

Groundwater Sampling Report

November 13, 2023

SITE INFORMATION Yarrow Bay Marina 5207 Lake Washington Boulevard NE Kirkland, King County, Washington 98033

PROJECT INFORMATION

Washington Department of Ecology Facility No.: 2486 Washington Department of Ecology VCP No.: NW1791 Washington Department of Ecology Cleanup Site No.: 8780 AEI Project No. 469497

PREPARED FOR

Mr. Dale Myers Toxics Cleanup Program Washington State Department of Ecology - NW Regional Office 3169 160th Avenue SE Bellevue, WA 98008-5452

PREPARED BY AEI Consultants 2500 Camino Diablo Walnut Creek, California

> 1.800.801.3224 www.aeiconsultants.com



Voluntary Cleanup Program

Washington State Department of Ecology Toxics Cleanup Program

REQUEST FOR OPINION FORM

Use this form to request a written opinion on your planned or completed independent remedial action under the Voluntary Cleanup Program (VCP). Attach to this form the plans or reports documenting the remedial action. Please submit only one form for each request.

Step 1: IDENTIFY HAZARDOUS WASTE SITE

Please identify below the hazardous waste site for which you are requesting a written opinion under the VCP. This information may be found on the VCP Agreement.

Facility/Site Name: Yarrow Bay Marina

Facility/Site Address: 5207 Lake Washington Boulevard NE, Kirkland, King County, WA

Facility/Site No: 33911356

VCP Project No.: NW1791

Step 2: REQUEST WRITTEN OPINION ON PLAN OR REPORT

What type of independent remedial action plan or report are you submitting to Ecology for review under the VCP? Please check all that apply.
 Remedial investigation plan Remedial investigation report Feasibility study report Property cleanup* plan (* cleanup of one or more parcels located within the Site) Property cleanup* report Site cleanup plan Site cleanup report Other – please specify:
Do you want Ecology to provide you with a written opinion on the planned or completed independent remedial action?
Please note that Ecology's opinion will be limited to:
 Whether the planned or completed remedial action at the site meets the substantive requirements of the Model Toxics Control Act (MTCA), and/or
Whether further remedial action is necessary at the site under MTCA.

Step 3: REPRESENTATIONS AND SIGNATURE

The undersigned representative of the Customer hereby certifies that he or she is fully authorized
to request services from Ecology under the Agreement for this VCP Project.

Name: Natasha Budimiro	ovic		Title: Project Geologist						
Signature:					Date:11/13/2023				
Organization: AEI Consultants									
Mailing address: 2500 Camino Diablo									
City: Walnut Creek		State: CA		Zip	Zip code:94597				
Phone: (408) 442-2605	Fax:		E-mail: nl	budimir	ovic@aeiconsultants.com				

Step 4: SUBMITTAL

Please mail your completed form and the independent remedial action plan or report that you are requesting Ecology review to the site manager Ecology assigned to your Site. If a site manager has not yet been assigned, please mail your completed form to the Ecology regional office for the County in which your Site is located.



If you need this publication in an alternate format, please call the Toxics Cleanup Program at 360-407-7170. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.

TABLE OF CONTENTS

1.0 BACKGROUND	4
2.0 FIELD ACTIVITIES	4
 2.1 Monitoring Well Condition Assessment 2.2 Groundwater Elevation Gauging 2.3 Groundwater Sampling Activities 	4 4 4
3.0 FINDINGS	5
3.1 Depth to Groundwater Observations3.2 Groundwater Analytical Results	5 5
4.0 SUMMARY AND CONCLUSIONS	6
5.0 REFERENCES	6
6.0 SIGNATURES	7

FIGURES

Figure 1	Site Location Map
Figure 2	Site Map

TABLES

Table 1	Groundwater Sample Data Summary - VOCs
Table 2	Groundwater Sample Data Summary - PAHs

APPENDICES

Appendix A	Field Data Sheets
Appendix B	Laboratory Analytical Report





November 13, 2023

Mr. Dale Myers Toxics Cleanup Program Washington State Department of Ecology - Northwest Regional Office 3169 160th Avenue SE Bellevue, Washington 98008-5452

