

October 22, 2018

Washington State Department of Ecology Toxics Cleanup Program – Central Region Office 1250 West Alder Street Union Gap, WA 98903-0009

Attn: Mr. Jeff Newschwander

RE: LETTER REPORT, RESULTS OF THE FIVE-YEAR REVIEW GROUNDWATER SAMPLING, ALL NEW GLASS PROPERTY (VCNW0857), LOTS 1 AND 2, 233 D STREET NW, AUBURN, WASHINGTON

At the request of Mr. Troy Thomas, for your review and comment we submit the enclosed letter report documenting the Five-Year Review groundwater sampling event conducted on August 22, 2018, at the All New Glass property in Auburn, Washington.

Based on the current and historic results of the groundwater sampling, we propose that sampling activities be discontinued. Once we receive your approval, the wells at the site will be properly abandoned.

If you have any questions or comments, I can be reached at 206-695-6918.

Sincerely,

SHANNON & WILSON, INC.

David Randall

Senior Environmental Scientist

DJR:MJS/djr

Enc: Letter Report dated October 2, 2018

101324-001-L2/wp/lkn



October 2, 2018

Mr. Troy Thomas All New Glass 319 D Street NW, Suite 103 Auburn, WA 98001

RE: RESULTS OF THE FIVE-YEAR REVIEW GROUNDWATER SAMPLING, ALL NEW GLASS PROPERTY, LOTS 1 AND 2, 233 D STREET NW, AUBURN, WASHINGTON

Dear Mr. Thomas:

At your request, Shannon & Wilson, Inc. has collected and analyzed groundwater samples from three shallow monitoring wells (MW-2, MW-4, and MW-5) for the five-year review sampling event on Lots 1 and 2 located at 233 D Street NW in Auburn, Washington (Figure 1) (Subject Property). During previous sampling events, monitoring well MW-1 had been sampled as part of the program; however, due to construction of a new building on the adjacent Lot 2, MW-1 was removed. Based on a phone conversation with Jeff Newschwander of the Washington State Department of Ecology (Ecology), Mr. Newschwander indicated that monitoring well MW-2 could be sampled in place of MW-1.

The samples were collected in accordance with the sampling requirements identified in the Ecology letter dated April 20, 2010. The wells are located on Lot 1, the All New Glass property. Locations of the monitoring wells are shown in Figure 2.

GROUNDWATER SAMPLING ACTIVITIES

Shannon & Wilson personnel conducted groundwater sampling activities on August 22, 2018, at the Subject Property. Two of the wells, MW-4 and MW-5, are located inside the All New Glass warehouse. Prior to the start of sampling activities, the wells were observed for the presence of a floating free-product layer. No free-product layer was observed at that time or during the sampling event. The depth to groundwater and total depth for each well was then measured. At the time the measurements were taken, the depth to groundwater in the three wells ranged from 8.6 feet below ground surface (bgs) to 12.6 feet bgs and/or below the floor of the warehouse. Monitoring well MW-2 is located adjacent to the existing warehouse building. The groundwater measurements are presented in Table 1.

Mr. Troy Thomas All New Glass October 2, 2018 Page 2 of 4

A peristaltic pump with disposable tubing was used to purge each monitoring well to remove standing water so that a representative sample could be collected. Purging was completed when field parameters measured during the purge had stabilized. Field parameters included pH, specific conductivity, salinity, temperature, total dissolved solids, turbidity, dissolved oxygen, and oxidation reduction potential. Field parameters were measured before and during purging. Copies of the water sampling logs are enclosed with this letter. Once the parameters had stabilized, a groundwater sample was collected using the pump and disposable tubing. Purged water from the well was drummed on the Subject Property and held for proper disposal based on the analytical results.

Groundwater samples collected from the three wells were analyzed for:

- Diesel- and oil-range hydrocarbons using Northwest Total Petroleum Hydrocarbons (NWTPH) as Diesel-Extended Method (NWTPH-Dx);
- Gasoline-range (Gx) hydrocarbons with benzene, toluene, ethylbenzene, and xylenes (BTEX) using the NWTPH as Gasoline with BTEX Method (NWTPH-Gx/BTEX);
- Polychlorinated biphenyls (PCBs) using the U.S. Environmental Protection Agency (EPA) Method (8082);
- Polycyclic aromatic hydrocarbons (PAHs) and naphthalene using EPA Method (8270D/SIM); and
- Lead and cadmium (total and dissolved) using EPA Method (6010B).

The list of analytes was selected to provide information on all potential contaminants of concern that were identified in site soils during a site cleanup action that was completed in 2001/2002.

LABORATORY RESULTS

The groundwater samples collected from the three wells did not contain detectable concentrations of diesel-, heavy oil- or gasoline-range hydrocarbons, including BTEX, PCBs, PAHs, or total and/or dissolved cadmium. Total lead was detected in the sample collected from MW-2 at a concentration of 2.3 micrograms per liter (ug/L), which is below Model Toxics Control Act (MTCA) Method A unrestricted use cleanup criterion of 15 ug/L. The results for this sampling event are presented in Table 2 and previous sampling completed between 2008 and 2018 are presented in Table 3. A copy of the analytical results is enclosed with this letter.

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Mr. Troy Thomas All New Glass October 2, 2018 Page 3 of 4

DISPOSAL OF INVESTIGATION-DERIVED WASTE

Purge and rinse water generated during the field activities, was placed into a 55-gallon drum and temporarily stored on site pending analytical analysis. Upon receipt of the analytical data, the water was disposed following State of Washington guidelines.

DISCUSSION

No potential contaminants of concern were detected in the samples collected during this event with the exception of total lead in one well (MW-2). The detected concentration for the total lead was not above its MTCA Method A cleanup criteria and the associated dissolved lead sample from that same well was non-detect. Based on the information contained in this letter, it is our opinion that the site remediation and existing controls continue to be protective of human health and the environment. The analytical data demonstrates that groundwater quality at the subject property has not been impacted since remediation was completed in 2002. Since 2009 analytical results indicate that no contaminants of concern were detected in the Subject Property groundwater samples at concentrations that exceeded MTCA Method A cleanup levels.

Based on the available information, we will make a request of Ecology to discontinue groundwater sampling and to abandon the wells located on the Subject Property.

