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Transmitted via Electronic Mail

July 15, 2024

Ms. Tena Seeds Washington State Department of Ecology Toxics Cleanup Program 15700 Dayton Ave N., Shoreline, WA 98133

RE: Quarterly Progress Report: April 1 through June 30, 2024 Time Oil Bulk Terminal Site, Cleanup Site ID #14604 Prospective Purchaser Consent Decree No. 20-2-15215-3 SEA

Dear Ms. Seeds:

Pioneer Engineering & Environmental Services, LLC on behalf of TOC Seattle Terminal 1, LLC submits the attached Quarterly Progress Report for the Time Oil Bulk Terminal Site per Section XII of the Prospective Purchaser Consent Decree between the Washington State Department of Ecology and TOC Seattle Terminal 1, LLC. The quarterly progress report consists of a brief narrative summary of notable activities that occurred during the reporting period and that are anticipated for the upcoming reporting period.

If you have any questions about this report, please contact me at 773-435-3725.

Sincerely,

Kin Heupel

Kim Hempel Project Coordinator Pioneer Engineering & Environmental Services, LLC

Distribution List: Doug Ciserella and Mike Ciserella, TOC Seattle Terminal 1, LLC Bill Joyce, Hillis Clark Martin & Peterson P.S. Jamie Stevens, CRETE Consulting Kristin Anderson, Floyd|Snider

#### TIME OIL BULK TERMINAL SITE PROSPECTIVE PURCHASER CONSENT DECREE NO. 20-2-15215-3 SEA QUARTERLY PROGRESS REPORT: APRIL 1 THROUGH JUNE 30, 2024

This report has been prepared in accordance with the requirements of the Time Oil Bulk Terminal Site Prospective Purchaser Consent Decree (PPCD) between the Washington State Department of Ecology (Ecology) and TOC Seattle Terminal 1, LLC. This progress report provides details on the following: 1) all on site activities; 2) any deviations from required tasks; 3) anticipated problems in meeting schedule or objectives and associated solutions 4) sampling, testing, or other data received; 5) work planned for the upcoming 3-month period; and, 6) deliverables planned for the upcoming 3-month period.

#### Summary of On-Site Activities Performed During the Reporting Period (PPCD Section XII.A)

- A visual check of the site was conducted on May 15, 2024. Construction associated with redevelopment continues on Parcel F, and all interim surfaces on remaining portions of the Site remain in good condition and no other concerns were noted during the site visits.
- Floyd|Snider (F|S) personnel collected the sixth round of post-remediation groundwater samples on May 15, 2024 (Q2 2024) per the approved Groundwater Monitoring Plan (GMP) and additional Ecology email concurrence dated March 27, 2024. Monitoring included continued groundwater collection at contingency well 01MW107 and additional sampling at 01MW15, 01MW58R and 01MW80 based on elevated trichloroethene (TCE) in upgradient portions of the ASKO property and on the BNSF Property.
- Water samples were collected from the ASKO Property permeable reactive barrier vault and gravity well on May 15, 2024 for operation and maintenance (O&M) assessment purposes. The O&M data were collected to coincide with remedial investigation groundwater sampling being performed by BNSF's consultant on the upgradient BNSF Property. O&M assessment will continue in Q3 2024 per Ecology's request.
- Survey of new wells 01MW53R, 01MW58R, and top of casing for the gravity well was completed by Survey & Mapping, LLC (SAM) on May 15, 2024.

#### Deliverables

Deliverables during this reporting period included the following:

- Groundwater sampling results for the first quarter of 2024 and associated contour maps were submitted to Ecology via email on April 8, 2024.
- The Quarterly Progress Report for the first quarter of 2024 was submitted to Ecology on April 15, 2024.
- Updated financial assurance costs were provided to Ecology via email on April 19, 2024 and a revised version with the inflation factor was provided on April 29, 2024; these costs were accepted by Ecology in an email dated April 30, 2024.
- Per Ecology's request, groundwater and O&M sampling results were submitted to BNSF via email on June 24, 2024 to facilitate evaluation of TCE and cVOCs in the vicinity of the BNSF/ASKO property boundary.
- Groundwater sampling results for the second quarter of 2024 and associated contour maps were submitted to Ecology via email on June 25, 2024.

#### Deviations from Required Tasks (PPCD Section XII.B)

• None.

# Anticipated Problems in Meeting Schedule or Objectives and Associated Solutions (PPCD Section XII.C and XII.D)

- TCE and associated cVOC contaminant concentrations originating from the upgradient BNSF property were
  recently identified in upgradient groundwater as part of the BNSF remedial investigation at levels
  considerably higher than those observed in the 2019 remedial investigation for the Time Oil Bulk Terminal
  Site. The elevated TCE and cVOC concentrations in groundwater on BNSF are impacting the shallow water
  bearing zone (WBZ) in groundwater wells on the downgradient ASKO parcel owned by TOC Seattle Terminal
  1, LLC. These impacts, if they continue, represent an on-going source to groundwater and may affect
  achievement of the cleanup levels (CULs) at the conditional point of compliance (CPOC) within the predicted
  15-year restoration timeframe.
- Aside from the item above, there are no other anticipated problems in meeting the schedule of deliverables specified in Exhibit D of the PPCD. The schedule of deliverables and activities specified in Table 8.1 of the Cleanup Action Plan (Exhibit C of the PPCD) are currently on track or ahead of schedule.

#### Raw Data Received (PPCD Section XII.E)

- Groundwater sampling results for the 2<sup>nd</sup> Quarter 2024 were received from Friedman & Bruya, Inc. on May 23, 2024. Results were received in one sample delivery group (F&BI 405273);
- Samples collected for O&M purposes from the ASKO property permeable reactive barrier vault and gravity well were received on May 24, 2024. Results were received in one sample delivery group (F&BI 405272); and
- Copies of the laboratory reports discussed herein are provided as an attachment to this Progress Report.