Subject: Groundwater Sampling Report 5207 Lake Washington Boulevard NE Kirkland, Washington 98033 AEI Project No. 469497 Washington Department of Ecology Facility No.: 2486 Washington Department of Ecology VCP No.: NW1791 Washington Department of Ecology Cleanup Site No.: 8780

Dear Mr. Myers,

On behalf of Kirkland Yarrow Bay, LLC, AEI Consultants (AEI) has prepared this report to document the groundwater monitoring well sampling activities for the property located at 5207 Lake Washington Boulevard NE, in the city of Kirkland, King County, Washington (the "Site"). In a letter dated January 24, 2017, a *Restrictive Covenant No Further Action* (Restrictive Covenant) was granted by the Washington Department of Ecology that requested three consecutive years of groundwater sampling at the Site. The recent sampling was performed in an effort to satisfy the confirmation groundwater sampling activities as required in the Restrictive Covenant. Based on the results from the three groundwater monitoring events, AEI requests a No Further Action determination for the Site and the removal of the Site from the Confirmed and Suspected Contaminated Site List and Leaking Underground Storage Tank List.

AEI appreciates the opportunity to support this important project. If you have any questions, please do not hesitate to contact me.

Sincerely,

Jeremy Smith Senior Project Manager

AEI Consultants 2500 Camino Diablo Walnut Creek, California 94597 Phone: 925.746.6000 Email: jasmith@aeiconsultants.com

1.0 BACKGROUND

A release of petroleum hydrocarbons was discovered at the Site in 2006. After the completion of investigation activities, a Restrictive Covenant No Further Action was granted by the Washington State Department of Ecology (WDOE) in their letter dated January 24, 2017, in which three consecutive years of sampling were requested. The first groundwater sampling event was completed on December 8, 2017 by ATC Group Services, LLC (ATC), as documented in their January 9, 2018 Groundwater Monitoring Report - 2017 Annual Event. Following the 2017 sampling event, a change of ownership resulted in the unintentional lapse of continued consecutive annual sampling activities. Upon discovery of the oversight during 2022, a sampling event was immediately scheduled in accordance with the no further action letter. On October 7, 2022, AEI conducted the second groundwater monitoring activity at the Site, as described in our November 15, 2022 Groundwater Sampling Report. Results from the second round of the groundwater monitoring collected from well MW-1 indicated that the concentrations of total petroleum hydrocarbon (TPH) and volatile organic compounds (VOCs) were below their respective Method Toxic Control Act (MTCA) Methods A and B levels. Based on the results, AEI recommended no further assessment beyond the third and final groundwater monitoring event to be conducted in October 2023.

The field activities outlined in the below report document the 2023 sampling event and are intended to satisfy the third sampling event required by WDOE in their 2017 letter.

2.0 FIELD ACTIVITIES

AEI performed the third groundwater monitoring event, including groundwater level gauging measurements and groundwater sampling. Tables 1 and 2 summarizes the analytical results.

2.1 Monitoring Well Condition Assessment

Prior to conducting gauging and sampling activities on October 18, 2023, a monitoring well condition assessment of well MW-1 was completed. This assessment consisted of observing the condition of the casing, well box, well plug, bolts, and lid for indications of wear or failure. The inspection found that one bolt needed replacement as the bolt did not fit properly to secure the well box. Additional issues were not observed and the bolt fitting does not pose a condition that would impact the integrity of the planned testing, thus sampling was completed as planned. Well condition report is included in field notes, presented in Appendix A.

2.2 Groundwater Elevation Gauging

Prior to the groundwater sampling activities, a depth-to-groundwater measurement was obtained at monitoring well MW-1 on October 18, 2023. Before the depth to water was measured, the well cap was removed from the well and the well was allowed to equilibrate for 10 minutes. Depth to groundwater was measured from the top of the well casing using an electric water level indicator calibrated to within 0.01 foot, and recorded on field sampling forms, presented in Appendix A.

