-1

Date Collected: 08/25/15 11:55

Matrix: Water

Date Received: 08/26/15 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			08/31/15 17:54	1
Benzene	1.0	U	1.0	0.35	ug/L			08/31/15 17:54	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			08/31/15 17:54	1
Bromoform	1.0	U	1.0	0.56	ug/L			08/31/15 17:54	1
Bromomethane	1.0	U	1.0	0.44	ug/L			08/31/15 17:54	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			08/31/15 17:54	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			08/31/15 17:54	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			08/31/15 17:54	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			08/31/15 17:54	1
Chloroethane	1.0	U	1.0	0.32	ug/L			08/31/15 17:54	1
Chloroform	1.0	U	1.0	0.25	ug/L			08/31/15 17:54	1
Chloromethane	1.0	U	1.0	0.44	ug/L			08/31/15 17:54	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			08/31/15 17:54	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			08/31/15 17:54	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			08/31/15 17:54	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			08/31/15 17:54	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			08/31/15 17:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			08/31/15 17:54	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			08/31/15 17:54	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			08/31/15 17:54	1
2-Hexanone	10	U	10	0.48	ug/L			08/31/15 17:54	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			08/31/15 17:54	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			08/31/15 17:54	1
Styrene	1.0	U	1.0	0.45	ug/L			08/31/15 17:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			08/31/15 17:54	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			08/31/15 17:54	1
Toluene	1.0	U	1.0	0.23	ug/L			08/31/15 17:54	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			08/31/15 17:54	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			08/31/15 17:54	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			08/31/15 17:54	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			08/31/15 17:54	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			08/31/15 17:54	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			08/31/15 17:54	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			08/31/15 17:54	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			08/31/15 17:54	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			08/31/15 17:54	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			08/31/15 17:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			08/31/15 17:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/31/15 17:54	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/31/15 17:54	1
Methyl acetate	10	U	10	2.3	ug/L			08/31/15 17:54	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			08/31/15 17:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			08/31/15 17:54	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			08/31/15 17:54	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			08/31/15 17:54	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			08/31/15 17:54	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			08/31/15 17:54	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			08/31/15 17:54	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			08/31/15 17:54	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

Client Sample ID: GW-082515-JL-05

Lab Sample ID: 240-54737-1

Date Collected: 08/25/15 11:55

Matrix: Water

Date Received: 08/26/15 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			08/31/15 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		78 - 125					08/31/15 17:54	1
4-Bromofluorobenzene (Surr)	78		61 - 120					08/31/15 17:54	1
Toluene-d8 (Surr)	84		80 - 120					08/31/15 17:54	1
Dibromofluoromethane (Surr)	103		79 - 120					08/31/15 17:54	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	4.8	U	4.8	0.042	ug/L		08/27/15 08:45	09/06/15 11:30	1
Acenaphthylene	4.8	U	4.8	0.046	ug/L		08/27/15 08:45	09/06/15 11:30	1
Acetophenone	4.8	U	4.8	0.32	ug/L		08/27/15 08:45	09/06/15 11:30	1
Anthracene	4.8	U	4.8	0.084	ug/L		08/27/15 08:45	09/06/15 11:30	1
Atrazine	2.9	U	2.9	0.32	ug/L		08/27/15 08:45	09/06/15 11:30	1
Benzaldehyde	4.8	U	4.8	0.37	ug/L		08/27/15 08:45	09/06/15 11:30	1
Benzo[a]anthracene	0.95	U	0.95	0.028	ug/L		08/27/15 08:45	09/06/15 11:30	1
Benzo[b]fluoranthene	0.95	U	0.95	0.038	ug/L		08/27/15 08:45	09/06/15 11:30	1
Benzo[k]fluoranthene	0.95	U	0.95	0.043	ug/L		08/27/15 08:45	09/06/15 11:30	1
Benzo[g,h,i]perylene	0.95	U	0.95	0.044	ug/L		08/27/15 08:45	09/06/15 11:30	1
Benzo[a]pyrene	0.95	U	0.95	0.049	ug/L		08/27/15 08:45	09/06/15 11:30	1
Butyl benzyl phthalate	4.8	U	4.8	0.25	ug/L		08/27/15 08:45	09/06/15 11:30	1
1,1'-Biphenyl	4.8	U	4.8	0.12	ug/L		08/27/15 08:45	09/06/15 11:30	1
Bis(2-chloroethoxy)methane	4.8	U	4.8	0.30	ug/L		08/27/15 08:45	09/06/15 11:30	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		08/27/15 08:45	09/06/15 11:30	1
Bis(2-ethylhexyl) phthalate	4.8	U	4.8	1.6	ug/L		08/27/15 08:45	09/06/15 11:30	1
4-Bromophenyl phenyl ether	4.8	U	4.8	0.21	ug/L		08/27/15 08:45	09/06/15 11:30	1
Caprolactam	9.5	U	9.5	0.19	ug/L		08/27/15 08:45	09/06/15 11:30	1
Carbazole	9.5	U	9.5	0.27	ug/L		08/27/15 08:45	09/06/15 11:30	1
4-Chloroaniline	9.5	U	9.5	0.20	ug/L		08/27/15 08:45	09/06/15 11:30	1
4-Chloro-3-methylphenol	4.8	U	4.8	0.20	ug/L		08/27/15 08:45	09/06/15 11:30	1
2-Chloronaphthalene	4.8	U	4.8	0.095	ug/L		08/27/15 08:45	09/06/15 11:30	1
2-Chlorophenol	4.8	U	4.8	0.28	ug/L		08/27/15 08:45	09/06/15 11:30	1
4-Chlorophenyl phenyl ether	4.8	U	4.8	0.29	ug/L		08/27/15 08:45	09/06/15 11:30	1
Chrysene	0.95	U	0.95	0.048	ug/L		08/27/15 08:45	09/06/15 11:30	1
2-Methylnaphthalene	4.8	U	4.8	0.086	ug/L		08/27/15 08:45	09/06/15 11:30	1
3 & 4 Methylphenol	4.8	U	4.8	0.76	ug/L		08/27/15 08:45	09/06/15 11:30	1
Dibenz(a,h)anthracene	1.9	U	1.9	0.042	ug/L		08/27/15 08:45	09/06/15 11:30	1
Dibenzofuran	3.8	U	3.8	0.019	ug/L		08/27/15 08:45	09/06/15 11:30	1
3,3'-Dichlorobenzidine	0.95	U	0.95	0.35	ug/L		08/27/15 08:45	09/06/15 11:30	1
2,4-Dichlorophenol	9.5	U	9.5	0.18	ug/L		08/27/15 08:45	09/06/15 11:30	1
Diethyl phthalate	4.8	U	4.8	0.57	ug/L		08/27/15 08:45	09/06/15 11:30	1
2,4-Dimethylphenol	4.8	U	4.8	0.24	ug/L		08/27/15 08:45	09/06/15 11:30	1
Dimethyl phthalate	4.8	U	4.8	0.28	ug/L		08/27/15 08:45	09/06/15 11:30	1
4,6-Dinitro-2-methylphenol	19	U	19	2.3	ug/L		08/27/15 08:45	09/06/15 11:30	1
2,4-Dinitrophenol	19	U	19	0.30	ug/L		08/27/15 08:45	09/06/15 11:30	1
2,4-Dinitrotoluene	4.8	U	4.8	0.24	ug/L		08/27/15 08:45	09/06/15 11:30	1
Di-n-butyl phthalate	4.8	U	4.8	1.6	ug/L		08/27/15 08:45	09/06/15 11:30	1
Di-n-octyl phthalate	4.8	U	4.8	0.22	ug/L		08/27/15 08:45	09/06/15 11:30	1
Fluoranthene	0.95	U	0.95	0.042	ug/L		08/27/15 08:45	09/06/15 11:30	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