LIMITATIONS

Shannon & Wilson has prepared this letter in a professional manner, using that level of skill and care normally exercised for similar projects under similar conditions by reputable and competent environmental consultants currently practicing in the area. Shannon & Wilson is not responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time the letter was prepared. We also note that the facts and conditions referenced in this letter may change over time, and that the conclusions and recommendations set forth here are applicable to the facts and conditions as described only at the time of this letter. We believe that the conclusions stated here are factual, but no guarantee is made or implied.

This letter was prepared for the exclusive use of All New Glass and your respective representatives and in no way guarantees that any agency or its staff will reach the same conclusions as Shannon & Wilson. Shannon & Wilson. has prepared the enclosed, "Important

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Mr. Troy Thomas All New Glass October 2, 2018 Page 4 of 4

Information About Your Geotechnical/Environmental Report," to help you and others in understanding our reports.

We appreciate the opportunity to work with you on this project and look forward to working with you in the future. Should you have any questions regarding the contents of this letter, please contact us at (206) 695-6918.

Sincerely,

SHANNON & WILSON, INC.

David Randall

Senior Environmental Scientist



Meg Strong, LG, LHG Vice President

DJR:MJS/djr

Enc: Water Sampling Logs

Analytical Report

Table 1-2018 Groundwater Elevations in Monitoring Wells, 2008-2018

Table 2 – 2018 Groundwater Analytical Results, August 2018

Table 3 – Historical Groundwater Analytical Results, 2008-2012

Figure 1 – Vicinity Map

Figure 2 – Monitoring Well Locations

Important Information About Your Geotechnical/Environmental Report

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SHANNON & WILSON, INC.	
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WELL CASING VOLUMES



August 31, 2018

David Randall Shannon & Wilson, Inc. 400 N 34th Street, Suite 100 Seattle, WA 98103

Re: Analytical Data for Project 101324-001

Laboratory Reference No. 1808-257

Dear David:

Enclosed are the analytical results and associated quality control data for samples submitted on August 23, 2018.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures



Project: 101324-001

Case Narrative

Samples were collected on August 22, 2018 and received by the laboratory on August 23, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Project: 101324-001

GASOLINE RANGE ORGANICS/BTEX NWTPH-Gx/EPA 8021B

Matrix: Water
Units: ug/L (ppb)

0 (11)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-5-GW-08222018					
Laboratory ID:	08-257-01					
Benzene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
Toluene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
Ethyl Benzene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
m,p-Xylene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
o-Xylene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
Gasoline	ND	100	NWTPH-Gx	8-27-18	8-27-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	102	66-117				
Client ID:	MW-4-GW-08222018					
Laboratory ID:	08-257-02					
Benzene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
Toluene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
Ethyl Benzene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
m,p-Xylene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
o-Xylene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
Gasoline	ND	100	NWTPH-Gx	8-27-18	8-27-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	98	66-117				
Client ID:	MW-2-GW-08222018					
Laboratory ID:	08-257-03					
Benzene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
Toluene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
Ethyl Benzene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
m,p-Xylene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
o-Xylene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
Gasoline	ND	100	NWTPH-Gx	8-27-18	8-27-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	111	66-117				

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GASOLINE RANGE ORGANICS/BTEX NWTPH-Gx/EPA 8021B QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0827W2					
Benzene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
Toluene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
Ethyl Benzene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
m,p-Xylene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
o-Xylene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
Gasoline	ND	100	NWTPH-Gx	8-27-18	8-27-18	

Surrogate: Percent Recovery Control Limits Fluorobenzene 111 66-117

					Source	Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	08-27	76-06									
	ORIG	DUP									
Benzene	ND	ND	NA	NA		١	NΑ	NA	NA	30	
Toluene	ND	ND	NA	NA		1	NΑ	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA		1	NΑ	NA	NA	30	
m,p-Xylene	ND	ND	NA	NA		1	NΑ	NA	NA	30	
o-Xylene	ND	ND	NA	NA		1	NΑ	NA	NA	30	
Gasoline	ND	ND	NA	NA		1	NA	NA	NA	30	
Surrogate:											
Fluorobenzene						113	114	66-117			
MATRIX SPIKES											
Laboratory ID:	08-27	76-03									
	MS	MSD	MS	MSD		MS	MSD				
Benzene	53.6	51.8	50.0	50.0	ND	107	104	82-122	3	11	
Toluene	52.2	50.4	50.0	50.0	ND	104	101	83-123	4	12	
Ethyl Benzene	52.3	50.6	50.0	50.0	ND	105	101	83-123	3	12	
m,p-Xylene	51.7	50.2	50.0	50.0	ND	103	100	83-123	3	12	
o-Xylene	52.3	51.0	50.0	50.0	ND	105	102	83-123	3	11	
Surrogate:											
Fluorobenzene						103	104	66-117			

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DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