2.3 Groundwater Sampling Activities

Following groundwater elevation gauging activities, a groundwater sample was obtained from the well. Prior to collection of the sample, the well was purged using low-flow sampling



techniques with a peristaltic pump at a rate of approximately 200 milliliters per minute. During purging and sampling, groundwater quality parameters [e.g., temperature, pH, specific conductivity, dissolved oxygen, turbidity, and oxidation-reduction potential] were collected.

After the groundwater parameters had stabilized, a groundwater sample was collected from the well using the peristaltic pump. The groundwater sample was decanted into laboratory supplied, 40-milliliter, hydrochloric acid-preserved, volatile organic analysis vials, and 1-liter amber bottles. Upon filling and capping each bottle, the bottles were checked for the presence of air bubbles to ensure there was no visible headspace. The sample was labeled and placed in an insulated, ice-chilled cooler for transport under chain-of-custody protocol to Pace Analytical in Mount Juliet, Tennessee. The groundwater sample was analyzed for VOCs using United States Environmental Protection Agency (US EPA) Testing Method 8260B, TPH Gasoline Range Organics (GRO) using Testing Method NWTPH-Gx and TPH Diesel Range Organics (DRO) and TPH Residual Range Organics (RRO) using Testing Method A, the groundwater sample was additionally analyzed for polycyclic aromatic hydrocarbons (PAHs). Appendix B contains the laboratory analytical report and chain-of-custody documentation.

No notable anomalies or variations to sampling methods are reported during the October 18, 2023, sampling activities.

3.0 FINDINGS

The findings from the groundwater gauging and sampling activities are summarized below.

3.1 Depth to Groundwater Observations

Depth to groundwater was recorded to be 3.86 feet below the top of well casing in the October 18, 2023, event.

3.2 Groundwater Analytical Results

For purposes of providing context to the data generated during this investigation, analytical results were compared to the WDOE MTCA Method A (unrestrictive land use) and Method B (common method for setting clean-up levels), Cleanup Levels and Risk Calculation (CLARC), as referenced in Ecology's CLARC Tables, revised January 2023. The presence of a chemical at concentrations below applicable cleanup levels can generally be assumed to not pose a significant threat to human health or the environment.

Table 1 presents the groundwater analytical results for monitoring event at the Site and the comparative screening levels. The groundwater analytical results from the October 2023 groundwater monitoring event can be summarized as follows (Note: B: the same analyte is found in the associated blank; J: the identification of the analyte is acceptable; however, the reported value is an estimate); T8: the sample(s) received past/too close to the holding time expiration).

• TPH-GRO was detected at a concentration of 62.6 J, B micrograms per liter (µg/L). The detected concentration is below the MTCA Method A cleanup level of 800 µg/L.



- TPH-DRO was detected at a concentration of 246 μ g/L. The detected concentration is below the MTCA Method A cleanup level of 500 μ g/L.
- TPH-RRO was detected at a concentration of 534 µg/L. The detected concentration is slightly above the MTCA Method A cleanup level of 500 µg/L.
- Toluene was detected at a concentration of 0.137 J µg/L. The detected concentration is below the MTCA Method B noncancer of 640 µg/L and the MTCA Method A of 1,000 µg/L.
- Other VOCs, including benzene, ethylbenzene, and total xylenes were detected either below their respective Method A/B screening levels or below the laboratory reported detection limits (RDLs) in the groundwater sample collected and analyzed as shown on Table 1.

Based on the TPH-RRO concentration detected slightly above the MTCA Method A Cleanup level, groundwater sample MW-1 was additionally analyzed for PAHs to further quantify the detected concentration. Based on the analysis, PAHs were not detected above their respective Method A/B screening levels or above the laboratory RDLs in the groundwater sample collected and analyzed.

4.0 SUMMARY AND CONCLUSIONS

AEI has performed groundwater monitoring and sampling at the Site as described above. The sampling activities were completed to meet the requirement in the *Restrictive Covenant No Further Action*, that was granted by the WDOE in their letter dated January 24, 2017. Results from the third round of the groundwater monitoring collected from well MW-1 indicate that the concentrations of VOCs were below their respective MTCA Methods A and B levels. TPH-RRO was detected at a concentration of 534 μ g/L, which slightly exceeds the MTCA Method A unrestricted land use of 500 μ g/L; however, results from further PAHs analysis did not yield concentrations of PAHs above their respective Method A/B screening levels or above the laboratory RDLs in the groundwater sample collected and analyzed.