Client Sample ID: GW-082515-JL-05

Lab Sample ID: 240-54737-1

Date Collected: 08/25/15 11:55

Matrix: Water

Date Received: 08/26/15 09:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	4.8	U	4.8	0.039	ug/L		08/27/15 08:45	09/06/15 11:30	1
Hexachlorobenzene	0.19	U	0.19	0.081	ug/L		08/27/15 08:45	09/06/15 11:30	1
Hexachlorobutadiene	0.95	U	0.95	0.26	ug/L		08/27/15 08:45	09/06/15 11:30	1
Hexachlorocyclopentadiene	4.8	U	4.8	0.23	ug/L		08/27/15 08:45	09/06/15 11:30	1
Hexachloroethane	4.8	U	4.8	0.18	ug/L		08/27/15 08:45	09/06/15 11:30	1
Indeno[1,2,3-cd]pyrene	1.9	U	1.9	0.041	ug/L		08/27/15 08:45	09/06/15 11:30	1
Isophorone	4.8	U	4.8	0.26	ug/L		08/27/15 08:45	09/06/15 11:30	1
2-Methylphenol	4.8	U	4.8	0.16	ug/L		08/27/15 08:45	09/06/15 11:30	1
Naphthalene	4.8	U	4.8	0.060	ug/L		08/27/15 08:45	09/06/15 11:30	1
2-Nitroaniline	19	U	19	0.20	ug/L		08/27/15 08:45	09/06/15 11:30	1
3-Nitroaniline	19	U	19	0.27	ug/L		08/27/15 08:45	09/06/15 11:30	1
4-Nitroaniline	19	U	19	0.21	ug/L		08/27/15 08:45	09/06/15 11:30	1
Nitrobenzene	2.9	U	2.9	0.038	ug/L		08/27/15 08:45	09/06/15 11:30	1
2-Nitrophenol	4.8	U	4.8	0.27	ug/L		08/27/15 08:45	09/06/15 11:30	1
4-Nitrophenol	19	U	19	0.28	ug/L		08/27/15 08:45	09/06/15 11:30	1
N-Nitrosodiphenylamine	4.8	U	4.8	0.30	ug/L		08/27/15 08:45	09/06/15 11:30	1
N-Nitrosodi-n-propylamine	4.8	U	4.8	0.23	ug/L		08/27/15 08:45	09/06/15 11:30	1
2,2'-oxybis[1-chloropropane]	4.8	U	4.8	0.38	ug/L		08/27/15 08:45	09/06/15 11:30	1
Pentachlorophenol	4.8	U	4.8	0.26	ug/L		08/27/15 08:45	09/06/15 11:30	1
Phenanthrene	1.9	U	1.9	0.059	ug/L		08/27/15 08:45	09/06/15 11:30	1
Phenol	4.8	U	4.8	0.57	ug/L		08/27/15 08:45	09/06/15 11:30	1
Pyrene	4.8	U	4.8	0.040	ug/L		08/27/15 08:45	09/06/15 11:30	1
2,4,5-Trichlorophenol	4.8	U	4.8	0.29	ug/L		08/27/15 08:45	09/06/15 11:30	1
2,4,6-Trichlorophenol	3.8	U	3.8	0.23	ug/L		08/27/15 08:45	09/06/15 11:30	1
2,6-Dinitrotoluene	4.8	U	4.8	0.76	ug/L		08/27/15 08:45	09/06/15 11:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	52		29 - 110	08/27/15 08:45	09/06/15 11:30	1
2-Fluorophenol (Surr)	24		15 - 110	08/27/15 08:45	09/06/15 11:30	1
2,4,6-Tribromophenol (Surr)	35		21 - 128	08/27/15 08:45	09/06/15 11:30	1
Nitrobenzene-d5 (Surr)	51		31 - 110	08/27/15 08:45	09/06/15 11:30	1
Phenol-d5 (Surr)	13		10 - 110	08/27/15 08:45	09/06/15 11:30	1
Terphenyl-d14 (Surr)	50		31 - 115	08/27/15 08:45	09/06/15 11:30	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0	U	2.0	0.16	ug/L		08/27/15 08:50	08/28/15 20:40	1
Arsenic	0.77	J B	5.0	0.18	ug/L		08/27/15 08:50	08/28/15 20:40	1
Barium	97	J	100	1.1	ug/L		08/27/15 08:50	08/28/15 20:40	1
Beryllium	1.0	U	1.0	0.053	ug/L		08/27/15 08:50	08/28/15 20:40	1
Cadmium	1.0	U	1.0	0.061	ug/L		08/27/15 08:50	08/28/15 20:40	1
Cobalt	0.12	J	7.0	0.021	ug/L		08/27/15 08:50	08/28/15 20:40	1
Chromium	2.7	J B	5.0	0.20	ug/L		08/27/15 08:50	08/28/15 20:40	1
Copper	0.94	J	2.0	0.75	ug/L		08/27/15 08:50	08/28/15 20:40	1
Manganese	3.7	J	15	1.1	ug/L		08/27/15 08:50	08/28/15 20:40	1
Nickel	0.49	J	20	0.23	ug/L		08/27/15 08:50	08/28/15 20:40	1
Lead	0.14	J B	3.0	0.11	ug/L		08/27/15 08:50	08/28/15 20:40	1
Selenium	1.6	J B	5.0	0.25	ug/L		08/27/15 08:50	08/28/15 20:40	1
Thallium	1.0	U	1.0	0.074	ug/L		08/27/15 08:50	08/28/15 20:40	1
Vanadium	0.95	J B	4.0	0.23	ug/L		08/27/15 08:50	08/28/15 20:40	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

Client Sample ID: GW-082515-JL-05

Lab Sample ID: 240-54737-1

Date Collected: 08/25/15 11:55

Matrix: Water

Date Received: 08/26/15 09:30

Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	20	U	20	7.3	ug/L		08/27/15 08:50	08/28/15 20:40	1
Silver	0.20	U	0.20	0.020	ug/L		08/27/15 08:50	08/28/15 20:40	1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.20	U	0.20	0.020	ug/L		08/27/15 08:50	08/28/15 20:44	1
Arsenic	0.75	J B	5.0	0.18	ug/L		08/27/15 08:50	08/28/15 20:44	1
Beryllium	1.0	U	1.0	0.053	ug/L		08/27/15 08:50	08/28/15 20:44	1
Cadmium	1.0	U	1.0	0.061	ug/L		08/27/15 08:50	08/28/15 20:44	1
Cobalt	0.12	J	7.0	0.021	ug/L		08/27/15 08:50	08/28/15 20:44	1
Chromium	2.5	J B	5.0	0.20	ug/L		08/27/15 08:50	08/28/15 20:44	1
Copper	2.0	U	2.0	0.75	ug/L		08/27/15 08:50	08/28/15 20:44	1
Manganese	4.0	J	15	1.1	ug/L		08/27/15 08:50	08/28/15 20:44	1
Nickel	0.46	J	20	0.23	ug/L		08/27/15 08:50	08/28/15 20:44	1
Lead	3.0	U	3.0	0.11	ug/L		08/27/15 08:50	08/28/15 20:44	1
Antimony	2.0	U	2.0	0.16	ug/L		08/27/15 08:50	08/28/15 20:44	1
Selenium	1.5	J B	5.0	0.25	ug/L		08/27/15 08:50	08/28/15 20:44	1
Thallium	1.0	U	1.0	0.074	ug/L		08/27/15 08:50	08/28/15 20:44	1
Vanadium	0.94	J B	4.0	0.23	ug/L		08/27/15 08:50	08/28/15 20:44	1
Zinc	20	U	20	7.3	ug/L		08/27/15 08:50	08/28/15 20:44	1
Barium	100		100	1.1	ug/L		08/27/15 08:50	08/28/15 20:44	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		08/27/15 09:04	08/28/15 17:07	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		08/27/15 09:04	08/28/15 16:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.020	U	0.020	0.0021	mg/L			08/26/15 11:50	1
Cr (III)	0.020	U	0.020	0.0050	mg/L			09/01/15 07:34	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

Client Sample ID: GW-082515-JL-06

Lab Sample ID: 240-54737-2

Date Collected: 08/25/15 12:00

Matrix: Water

Date Received: 08/26/15 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			08/31/15 18:17	1
Benzene	1.0	U	1.0	0.35	ug/L			08/31/15 18:17	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			08/31/15 18:17	1
Bromoform	1.0	U	1.0	0.56	ug/L			08/31/15 18:17	1
Bromomethane	1.0	U	1.0	0.44	ug/L			08/31/15 18:17	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			08/31/15 18:17	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			08/31/15 18:17	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			08/31/15 18:17	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			08/31/15 18:17	1
Chloroethane	1.0	U	1.0	0.32	ug/L			08/31/15 18:17	1
Chloroform	1.0	U	1.0	0.25	ug/L			08/31/15 18:17	1
Chloromethane	1.0	U	1.0	0.44	ug/L			08/31/15 18:17	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			08/31/15 18:17	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			08/31/15 18:17	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			08/31/15 18:17	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			08/31/15 18:17	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			08/31/15 18:17	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			08/31/15 18:17	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			08/31/15 18:17	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			08/31/15 18:17	1
2-Hexanone	10	U	10	0.48	ug/L			08/31/15 18:17	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			08/31/15 18:17	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			08/31/15 18:17	1
Styrene	1.0	U	1.0	0.45	ug/L			08/31/15 18:17	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			08/31/15 18:17	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			08/31/15 18:17	1
Toluene	1.0	U	1.0	0.23	ug/L			08/31/15 18:17	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			08/31/15 18:17	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			08/31/15 18:17	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			08/31/15 18:17	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			08/31/15 18:17	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			08/31/15 18:17	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			08/31/15 18:17	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			08/31/15 18:17	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			08/31/15 18:17	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			08/31/15 18:17	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			08/31/15 18:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			08/31/15 18:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/31/15 18:17	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/31/15 18:17	1
Methyl acetate	10	U	10	2.3	ug/L			08/31/15 18:17	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			08/31/15 18:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			08/31/15 18:17	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			08/31/15 18:17	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			08/31/15 18:17	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			08/31/15 18:17	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			08/31/15 18:17	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			08/31/15 18:17	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			08/31/15 18:17	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