			Date	Date	
Result	PQL	Method	Prepared	Analyzed	Flags
MW-5-GW-08222018					
08-257-01					
ND	0.27	NWTPH-Dx	8-24-18	8-24-18	
ND	0.44	NWTPH-Dx	8-24-18	8-24-18	
Percent Recovery	Control Limits				
101	50-150				
M/W_4_G/W_09222019					
	0.26	NIMTDH-Dv	9-2/-19	9-24-19	
		INVVIFITOX	0-24-10	0-24-10	
•					
95	30-130				
MW-2-GW-08222018					
08-257-03					
ND	0.26	NWTPH-Dx	8-24-18	8-24-18	
ND	0.41	NWTPH-Dx	8-24-18	8-24-18	
Percent Recovery	Control Limits				
	MW-5-GW-08222018	MW-5-GW-08222018 08-257-01 0.27 ND 0.44 Percent Recovery 101 Control Limits 50-150 MW-4-GW-08222018 08-257-02 ND 0.26 ND 0.41 Percent Recovery 95 Control Limits 50-150 MW-2-GW-08222018 08-257-03 ND 0.26 ND 0.26 ND 0.26 ND 0.41	MW-5-GW-08222018 08-257-01 ND 0.27 NWTPH-Dx ND 0.44 NWTPH-Dx Percent Recovery 101 Control Limits 50-150 MW-4-GW-08222018 NB 0.26 NWTPH-Dx ND 0.41 NWTPH-Dx Percent Recovery 95 Control Limits 50-150 MW-2-GW-08222018 NB 0.26 NWTPH-Dx ND 0.26 NWTPH-Dx ND 0.41 NWTPH-Dx ND 0.41 NWTPH-Dx	Result PQL Method Prepared MW-5-GW-08222018 08-257-01 0.27 NWTPH-Dx 8-24-18 ND 0.44 NWTPH-Dx 8-24-18 Percent Recovery 101 Control Limits 50-150 NWTPH-Dx 8-24-18 MW-4-GW-08222018 08-257-02 ND 0.26 NWTPH-Dx 8-24-18 Percent Recovery 95 Control Limits 50-150 NWTPH-Dx 8-24-18 MW-2-GW-08222018 08-257-03 ND 0.26 NWTPH-Dx 8-24-18 ND 0.41 NWTPH-Dx 8-24-18	Result PQL Method Prepared Analyzed MW-5-GW-08222018 08-257-01 0.27 NWTPH-Dx 8-24-18 8-24-18 ND 0.44 NWTPH-Dx 8-24-18 8-24-18 Percent Recovery 101 Control Limits 50-150 8-24-18 8-24-18 MW-4-GW-08222018 08-257-02 NWTPH-Dx 8-24-18 8-24-18 Percent Recovery 95 Control Limits 50-150 8-24-18 8-24-18 MW-2-GW-08222018 08-257-03 ND 0.26 NWTPH-Dx 8-24-18 8-24-18 ND 0.26 NWTPH-Dx 8-24-18 8-24-18 ND 0.26 NWTPH-Dx 8-24-18 8-24-18

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DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx QUALITY CONTROL

Matrix: Water Units: mg/L (ppm)

A 1 . 1 .	B !!	DOL		Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0824W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	8-24-18	8-24-18	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	8-24-18	8-24-18	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	90	50-150				

					Source	Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Reco	very	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	08-25	56-02									
	ORIG	DUP									
Diesel Range	ND	ND	NA	NA		N	Α	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA		N	Α	NA	NA	NA	
Surrogate:											
o-Terphenyl						85	93	50-150			

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PCBs EPA 8082A

Matrix: Water
Units: ug/L (ppb)

0 (11 /				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-5-GW-08222018					
Laboratory ID:	08-257-01					
Aroclor 1016	ND	0.049	EPA 8082A	8-27-18	8-27-18	
Aroclor 1221	ND	0.049	EPA 8082A	8-27-18	8-27-18	
Aroclor 1232	ND	0.049	EPA 8082A	8-27-18	8-27-18	
Aroclor 1242	ND	0.049	EPA 8082A	8-27-18	8-27-18	
Aroclor 1248	ND	0.049	EPA 8082A	8-27-18	8-27-18	
Aroclor 1254	ND	0.049	EPA 8082A	8-27-18	8-27-18	
Aroclor 1260	ND	0.049	EPA 8082A	8-27-18	8-27-18	
Surrogate:	Percent Recovery	Control Limits				
DCB	91	44-144				
Client ID:	MW-4-GW-08222018					
Laboratory ID:	08-257-02					
Aroclor 1016	ND	0.048	EPA 8082A	8-27-18	8-27-18	
Aroclor 1221	ND	0.048	EPA 8082A	8-27-18	8-27-18	
Aroclor 1232	ND	0.048	EPA 8082A	8-27-18	8-27-18	
Aroclor 1242	ND	0.048	EPA 8082A	8-27-18	8-27-18	
Aroclor 1248	ND	0.048	EPA 8082A	8-27-18	8-27-18	
Aroclor 1254	ND	0.048	EPA 8082A	8-27-18	8-27-18	
Aroclor 1260	ND	0.048	EPA 8082A	8-27-18	8-27-18	
Surrogate:	Percent Recovery	Control Limits				
DCB	98	44-144				
Client ID:	MW-2-GW-08222018					
Laboratory ID:	08-257-03					
Aroclor 1016	ND	0.047	EPA 8082A	8-27-18	8-27-18	
Aroclor 1221	ND	0.047	EPA 8082A	8-27-18	8-27-18	
Aroclor 1232	ND	0.047	EPA 8082A	8-27-18	8-27-18	
Aroclor 1242	ND	0.047	EPA 8082A	8-27-18	8-27-18	
Aroclor 1248	ND	0.047	EPA 8082A	8-27-18	8-27-18	
Aroclor 1254	ND	0.047	EPA 8082A	8-27-18	8-27-18	
Aroclor 1260	ND	0.047	EPA 8082A	8-27-18	8-27-18	
Surrogate:	Percent Recovery	Control Limits				
DCB	89	44-144				

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PCBs EPA 8082A QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0827W1					
Aroclor 1016	ND	0.050	EPA 8082A	8-27-18	8-27-18	
Aroclor 1221	ND	0.050	EPA 8082A	8-27-18	8-27-18	
Aroclor 1232	ND	0.050	EPA 8082A	8-27-18	8-27-18	
Aroclor 1242	ND	0.050	EPA 8082A	8-27-18	8-27-18	
Aroclor 1248	ND	0.050	EPA 8082A	8-27-18	8-27-18	
Aroclor 1254	ND	0.050	EPA 8082A	8-27-18	8-27-18	
Aroclor 1260	ND	0.050	EPA 8082A	8-27-18	8-27-18	

Surrogate: Percent Recovery Control Limits DCB 94 44-144

Analyte	Re	sult	Spike	Level	Source Result		rcent covery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB08	27W1									
	SB	SBD	SB	SBD		SB	SBD				_
Aroclor 1260	0.457	0.452	0.500	0.500	N/A	91	90	71-131	1	12	
Surrogate:											_
DCB						94	93	44-144			

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TOTAL METALS EPA 200.8

Matrix: Water Units: ug/L (ppb)

				Date	Date		
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags	
Client ID:	MW-5-GW-08222018						
Laboratory ID:	08-257-01						
Cadmium	ND	4.4	EPA 200.8	8-24-18	8-24-18		
Lead	ND	1.1	EPA 200.8	8-24-18	8-24-18		
Client ID:	MW-4-GW-08222018						
Laboratory ID:	08-257-02						
Cadmium	ND	4.4	EPA 200.8	8-24-18	8-24-18		
Lead	ND	1.1	EPA 200.8	8-24-18	8-24-18		
Client ID:	MW-2-GW-08222018						
Laboratory ID:	08-257-03						
Cadmium	ND	4.4	EPA 200.8	8-24-18	8-24-18		
Lead	2.3	1.1	EPA 200.8	8-24-18	8-24-18		