#### Work Planned During the Upcoming Reporting Period (PPCD Section XII.F)

The following work is planned for the 3<sup>rd</sup> Quarter 2024:

- Seventh round of groundwater sampling and site-wide synoptic gauging in coordination with BNSF is scheduled for August 7 and 8, 2024;
- Review of BNSF 2<sup>nd</sup> Quarter 2024 water levels and groundwater results;
- Construction on Lot F continues; and
- Site checks will be conducted periodically on all interim surfaces outside of Lot F to ensure that conditions remain stable during the interim period prior to site development.

#### Deliverables Planned During the Upcoming Reporting Period (PPCD Section XII.G)

The following deliverables are anticipated to be completed during the next quarterly reporting period of July through September 2024:

- Submittal of the Quarterly Progress Report for the 2<sup>nd</sup> Quarter 2024; and
- Transmittal of a summary of 3<sup>rd</sup> Quarter 2024 groundwater sampling results and associated groundwater contour maps to Ecology via email.

#### Other Pertinent Information, Including Changes in Key Personnel

• None.

#### Attachments

• Attachment 1 – Laboratory Analytical Reports

#### END QUARTERLY PROGRESS REPORT

# ATTACHMENT 1

Laboratory Analytical Reports

#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. May 23, 2024 5500 4th Ave South Seattle, WA 98108-2419 (206) 285-8282 office@friedmanandbruya.com www.friedmanandbruya.com

Kristin Anderson, Project Manager Floyd-Snider Two Union Square 601 Union St, Suite 600 Seattle, WA 98101

Dear Ms Anderson:

Included are the results from the testing of material submitted on May 15, 2024 from the Cantera-TOC/Time Oil, F&BI 405273 project. There are 19 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 should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Floyd Snider Lab Data, Pamela Osterhout FDS0523R.DOC

#### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE

This case narrative encompasses samples received on May 15, 2024 by Friedman & Bruya, Inc. from the Floyd-Snider Cantera-TOC/Time Oil, F&BI 405273 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Floyd-Snider</u>
405273 -01	01MW19R-051524
405273 -02	01MW84-051524
405273 -03	01MW15-051524
405273 -04	01MW46-051524
405273 -05	01MW53R-051524
405273 -06	01MW58R-051524
405273 -07	01MW80-051524
405273 -08	01MW85-051524
405273 -09	01MW107-051524
405273 -10	02MW04R-051524
405273 -11	01MW19R-051524-D

All quality control requirements were acceptable.

#### ENVIRONMENTAL CHEMISTS

Date of Report: 05/23/24 Date Received: 05/15/24 Project: Cantera-TOC/Time Oil, F&BI 405273 Date Extracted: 05/17/24 Date Analyzed: 05/17/24

# RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate ( <u>% Recovery)</u> (Limit 50-150)
01MW19R-051524 405273-01	750	120
$\underset{405273-02}{01MW84-051524}$	3,900	102
02MW04R-051524 <sup>405273-10</sup>	<100	104
01MW19R-051524-D 405273-11 1/10	1,000	102
Method Blank 04-895 MB	<100	82

#### ENVIRONMENTAL CHEMISTS

Date of Report: 05/23/24 Date Received: 05/15/24 Project: Cantera-TOC/Time Oil, F&BI 405273 Date Extracted: 05/20/24 Date Analyzed: 05/20/24

#### RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	Diesel Range (C10-C25)	Motor Oil Range (C25-C36)	Surrogate <u>(% Recovery)</u> (Limit 50-150)
$01\mathrm{MW}19\mathrm{R}\text{-}051524_{405273\text{-}01}$	680 x	<250	86
$\underset{\scriptstyle{405273\cdot02}}{01MW84\cdot051524}$	1,400 x	<250	89
02MW04R-051524 405273-10	52 x	<250	83
$\underset{405273\cdot11}{01MW19R-051524-D}$	720 x	<250	86
Method Blank <sup>04-1181 MB</sup>	<50	<250	81