Based on the results from the three groundwater monitoring events, the VOCs and PAHs in groundwater beneath the Site remain below the appliable MTCA screening levels. AEI requests a No Further Action (NFA) determination for the Site and the removal of the Site from the Confirmed and Suspected Contaminated Site List and Leaking Underground Storage Tank List.

5.0 REFERENCES

- AEI Consultants, 2022, Groundwater Sampling Report, 5207 Lake Washington Boulevard NE, Kirkland, Washington, 98033, dated November 15.
- ATC Group Services Inc, 2018, Groundwater Monitoring Report-2017 Annual Event. 5207 Lake Washington Boulevard NE, Kirkland, Washington 98033, dated January 9.
- Washington State Department of Ecology, 2017, Environmental Covenant. 5207 Lake Washington Boulevard NE, Kirkland, Washington 98033, dated January 24.
- Washington State Department of Ecology, 2023, Method Toxic Control Act (MTCA) Cleanup Levels and Risk Calculation (CLARC) Master Table. January.



6.0 SIGNATURES

This document was prepared by, or under the direction, of the undersigned.

Natasha Budimirovic Project Geologist

Jacquelling C. Day, L.G. 3011 Principal Geologist





Figures







Tables



Table 1: GROUNDWATER SAMPLE DATA SUMMARY - VOCs 5207 Lake Washington Boulevard, Kirkland, Washington 98033 AEI Project Number: 469497

			TPH		VOCs							
Location ID	Date	TPH-GRO (µg/L)	TPH-DRO (µg/L)	TPH-RRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Acetone (µg/L)	2-Butanone (MEK) (µg/L)	Methyl tert- butyl ether (µg/L)	Remaining VOCs (µg/L)
MW-1	12/8/2017* 10/7/2022 10/18/2023	ND<50.0 ND<100 62.6 B J	ND<49.9 278 246	ND<99.8 312 534	ND<1.0 0.0540 ND<0.0400	ND<1.0 0.407 0.137 J	ND<1.0 0.0470 J ND<0.100	ND<2.0 0.288 ND<0.260	NA 21.1 14.6	NA 2.36 1.15 C3	NA 0.0940 0.0820	ND <rdl ND<rdl ND<rdl< td=""></rdl<></rdl </rdl
<u>Comparison Values:</u> WDOE CLARC Method A u	unrestricted land use	800	500	500	5.0	1,000	700	1,000			20	Various
WDOE CLARC Method B r				32	640	800	1,600	7,200	4,800		Various	
WDOE CLARC Method B o	cancer				0.8						24	Various
WA or Federal Maximum	Contaminant Limit (MCL)				5.0	1,000	700	10,000				Various

Notes:

µg/L	micrograms per liter
ND <rdl< td=""><td>not detected above the laboratory reported detection limit</td></rdl<>	not detected above the laboratory reported detection limit
NA	not analyzed
MEK	methyl ethyl ketone
TPH-GRO	total petroleum hydrocarbons as gasoline
TPH-DRO	total petroleum hydrocarbons as diesel
TPH-RRO	total petroleum hydrocarbons as motor oil (residual range organics)
VOCs	volatile organic compounds
	no comparison value established
В	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.
*	Sampled by ATC Group Services Inc.

Comparison Values:

WDOE CLARC Washington Department of Ecology Cleanup Levels and Risk Calculation for cancer and noncancer risk drivers for individual chemicals (WDOE, January 2023)

Table 2: GROUNDWATER SAMPLE DATA SUMMARY - PAHs 5207 Lake Washington Boulevard, Kirkland, Washington 98033

Location ID	Date	Acenaphthene (µg/L)	Anthracene (µg/L)	Fluoranthene (µg/L)	Fluorene (µg/L)	Phenanthrene (µg/L)	Pyrene (µg/L)	Remaining PAHs (µg/L)
MW-1	10/18/2023	0.784 T8	0.0282 J, T8	0.0506 J, T8	0.0361 T8	0.167 T8	0.0336 T8	ND <rdl< td=""></rdl<>
<u>Comparison Values:</u> WDOE CLARC Method A u WDOE CLARC Method B n WDOE CLARC Method B c WA or Federal Maximum	on cancer ancer	 480 	 2,400 	 640 	 320 	 	 240 	Various Various Various Various