TOTAL METALS EPA 200.8 QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0824WM1					
Cadmium	ND	4.4	EPA 200.8	8-24-18	8-24-18	
Lead	ND	1.1	EPA 200.8	8-24-18	8-24-18	

Analyte	Res	sult	Spike	Level	Source Result	_	rcent overy	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE			-				-				
Laboratory ID:	08-07	74-02									
	ORIG	DUP									
Cadmium	ND	ND	NA	NA		1	NA AV	NA	NA	20	
Lead	ND	ND	NA	NA		1	NA	NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	08-07	74-02									
	MS	MSD	MS	MSD		MS	MSD				
Cadmium	232	236	222	222	ND	104	106	75-125	2	20	
Lead	228	231	222	222	ND	103	104	75-125	1	20	

Project: 101324-001

DISSOLVED METALS EPA 200.8

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-5-GW-08222018					
Laboratory ID:	08-257-01					
Cadmium	ND	4.0	EPA 200.8		8-24-18	
Lead	ND	1.0	EPA 200.8		8-24-18	
Client ID:	MW-4-GW-08222018					
Laboratory ID:	08-257-02					
Cadmium	ND	4.0	EPA 200.8		8-24-18	
Lead	ND	1.0	EPA 200.8		8-24-18	
Client ID:	MW-2-GW-08222018					
Laboratory ID:	08-257-03					
Cadmium	ND	4.0	EPA 200.8		8-24-18	
Lead	ND	1.0	EPA 200.8		8-24-18	

DISSOLVED METALS EPA 200.8 QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						_
Laboratory ID:	MB0824D1					
Cadmium	ND	4.0	EPA 200.8		8-24-18	
Lead	ND	1.0	EPA 200.8		8-24-18	

					Source	Pe	rcent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	08-25	57-03									
	ORIG	DUP									
Cadmium	ND	ND	NA	NA			NA	NA	NA	20	
Lead	ND	ND	NA	NA			NA	NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	08-25	57-03									
	MS	MSD	MS	MSD		MS	MSD				
Cadmium	198	193	200	200	ND	99	96	75-125	3	20	
Lead	190	183	200	200	ND	95	92	75-125	3	20	

cPAHs + NAPHTHALENE **EPA 8270D/SIM**

Matrix: Water Units: ug/L

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-5-GW-08222018					
Laboratory ID:	08-257-01					
Naphthalene	ND	0.11	EPA 8270D/SIM	8-25-18	8-27-18	
2-Methylnaphthalene	ND	0.11	EPA 8270D/SIM	8-25-18	8-27-18	
1-Methylnaphthalene	ND	0.11	EPA 8270D/SIM	8-25-18	8-27-18	
Benzo[a]anthracene	ND	0.011	EPA 8270D/SIM	8-25-18	8-27-18	
Chrysene	ND	0.011	EPA 8270D/SIM	8-25-18	8-27-18	
Benzo[b]fluoranthene	ND	0.011	EPA 8270D/SIM	8-25-18	8-27-18	
Benzo(j,k)fluoranthene	ND	0.011	EPA 8270D/SIM	8-25-18	8-27-18	
Benzo[a]pyrene	ND	0.011	EPA 8270D/SIM	8-25-18	8-27-18	
Indeno(1,2,3-c,d)pyrene	ND	0.011	EPA 8270D/SIM	8-25-18	8-27-18	
Dibenz[a,h]anthracene	ND	0.011	EPA 8270D/SIM	8-25-18	8-27-18	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	63	21 - 110				
Pyrene-d10	<i>7</i> 9	19 - 111				
Terphenyl-d14	78	32 - 137				

cPAHs + NAPHTHALENE **EPA 8270D/SIM**

Matrix: Water Units: ug/L

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-4-GW-08222018					
Laboratory ID:	08-257-02					
Naphthalene	ND	0.11	EPA 8270D/SIM	8-25-18	8-27-18	
2-Methylnaphthalene	ND	0.11	EPA 8270D/SIM	8-25-18	8-27-18	
1-Methylnaphthalene	ND	0.11	EPA 8270D/SIM	8-25-18	8-27-18	
Benzo[a]anthracene	ND	0.011	EPA 8270D/SIM	8-25-18	8-27-18	
Chrysene	ND	0.011	EPA 8270D/SIM	8-25-18	8-27-18	
Benzo[b]fluoranthene	ND	0.011	EPA 8270D/SIM	8-25-18	8-27-18	
Benzo(j,k)fluoranthene	ND	0.011	EPA 8270D/SIM	8-25-18	8-27-18	
Benzo[a]pyrene	ND	0.011	EPA 8270D/SIM	8-25-18	8-27-18	
Indeno(1,2,3-c,d)pyrene	ND	0.011	EPA 8270D/SIM	8-25-18	8-27-18	
Dibenz[a,h]anthracene	ND	0.011	EPA 8270D/SIM	8-25-18	8-27-18	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	54	21 - 110				
Pyrene-d10	62	19 - 111				
Terphenyl-d14	61	32 - 137				

cPAHs + NAPHTHALENE **EPA 8270D/SIM**

Matrix: Water Units: ug/L

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-2-GW-08222018					
Laboratory ID:	08-257-03					
Naphthalene	ND	0.11	EPA 8270D/SIM	8-25-18	8-27-18	
2-Methylnaphthalene	ND	0.11	EPA 8270D/SIM	8-25-18	8-27-18	
1-Methylnaphthalene	ND	0.11	EPA 8270D/SIM	8-25-18	8-27-18	
Benzo[a]anthracene	ND	0.011	EPA 8270D/SIM	8-25-18	8-27-18	
Chrysene	ND	0.011	EPA 8270D/SIM	8-25-18	8-27-18	
Benzo[b]fluoranthene	ND	0.011	EPA 8270D/SIM	8-25-18	8-27-18	
Benzo(j,k)fluoranthene	ND	0.011	EPA 8270D/SIM	8-25-18	8-27-18	
Benzo[a]pyrene	ND	0.011	EPA 8270D/SIM	8-25-18	8-27-18	
Indeno(1,2,3-c,d)pyrene	ND	0.011	EPA 8270D/SIM	8-25-18	8-27-18	
Dibenz[a,h]anthracene	ND	0.011	EPA 8270D/SIM	8-25-18	8-27-18	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	73	21 - 110				
Pyrene-d10	85	19 - 111				
Terphenyl-d14	84	32 - 137				