Client Sample ID: GW-082515-JL-06

Lab Sample ID: 240-54737-2

Date Collected: 08/25/15 12:00

Matrix: Water

Date Received: 08/26/15 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			08/31/15 18:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		78 - 125					08/31/15 18:17	1
4-Bromofluorobenzene (Surr)	77		61 - 120					08/31/15 18:17	1
Toluene-d8 (Surr)	85		80 - 120					08/31/15 18:17	1
Dibromofluoromethane (Surr)	101		79 - 120					08/31/15 18:17	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	4.8	U	4.8	0.043	ug/L		08/27/15 08:45	09/06/15 11:52	1
Acenaphthylene	4.8	U	4.8	0.046	ug/L		08/27/15 08:45	09/06/15 11:52	1
Acetophenone	4.8	U	4.8	0.33	ug/L		08/27/15 08:45	09/06/15 11:52	1
Anthracene	4.8	U	4.8	0.085	ug/L		08/27/15 08:45	09/06/15 11:52	1
Atrazine	2.9	U	2.9	0.33	ug/L		08/27/15 08:45	09/06/15 11:52	1
Benzaldehyde	4.8	U	4.8	0.37	ug/L		08/27/15 08:45	09/06/15 11:52	1
Benzo[a]anthracene	0.96	U	0.96	0.028	ug/L		08/27/15 08:45	09/06/15 11:52	1
Benzo[b]fluoranthene	0.96	U	0.96	0.038	ug/L		08/27/15 08:45	09/06/15 11:52	1
Benzo[k]fluoranthene	0.96	U	0.96	0.043	ug/L		08/27/15 08:45	09/06/15 11:52	1
Benzo[g,h,i]perylene	0.96	U	0.96	0.045	ug/L		08/27/15 08:45	09/06/15 11:52	1
Benzo[a]pyrene	0.96	U	0.96	0.049	ug/L		08/27/15 08:45	09/06/15 11:52	1
Butyl benzyl phthalate	4.8	U	4.8	0.25	ug/L		08/27/15 08:45	09/06/15 11:52	1
1,1'-Biphenyl	4.8	U	4.8	0.13	ug/L		08/27/15 08:45	09/06/15 11:52	1
Bis(2-chloroethoxy)methane	4.8	U	4.8	0.31	ug/L		08/27/15 08:45	09/06/15 11:52	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.096	ug/L		08/27/15 08:45	09/06/15 11:52	1
Bis(2-ethylhexyl) phthalate	4.8	U	4.8	1.6	ug/L		08/27/15 08:45	09/06/15 11:52	1
4-Bromophenyl phenyl ether	4.8	U	4.8	0.21	ug/L		08/27/15 08:45	09/06/15 11:52	1
Caprolactam	9.6	U	9.6	0.19	ug/L		08/27/15 08:45	09/06/15 11:52	1
Carbazole	9.6	U	9.6	0.27	ug/L		08/27/15 08:45	09/06/15 11:52	1
4-Chloroaniline	9.6	U	9.6	0.20	ug/L		08/27/15 08:45	09/06/15 11:52	1
4-Chloro-3-methylphenol	4.8	U	4.8	0.20	ug/L		08/27/15 08:45	09/06/15 11:52	1
2-Chloronaphthalene	4.8	U	4.8	0.096	ug/L		08/27/15 08:45	09/06/15 11:52	1
2-Chlorophenol	4.8	U	4.8	0.28	ug/L		08/27/15 08:45	09/06/15 11:52	1
4-Chlorophenyl phenyl ether	4.8	U	4.8	0.29	ug/L		08/27/15 08:45	09/06/15 11:52	1
Chrysene	0.96	U	0.96	0.048	ug/L		08/27/15 08:45	09/06/15 11:52	1
2-Methylnaphthalene	4.8	U	4.8	0.087	ug/L		08/27/15 08:45	09/06/15 11:52	1
3 & 4 Methylphenol	4.8	U	4.8	0.77	ug/L		08/27/15 08:45	09/06/15 11:52	1
Dibenz(a,h)anthracene	1.9	U	1.9	0.043	ug/L		08/27/15 08:45	09/06/15 11:52	1
Dibenzofuran	3.8	U	3.8	0.019	ug/L		08/27/15 08:45	09/06/15 11:52	1
3,3'-Dichlorobenzidine	0.96	U	0.96	0.36	ug/L		08/27/15 08:45	09/06/15 11:52	1
2,4-Dichlorophenol	9.6	U	9.6	0.18	ug/L		08/27/15 08:45	09/06/15 11:52	1
Diethyl phthalate	4.8	U	4.8	0.58	ug/L		08/27/15 08:45	09/06/15 11:52	1
2,4-Dimethylphenol	4.8	U	4.8	0.24	ug/L		08/27/15 08:45	09/06/15 11:52	1
Dimethyl phthalate	4.8	U	4.8	0.28	ug/L		08/27/15 08:45	09/06/15 11:52	1
4,6-Dinitro-2-methylphenol	19	U	19	2.3	ug/L		08/27/15 08:45	09/06/15 11:52	1
2,4-Dinitrophenol	19	U	19	0.31	ug/L		08/27/15 08:45	09/06/15 11:52	1
2,4-Dinitrotoluene	4.8	U	4.8	0.24	ug/L		08/27/15 08:45	09/06/15 11:52	1
Di-n-butyl phthalate	4.8	U	4.8	1.6	ug/L		08/27/15 08:45	09/06/15 11:52	1
Di-n-octyl phthalate	4.8	U	4.8	0.22	ug/L		08/27/15 08:45	09/06/15 11:52	1
Fluoranthene	0.96	U	0.96	0.043	ug/L		08/27/15 08:45	09/06/15 11:52	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