AEI Project Number: 469497

Notes:

µg/L ND <rdl< th=""><th>micrograms per liter not detected above the laboratory reported detection limit</th></rdl<>	micrograms per liter not detected above the laboratory reported detection limit
PAHs	polycyclic aromatic hydrocarbons
	no comparison value established
J	The identification of the analyte is acceptable; the reported value is an estimate.
Т8	Sample(s) received past/too close to holding time expiration.

Comparison Values:

WDOE CLARC Washington Department of Ecology Cleanup Levels and Risk Calculation for cancer and noncancer risk drivers for individual chemicals (WDOE, January 2023)

Appendix B Laboratory Analytical Reports



Water Level Field Data Sheet 5207 Lake WA Blvd. NE Kirkladn, WA

Project Name: Yarrow Bay Marina

Project No.: 469497

Field Personnel: N. Budimirovic

Site Location: 5207 Lake Washington Blvd. NE, Kirkland, WA

Date: 10/18/2023

	Screen Interval	Total Depth	Depth to Water (Previous Year)	Casing Diameter	LNAPL Observed	Time	Depth to Water	Depth to Bottom	R = Re	Condition G = Good Needs Repl placed durin	aced og event	Comments
Well ID	(ft BTOC)	(ft BTOC)	(ft BTOC)	(in.)	(Y/N) ¹		(ft BTOC)	(ft BTOC)	Well Cap	Bolts	Well Lid	
MW-1	-	8.34	3,92	2	N	1230	3.86	8.34	G	N	6	
									L L		l	
	-											
			-									
		+										
				-								
			-	-								
						-						

Note: BTOC = below top of casing

N/A = not available

NM = not measured

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Low Flow Sampling

	Мо	nitoring Well ID:	MW-1
Project Name: Yarrow Bay Marina		Date of Sampling:	10/18/2023
Job Number: 469497		Name of Sampler:	N. Budimirovic
Project Address: 5207 Lake Washington Boulevard NE	, Kirkland, WA		
MONITORIN	G WELL DATA	A	
Vell Casing Diameter (inches)	2"		
a us Double to Converductor (feat below top of casing)	2 01		

Static Depth to Groundwater (feet below top of casing)	3.86		
Total Well Depth (feet below top of casing)	8.34		
Screened Interval (feet below top of casing)	-		
Pump Intake Position (feet above bottom of casing)		Default = Middle of saturated screener	Interval
Free Product Presen	it? No	Thickness (ft):	~

GROUNDWATER EQUILIBRATION

Time	Depth to Groundwater	Flow rate (ml/min)	Temperature (deg C)	Conductivity (µg/cm)	DO (mg/L)	pH (-) ± 0.1	ORP (meV) ± 10	Turbidity (NTU) <10	Comments (as needed)
$ \begin{array}{c} \text{Stabilization Criteria}^{1} \\ \hline 1242 \\ \hline 1245 \\ \hline 1248 \\ \hline 1251 \\ \hline 1254 \\ \hline 1254 \\ \hline 1257 \\ \hline 1257 \\ \end{array} $	<4" Drawdown 3,86 3,91 3,93 3,95 3,97 3,97	>500 ml/min 200 200 200 200 200 200	±1 21.49 21.63 21.41 21.50 21.43 21.43 21.43 21.41	± 3% <u>802</u> <u>721</u> <u>660</u> <u>644</u> <u>641</u> <u>645</u>	±0.3 6,98 5,33 5,87 5,32 4,92 4,92	\$.60 8.71 8.77 8.73 8.75 8.75 8.75	-110.7 -81.3 -63.3 -69.1 -66.2 -64.3	91.3 83.5 79.7 76.3 60.3 63.1	

			SAMPLING		
Sample Time	Sample ID	Containers	Analysis	TAT	Comments
1205	HIV-1	13	TPH, VDCs	STAT	
Tus	100-1				