cPAHs + NAPHTHALENE **EPA 8270D/SIM** METHOD BLANK QUALITY CONTROL

Matrix: Water Units: ug/L

			Date	Date	
Result	PQL	Method	Prepared	Analyzed	Flags
MB0825W1					
ND	0.10	EPA 8270D/SIM	8-25-18	8-27-18	
ND	0.10	EPA 8270D/SIM	8-25-18	8-27-18	
ND	0.10	EPA 8270D/SIM	8-25-18	8-27-18	
ND	0.010	EPA 8270D/SIM	8-25-18	8-27-18	
ND	0.010	EPA 8270D/SIM	8-25-18	8-27-18	
ND	0.010	EPA 8270D/SIM	8-25-18	8-27-18	
ND	0.010	EPA 8270D/SIM	8-25-18	8-27-18	
ND	0.010	EPA 8270D/SIM	8-25-18	8-27-18	
ND	0.010	EPA 8270D/SIM	8-25-18	8-27-18	
ND	0.010	EPA 8270D/SIM	8-25-18	8-27-18	
Percent Recovery	Control Limits				
78	21 - 110				
94	19 - 111				
93	32 - 137				
	MB0825W1 ND Percent Recovery 78 94	MB0825W1 ND 0.10 ND 0.10 ND 0.010 Percent Recovery Control Limits 78 21 - 110 94 19 - 111	ND 0.10 EPA 8270D/SIM ND 0.10 EPA 8270D/SIM ND 0.10 EPA 8270D/SIM ND 0.010 EPA 8270D/SIM Percent Recovery Control Limits 78 21 - 110 94 19 - 111	MB0825W1 ND 0.10 EPA 8270D/SIM 8-25-18 ND 0.10 EPA 8270D/SIM 8-25-18 ND 0.10 EPA 8270D/SIM 8-25-18 ND 0.010 EPA 8270D/SIM 8-25-18 Percent Recovery Control Limits 78 21 - 110 PA 8270D/SIM 8-25-18	Result PQL Method Prepared Analyzed MB0825W1 ND 0.10 EPA 8270D/SIM 8-25-18 8-27-18 ND 0.10 EPA 8270D/SIM 8-25-18 8-27-18 ND 0.10 EPA 8270D/SIM 8-25-18 8-27-18 ND 0.010 EPA 8270D/SIM 8-25-18 8-27-18 P

Date of Report: August 31, 2018 Samples Submitted: August 23, 2018 Laboratory Reference: 1808-257 Project: 101324-001

cPAHs + NAPHTHALENE **EPA 8270D/SIM SB/SBD QUALITY CONTROL**

Matrix: Water Units: ug/L

					Per	cent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	_	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB08	25W1								
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.408	0.412	0.500	0.500	82	82	28 - 109	1	38	
Benzo[a]anthracene	0.444	0.465	0.500	0.500	89	93	57 - 127	5	15	
Chrysene	0.423	0.440	0.500	0.500	85	88	51 - 120	4	15	
Benzo[b]fluoranthene	0.440	0.467	0.500	0.500	88	93	54 - 124	6	17	
Benzo(j,k)fluoranthene	0.430	0.443	0.500	0.500	86	89	50 - 127	3	18	
Benzo[a]pyrene	0.415	0.442	0.500	0.500	83	88	50 - 120	6	16	
Indeno(1,2,3-c,d)pyrene	0.429	0.451	0.500	0.500	86	90	46 - 132	5	20	
Dibenz[a,h]anthracene	0.435	0.452	0.500	0.500	87	90	49 - 129	4	18	
Surrogate:										
2-Fluorobiphenyl					74	80	21 - 110			
Pyrene-d10					82	85	19 - 111			
Terphenyl-d14					80	84	32 - 137			



Data Qualifiers and Abbreviations

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical .
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

7 -

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference





Chain of Custody

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			2	200	relan		0		150	Sans			8/22/18	8/22/18	8/22/18	8/22/8	Date Sampled	[Stan	2 Days	Same Day		Tur (i
Reviewed/Date			OSE	172	Ale	Shannon Etvilson,	Company		15				1	1615 Gw	1350	Mg 5001	Time Sampled Matrix	(other)		Standard (7 Days) (TPH analysis 5 Days)	ys 🔲 3 Days	e Day 🔲 1 Day	(Check One)	furnaround Request (in working days)
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Ds)						tere				_			X				% Mo	ld						

TABLE 1
GROUNDWATER ELEVATIONS IN MONITORING WELLS
2008 -2018

Well Number	Date	TOC Elevation	DTW	Groundwater Elevation
MW-1	11/26/2008	72.16	5.62	66.54
(AGJ686)	1/9/2009	72.16	4.93	67.23
	4/15/2009	72.16	4.31	67.85
	7/28/2009	72.16	6.62	65.54
	10/9/2009	72.16	7.57	64.59
	5/5/2011	72.16	3.51	68.65
	8/10/2011	72.16	5.21	66.95
	11/17/2011	72.16	5.65	66.51
	2/18/2012	72.16	2.78	69.38
MW-2	11/26/2008	72.73	4	68.73
(AGJ687)	1/9/2009	72.73	3.2	69.53
	4/15/2009	72.73	3.11	69.62
	7/28/2009	72.73	7.95	64.78
	10/9/2009	72.73	8.36	64.37
	5/5/2011	72.73	3.16	69.57
	8/10/2011	72.73	4.85	67.88
	11/17/2011	72.73	5.75	66.98
	2/18/2012	72.73	3.12	69.61
	8/22/20108	72.73	8.6	64.13
MW-4	1/9/2009	75.98	8.10	67.88
(BBA739)	4/15/2009	75.98	8.91	67.07
	7/28/2009	75.98	11.32	64.66
	10/9/2009	75.98	11.82	64.16
	5/5/2011	75.98	8.66	67.32
	8/10/2011	75.98	10.77	65.21
	11/17/2011	75.98	10.61	65.37
	2/18/2012	75.98	8.76	67.22
	8/22/20108	75.98	11.90	64.08
MW-5	1/9/2009	76.32	6.42	69.90
(BBA740)	4/15/2009	76.32	7.34	68.98
	7/28/2009	76.32	11.74	64.58
	10/9/2009	76.32	12.21	64.11
	5/5/2011	76.32	7.56	68.76
	8/10/2011	76.32	10.62	65.70
	11/17/2011	76.32	10.48	65.84
	2/28/2012	76.32	7.51	68.81
	8/22/20108	76.32	12.6	63.72

Notes:

Elevations are in feet.