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	01MW19R- 05/15/24 05/21/24 05/21/24 Water ug/L (ppb)	051524	Client: Project: Lab ID: Data File: Instrument: Operator:	Floyd-Snider Cantera-TOC/Time Oil 405273-01 052116.D GCMS11 IJL
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	100	78	126
Toluene-d8		106	84	115
4-Bromofluorobenz	ene	93	72	130
		Concentration		
Compounds:		ug/L (ppb)		
Benzene		2.1		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	01MW84-04 05/15/24 05/21/24 05/21/24 Water ug/L (ppb)	51524	Client: Project: Lab ID: Data File: Instrument: Operator:	Floyd-Snider Cantera-TOC/Time Oil 405273-02 052113.D GCMS11 IJL
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	92	78	126
Toluene-d8		105	84	115
4-Bromofluorobenz	ene	96	72	130
		Concentration		
Compounds:		ug/L (ppb)		
Benzene		< 0.35		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	01MW15-04 05/15/24 05/21/24 05/21/24 Water ug/L (ppb)	51524	Client: Project: Lab ID: Data File: Instrument: Operator:	Floyd-Snider Cantera-TOC/Time Oil 405273-03 052124.D GCMS11 IJL
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 98 106 96	Lower Limit: 78 84 72	Upper Limit: 126 115 130
Compounds: Vinyl chloride cis-1,2-Dichloroeth Trichloroethene	ene	Concentration ug/L (ppb) 58 18 2.7		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	01MW46-04 05/15/24 05/21/24 05/21/24 Water ug/L (ppb)	51524	Client: Project: Lab ID: Data File: Instrument: Operator:	Floyd-Snider Cantera-TOC/Time Oil 405273-04 1/10 052123.D GCMS11 IJL
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	e-d4	102	78	126
Toluene-d8		102	84	115
4-Bromofluorobenz	ene	95	72	130
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride		69		
cis-1,2-Dichloroeth	ene	490		
Benzene		2.8 j		
Trichloroethene		220		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	01MW53R- 05/15/24 05/21/24 05/21/24 Water ug/L (ppb)	051524	Client: Project: Lab ID: Data File: Instrument: Operator:	Floyd-Snider Cantera-TOC/Time Oil 405273-05 052118.D GCMS11 IJL
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 101 98 88	Lower Limit: 78 84 72	Upper Limit: 126 115 130
Compounds: Vinyl chloride cis-1,2-Dichloroeth Trichloroethene	ene	Concentration ug/L (ppb) 0.33 1.6 12		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	01MW58R- 05/15/24 05/21/24 05/21/24 Water ug/L (ppb)	051524	Client: Project: Lab ID: Data File: Instrument: Operator:	Floyd-Snider Cantera-TOC/Time Oil 405273-06 1/10 052120.D GCMS11 IJL
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	101	78	126
Toluene-d8		104	84	115
4-Bromofluorobenz	ene	94	72	130
		Concentration		
Compounds:		ug/L (ppb)		
Vinyl chloride		33		
cis-1,2-Dichloroeth	ene	490		
Trichloroethene		38		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	01MW80-04 05/15/24 05/21/24 05/21/24 Water ug/L (ppb)	51524	Client: Project: Lab ID: Data File: Instrument: Operator:	Floyd-Snider Cantera-TOC/Time Oil 405273-07 1/10 052122.D GCMS11 IJL
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 105 98 96	Lower Limit: 78 84 72	Upper Limit: 126 115 130
Compounds: Vinyl chloride cis-1,2-Dichloroeth Trichloroethene	ene	Concentration ug/L (ppb) 51 350 190		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	01MW85-03 05/15/24 05/21/24 05/21/24 Water ug/L (ppb)	51524	Client: Project: Lab ID: Data File: Instrument: Operator:	Floyd-Snider Cantera-TOC/Time Oil 405273-08 1/10 052119.D GCMS11 IJL
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 93 96 90	Lower Limit: 78 84 72	Upper Limit: 126 115 130
Compounds: Vinyl chloride cis-1,2-Dichloroeth Trichloroethene	ene	Concentration ug/L (ppb) 26 970 6.2		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	01MW107- 05/15/24 05/21/24 05/21/24 Water ug/L (ppb)	051524	Client: Project: Lab ID: Data File: Instrument: Operator:	Floyd-Snider Cantera-TOC/Time Oil 405273-09 052114.D GCMS11 IJL
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 98 98 92	Lower Limit: 78 84 72	Upper Limit: 126 115 130
Compounds: Vinyl chloride cis-1,2-Dichloroeth Trichloroethene	ene	Concentration ug/L (ppb) <0.02 <1 <0.5		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	02MW04R- 05/15/24 05/21/24 05/21/24 Water ug/L (ppb)	051524	Client: Project: Lab ID: Data File: Instrument: Operator:	Floyd-Snider Cantera-TOC/Time Oil 405273-10 052115.D GCMS11 IJL
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	111	78	126
Toluene-d8		101	84	115
4-Bromofluorobenz	ene	90	72	130
		Concentration		
Compounds:		ug/L (ppb)		
Benzene		< 0.35		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	01MW19R- 05/15/24 05/21/24 05/21/24 Water ug/L (ppb)	051524-D	Client: Project: Lab ID: Data File: Instrument: Operator:	Floyd-Snider Cantera-TOC/Time Oil 405273-11 052117.D GCMS11 IJL
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	97	78	126
Toluene-d8		100	84	115
4-Bromofluorobenz	ene	99	72	130
		Concentration		
Compounds:		ug/L (ppb)		
Benzene		2.2		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 05/21/24 05/21/24 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	Floyd-Snider Cantera-TOC/Time Oil 04-1104 mb 052108.D GCMS11 IJL
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 107 103 91	Lower Limit: 78 84 72	Upper Limit: 126 115 130
Compounds: Vinyl chloride cis-1,2-Dichloroeth Benzene Trichloroethene	ene	Concentration ug/L (ppb) <0.02 <1 <0.035 j <0.5		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 05/23/24 Date Received: 05/15/24 Project: Cantera-TOC/Time Oil, F&BI 405273

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 40	)5236-01 (Dupl	icate)			
	Reporting	Samp	le Dup	olicate	RPD
Analyte	Units	Resul	lt Re	esult	(Limit 20)
Gasoline	ug/L (ppb)	<100	) <	100	nm
Laboratory Code: La	aboratory Cont	rol Sampl	e		
			Percent		
	Reporting	Spike	Recovery	Acceptance	
Analyte	Units	Level	LCS	Criteria	_
Gasoline	ug/L (ppb)	1,000	91	70-130	_

#### ENVIRONMENTAL CHEMISTS

Date of Report: 05/23/24 Date Received: 05/15/24 Project: Cantera-TOC/Time Oil, F&BI 405273

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
<b>Diesel Extended</b>	ug/L (ppb)	2,500	88	88	65 - 151	0

#### ENVIRONMENTAL CHEMISTS

Date of Report: 05/23/24 Date Received: 05/15/24 Project: Cantera-TOC/Time Oil, F&BI 405273

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 405273-09 (Matrix Spike)

	- /			Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Vinyl chloride	ug/L (ppb)	10	< 0.02	92	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	96	10-211
Benzene	ug/L (ppb)	10	< 0.35	94	50 - 150
Trichloroethene	ug/L (ppb)	10	$<\!0.5$	96	35 - 149

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	Percent Recovery	Percent Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	ug/L (ppb)	10	89	88	64-142	1
cis-1,2-Dichloroethene	ug/L (ppb)	10	90	91	70 - 130	1
Benzene	ug/L (ppb)	10	88	88	70 - 130	0
Trichloroethene	ug/L (ppb)	10	91	94	70-130	3

#### 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, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. 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 standard reporting limit. 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.

 $k-\mbox{The calibration results}$  for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

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.

 $\rm pc$  - 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.