Client Sample ID: GW-082515-JL-06

Lab Sample ID: 240-54737-2

Date Collected: 08/25/15 12:00

Matrix: Water

Date Received: 08/26/15 09:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	4.8	U	4.8	0.039	ug/L		08/27/15 08:45	09/06/15 11:52	1
Hexachlorobenzene	0.19	U	0.19	0.082	ug/L		08/27/15 08:45	09/06/15 11:52	1
Hexachlorobutadiene	0.96	U	0.96	0.26	ug/L		08/27/15 08:45	09/06/15 11:52	1
Hexachlorocyclopentadiene	4.8	U	4.8	0.23	ug/L		08/27/15 08:45	09/06/15 11:52	1
Hexachloroethane	4.8	U	4.8	0.18	ug/L		08/27/15 08:45	09/06/15 11:52	1
Indeno[1,2,3-cd]pyrene	1.9	U	1.9	0.042	ug/L		08/27/15 08:45	09/06/15 11:52	1
Isophorone	4.8	U	4.8	0.26	ug/L		08/27/15 08:45	09/06/15 11:52	1
2-Methylphenol	4.8	U	4.8	0.16	ug/L		08/27/15 08:45	09/06/15 11:52	1
Naphthalene	4.8	U	4.8	0.060	ug/L		08/27/15 08:45	09/06/15 11:52	1
2-Nitroaniline	19	U	19	0.20	ug/L		08/27/15 08:45	09/06/15 11:52	1
3-Nitroaniline	19	U	19	0.27	ug/L		08/27/15 08:45	09/06/15 11:52	1
4-Nitroaniline	19	U	19	0.21	ug/L		08/27/15 08:45	09/06/15 11:52	1
Nitrobenzene	2.9	U	2.9	0.038	ug/L		08/27/15 08:45	09/06/15 11:52	1
2-Nitrophenol	4.8	U	4.8	0.27	ug/L		08/27/15 08:45	09/06/15 11:52	1
4-Nitrophenol	19	U	19	0.28	ug/L		08/27/15 08:45	09/06/15 11:52	1
N-Nitrosodiphenylamine	4.8	U	4.8	0.30	ug/L		08/27/15 08:45	09/06/15 11:52	1
N-Nitrosodi-n-propylamine	4.8	U	4.8	0.23	ug/L		08/27/15 08:45	09/06/15 11:52	1
2,2'-oxybis[1-chloropropane]	4.8	U	4.8	0.38	ug/L		08/27/15 08:45	09/06/15 11:52	1
Pentachlorophenol	4.8	U	4.8	0.26	ug/L		08/27/15 08:45	09/06/15 11:52	1
Phenanthrene	1.9	U	1.9	0.060	ug/L		08/27/15 08:45	09/06/15 11:52	1
Phenol	4.8	U	4.8	0.58	ug/L		08/27/15 08:45	09/06/15 11:52	1
Pyrene	4.8	U	4.8	0.040	ug/L		08/27/15 08:45	09/06/15 11:52	1
2,4,5-Trichlorophenol	4.8	U	4.8	0.29	ug/L		08/27/15 08:45	09/06/15 11:52	1
2,4,6-Trichlorophenol	3.8	U	3.8	0.23	ug/L		08/27/15 08:45	09/06/15 11:52	1
2,6-Dinitrotoluene	4.8	U	4.8	0.77	ug/L		08/27/15 08:45	09/06/15 11:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	58		29 - 110	08/27/15 08:45	09/06/15 11:52	1
2-Fluorophenol (Surr)	24		15 - 110	08/27/15 08:45	09/06/15 11:52	1
2,4,6-Tribromophenol (Surr)	34		21 - 128	08/27/15 08:45	09/06/15 11:52	1
Nitrobenzene-d5 (Surr)	55		31 - 110	08/27/15 08:45	09/06/15 11:52	1
Phenol-d5 (Surr)	13		10 - 110	08/27/15 08:45	09/06/15 11:52	1
Terphenyl-d14 (Surr)	55		31 - 115	08/27/15 08:45	09/06/15 11:52	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0	U	2.0	0.16	ug/L		08/27/15 08:50	08/28/15 20:48	1
Arsenic	0.76	J B	5.0	0.18	ug/L		08/27/15 08:50	08/28/15 20:48	1
Barium	96	J	100	1.1	ug/L		08/27/15 08:50	08/28/15 20:48	1
Beryllium	1.0	U	1.0	0.053	ug/L		08/27/15 08:50	08/28/15 20:48	1
Cadmium	1.0	U	1.0	0.061	ug/L		08/27/15 08:50	08/28/15 20:48	1
Cobalt	0.13	J	7.0	0.021	ug/L		08/27/15 08:50	08/28/15 20:48	1
Chromium	2.9	J B	5.0	0.20	ug/L		08/27/15 08:50	08/28/15 20:48	1
Copper	2.0	U	2.0	0.75	ug/L		08/27/15 08:50	08/28/15 20:48	1
Manganese	15	U	15	1.1	ug/L		08/27/15 08:50	08/28/15 20:48	1
Nickel	0.48	J	20	0.23	ug/L		08/27/15 08:50	08/28/15 20:48	1
Lead	3.0	U	3.0	0.11	ug/L		08/27/15 08:50	08/28/15 20:48	1
Selenium	1.3	J B	5.0	0.25	ug/L		08/27/15 08:50	08/28/15 20:48	1
Thallium	1.0	U	1.0	0.074	ug/L		08/27/15 08:50	08/28/15 20:48	1
Vanadium	1.0	J B	4.0	0.23	ug/L		08/27/15 08:50	08/28/15 20:48	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
 Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

Client Sample ID: GW-082515-JL-06

Lab Sample ID: 240-54737-2

Date Collected: 08/25/15 12:00

Matrix: Water

Date Received: 08/26/15 09:30

Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	20	U	20	7.3	ug/L		08/27/15 08:50	08/28/15 20:48	1
Silver	0.20	U	0.20	0.020	ug/L		08/27/15 08:50	08/28/15 20:48	1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.20	U	0.20	0.020	ug/L		08/27/15 08:50	08/28/15 20:51	1
Arsenic	0.74	J B	5.0	0.18	ug/L		08/27/15 08:50	08/28/15 20:51	1
Beryllium	1.0	U	1.0	0.053	ug/L		08/27/15 08:50	08/28/15 20:51	1
Cadmium	1.0	U	1.0	0.061	ug/L		08/27/15 08:50	08/28/15 20:51	1
Cobalt	0.11	J	7.0	0.021	ug/L		08/27/15 08:50	08/28/15 20:51	1
Chromium	2.9	J B	5.0	0.20	ug/L		08/27/15 08:50	08/28/15 20:51	1
Copper	2.0	U	2.0	0.75	ug/L		08/27/15 08:50	08/28/15 20:51	1
Manganese	15	U	15	1.1	ug/L		08/27/15 08:50	08/28/15 20:51	1
Nickel	0.47	J	20	0.23	ug/L		08/27/15 08:50	08/28/15 20:51	1
Lead	3.0	U	3.0	0.11	ug/L		08/27/15 08:50	08/28/15 20:51	1
Antimony	2.0	U	2.0	0.16	ug/L		08/27/15 08:50	08/28/15 20:51	1
Selenium	1.2	J B	5.0	0.25	ug/L		08/27/15 08:50	08/28/15 20:51	1
Thallium	1.0	U	1.0	0.074	ug/L		08/27/15 08:50	08/28/15 20:51	1
Vanadium	1.1	J B	4.0	0.23	ug/L		08/27/15 08:50	08/28/15 20:51	1
Zinc	20	U	20	7.3	ug/L		08/27/15 08:50	08/28/15 20:51	1
Barium	95	J	100	1.1	ug/L		08/27/15 08:50	08/28/15 20:51	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		08/27/15 09:04	08/28/15 17:09	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		08/27/15 09:04	08/28/15 17:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.020	U	0.020	0.0021	mg/L			08/26/15 11:51	1
Cr (III)	0.020	U	0.020	0.0050	mg/L			09/01/15 07:34	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCE (78-125)	BFB (61-120)	TOL (80-120)	DBFM (79-120)
240-54737-1	GW-082515-JL-05	105	78	84	103
240-54737-2	GW-082515-JL-06	104	77	85	101
LCS 240-195636/4	Lab Control Sample	93	96	95	92
MB 240-195636/6	Method Blank	105	78	84	98

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (29-110)	2FP (15-110)	TBP (21-128)	NBZ (31-110)	PHL (10-110)	TPH (31-115)
240-54737-1	GW-082515-JL-05	52	24	35	51	13	50
240-54737-2	GW-082515-JL-06	58	24	34	55	13	55
LCS 240-195072/17-A	Lab Control Sample	84	75	75	85	61	88
MB 240-195072/16-A	Method Blank	68	62	47	67	48	73

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

TBP = 2,4,6-Tribromophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPH = Terphenyl-d14 (Surr)

QC Sample Results

Client: GHD Services Inc.
 Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

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

Lab Sample ID: MB 240-195636/6

Matrix: Water

Analysis Batch: 195636

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	10	U	10	0.94	ug/L			08/31/15 17:09	1
Benzene	1.0	U	1.0	0.35	ug/L			08/31/15 17:09	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			08/31/15 17:09	1
Bromoform	1.0	U	1.0	0.56	ug/L			08/31/15 17:09	1
Bromomethane	1.0	U	1.0	0.44	ug/L			08/31/15 17:09	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			08/31/15 17:09	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			08/31/15 17:09	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			08/31/15 17:09	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			08/31/15 17:09	1
Chloroethane	1.0	U	1.0	0.32	ug/L			08/31/15 17:09	1
Chloroform	1.0	U	1.0	0.25	ug/L			08/31/15 17:09	1
Chloromethane	1.0	U	1.0	0.44	ug/L			08/31/15 17:09	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			08/31/15 17:09	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			08/31/15 17:09	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			08/31/15 17:09	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			08/31/15 17:09	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			08/31/15 17:09	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			08/31/15 17:09	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			08/31/15 17:09	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			08/31/15 17:09	1
2-Hexanone	10	U	10	0.48	ug/L			08/31/15 17:09	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			08/31/15 17:09	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			08/31/15 17:09	1
Styrene	1.0	U	1.0	0.45	ug/L			08/31/15 17:09	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			08/31/15 17:09	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			08/31/15 17:09	1
Toluene	1.0	U	1.0	0.23	ug/L			08/31/15 17:09	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			08/31/15 17:09	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			08/31/15 17:09	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			08/31/15 17:09	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			08/31/15 17:09	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			08/31/15 17:09	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			08/31/15 17:09	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			08/31/15 17:09	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			08/31/15 17:09	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			08/31/15 17:09	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			08/31/15 17:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			08/31/15 17:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/31/15 17:09	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/31/15 17:09	1
Methyl acetate	10	U	10	2.3	ug/L			08/31/15 17:09	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			08/31/15 17:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			08/31/15 17:09	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			08/31/15 17:09	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			08/31/15 17:09	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			08/31/15 17:09	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			08/31/15 17:09	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			08/31/15 17:09	1

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

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

Lab Sample ID: MB 240-195636/6

Matrix: Water

Analysis Batch: 195636

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			08/31/15 17:09	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			08/31/15 17:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		78 - 125		08/31/15 17:09	1
4-Bromofluorobenzene (Surr)	78		61 - 120		08/31/15 17:09	1
Toluene-d8 (Surr)	84		80 - 120		08/31/15 17:09	1
Dibromofluoromethane (Surr)	98		79 - 120		08/31/15 17:09	1