DTW = depth to water

TOC = top of well casing

TABLE 2 GROUNDWATER ANALYTICAL RESULTS August 2018

			Petroleu	m (mg/L)		BTEX (μg/L) Total Metals (μg/L)					letals (µg/L)		ved Metals ug/L)		Total	
Well Number	Sample Number	Sample Date	Oil	Diesel	Gasoline (µg/L)	Benzene	Toluene	Ethylbenzene	Xylenes	Lead	Cadmium	Lead	Cadmium	PCBs (µg/L)	cPAHs (μg/L)	Napthalene (µg/L)
	GROUNDWATE	R RESULTS														
MW-2	MW-2-GW-08222018	8/22/2018	< 0.41	< 0.26	<100	<1.0	<1.0	<1.0	<1.0	2.3	<4.4	<1.0	<4.0	< 0.047	0.01	< 0.11
MW-4	MW-4-GW-08222018	8/22/2018	< 0.41	< 0.26	<100	<1.0	<1.0	<1.0	<1.0	<1.1	<4.4	<1.0	<4.0	< 0.048	0.01	< 0.11
MW-5	MW-5-GW-08222018	8/22/2018	< 0.44	< 0.27	<100	<1.0	<1.0	<1.0	<1.0	<1.1	<4.4	<1.0	<4.0	< 0.049	0.01	< 0.11
	MT	CA Method A	500	500	1,000	5	1,000	700	1,000	15	5	15	5	0.1	0.1 (1)	160

(1) Sum of the toxic equivalency factor (TEF) for each carcinogenic polycyclic aromatic hydrocarbon. Calculated as the detected concentration times the TEF, or as the method detection limit (if analyte is not detected) times the TEF. **Bold** text indicates a detected analyte.

<= less than

BTEX = benzene, toluene, ethylbenzene, and xylenes cPAHs = carcinogenic polycyclic aromatic hydrocarbons µg/L = micrograms per liter

mg/L = milligrams per liter

PCBs = polychlorinated biphenyls

TABLE 3 HISTORICAL GROUNDWATER ANALYTICAL RESULTS 2008 - 2012

			Petroleum (mg/L)			BTEX (μg/L)				Total Metals (µg/L)		Dissolved Metals (µg/L)			Total		VOCs ^ (μg/L)
Well Number	Sample Number	Sample Date	Oil	Diesel	Gasoline (µg/L)	Benzene	Toluene	Ethylbenzene	Xvlenes	Lead	Cadmium	Lead	Cadmium	PCBs (µg/L)	cPAHs (μg/L)	Napthalene (µg/L)	1,1,1-trichloroethane
GROUNDWATER RESULTS					Denzene	Tordene	Ethylpenzene	rigienes	Leuu	Cuamum	Deut	Cuaman	(μg/ <i>L</i>)	(μg/L)	(μg/L)		
MW-1**	MW-1-GW-1	11/7/2008	0.59	< 0.25	<400	<4.0	<4.0	<4.0	<4.0			33	<4.0	< 0.048	0.01	< 0.095	
MW-1	MW-1-GW-112608	11/26/2008	< 0.40	< 0.25								<1.0					
MW-1	MW-1-GW-2	4/15/2009	< 0.38	< 0.24	<400	<4.0	<4.0	<4.0	<4.0			20	<4.0	< 0.47	0.01	< 0.095	
MW-1	MW-1-GW-3	7/28/2009	< 0.46	< 0.29	<100	<1.0	<1.0	<1.0	<1.0			<1.0	<4.0	< 0.48	0.01	< 0.095	
MW-1	MW-1-GW-4	10/9/2009	< 0.40	< 0.25	<100	<1.0	<1.0	<1.0	<1.0			<1.0	<4.0	< 0.48	0.01	< 0.097	
MW-1	MW-1-GW-1:11	5/5/2011	< 0.41	< 0.26	<100	< 0.20	<1.0	< 0.20	< 0.60	<1.1	<4.4			< 0.047	0.01	< 0.095	
MW-1	MW-1-GW-2:11	8/10/2011	< 0.41	< 0.26	<100	< 0.20	<1.0	< 0.20	< 0.60	<1.0	<4.0			< 0.048	0.01	< 0.096	
MW-1	MW-1-GW-3:11	11/17/2011	< 0.41	< 0.26	<100	< 0.20	<1.0	< 0.20	< 0.60	<1.1	<4.4			< 0.048	0.01	< 0.095	
MW-1	MW-1-GW-4:12	2/28/2012	< 0.41	< 0.26	<100	< 0.20	1.4	< 0.20	< 0.60	<1.0	< 0.40			< 0.048	0.01	< 0.095	
MW-4	MW-4-GW-1	1/9/2009	< 0.40	< 0.25	<100	< 0.20	<1.0	< 0.20	< 0.20			<1.0	<4.0	< 0.48	0.01	< 0.095	< 0.20
MW-4	MW-4-GW-2	4/15/2009	< 0.38	< 0.24	<100	<1.0	<1.0	<1.0	<1.0			<1.0	<4.0	< 0.48	0.01	< 0.095	
MW-4	MW-4-GW-3	7/28/2009	< 0.46	< 0.29	<100	<1.0	<1.0	<1.0	<1.0			<1.0	<4.0	< 0.48	0.01	< 0.095	
MW-4	MW-4-GW-4	10/9/2009	< 0.40	< 0.25	<100	<1.0	<1.0	<1.0	<1.0			<1.0	<4.0	< 0.47	0.01	< 0.095	
MW-4	MW-4-GW-1:11	5/5/2011	< 0.41	< 0.26	<100	< 0.20	<1.0	< 0.20	< 0.60	<1.1	<4.4			< 0.047	0.01	< 0.095	
MW-4	MW-4-GW-2:11	8/10/2011	< 0.41	< 0.26	<100	< 0.20	<1.0	< 0.20	< 0.60	<1.0	<4.0			< 0.048	0.01	< 0.096	
MW-4	MW-4-GW-3:11	11/17/2011	< 0.42	< 0.26	<100	< 0.20	<1.0	< 0.20	< 0.60	<1.1	<4.4			< 0.047	0.01	< 0.095	
MW-4	MW-4-GW-4:12	2/12/2012	< 0.41	< 0.26	<100	< 0.20	<1.0	< 0.20	< 0.60	<1.0	< 0.40			< 0.048	0.01	< 0.095	
MW-5	MW-5-GW-1	1/9/2009	< 0.40	< 0.25	<100	< 0.20	<1.0	< 0.20	< 0.20			<1.0	<4.0	< 0.47	0.01	< 0.095	0.27
MW-5	MW-5-GW-2	4/15/2009	< 0.38	< 0.24	<100	<1.0	<1.0	<1.0	<1.0			<1.0	<4.0	< 0.48	0.01	< 0.096	
MW-5	MW-5-GW-3	7/28/2009	< 0.45	< 0.28	<100	<1.0	<1.0	<1.0	<1.0			<1.0	<4.0	< 0.48	0.01	< 0.095	
MW-5	MW-5-GW-4	10/9/2009	< 0.40	< 0.25	<100	<1.0	<1.0	<1.0	<1.0			<1.0	<4.0	< 0.47	0.01	< 0.095	
MW-5	MW-5-GW-1:11	5/5/2011	< 0.41	< 0.26	<100	< 0.20	<1.0	< 0.20	< 0.60	<1.1	<4.4			< 0.049	0.01	< 0.095	
MW-5	MW-5-GW-2:11	8/10/2011	< 0.41	< 0.26	<100	< 0.20	<1.0	< 0.20	< 0.60	<1.0	<4.0			< 0.048	0.04	< 0.096	
MW-5	MW-5-GW-3:11	11/17/2011	< 0.41	< 0.25	<100	< 0.20	<1.0	< 0.20	< 0.60	<1.1	<4.4			< 0.048	0.01	< 0.095	
MW-5	MW-5-GW-4:12	2/28/2012	< 0.41	< 0.26	<100	< 0.20	1.1	< 0.20	< 0.60	<1.0	< 0.40			< 0.047	0.01	< 0.095	
MW-5	MW-5-GW-4:12A	2/28/2012													0.01	< 0.095	
MTCA Method A 500 500 1,000					5	1000	700	1,000	15	5	15	5	0.1	0.1 (1)	160	200	

