King County

Industrial Waste Quarterly Self-Monitoring Report

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

Company Name: **Bothell, City of -Riverside Groundwater Remediation Site**

This form is available at www.kingcounty.gov/industrialwaste.

Please specify year: **2025** **QUARTER 1** **Sample Site No.:** **IW1175A** **Permit/DA No.:** **4268-03**

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	1,2-Dichloro-ethylene (tDCE; total cis- and trans) (µg/L)	Tetrachloro-ethylene (PCE) (µg/L)	Trichlooro-ethylene (TCE) (µg/L)	Vinyl Chloride (µg/L)	1,1-Dichloro-ethane (µg/L)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
January										
									Total volume discharged for January	24,604
February										
									Total volume discharged for February	20,450
March										
	3/10/25	G	6.3	20	12	0.43	<0.20	<0.19	860	
									Total volume discharged for March	32,147

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested

April 8, 2025
Date

Ryan Roberts
Signature of Principal Executive or Authorized Agent

Due Date: **First Quarter Report is due by April 15 of each year**

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 18, 2025

Kristin Anderson
Floyd & Snider
601 Union Street, Suite 600
Seattle, WA 98101

Re: Analytical Data for Project COB-Riverside Task 4
Laboratory Reference No. 2503-110

Dear Kristin:

Enclosed are the analytical results and associated quality control data for samples submitted on March 10, 2025.

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

Date of Report: March 18, 2025
Samples Submitted: March 10, 2025
Laboratory Reference: 2503-110
Project: COB-Riverside Task 4

Case Narrative

Samples were collected on March 10, 2025 and received by the laboratory on March 10, 2025. 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. However the soil results for the QA/QC samples are reported on a wet-weight basis.

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.

Date of Report: March 18, 2025
Samples Submitted: March 10, 2025
Laboratory Reference: 2503-110
Project: COB-Riverside Task 4

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Outlet1-031025**					
Laboratory ID:	03-110-01					
Vinyl Chloride	0.43	0.20	EPA 8260D	3-11-25	3-11-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-11-25	3-11-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-11-25	3-11-25	
(cis) 1,2-Dichloroethene	6.3	0.20	EPA 8260D	3-11-25	3-11-25	
Trichloroethene	12	0.20	EPA 8260D	3-11-25	3-11-25	
Tetrachloroethene	20	0.20	EPA 8260D	3-11-25	3-11-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*89*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**TRIPBLANK-031025**					
Laboratory ID:	03-110-02					
Vinyl Chloride	ND	0.20	EPA 8260D	3-11-25	3-11-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-11-25	3-11-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-11-25	3-11-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-11-25	3-11-25	
Trichloroethene	ND	0.20	EPA 8260D	3-11-25	3-11-25	
Tetrachloroethene	ND	0.20	EPA 8260D	3-11-25	3-11-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				

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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311W1					
Vinyl Chloride	ND	0.20	EPA 8260D	3-11-25	3-11-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-11-25	3-11-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-11-25	3-11-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-11-25	3-11-25	
Trichloroethene	ND	0.20	EPA 8260D	3-11-25	3-11-25	
Tetrachloroethene	ND	0.20	EPA 8260D	3-11-25	3-11-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0311W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**9.94**	**8.64**	10.0	10.0	99	86	67-130	14	15	
1,1-Dichloroethene	**9.81**	**8.87**	10.0	10.0	98	89	74-125	10	15	
(trans) 1,2-Dichloroethene	**9.91**	**8.93**	10.0	10.0	99	89	77-125	10	15	
(cis) 1,2-Dichloroethene	**9.92**	**8.91**	10.0	10.0	99	89	78-130	11	15	
Trichloroethene	**11.1**	**9.84**	10.0	10.0	111	98	80-126	12	15	
Tetrachloroethene	**11.2**	**10.1**	10.0	10.0	112	101	80-125	10	15	
Surrogate:										
Dibromofluoromethane					*90*	*90*	*68-133*			
Toluene-d8					*99*	*98*	*79-123*			
4-Bromofluorobenzene					*102*	*101*	*78-117*			

Date of Report: March 18, 2025
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SETTLEABLE SOLIDS
SM 2540F

Matrix: Water
Units: mL/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Outlet1-031025**					
Laboratory ID:	03-110-01					
Settleable Solids	**ND**	0.19	SM 2540F	3-10-25	3-10-25	

OnSite Environmental Inc.

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.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, 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.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: FIS
Project Number:
Project Name: COB - Riverside Task 4
Project Manager: Kristen Anderson
Sampled by: Danielle Gallaher

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 03-110

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260D *	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Settleable Solids				% Moisture
1	Outlet 1-031025	3/10/25	1145	W	4					X													X				
2	TRIPBLANK-031025	3/10/25	1200	W	2					X																	

	Signature	Company	Date	Time
Relinquished	[signature]	Floyd | Snider	3/10/25	13:30
Received	[signature]	QSE	3/10/25	1230
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
*Limited ~~set~~
PCE, TCE, cis-1,2 DCE
trans-1,2 DCE
1,1 DCE
VCE

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

Sample/Cooler Receipt and Acceptance Checklist

Client: FLS

Client Project Name/Number: COB - Riverside Task 4

OnSite Project Number: 03-110

Initiated by: MV

Date Initiated: 3/10/25

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	(No)	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	(N/A)	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	(N/A)	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	(Yes)	No	N/A	1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	(Yes)	No	N/A	Temperature:	6
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	(N/A)			
1.7 How were the samples delivered?	(Client)	Courier	UPS/FedEx	OSE Pickup	Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	(Yes)	No		1 2 3 4
2.2 Was the COC legible and written in permanent ink?	(Yes)	No		1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	(Yes)	No		1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	(Yes)	No		1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	(Yes)	No		1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	(No)		1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	(No)		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	(No)		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	(Yes)	No		1 2 3 4
3.4 Have the samples been correctly preserved?	(Yes)	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	(Yes)	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	(Yes)	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	(No)		1 2 3 4
3.8 Was method 5035A used?	Yes	No	(N/A)	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		(N/A)	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed