

TRANSMITTAL

Project No.: 130046

May 20, 2022

Attn:	Thomas Middleton State Department of	, Washington of Ecology	Re: O Y	lympic Water and Sewer, Inc. ear 3 (2022) Groundwater Results
	Sophia Petro, Wasl Department of Hea	nington State lth		
	David Wayne John County Departmen Community Develo	son, Jefferson t of opment		
We are	e sending the followin	g via:		
🗆 Reg	gular Mail	🛛 E-Mail		□ Hand Deliver
	ernight Delivery	□ Courier		Client Pickup
Qty	Description			
1	Figure 1 – Site Plan			
1	Table 1 – Groundwa	ater Analytical Re	esults	
1	Attachment 1 – Lab	oratory Analytica	al Report	
Remar	ks: The Year 3 (20 and Well #18 a detected above cleanup levels detected above The locations of	22) groundwater re tabulated in Ta the laboratory de in the sample coll the laboratory de of the wells are sh	monitoring able 1. Gas etection lim lected from etection lim own on Fi	g results for water supply wells Well #2 oline range-TPH and toluene were hits but below the MTCA Method A a Well #18. Constituents were not hits in the sample collected from Well #2. gure 1.
cc:	Sarah Steffan, Raydi	ent	Sent by:	Eric Maise, PE
	Susan Porto, Jefferso Department of Public	on County c Health		Project Engineer emaise@aspectconsulting.com
	Emma Erickson, Jeff Department of Public	erson County c Health		
	Michael Dawson, Jef Department of Public	ferson County Health		

V:\130046 OPG Port Ludlow Property\Deliverables\Data Transmittals\Year 3 Transmittal\Year 3 (2022) Data Transmittal.docx

Table 1. Groundwater Analytical Results

Project No. 130046, Port Ludlow, Washington

	Well #2	Well #18							
	5/9/2022	5/9/2022							
	Well 2-220509	Well 18-220509							
	MTCA Method A								
Analyte	Fraction	Unit	Cleanup Level						
TPHs									
Gasoline Range Organics	Т	ug/L	800 1000	< 100 U	120				
BTEX									
Benzene	Т	ug/L	5	< 1 U	< 1 U				
Toluene	Т	ug/L	1000	< 1 U	38				
Ethylbenzene	Т	ug/L	700	< 1 U	< 1 U				
Total Xylenes	Т	ug/L	1000	< 3 U	< 3 U				

Notes:

Bold - detected

Blue Shaded - Detected result exceeded screening level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

D - Dissolved Fraction (filtered) sample result

T - Total Fraction (unfiltered) sample result

Gasoline Range Hydrocarbons are screened against a tighter value when benzene is present in the sample.

"--" - indicates results not available



ATTACHMENT 1

Laboratory Analytical Report

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

May 17, 2022

Eric Maise, Project Manager Aspect Consulting, LLC 710 2nd Ave S, Suite 550 Seattle, WA 98104

Dear Mr Maise:

Included are the results from the testing of material submitted on May 9, 2022 from the OWSI 130046, F&BI 205173 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Cale

Michael Erdahl Project Manager

Enclosures c: Aspect Data ASP0517R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 9, 2022 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC OWSI 130046, F&BI 205173 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Aspect Consulting, LLC
205173 -01	Well 18-220509
205173 -02	Well 2-220509

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/17/22 Date Received: 05/09/22 Project: OWSI 130046, F&BI 205173 Date Extracted: 05/12/22 Date Analyzed: 05/12/22

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (<u>% Recovery</u>) (Limit 52-124)
Well 18-220509 205173-01	<1	38	<1	<3	120	75
Well 2-220509 205173-02	<1	<1	<1	<3	<100	71
Method Blank 02-1111 MB	<1	<1	<1	<3	<100	72

Results Reported as ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Date of Report: 05/17/22 Date Received: 05/09/22 Project: OWSI 130046, F&BI 205173

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 205173-01 (Duplicate)

	Reporting	Sample	Duplicate	RPD
Analyte	Units	Result	Result	(Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	38	33	14
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	120	110	8

Laboratory Code: Laboratory Control Sample

		Percent							
	Reporting	Spike	Recovery	Acceptance					
Analyte	Units	Level	LCS	Criteria					
Benzene	ug/L (ppb)	50	109	65-118					
Toluene	ug/L (ppb)	50	109	72 - 122					
Ethylbenzene	ug/L (ppb)	50	115	73 - 126					
Xylenes	ug/L (ppb)	150	114	74 - 118					
Gasoline	ug/L (ppb)	1,000	111	69 - 134					

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

 ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

 ${\rm J}$ - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

			P	 								· .				
Rece	Rei	Friedman & Bruya, Inc. Relii Ph. (206) 285-8282						well \$2-220509	we11+18-220509	Sample ID		Phone Sog Hall 745 Smai	City, State, ZIP	Company Thoped (Address 710 Lag) A	Report To <u>Evic Mai</u>	1-1-202
sived by:	nquished by:	nquished by: /						026	OTAC S	Lab ID		1 emaise	turit 9	in the solution	SC.	Ŵ
		ATURE						ŧ	19/27	Date Sampled			2107	C		
		K						1507	F	Time Sampled	-	Project s	REMAR	- - - - - - - - - - - - - - - - - - -	SAMPL	SAMPLE
	J	Che						e	٤	Sample Type		pecific RLs	KS	9046	ERS (signa	CHAIN
	SPA	PRINT			41			K	M	Jars		? - Yes			füre)	OF CI
	L)	NAME		 				\prec°	\mathbf{X}	NWTPH-Dx NWTPH-Gx		/ No				USTO
	R							\times	\times	BTEX EPA 8021 NWTPH-HCID						DY
	<u> 1</u>				-		 		· · · · · ·	VOCs EPA 8260	ANAL		INVOI		p 👔	0
										PAHs EPA 8270 PCBs EPA 8082	VSES F		CE TO	4	*	5-09
	the second	OMP/					 				EQUE					1-22
San		1 ANY									STED			R C C		
ples re												ther ault: I	SAM	USH h char	Page	
torived.	519	DAT								· · · · ·		Jispose	IPLE D	ges aut	NAROU	•
₩ 	22	C 15				-				Notes		after S	ISPOS/	norized		<
'0 0 	89 S	TIME								.		30 days	E	by:	MB -	X
	1			 			 - .				المستنط	. L	<u>l</u>		'	