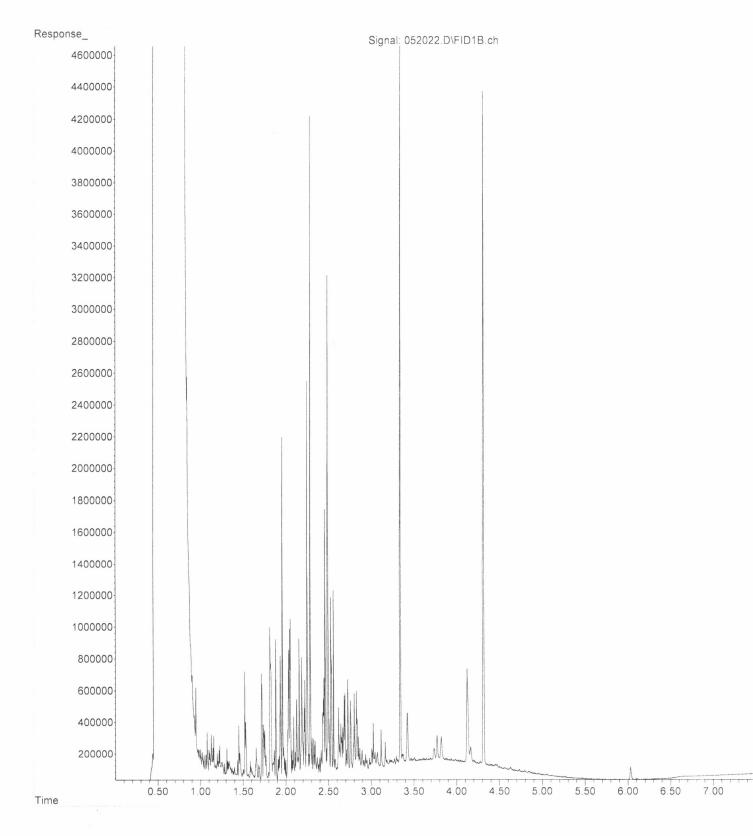
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			-	<u></u>				1	5	4	GW	12:03	5/15/24	01 A - G	61MW19R-051524
Notes	TCE, Cts-42- DCE, VC	Benzene 8260 TCE, CIS-42-	PCBs EPA 8082	PAHs EPA 8270	VOCs EPA 8260	NWTPH-HCID	BTEX EPA 8021	NWTPH-Gx	NWTPH-Dx	# of Jars	Sample ; Type	Time Sampled	Date Sampled	Lab ID	Sample ID
	TED	REQUESTED	REC	ANALYSES	VAL	A									
samples Dispose after 30 days	<ul> <li>Archive samples</li> <li>Other</li> <li>Default: Dispose</li> </ul>			SNECK	Pisneer	is n	-4	N. E.	-20	5 "	y 82 and life RI	CVOCS to CVOCS to CVSL-PCE Project spec		19101	City, State, ZIP Sattle, WA 18101 Phone 297 - 2078 Email
Kush charges authorized by:	Kush char		5	1 T T	VIOI			1	5	ITAL	CALLER INC I THE CIT	DEWIN	Ø	suit 600	+'
Standard turnaround RUSH	RUSH_			)#	PO #				>	Time	I NAME	PROJECT NAME			Company Floyd Snider
Page # of TURNAROUND TIME	Page # TURN				1	8	Z	St	R -	ure	SAMPLERS (signature)	-	a Osterhur	1+ Pamela	Report Tokrishin Andrewson +
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SA	MPLE COND	ITION UPON RE	CEIPT CH	ECKLIST	[ / 2	
project # 40527	3 CLIENT	FCS		INITIAL DATE:	5-15-2	φ
If custody seals are	present on co	oler, are they int	act?	□∕ NA	□ YES	□ NO
Cooler/Sample temp	perature			Ther	mometer ID: FM	<u>+</u> ℃ ike 96312917
Were samples receiv	ved on ice/col	d packs?			# YES	🗆 NO
How did samples ar	rive? he Counter	□ Picked up by F	`&BI	FedE	/UPS/GSC	)
Is there a Chain-of- *or other representative de			3		# YES	D NO
Number of days san	nples have bee	en sitting prior to	o receipt at	laborat	ory _Ø_	_ days
Are the samples cle	arly identified	$\mathbf{l}?$ (explain "no" answe	r below)		Ø YES	D NO
Were all sample con leaking etc.)? (explain			t broken,		∅ YES	o NO
Were appropriate sa	ample contain	ers used?	Ø YES	S O N	ο αι	Jnknown
If custody seals are	present on sa	mples, are they i	ntact?	ø NA	□ YES	🗆 NO
Are samples requiri	ing no headsp	ace, headspace f	ree?	🗆 NA	Ø YES	□ NO
Is the following info (explain "no" answer below	ormation prov v)	ided on the COC	, and does	it match	the samp	le label?
Sample ID's	🖉 Yes 🗆 No					
Date Sampled	🗹 Yes 🗆 No			[	] Not on C	OC/label
Time Sampled	🗹 Yes 🗆 No			[	] Not on C	OC/label
# of Containers	🛛 Yes 🗆 No			[	] Not on C	OC/label
Relinquished	🛛 Yes 🗆 No					
Requested analysis	🛛 Yes 🗆 On 🛛	Hold				
Other comments (us	se a separate pa	ge if needed)				
Air Samples: Were a	any additiona	l canisters/tubes	received?	₽ NA	□ YES	
Number of unused '	TO15 canister	s Num	ber of unus	ed TO17	tubes	
FRIEDMAN & BRUYA, INC./FO	ORMS/CHECKIN/SAM	PLECONDITION.doc			Rev.	05/01/24

File :P:\Proc\_GC14\05-20-24\052022.D
Operator : TL
Acquired : 20 May 2024 06:22 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 405273-01
Misc Info :
Vial Number: 16