Lab Sample ID: LCS 240-195636/4

Matrix: Water

Analysis Batch: 195636

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	21.8		ug/L		109	34 - 148
Benzene	10.0	9.72		ug/L		97	80 - 120
Dichlorobromomethane	10.0	9.33		ug/L		93	80 - 120
Bromoform	10.0	9.49		ug/L		95	56 - 122
Bromomethane	10.0	9.96		ug/L		100	38 - 132
2-Butanone (MEK)	20.0	20.7		ug/L		104	56 - 138
Carbon disulfide	10.0	9.18		ug/L		92	65 - 144
Carbon tetrachloride	10.0	10.1		ug/L		101	77 - 131
Chlorobenzene	10.0	9.73		ug/L		97	80 - 120
Chloroethane	10.0	8.99		ug/L		90	36 - 126
Chloroform	10.0	9.89		ug/L		99	80 - 120
Chloromethane	10.0	8.25		ug/L		83	48 - 133
1,1-Dichloroethane	10.0	9.55		ug/L		95	79 - 125
1,2-Dichloroethane	10.0	9.78		ug/L		98	80 - 120
1,1-Dichloroethene	10.0	9.11		ug/L		91	76 - 124
1,2-Dichloropropane	10.0	9.51		ug/L		95	78 - 124
1,2,4-Trimethylbenzene	10.0	9.74		ug/L		97	76 - 120
cis-1,3-Dichloropropene	10.0	9.33		ug/L		93	74 - 126
trans-1,3-Dichloropropene	10.0	10.4		ug/L		104	75 - 131
Ethylbenzene	10.0	9.82		ug/L		98	80 - 120
2-Hexanone	20.0	20.7		ug/L		103	55 - 141
Methylene Chloride	10.0	10.9		ug/L		109	77 - 129
4-Methyl-2-pentanone (MIBK)	20.0	19.1		ug/L		96	64 - 135
Styrene	10.0	9.86		ug/L		99	76 - 122
1,1,2,2-Tetrachloroethane	10.0	9.52		ug/L		95	71 - 123
Tetrachloroethene	10.0	9.93		ug/L		99	78 - 121
Toluene	10.0	9.91		ug/L		99	80 - 120
Trichloroethene	10.0	9.91		ug/L		99	80 - 121
1,3,5-Trimethylbenzene	10.0	9.97		ug/L		100	77 - 120
Vinyl chloride	10.0	8.32		ug/L		83	52 - 121
Xylenes, Total	20.0	20.0		ug/L		100	80 - 120
1,1,1-Trichloroethane	10.0	9.85		ug/L		98	77 - 123
1,1,2-Trichloroethane	10.0	9.99		ug/L		100	80 - 120
Cyclohexane	10.0	9.94		ug/L		99	60 - 140

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

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

Lab Sample ID: LCS 240-195636/4
Matrix: Water
Analysis Batch: 195636

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	10.0	9.77		ug/L		98	50 - 132
Ethylene Dibromide	10.0	10.1		ug/L		101	80 - 120
Dichlorodifluoromethane	10.0	9.50		ug/L		95	23 - 136
cis-1,2-Dichloroethene	10.0	9.95		ug/L		99	79 - 120
trans-1,2-Dichloroethene	10.0	10.1		ug/L		101	80 - 124
Isopropylbenzene	10.0	9.81		ug/L		98	77 - 120
Methyl acetate	50.0	54.5		ug/L		109	67 - 131
Methyl tert-butyl ether	10.0	9.85		ug/L		99	69 - 121
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.8		ug/L		108	67 - 138
1,2,4-Trichlorobenzene	10.0	8.21		ug/L		82	61 - 120
1,2-Dichlorobenzene	10.0	9.31		ug/L		93	79 - 120
1,3-Dichlorobenzene	10.0	9.26		ug/L		93	79 - 120
1,4-Dichlorobenzene	10.0	9.31		ug/L		93	79 - 120
Trichlorofluoromethane	10.0	9.69		ug/L		97	61 - 133
Methylcyclohexane	10.0	10.2		ug/L		102	61 - 134
m-Xylene & p-Xylene	10.0	10.0		ug/L		100	80 - 120
o-Xylene	10.0	10.0		ug/L		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		78 - 125
4-Bromofluorobenzene (Surr)	96		61 - 120
Toluene-d8 (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	92		79 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-195072/16-A
Matrix: Water
Analysis Batch: 196460

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195072

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	5.0	U	5.0	0.044	ug/L		08/27/15 08:45	09/06/15 09:17	1
Acenaphthylene	5.0	U	5.0	0.048	ug/L		08/27/15 08:45	09/06/15 09:17	1
Acetophenone	5.0	U	5.0	0.34	ug/L		08/27/15 08:45	09/06/15 09:17	1
Anthracene	5.0	U	5.0	0.088	ug/L		08/27/15 08:45	09/06/15 09:17	1
Atrazine	3.0	U	3.0	0.34	ug/L		08/27/15 08:45	09/06/15 09:17	1
Benzaldehyde	5.0	U	5.0	0.39	ug/L		08/27/15 08:45	09/06/15 09:17	1
Benzo[a]anthracene	1.0	U	1.0	0.030	ug/L		08/27/15 08:45	09/06/15 09:17	1
Benzo[b]fluoranthene	1.0	U	1.0	0.039	ug/L		08/27/15 08:45	09/06/15 09:17	1
Benzo[k]fluoranthene	1.0	U	1.0	0.045	ug/L		08/27/15 08:45	09/06/15 09:17	1
Benzo[g,h,i]perylene	1.0	U	1.0	0.046	ug/L		08/27/15 08:45	09/06/15 09:17	1
Benzo[a]pyrene	1.0	U	1.0	0.051	ug/L		08/27/15 08:45	09/06/15 09:17	1
Butyl benzyl phthalate	5.0	U	5.0	0.26	ug/L		08/27/15 08:45	09/06/15 09:17	1
1,1'-Biphenyl	5.0	U	5.0	0.13	ug/L		08/27/15 08:45	09/06/15 09:17	1
Bis(2-chloroethoxy)methane	5.0	U	5.0	0.32	ug/L		08/27/15 08:45	09/06/15 09:17	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.10	ug/L		08/27/15 08:45	09/06/15 09:17	1
Bis(2-ethylhexyl) phthalate	5.0	U	5.0	1.7	ug/L		08/27/15 08:45	09/06/15 09:17	1

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QC Sample Results

Client: GHD Services Inc.
 Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-195072/16-A
Matrix: Water
Analysis Batch: 196460