Notes:

Bold text indicates a detected analyte.

Shaded text indicates concentration exceeds state cleanup criterion.

^ = Only detected volatile organic compounds (VOCs) are summarized on this table.

-- = not tested

< = less than

BTEX = benzene, toluene, ethylbenzene, and xylenes

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

mg/L = milligrams per liter

 μ g/L = micrograms per liter

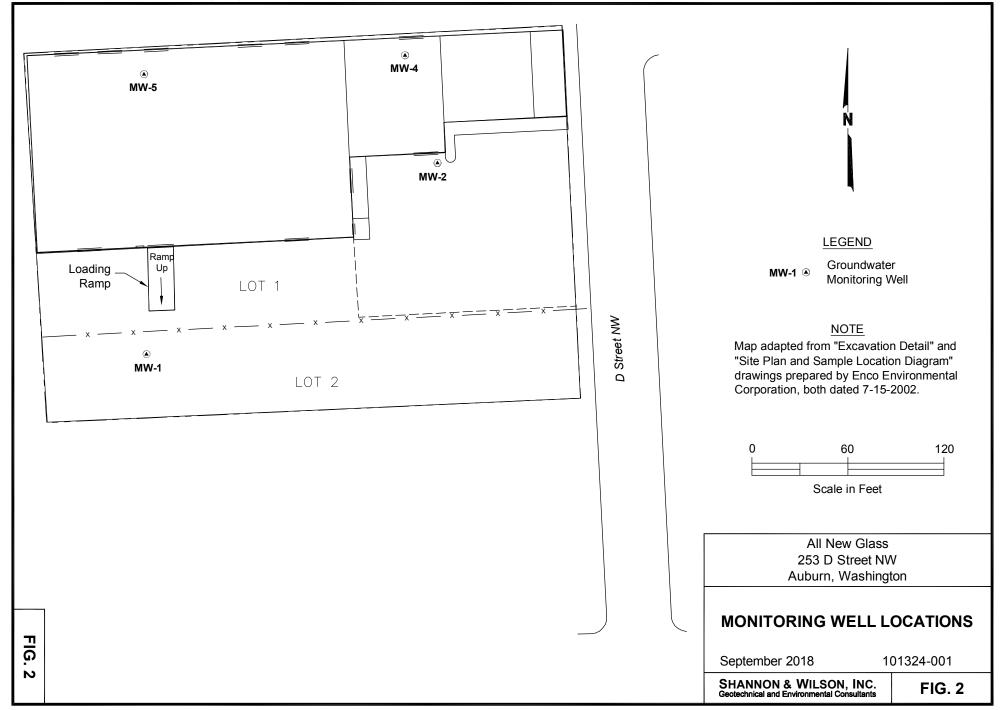
MTCA = Washington Model Toxics Control Act

PCBs = polychlorinated biphenyls

⁽¹⁾ Sum of the toxic equivalency factor (TEF) for each carcinogenic polycyclic aromatic hydrocarbon. Calculated as the detected concentration times the TEF, or as the method detection limit (if analyte is not detected) times the TEF.

^{**} Results rejected due to inadequate sample preparation.