ERR

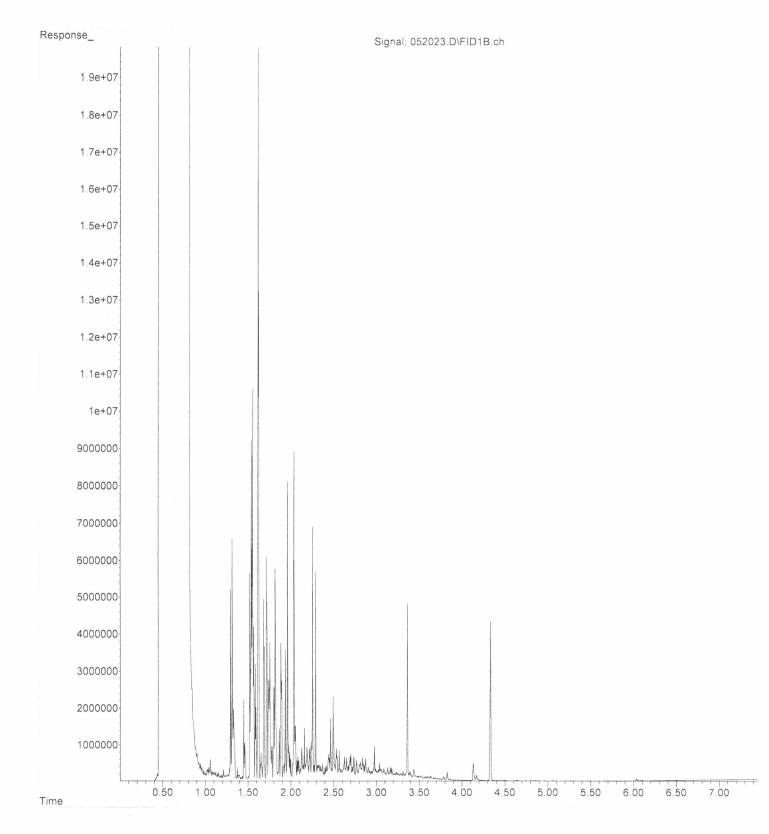
01MW19R



File :P:\Proc\_GC14\05-20-24\052023.D
Operator : TL
Acquired : 20 May 2024 06:34 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 405273-02
Misc Info :
Vial Number: 17

01MW84

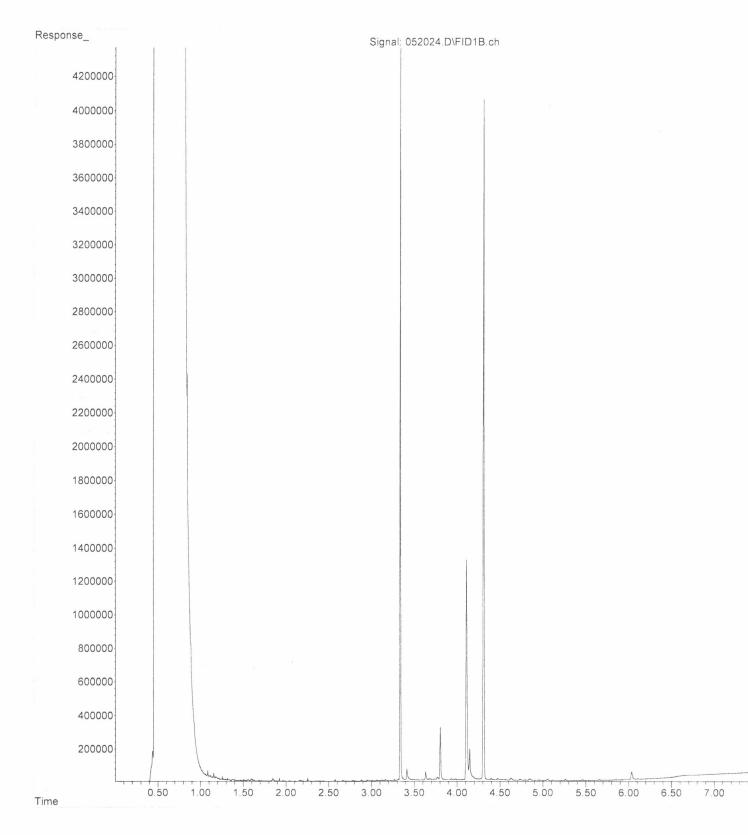
ERR



File :P:\Proc\_GC14\05-20-24\052024.D
Operator : TL
Acquired : 20 May 2024 06:46 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 405273-10
Misc Info :
Vial Number: 18

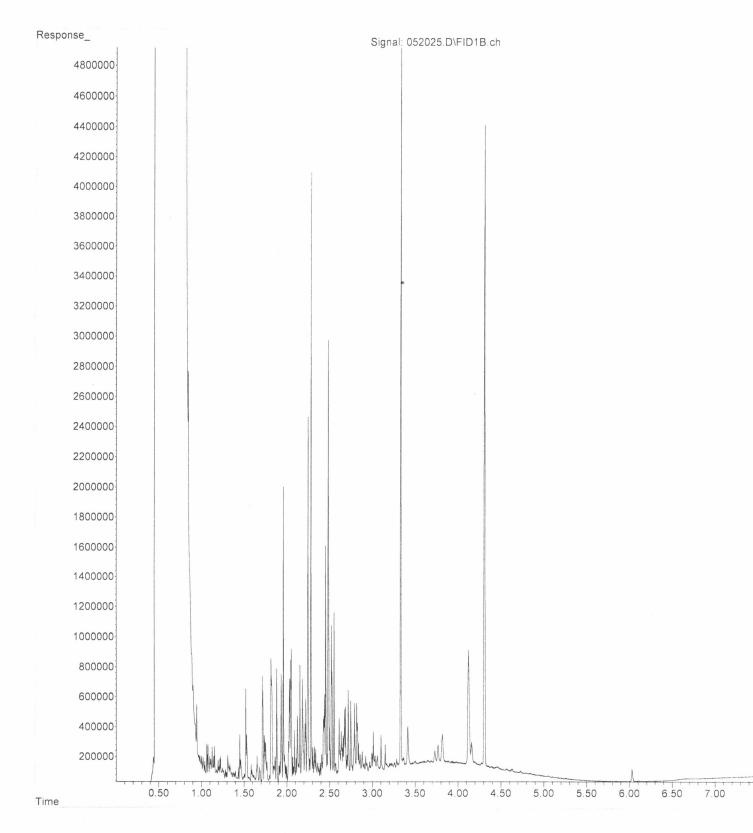
ERR

02MW04R



File :P:\Proc\_GC14\05-20-24\052025.D
Operator : TL
Acquired : 20 May 2024 06:58 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 405273-11
Misc Info :
Vial Number: 19