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195072

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4-Bromophenyl phenyl ether	5.0	U	5.0	0.22	ug/L		08/27/15 08:45	09/06/15 09:17	1
Caprolactam	10	U	10	0.20	ug/L		08/27/15 08:45	09/06/15 09:17	1
Carbazole	10	U	10	0.28	ug/L		08/27/15 08:45	09/06/15 09:17	1
4-Chloroaniline	10	U	10	0.21	ug/L		08/27/15 08:45	09/06/15 09:17	1
4-Chloro-3-methylphenol	5.0	U	5.0	0.21	ug/L		08/27/15 08:45	09/06/15 09:17	1
2-Chloronaphthalene	5.0	U	5.0	0.10	ug/L		08/27/15 08:45	09/06/15 09:17	1
2-Chlorophenol	5.0	U	5.0	0.29	ug/L		08/27/15 08:45	09/06/15 09:17	1
4-Chlorophenyl phenyl ether	5.0	U	5.0	0.30	ug/L		08/27/15 08:45	09/06/15 09:17	1
Chrysene	1.0	U	1.0	0.050	ug/L		08/27/15 08:45	09/06/15 09:17	1
2-Methylnaphthalene	5.0	U	5.0	0.090	ug/L		08/27/15 08:45	09/06/15 09:17	1
3 & 4 Methylphenol	5.0	U	5.0	0.80	ug/L		08/27/15 08:45	09/06/15 09:17	1
Dibenz(a,h)anthracene	2.0	U	2.0	0.045	ug/L		08/27/15 08:45	09/06/15 09:17	1
Dibenzofuran	4.0	U	4.0	0.020	ug/L		08/27/15 08:45	09/06/15 09:17	1
3,3'-Dichlorobenzidine	1.0	U	1.0	0.37	ug/L		08/27/15 08:45	09/06/15 09:17	1
2,4-Dichlorophenol	10	U	10	0.19	ug/L		08/27/15 08:45	09/06/15 09:17	1
Diethyl phthalate	5.0	U	5.0	0.60	ug/L		08/27/15 08:45	09/06/15 09:17	1
2,4-Dimethylphenol	5.0	U	5.0	0.25	ug/L		08/27/15 08:45	09/06/15 09:17	1
Dimethyl phthalate	5.0	U	5.0	0.29	ug/L		08/27/15 08:45	09/06/15 09:17	1
4,6-Dinitro-2-methylphenol	20	U	20	2.4	ug/L		08/27/15 08:45	09/06/15 09:17	1
2,4-Dinitrophenol	20	U	20	0.32	ug/L		08/27/15 08:45	09/06/15 09:17	1
2,4-Dinitrotoluene	5.0	U	5.0	0.25	ug/L		08/27/15 08:45	09/06/15 09:17	1
Di-n-butyl phthalate	5.0	U	5.0	1.7	ug/L		08/27/15 08:45	09/06/15 09:17	1
Di-n-octyl phthalate	5.0	U	5.0	0.23	ug/L		08/27/15 08:45	09/06/15 09:17	1
Fluoranthene	1.0	U	1.0	0.045	ug/L		08/27/15 08:45	09/06/15 09:17	1
Fluorene	5.0	U	5.0	0.041	ug/L		08/27/15 08:45	09/06/15 09:17	1
Hexachlorobenzene	0.20	U	0.20	0.085	ug/L		08/27/15 08:45	09/06/15 09:17	1
Hexachlorobutadiene	1.0	U	1.0	0.27	ug/L		08/27/15 08:45	09/06/15 09:17	1
Hexachlorocyclopentadiene	5.0	U	5.0	0.24	ug/L		08/27/15 08:45	09/06/15 09:17	1
Hexachloroethane	5.0	U	5.0	0.19	ug/L		08/27/15 08:45	09/06/15 09:17	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.043	ug/L		08/27/15 08:45	09/06/15 09:17	1
Isophorone	5.0	U	5.0	0.27	ug/L		08/27/15 08:45	09/06/15 09:17	1
2-Methylphenol	5.0	U	5.0	0.17	ug/L		08/27/15 08:45	09/06/15 09:17	1
Naphthalene	5.0	U	5.0	0.063	ug/L		08/27/15 08:45	09/06/15 09:17	1
2-Nitroaniline	20	U	20	0.21	ug/L		08/27/15 08:45	09/06/15 09:17	1
3-Nitroaniline	20	U	20	0.28	ug/L		08/27/15 08:45	09/06/15 09:17	1
4-Nitroaniline	20	U	20	0.22	ug/L		08/27/15 08:45	09/06/15 09:17	1
Nitrobenzene	3.0	U	3.0	0.040	ug/L		08/27/15 08:45	09/06/15 09:17	1
2-Nitrophenol	5.0	U	5.0	0.28	ug/L		08/27/15 08:45	09/06/15 09:17	1
4-Nitrophenol	20	U	20	0.29	ug/L		08/27/15 08:45	09/06/15 09:17	1
N-Nitrosodiphenylamine	5.0	U	5.0	0.31	ug/L		08/27/15 08:45	09/06/15 09:17	1
N-Nitrosodi-n-propylamine	5.0	U	5.0	0.24	ug/L		08/27/15 08:45	09/06/15 09:17	1
2,2'-oxybis[1-chloropropane]	5.0	U	5.0	0.40	ug/L		08/27/15 08:45	09/06/15 09:17	1
Pentachlorophenol	5.0	U	5.0	0.27	ug/L		08/27/15 08:45	09/06/15 09:17	1
Phenanthrene	2.0	U	2.0	0.062	ug/L		08/27/15 08:45	09/06/15 09:17	1
Phenol	5.0	U	5.0	0.60	ug/L		08/27/15 08:45	09/06/15 09:17	1
Pyrene	5.0	U	5.0	0.042	ug/L		08/27/15 08:45	09/06/15 09:17	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.30	ug/L		08/27/15 08:45	09/06/15 09:17	1
2,4,6-Trichlorophenol	4.0	U	4.0	0.24	ug/L		08/27/15 08:45	09/06/15 09:17	1

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-195072/16-A
Matrix: Water
Analysis Batch: 196460

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195072

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	5.0	U	5.0	0.80	ug/L		08/27/15 08:45	09/06/15 09:17	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	68		29 - 110				08/27/15 08:45	09/06/15 09:17	1
2-Fluorophenol (Surr)	62		15 - 110				08/27/15 08:45	09/06/15 09:17	1
2,4,6-Tribromophenol (Surr)	47		21 - 128				08/27/15 08:45	09/06/15 09:17	1
Nitrobenzene-d5 (Surr)	67		31 - 110				08/27/15 08:45	09/06/15 09:17	1
Phenol-d5 (Surr)	48		10 - 110				08/27/15 08:45	09/06/15 09:17	1
Terphenyl-d14 (Surr)	73		31 - 115				08/27/15 08:45	09/06/15 09:17	1

Lab Sample ID: LCS 240-195072/17-A
Matrix: Water
Analysis Batch: 196460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195072

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	20.0	16.5		ug/L		83	55 - 120
Acenaphthylene	20.0	17.0		ug/L		85	55 - 120
Acetophenone	20.0	18.0		ug/L		90	50 - 120
Anthracene	20.0	16.8		ug/L		84	56 - 120
Atrazine	40.0	35.4		ug/L		89	65 - 161
Benzaldehyde	40.0	34.9		ug/L		87	40 - 122
Benzo[a]anthracene	20.0	16.6		ug/L		83	46 - 120
Benzo[b]fluoranthene	20.0	19.0		ug/L		95	24 - 120
Benzo[k]fluoranthene	20.0	17.5		ug/L		88	30 - 120
Benzo[g,h,i]perylene	20.0	20.7		ug/L		103	24 - 126
Benzo[a]pyrene	20.0	18.7		ug/L		94	24 - 120
Butyl benzyl phthalate	20.0	16.8		ug/L		84	51 - 120
1,1'-Biphenyl	20.0	16.4		ug/L		82	52 - 120
Bis(2-chloroethoxy)methane	20.0	17.4		ug/L		87	48 - 120
Bis(2-chloroethyl)ether	20.0	17.2		ug/L		86	43 - 120
Bis(2-ethylhexyl) phthalate	20.0	17.2		ug/L		86	21 - 125
4-Bromophenyl phenyl ether	20.0	17.1		ug/L		85	47 - 120
Caprolactam	40.0	12.5		ug/L		31	10 - 120
Carbazole	20.0	18.0		ug/L		90	57 - 120
4-Chloroaniline	20.0	8.79	J	ug/L		44	15 - 120
4-Chloro-3-methylphenol	20.0	18.0		ug/L		90	45 - 120
2-Chloronaphthalene	20.0	16.6		ug/L		83	47 - 120
2-Chlorophenol	20.0	17.9		ug/L		89	43 - 120
4-Chlorophenyl phenyl ether	20.0	17.3		ug/L		86	47 - 120
Chrysene	20.0	17.1		ug/L		86	49 - 120
2-Methylnaphthalene	20.0	18.0		ug/L		90	52 - 120
3 & 4 Methylphenol	20.0	16.6		ug/L		83	34 - 120
Dibenz(a,h)anthracene	20.0	17.8		ug/L		89	24 - 125
Dibenzofuran	20.0	16.9		ug/L		84	56 - 120
3,3'-Dichlorobenzidine	40.0	26.7		ug/L		67	29 - 120
2,4-Dichlorophenol	20.0	17.2		ug/L		86	46 - 120
Diethyl phthalate	20.0	17.8		ug/L		89	58 - 120
2,4-Dimethylphenol	20.0	17.0		ug/L		85	38 - 120

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-195072/17-A
Matrix: Water
Analysis Batch: 196460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195072

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dimethyl phthalate	20.0	17.8		ug/L		89	59 - 120
4,6-Dinitro-2-methylphenol	40.0	32.5		ug/L		81	33 - 120
2,4-Dinitrophenol	40.0	22.9		ug/L		57	10 - 120
2,4-Dinitrotoluene	20.0	17.8		ug/L		89	52 - 120
Di-n-butyl phthalate	20.0	18.3		ug/L		91	57 - 122
Di-n-octyl phthalate	20.0	18.3		ug/L		91	21 - 122
Fluoranthene	20.0	18.5		ug/L		93	57 - 120
Fluorene	20.0	17.2		ug/L		86	56 - 120
Hexachlorobenzene	20.0	16.8		ug/L		84	52 - 120
Hexachlorobutadiene	20.0	16.8		ug/L		84	38 - 120
Hexachlorocyclopentadiene	20.0	9.75		ug/L		49	4 - 120
Hexachloroethane	20.0	16.1		ug/L		80	42 - 120
Indeno[1,2,3-cd]pyrene	20.0	17.9		ug/L		89	25 - 120
Isophorone	20.0	17.8		ug/L		89	48 - 123
2-Methylphenol	20.0	17.0		ug/L		85	38 - 120
Naphthalene	20.0	16.6		ug/L		83	52 - 120
2-Nitroaniline	20.0	17.2	J	ug/L		86	48 - 127
3-Nitroaniline	20.0	17.6	J	ug/L		88	52 - 120
4-Nitroaniline	20.0	18.8	J	ug/L		94	48 - 120
Nitrobenzene	20.0	16.8		ug/L		84	41 - 120
2-Nitrophenol	20.0	17.3		ug/L		87	42 - 120
4-Nitrophenol	40.0	24.0		ug/L		60	16 - 120
N-Nitrosodiphenylamine	40.0	33.0		ug/L		83	51 - 120
N-Nitrosodi-n-propylamine	20.0	17.2		ug/L		86	48 - 123
2,2'-oxybis[1-chloropropane]	20.0	16.1		ug/L		80	42 - 120
Pentachlorophenol	40.0	22.5		ug/L		56	14 - 120
Phenanthrene	20.0	16.5		ug/L		83	57 - 120
Phenol	20.0	12.1		ug/L		60	16 - 120
Pyrene	20.0	15.9		ug/L		80	50 - 120
2,4,5-Trichlorophenol	20.0	16.8		ug/L		84	47 - 120
2,4,6-Trichlorophenol	20.0	16.3		ug/L		82	43 - 120
2,6-Dinitrotoluene	20.0	18.7		ug/L		93	52 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	84		29 - 110
2-Fluorophenol (Surr)	75		15 - 110
2,4,6-Tribromophenol (Surr)	75		21 - 128
Nitrobenzene-d5 (Surr)	85		31 - 110
Phenol-d5 (Surr)	61		10 - 110
Terphenyl-d14 (Surr)	88		31 - 115