File: J:\211\12334-001\21-1-12334-001 Fig 1.dwg Date: 03-15-2012 Author: sac



Attachment to and part of Report 101324-001

Date: October 2, 2018
To: Mr. Troy Thomas

All New Glass

IMPORTANT INFORMATION ABOUT YOUR GEOTECHNICAL/ ENVIRONMENTAL REPORT

CONSULTING SERVICES ARE PERFORMED FOR SPECIFIC PURPOSES AND FOR SPECIFIC CLIENTS.

Consultants prepare reports to meet the specific needs of specific individuals. A report prepared for a civil engineer may not be adequate for a construction contractor or even another civil engineer. Unless indicated otherwise, your consultant prepared your report expressly for you and expressly for the purposes you indicated. No one other than you should apply this report for its intended purpose without first conferring with the consultant. No party should apply this report for any purpose other than that originally contemplated without first conferring with the consultant.

THE CONSULTANT'S REPORT IS BASED ON PROJECT-SPECIFIC FACTORS.

A geotechnical/environmental report is based on a subsurface exploration plan designed to consider a unique set of project-specific factors. Depending on the project, these may include: the general nature of the structure and property involved; its size and configuration; its historical use and practice; the location of the structure on the site and its orientation; other improvements such as access roads, parking lots, and underground utilities; and the additional risk created by scope-of-service limitations imposed by the client. To help avoid costly problems, ask the consultant to evaluate how any factors that change subsequent to the date of the report may affect the recommendations. Unless your consultant indicates otherwise, your report should not be used: (1) when the nature of the proposed project is changed (for example, if an office building will be erected instead of a parking garage, or if a refrigerated warehouse will be built instead of an unrefrigerated one, or chemicals are discovered on or near the site); (2) when the size, elevation, or configuration of the proposed project is altered; (3) when the location or orientation of the proposed project is modified; (4) when there is a change of ownership; or (5) for application to an adjacent site. Consultants cannot accept responsibility for problems that may occur if they are not consulted after factors which were considered in the development of the report have changed.

SUBSURFACE CONDITIONS CAN CHANGE.

Subsurface conditions may be affected as a result of natural processes or human activity. Because a geotechnical/environmental report is based on conditions that existed at the time of subsurface exploration, construction decisions should not be based on a report whose adequacy may have been affected by time. Ask the consultant to advise if additional tests are desirable before construction starts; for example, groundwater conditions commonly vary seasonally.

Construction operations at or adjacent to the site and natural events such as floods, earthquakes, or groundwater fluctuations may also affect subsurface conditions and, thus, the continuing adequacy of a geotechnical/environmental report. The consultant should be kept apprised of any such events, and should be consulted to determine if additional tests are necessary.

MOST RECOMMENDATIONS ARE PROFESSIONAL JUDGMENTS.

Site exploration and testing identifies actual surface and subsurface conditions only at those points where samples are taken. The data were extrapolated by your consultant, who then applied judgment to render an opinion about overall subsurface conditions. The actual interface between materials may be far more gradual or abrupt than your report indicates. Actual conditions in areas not sampled may differ from those predicted in your report. While nothing can be done to prevent such situations, you and your consultant can work together to help reduce their impacts. Retaining your consultant to observe subsurface construction operations can be particularly beneficial in this respect.

Page 1 of 2 1/2018

A REPORT'S CONCLUSIONS ARE PRELIMINARY.

The conclusions contained in your consultant's report are preliminary because they must be based on the assumption that conditions revealed through selective exploratory sampling are indicative of actual conditions throughout a site. Actual subsurface conditions can be discerned only during earthwork; therefore, you should retain your consultant to observe actual conditions and to provide conclusions. Only the consultant who prepared the report is fully familiar with the background information needed to determine whether or not the report's recommendations based on those conclusions are valid and whether or not the contractor is abiding by applicable recommendations. The consultant who developed your report cannot assume responsibility or liability for the adequacy of the report's recommendations if another party is retained to observe construction.

THE CONSULTANT'S REPORT IS SUBJECT TO MISINTERPRETATION.

Costly problems can occur when other design professionals develop their plans based on misinterpretation of a geotechnical/environmental report. To help avoid these problems, the consultant should be retained to work with other project design professionals to explain relevant geotechnical, geological, hydrogeological, and environmental findings, and to review the adequacy of their plans and specifications relative to these issues.

BORING LOGS AND/OR MONITORING WELL DATA SHOULD NOT BE SEPARATED FROM THE REPORT.

Final boring logs developed by the consultant are based upon interpretation of field logs (assembled by site personnel), field test results, and laboratory and/or office evaluation of field samples and data. Only final boring logs and data are customarily included in geotechnical/environmental reports. These final logs should not, under any circumstances, be redrawn for inclusion in architectural or other design drawings, because drafters may commit errors or omissions in the transfer process.

To reduce the likelihood of boring log or monitoring well misinterpretation, contractors should be given ready access to the complete geotechnical engineering/environmental report prepared or authorized for their use. If access is provided only to the report prepared for you, you should advise contractors of the report's limitations, assuming that a contractor was not one of the specific persons for whom the report was prepared, and that developing construction cost estimates was not one of the specific purposes for which it was prepared. While a contractor may gain important knowledge from a report prepared for another party, the contractor should discuss the report with your consultant and perform the additional or alternative work believed necessary to obtain the data specifically appropriate for construction cost estimating purposes. Some clients hold the mistaken impression that simply disclaiming responsibility for the accuracy of subsurface information always insulates them from attendant liability. Providing the best available information to contractors helps prevent costly construction problems and the adversarial attitudes that aggravate them to a disproportionate scale.

READ RESPONSIBILITY CLAUSES CLOSELY.

Because geotechnical/environmental engineering is based extensively on judgment and opinion, it is far less exact than other design disciplines. This situation has resulted in wholly unwarranted claims being lodged against consultants. To help prevent this problem, consultants have developed a number of clauses for use in their contracts, reports, and other documents. These responsibility clauses are not exculpatory clauses designed to transfer the consultant's liabilities to other parties; rather, they are definitive clauses that identify where the consultant's responsibilities begin and end. Their use helps all parties involved recognize their individual responsibilities and take appropriate action. Some of these definitive clauses are likely to appear in your report, and you are encouraged to read them closely. Your consultant will be pleased to give full and frank answers to your questions.

The preceding paragraphs are based on information provided by the ASFE/Association of Engineering Firms Practicing in the Geosciences, Silver Spring, Maryland

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