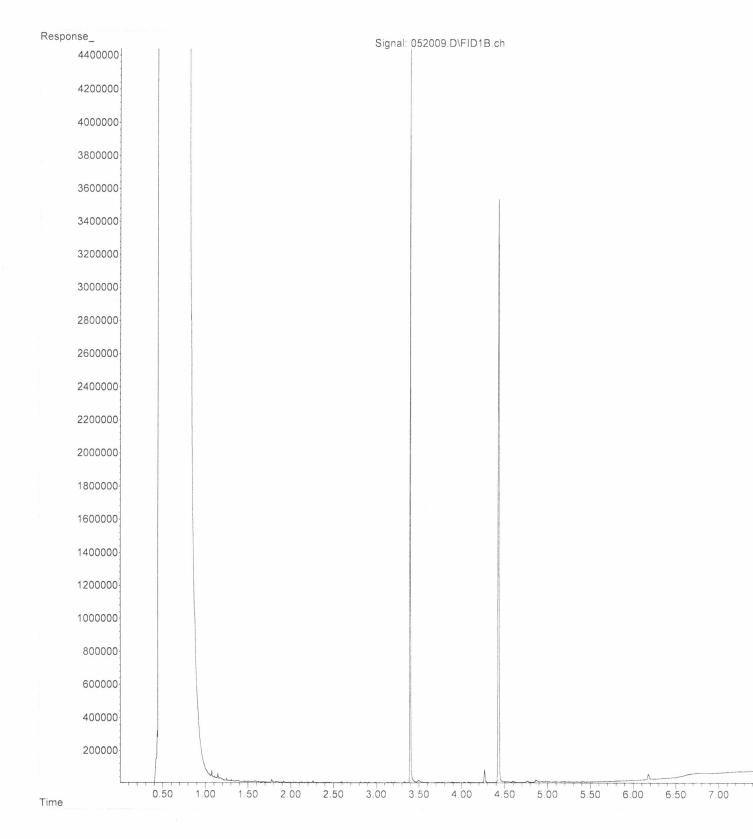
ERR



File :P:\Proc\_GC14\05-20-24\052009.D
Operator : TL
Acquired : 20 May 2024 03:48 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 04-1181 mb
Misc Info :
Vial Number: 7

#### Method Blank

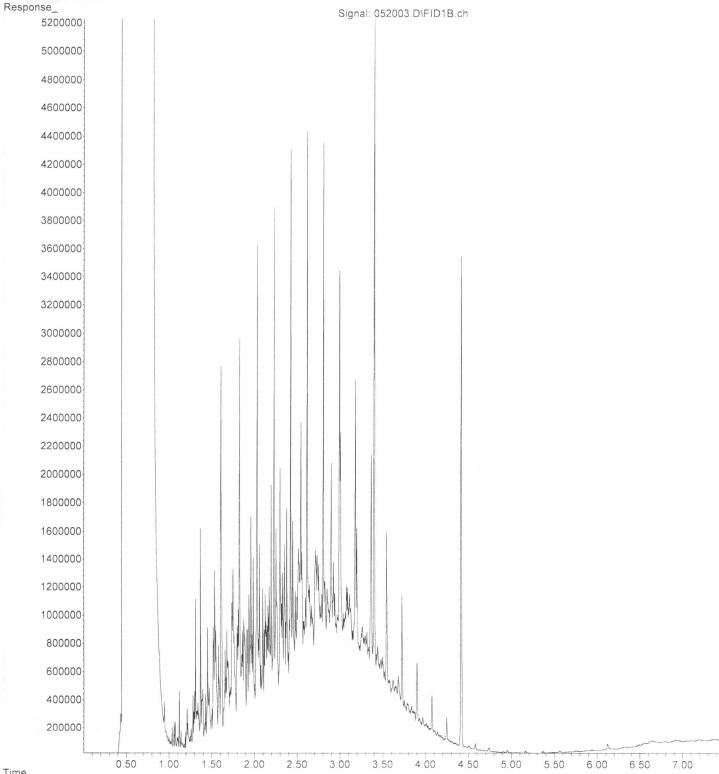
ERR



File :P:\Proc\_GC14\05-20-24\052003.D Operator : TL Acquired : 20 May 2024 08:37 am using AcqMethod DX.M Instrument : GC14 Sample Name: 500 Dx 71-40G Misc Info : Vial Number: 3

#### **Diesel Standard**

ERR



Time

#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. May 24, 2024 5500 4th Ave South Seattle, WA 98108-2419 (206) 285-8282 office@friedmanandbruya.com www.friedmanandbruya.com

Kristin Anderson, Project Manager Floyd-Snider Two Union Square 601 Union St, Suite 600 Seattle, WA 98101

Dear Ms Anderson:

Included are the results from the testing of material submitted on May 15, 2024 from the Cantera-TOC/Time Oil, F&BI 405272 project. There are 7 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 should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Floyd Snider Lab Data, Pamela Osterhout FDS0524R.DOC

#### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE

This case narrative encompasses samples received on May 15, 2024 by Friedman & Bruya, Inc. from the Floyd-Snider Cantera-TOC/Time Oil, F&BI 405272 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Floyd-Snider
405272 -01	GRAVITY-051524
405272 -02	CLEARVAULT-051524
405272 -03	INFVAULT-051524
405272 -04	Trip Blank

All quality control requirements were acceptable.