QC Sample Results

Client: GHD Services Inc.
 Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-195074/1-A
Matrix: Water
Analysis Batch: 195541

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 195074

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.396	J	5.0	0.18	ug/L		08/27/15 08:50	08/28/15 19:06	1
Beryllium	1.0	U	1.0	0.053	ug/L		08/27/15 08:50	08/28/15 19:06	1
Cadmium	1.0	U	1.0	0.061	ug/L		08/27/15 08:50	08/28/15 19:06	1
Cobalt	7.0	U	7.0	0.021	ug/L		08/27/15 08:50	08/28/15 19:06	1
Chromium	2.37	J	5.0	0.20	ug/L		08/27/15 08:50	08/28/15 19:06	1
Copper	2.0	U	2.0	0.75	ug/L		08/27/15 08:50	08/28/15 19:06	1
Manganese	15	U	15	1.1	ug/L		08/27/15 08:50	08/28/15 19:06	1
Nickel	20	U	20	0.23	ug/L		08/27/15 08:50	08/28/15 19:06	1
Antimony	2.0	U	2.0	0.16	ug/L		08/27/15 08:50	08/28/15 19:06	1
Lead	0.126	J	3.0	0.11	ug/L		08/27/15 08:50	08/28/15 19:06	1
Selenium	0.805	J	5.0	0.25	ug/L		08/27/15 08:50	08/28/15 19:06	1
Thallium	1.0	U	1.0	0.074	ug/L		08/27/15 08:50	08/28/15 19:06	1
Vanadium	0.646	J	4.0	0.23	ug/L		08/27/15 08:50	08/28/15 19:06	1
Zinc	20	U	20	7.3	ug/L		08/27/15 08:50	08/28/15 19:06	1
Barium	100	U	100	1.1	ug/L		08/27/15 08:50	08/28/15 19:06	1
Silver	0.20	U	0.20	0.020	ug/L		08/27/15 08:50	08/28/15 19:06	1

Lab Sample ID: LCS 240-195074/2-A ^10
Matrix: Water
Analysis Batch: 195541

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 195074

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2000	1920		ug/L		96	80 - 120
Beryllium	50.0	53.3		ug/L		107	80 - 120
Cadmium	50.0	49.5		ug/L		99	80 - 120
Cobalt	500	510		ug/L		102	80 - 120
Chromium	200	225		ug/L		113	80 - 120
Copper	250	264		ug/L		106	80 - 120
Manganese	500	556		ug/L		111	80 - 120
Nickel	500	536		ug/L		107	80 - 120
Antimony	500	519		ug/L		104	80 - 120
Lead	500	507		ug/L		101	80 - 120
Selenium	2000	1910		ug/L		95	80 - 120
Thallium	2000	2130		ug/L		107	80 - 120
Vanadium	500	511		ug/L		102	80 - 120
Zinc	500	569		ug/L		114	80 - 120
Barium	2000	2000		ug/L		100	80 - 120
Silver	50.0	48.7		ug/L		97	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-195079/1-A
Matrix: Water
Analysis Batch: 195389

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195079

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		08/27/15 09:04	08/28/15 16:27	1

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
 Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 240-195079/2-A
 Matrix: Water
 Analysis Batch: 195389

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 195079

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.08		ug/L		102	80 - 120

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 240-194904/3
 Matrix: Water
 Analysis Batch: 194904

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.020	U	0.020	0.0021	mg/L			08/26/15 10:36	1

Lab Sample ID: LCS 240-194904/4
 Matrix: Water
 Analysis Batch: 194904

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.250	0.243		mg/L		97	80 - 118

QC Association Summary

Client: GHD Services Inc.
Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

GC/MS VOA

Analysis Batch: 195636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-54737-1	GW-082515-JL-05	Total/NA	Water	8260B	
240-54737-2	GW-082515-JL-06	Total/NA	Water	8260B	
LCS 240-195636/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-195636/6	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 195072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-54737-1	GW-082515-JL-05	Total/NA	Water	3510C	
240-54737-2	GW-082515-JL-06	Total/NA	Water	3510C	
LCS 240-195072/17-A	Lab Control Sample	Total/NA	Water	3510C	
MB 240-195072/16-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 196460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-54737-1	GW-082515-JL-05	Total/NA	Water	8270C	195072
240-54737-2	GW-082515-JL-06	Total/NA	Water	8270C	195072
LCS 240-195072/17-A	Lab Control Sample	Total/NA	Water	8270C	195072
MB 240-195072/16-A	Method Blank	Total/NA	Water	8270C	195072

Metals

Prep Batch: 195074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-54737-1	GW-082515-JL-05	Dissolved	Water	3005A	
240-54737-1	GW-082515-JL-05	Total Recoverable	Water	3005A	
240-54737-2	GW-082515-JL-06	Dissolved	Water	3005A	
240-54737-2	GW-082515-JL-06	Total Recoverable	Water	3005A	
LCS 240-195074/2-A ^10	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-195074/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 195079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-54737-1	GW-082515-JL-05	Dissolved	Water	7470A	
240-54737-1	GW-082515-JL-05	Total/NA	Water	7470A	
240-54737-2	GW-082515-JL-06	Dissolved	Water	7470A	
240-54737-2	GW-082515-JL-06	Total/NA	Water	7470A	
LCS 240-195079/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 240-195079/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 195389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-54737-1	GW-082515-JL-05	Dissolved	Water	7470A	195079
240-54737-1	GW-082515-JL-05	Total/NA	Water	7470A	195079
240-54737-2	GW-082515-JL-06	Dissolved	Water	7470A	195079
240-54737-2	GW-082515-JL-06	Total/NA	Water	7470A	195079
LCS 240-195079/2-A	Lab Control Sample	Total/NA	Water	7470A	195079
MB 240-195079/1-A	Method Blank	Total/NA	Water	7470A	195079

TestAmerica Canton

QC Association Summary

Client: GHD Services Inc.
Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

Metals (Continued)

Analysis Batch: 195541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-54737-1	GW-082515-JL-05	Dissolved	Water	6020	195074
240-54737-1	GW-082515-JL-05	Total Recoverable	Water	6020	195074
240-54737-2	GW-082515-JL-06	Dissolved	Water	6020	195074
240-54737-2	GW-082515-JL-06	Total Recoverable	Water	6020	195074
LCS 240-195074/2-A ^10	Lab Control Sample	Total Recoverable	Water	6020	195074
MB 240-195074/1-A	Method Blank	Total Recoverable	Water	6020	195074

General Chemistry

Analysis Batch: 194904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-54737-1	GW-082515-JL-05	Total/NA	Water	7196A	
240-54737-2	GW-082515-JL-06	Total/NA	Water	7196A	
LCS 240-194904/4	Lab Control Sample	Total/NA	Water	7196A	
MB 240-194904/3	Method Blank	Total/NA	Water	7196A	

Analysis Batch: 195697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-54737-1	GW-082515-JL-05	Total/NA	Water	7196A	
240-54737-2	GW-082515-JL-06	Total/NA	Water	7196A	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