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	GRAVITY- 05/15/24 05/17/24 05/23/24 Water ug/L (ppb)	051524	Client: Project: Lab ID: Data File: Instrument: Operator:	Floyd-Snider Cantera-TOC/Time Oil 405272-01 1/10 052310.D GCMS13 IJL
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 94 93 100	Lower Limit: 71 68 62	Upper Limit: 132 139 136
Compounds: Vinyl chloride cis-1,2-Dichloroeth Trichloroethene	ene	Concentration ug/L (ppb) 260 610 700		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	CLEARVA 05/15/24 05/17/24 05/17/24 Water ug/L (ppb)	ULT-051524	Client: Project: Lab ID: Data File: Instrument: Operator:	Floyd-Snider Cantera-TOC/Time Oil 405272-02 051743.D GCMS11 IJL
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 100 99 92	Lower Limit: 78 84 72	Upper Limit: 126 115 130
Compounds: Vinyl chloride cis-1,2-Dichloroeth Trichloroethene	ene	Concentration ug/L (ppb) <0.02 <1 13		

# ENVIRONMENTAL CHEMISTS

Client Sample ID:INFVAULTDate Received:05/15/24Date Extracted:05/17/24Date Analyzed:05/17/24Matrix:WaterUnits:ug/L (ppb)		5-051524	Client: Project: Lab ID: Data File: Instrument: Operator:	Floyd-Snider Cantera-TOC/Time Oil 405272-03 051744.D GCMS11 IJL
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 105 101 92	Lower Limit: 78 84 72	Upper Limit: 126 115 130
Compounds: Vinyl chloride cis-1,2-Dichloroeth Trichloroethene	ene	Concentration ug/L (ppb) 0.16 4.2 25		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blan Not Applical 05/17/24 05/17/24 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	Floyd-Snider Cantera-TOC/Time Oil 04-1094 mb 051709.D GCMS11 IJL
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 115 99 93	Lower Limit: 78 84 72	Upper Limit: 126 115 130
Compounds: Vinyl chloride cis-1,2-Dichloroethe Trichloroethene	ene	Concentration ug/L (ppb) <0.02 <1 <0.5		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 05/24/24 Date Received: 05/15/24 Project: Cantera-TOC/Time Oil, F&BI 405272

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 405264-06 (Matrix Spike)

• · · · · · · · · · · · · · · · · · · ·	1 /			Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Vinyl chloride	ug/L (ppb)	10	< 0.02	88	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	96	10-211
Trichloroethene	ug/L (ppb)	10	0.55	95	35 - 149

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	ug/L (ppb)	10	82	87	64-142	6
cis-1,2-Dichloroethene	ug/L (ppb)	10	94	99	70-130	5
Trichloroethene	ug/L (ppb)	10	94	100	70-130	6

#### 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, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. 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 standard reporting limit. 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.

 $k-\mbox{The calibration results}$  for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

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.

 $\rm pc$  - 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.

SAMPLE CHAIN OF CUSTODY       SAMPLERS (signafule)       Date     Date     Time     Sample       Time     Time     Sample     TCE     NOTE       Date     Time     Sample     INVOICE     NOTE       Date     Time     Sample     INVOICE     NOTE       Time     Sample     Sample     INVOICE     NOTE       Sampled     Sample     Isi     Sample     Invoice       IS:SO     L     3     NWTPH-Dx     ANALYS       INVOICE     Vater     2     NWTPH-Gx     Invoice       INVOICE     Vater     2     NWTPH-Gx     Invoice       INVOICE     Vater     2     NWTPH-HCID     Invoice       INVOICE     Voice     Sample     Isingle     Invoice       INVOICE     Sample     Isingle     Isingle     Isingle       INVOICE     Isingle     Isingle     Isingle     Isingle       INVOICE     Isingle     Isingle     Isingle     Isingle <th>Rec</th> <th>Ph. (206) 285-8282</th> <th>i, Inc.</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Trip blank</th> <th>INFVAULT-051524 03</th> <th>CLEAR VALUE - 051524 02</th> <th>(FRAVITY-051524</th> <th>Sample ID</th> <th></th> <th>Phone 292-2070 Email_</th> <th>City, State, ZIP Seattly, WA 95101</th> <th>Address (00) Union St. Sinte 600</th> <th>Company Flourd Shidler</th> <th>Report To Krishin Andrew</th> <th>U 05272</th>	Rec	Ph. (206) 285-8282	i, Inc.							Trip blank	INFVAULT-051524 03	CLEAR VALUE - 051524 02	(FRAVITY-051524	Sample ID		Phone 292-2070 Email_	City, State, ZIP Seattly, WA 95101	Address (00) Union St. Sinte 600	Company Flourd Shidler	Report To Krishin Andrew	U 05272	
AMPLE CHAIN OF CUSTODY     05/15/24     VWX       PROJECT NAME     PO#     Provet     Provet       Cardga - TOC / Time     INVOICE TO     Sample     INVOICE TO       Childra - TOC / Time     INVOICE TO     Sample     Sample       Conder specific RLs?     Yes     No     Rush charges suthorized to the samples       Sampled     Time     Sample     # of     Durver       Time     Sample     # of     Durver     Pother       Sampled     Type     ass     NWTPH-Dx     Pother       Sampled     Voca     2     Pother     Pother       Sampled     Type     ass     NWTPH-HCID     Pother       Sampled     Voca     2     Pother     Pother       Sampled     # of     NWTPH-HCID     Pother     Pother       Sampled     # of     NWTPH-HCID     Pother     Pother       Sampled     Yes     3     NWTPH-HCID     Pother       Sampled     Yes     Yes     Addeed as     Pother       Sampled     Voca     Pathe Epa 82200     Pother     Pother       Sampled     Yes     Yes     Pother     Pother       Samples     Colder     Addeed as     Pother     Pother	eived by:	eived by:	nquished by:	SI						OY A-b		10	01 A-C	Lab ID			NA 9510	Sinte la		+ Panne		
AMPLE CHAIN OF CUSTODY     05/15/24     VWX       PROJECT NAME     PO#     Provet     Provet       Cardga - TOC / Time     INVOICE TO     Sample     INVOICE TO       Childra - TOC / Time     INVOICE TO     Sample     Sample       Conder specific RLs?     Yes     No     Rush charges suthorized to the samples       Sampled     Time     Sample     # of     Durver       Time     Sample     # of     Durver     Pother       Sampled     Type     ass     NWTPH-Dx     Pother       Sampled     Voca     2     Pother     Pother       Sampled     Type     ass     NWTPH-HCID     Pother       Sampled     Voca     2     Pother     Pother       Sampled     # of     NWTPH-HCID     Pother     Pother       Sampled     # of     NWTPH-HCID     Pother     Pother       Sampled     Yes     3     NWTPH-HCID     Pother       Sampled     Yes     Yes     Addeed as     Pother       Sampled     Voca     Pathe Epa 82200     Pother     Pother       Sampled     Yes     Yes     Pother     Pother       Samples     Colder     Addeed as     Pother     Pother		allerty	U IMM	GNATURE						١	ł	1	5/15/24	Date Sampled			)	00		la Octern		
INVOICE TO     Page # of       PO #     Page # of       NWTPH-HCID     NWTPH-HCID       NALTYSES REQUESTED     AnALYSES REQUESTED       NATURNAROUND TIM     Samples       Other     Samples       Notes     Addeed at       Addeed at     Addeed at       Addeed at     Samples       Samples     Samples       Samples     Samples       Samples     Samples       Samples     Samples       Samples     Samples			D							) ·	13:50	13:30	13:00	Time Sampled		- Project s	- CNOCS	Canter		T	SAMPLE	
INVOICE TO     Page #										Water	+		GW	Sample Type		pecific RLs	include	a-TOC/	TNAME	RS (signat	CHAIN	
INVOICE TO     Page # of       PO #     Page # of       NWTPH-HCID     NWTPH-HCID       NALTYSES REQUESTED     AnALYSES REQUESTED       NATURNAROUND TIM     Samples       Other     Samples       Notes     Addeed at       Addeed at     Addeed at       Addeed at     Samples       Samples     Samples       Samples     Samples       Samples     Samples       Samples     Samples       Samples     Samples		4	SPECIC	PRI						Z	3	3	S	# of Jars		<u>; - Y</u> e	572	Tim	-	(uje)	OF (	
INVOICE TO     Page #		Z	6	NT N										NWTPH-Dx		es / ]	Ţ	re C		L	SUC	
INVOICE TO     Page #		X		AME			Sam								$\left  \right $	No		2		R	TOI	
OS/15/24 VW2       Price       NUTRINAROUND TIM       TURNAROUND TIM       NOTED       ANALYSES REQUESTED       ANALYSES REQUESTED       ANALYSES REQUESTED       ANALYSES REQUESTED       Other       PCBs EPA 8082       PCBs EPA 8082       PCBs EPA 8082       Other       Dispose after 3       Analyses authorized b       PCBs EPA 8082       PCBs EPA 8082       Other       Dispose after 3       Addeed at       Addeed at       PCBS EPA 8082       PCBs EPA 8082       Other       Dispose after 3       Addeed at       Addeed at       Addeed at       Addeed at       Addeed at       Addeed at       FLAND       PCBS ENDOC       Addeed at       Addeed at       Addeed at       Addeed at       FLAND <td c<="" td=""><td></td><td></td><td></td><td></td><td></td><td> </td><td>1ple</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><math>\left  \right </math></td><td></td><td>-1</td><td></td><td></td><td>2</td><td>YC</td></td>	<td></td> <td></td> <td></td> <td></td> <td></td> <td> </td> <td>1ple</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><math>\left  \right </math></td> <td></td> <td>-1</td> <td></td> <td></td> <td>2</td> <td>YC</td>							1ple								$\left  \right $		-1			2	YC
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COMPANY COM				$\left  - \right $			Celve	 							ALY	Ker	70IC		PO;	T		
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$W_{a}$ Page # of		Ē	SVIC	MPA	-		+	 	+	+		$\rightarrow$		CVUS DZUC	JESJ						12	
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$\frac{f}{d \ \text{turnaround TIM}} = \frac{f}{d \ \text{turnaround TIM}}$ $\frac{f}{ges \ \text{authorized b}}$ $\frac{fPLE \ DISPOSA}{samples}$ $\frac{f}{d \ \text{turnaround}}$					-			 		+					$\left  \right $		SAN chive ther	1 char	JSH_	Page	e e e	
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SA	MPLE COND	ITION UPON RECEIPT (	CHECKLIST		
PROJECT # 40527	2CLIENT	FDS	INITIALS/ C	AP )5/15/24	
If custody seals are	present on co	oler, are they intact?	J NA D	YES 🗆	NO
Cooler/Sample temp	erature		Thermome	ter ID: Fluke 963	°C 312917
Were samples receiv	ved on ice/colo	l packs?	Ø	YES D	NO
How did samples ar	r <b>ive?</b> ne Counter	□ Picked up by F&BI	□ FedEx/UI	'S/GSO	
Is there a Chain-of-( *or other representative do	Custody* (CO cuments, letters, a	C)? and/or shipping memos	Л	YES 🗆	NO
Number of days sam	ples have bee	en sitting prior to receip	t at laboratory	da	ys
Are the samples clea	arly identified	l? (explain "no" answer below)	Ø	YES 🗆	NO
Were all sample con leaking etc.)? (explain		ved intact (i.e. not broke <sup>v)</sup>	n, 🏿	YES 🗆	NO
Were appropriate sa	ample contair	ners used?	YES 🗆 NO	🗆 Unkn	lown
If custody seals are	present on sa	mples, are they intact?	Ø NA	YES 🗆	NO
Are samples requiri	ng no headsp	ace, headspace free?	AP A NA Z	YES 🗆	NO
Is the following info (explain "no" answer below	7)	vided on the COC, and do			ıbel?
Sample ID's					-1 -1
Date Sampled	🗹 Yes 🗆 No			ot on COC/l	
Time Sampled	Z Yes 🗆 No	Added Trip Blank at has		ot on COC/l ot on COC/l	
# of Containers	□ Yes Ø No	Added TripBland at 12	2⊔ 11		
Relinquished					
Requested analysis	Yes 🗆 On	Hold			
Other comments (us					
Air Samples: Were a	any additiona	l canisters/tubes receive rs Number of u	ed? Ø NA C	IYES C	) NO
				Rev. 05/01/	