Client Sample ID: GW-082515-JL-05

Date Collected: 08/25/15 11:55

Date Received: 08/26/15 09:30

Lab Sample ID: 240-54737-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	195636	08/31/15 17:54	LRW	TAL CAN
Total/NA	Prep	3510C			195072	08/27/15 08:45	JDR	TAL CAN
Total/NA	Analysis	8270C		1	196460	09/06/15 11:30	TMH	TAL CAN
Dissolved	Prep	3005A			195074	08/27/15 08:50	WKD	TAL CAN
Dissolved	Analysis	6020		1	195541	08/28/15 20:44	AS1	TAL CAN
Total Recoverable	Prep	3005A			195074	08/27/15 08:50	WKD	TAL CAN
Total Recoverable	Analysis	6020		1	195541	08/28/15 20:40	AS1	TAL CAN
Dissolved	Prep	7470A			195079	08/27/15 09:04	WKD	TAL CAN
Dissolved	Analysis	7470A		1	195389	08/28/15 16:47	WAL	TAL CAN
Total/NA	Prep	7470A			195079	08/27/15 09:04	WKD	TAL CAN
Total/NA	Analysis	7470A		1	195389	08/28/15 17:07	WAL	TAL CAN
Total/NA	Analysis	7196A		1	194904	08/26/15 11:50	NJE	TAL CAN
Total/NA	Analysis	7196A		1	195697	09/01/15 07:34	KLC	TAL CAN

Client Sample ID: GW-082515-JL-06

Date Collected: 08/25/15 12:00

Date Received: 08/26/15 09:30

Lab Sample ID: 240-54737-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	195636	08/31/15 18:17	LRW	TAL CAN
Total/NA	Prep	3510C			195072	08/27/15 08:45	JDR	TAL CAN
Total/NA	Analysis	8270C		1	196460	09/06/15 11:52	TMH	TAL CAN
Dissolved	Prep	3005A			195074	08/27/15 08:50	WKD	TAL CAN
Dissolved	Analysis	6020		1	195541	08/28/15 20:51	AS1	TAL CAN
Total Recoverable	Prep	3005A			195074	08/27/15 08:50	WKD	TAL CAN
Total Recoverable	Analysis	6020		1	195541	08/28/15 20:48	AS1	TAL CAN
Dissolved	Prep	7470A			195079	08/27/15 09:04	WKD	TAL CAN
Dissolved	Analysis	7470A		1	195389	08/28/15 17:11	WAL	TAL CAN
Total/NA	Prep	7470A			195079	08/27/15 09:04	WKD	TAL CAN
Total/NA	Analysis	7470A		1	195389	08/28/15 17:09	WAL	TAL CAN
Total/NA	Analysis	7196A		1	194904	08/26/15 11:51	NJE	TAL CAN
Total/NA	Analysis	7196A		1	195697	09/01/15 07:34	KLC	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: GHD Services Inc.
 Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

Laboratory: TestAmerica Canton

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999518190	08-31-15 *

The following analytes are included in this report, but are not certified under this certification:

Analysis Method	Prep Method	Matrix	Analyte
6020	3005A	Water	Lead
8270C	3510C	Water	1,1'-Biphenyl
8270C	3510C	Water	2,2'-oxybis[1-chloropropane]
8270C	3510C	Water	2,4,5-Trichlorophenol
8270C	3510C	Water	2,4,6-Trichlorophenol
8270C	3510C	Water	2,4-Dichlorophenol
8270C	3510C	Water	2,4-Dimethylphenol
8270C	3510C	Water	2,4-Dinitrophenol
8270C	3510C	Water	2,4-Dinitrotoluene
8270C	3510C	Water	2,6-Dinitrotoluene
8270C	3510C	Water	2-Chloronaphthalene
8270C	3510C	Water	2-Chlorophenol
8270C	3510C	Water	2-Methylnaphthalene
8270C	3510C	Water	2-Methylphenol
8270C	3510C	Water	2-Nitroaniline
8270C	3510C	Water	2-Nitrophenol
8270C	3510C	Water	3 & 4 Methylphenol
8270C	3510C	Water	3,3'-Dichlorobenzidine
8270C	3510C	Water	3-Nitroaniline
8270C	3510C	Water	4,6-Dinitro-2-methylphenol
8270C	3510C	Water	4-Bromophenyl phenyl ether
8270C	3510C	Water	4-Chloro-3-methylphenol
8270C	3510C	Water	4-Chloroaniline
8270C	3510C	Water	4-Chlorophenyl phenyl ether
8270C	3510C	Water	4-Nitrophenol
8270C	3510C	Water	Acenaphthene
8270C	3510C	Water	Acenaphthylene
8270C	3510C	Water	Acetophenone
8270C	3510C	Water	Anthracene
8270C	3510C	Water	Benzo[a]anthracene
8270C	3510C	Water	Benzo[a]pyrene
8270C	3510C	Water	Benzo[b]fluoranthene
8270C	3510C	Water	Benzo[g,h,i]perylene
8270C	3510C	Water	Benzo[k]fluoranthene
8270C	3510C	Water	Bis(2-chloroethoxy)methane
8270C	3510C	Water	Bis(2-chloroethyl)ether
8270C	3510C	Water	Bis(2-ethylhexyl) phthalate
8270C	3510C	Water	Butyl benzyl phthalate
8270C	3510C	Water	Carbazole
8270C	3510C	Water	Chrysene
8270C	3510C	Water	Dibenz(a,h)anthracene
8270C	3510C	Water	Dibenzofuran
8270C	3510C	Water	Diethyl phthalate
8270C	3510C	Water	Dimethyl phthalate
8270C	3510C	Water	Di-n-butyl phthalate
8270C	3510C	Water	Di-n-octyl phthalate

* Certification renewal pending - certification considered valid.

Certification Summary

Client: GHD Services Inc.
 Project/Site: 58505, Janesville WI, SSOW 108011

TestAmerica Job ID: 240-54737-1

Laboratory: TestAmerica Canton (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999518190	08-31-15 *

The following analytes are included in this report, but are not certified under this certification:

Analysis Method	Prep Method	Matrix	Analyte
8270C	3510C	Water	Fluoranthene
8270C	3510C	Water	Fluorene
8270C	3510C	Water	Hexachlorobenzene
8270C	3510C	Water	Hexachlorobutadiene
8270C	3510C	Water	Hexachlorocyclopentadiene
8270C	3510C	Water	Hexachloroethane
8270C	3510C	Water	Indeno[1,2,3-cd]pyrene
8270C	3510C	Water	Isophorone
8270C	3510C	Water	Naphthalene
8270C	3510C	Water	Nitrobenzene
8270C	3510C	Water	N-Nitrosodi-n-propylamine
8270C	3510C	Water	N-Nitrosodiphenylamine
8270C	3510C	Water	Pentachlorophenol
8270C	3510C	Water	Phenanthrene
8270C	3510C	Water	Phenol
8270C	3510C	Water	Pyrene

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
7196A		Water	Cr (III)
7196A		Water	Cr (VI)
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Cyclohexane
8260B		Water	Methyl acetate
8260B		Water	Methylcyclohexane
8270C	3510C	Water	4-Nitroaniline
8270C	3510C	Water	Atrazine
8270C	3510C	Water	Benzaldehyde
8270C	3510C	Water	Caprolactam

* Certification renewal pending - certification considered valid.

**CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS**



240-54737 Chain of Custody

TestAmerica Canton Sample Receipt Form/Narrative		Login # : <u>54737</u>
Canton Facility		
Client <u>GHD</u>	Site Name	Cooler unpacked by: <u>Denny Burns</u>
Cooler Received on <u>8/26/15</u>	Opened on <u>8/26/15</u>	
FedEx: 1 st Grd <input checked="" type="checkbox"/> Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other		
Receipt After-hours: Drop-off Date/Time		Storage Location
TestAmerica Cooler #	Foam Box	Client Cooler Box Other <u>Multiple</u>
Packing material used: <u>Bubble Wrap</u>	Foam Plastic Bag	None Other
COOLANT: <u>Wet Ice</u> Blue Ice Dry Ice Water None		
1. Cooler temperature upon receipt		
<u>IR GUN# A</u> (CF +1.0 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C
<u>IR GUN# 4</u> (CF +0.5 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C
<u>IR GUN# 5</u> (CF +0.4 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C
<u>IR GUN# 8</u> (CF -1.5 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity _____		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>
-Were custody seals on the outside of the cooler(s) signed & dated?		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
3. Shippers' packing slip attached to the cooler(s)?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4. Did custody papers accompany the sample(s)?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5. Were the custody papers relinquished & signed in the appropriate place?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6. Was/were the person(s) who collected the samples clearly identified on the COC?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7. Did all bottles arrive in good condition (Unbroken)?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
8. Could all bottle labels be reconciled with the COC?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
9. Were correct bottle(s) used for the test(s) indicated?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
10. Sufficient quantity received to perform indicated analyses?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
11. Were sample(s) at the correct pH upon receipt?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA pH Strip Lot# <u>HC432654</u>
12. Were VOAs on the COC?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
13. Were air bubbles >6 mm in any VOA vials?		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # _____		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other		
Concerning _____		

See Multiple Cooler Form

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	Samples processed by:
<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