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

¹: As perscribed by the Representative Sampling of Groundwater for Hazardous Substances (DTSC 2006)

Appendix A Field Data Sheets





Pace Analytical® ANALYTICAL REPORT November 06, 2023

Revised Report

AEI Consultants - CA

Sample Delivery Group: Samples Received: Project Number: Description:

L1668387 10/20/2023 469497 Yarrow Bay Yacht Basin and Marina

Report To:

Natasha Budimirovic 2500 Camino Diablo Walnut Creek, CA 94597

Entire Report Reviewed By:

Buar Ford

Brian Ford Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

ACCOUNT: AEI Consultants - CA PROJECT: 469497

SDG: L1668387

DATE/TIME: 11/06/23 12:25 PAGE: 1 of 15

Тс Ss Cn Sr ʹQc Gl AI Sc

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
MW-1 L1668387-01	5
Qc: Quality Control Summary	7
Volatile Organic Compounds (GC) by Method NWTPHGX	7
Volatile Organic Compounds (GC/MS) by Method 8260D	8
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	12
GI: Glossary of Terms	13
Al: Accreditations & Locations	14
Sc: Sample Chain of Custody	15

Ср

Ss

°Cn

Sr

Qc

GI

ΆI

SAMPLE SUMMARY

MW-1 L1668387-01 GW	Collected by Natasha Budimirov	Collected date/time ic 10/18/23 13:05	Received date/time 10/20/23 09:00			
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2157161	1	10/24/23 21:29	10/24/23 21:29	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2158928	1	10/27/23 00:29	10/27/23 00:29	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2157367	1	10/25/23 07:10	10/27/23 02:40	DMG	Mt. Juliet, TN



PROJECT: 469497 SDG: L1668387 DATE/TIME: 11/06/23 12:25

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Buar Ford

Brian Ford Project Manager

⁵Sr ⁶Qc ⁷Gl ⁸Al ⁹Sc

Тс

Ss

Cn

Report Revision History

Level II Report - Version 1: 10/27/23 18:00

Project Narrative

revised: updated sample ID to MW-1.

Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

Lab Sample ID L1668387-01 Project Sample ID

Method 8260D

SDG: L1668387

SAMPLE RESULTS - 01 L1668387

Volatile Organic Compounds (GC) by Method NWTPHGX

Volatile Organic Compounds (GC) by Method NWTPHGX									
	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch		Ср
Analyte	ug/l		ug/l	ug/l		date / time			2
Gasoline Range Organics-NWTPH	62.6	<u>B J</u>	31.6	100	1	10/24/2023 21:29	WG2157161		Tc
(S) a,a,a-Trifluorotoluene(FID)	112			78.0-120		10/24/2023 21:29	WG2157161		³ Ss

°Cn

Sr

Qc

GI

ΆI

Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte Acetone	ug/l							
Acetone			ug/l	ug/l		date / time		
	14.6		0.548	1.00	1	10/27/2023 00:29	<u>WG2158928</u>	
Acrylonitrile	U		0.0760	0.500	1	10/27/2023 00:29	<u>WG2158928</u>	
Acrolein	U	<u>C3</u>	0.758	50.0	1	10/27/2023 00:29	<u>WG2158928</u>	
Benzene	U		0.0160	0.0400	1	10/27/2023 00:29	<u>WG2158928</u>	
Bromobenzene	U		0.0420	0.500	1	10/27/2023 00:29	<u>WG2158928</u>	
Bromodichloromethane	U		0.0315	0.100	1	10/27/2023 00:29	WG2158928	
Bromoform	U		0.239	1.00	1	10/27/2023 00:29	WG2158928	
Bromomethane	U		0.148	0.500	1	10/27/2023 00:29	WG2158928	
n-Butylbenzene	U		0.153	0.500	1	10/27/2023 00:29	WG2158928	
sec-Butylbenzene	U		0.101	0.500	1	10/27/2023 00:29	WG2158928	
tert-Butylbenzene	U		0.0620	0.200	1	10/27/2023 00:29	WG2158928	
Carbon tetrachloride	U		0.0432	0.200	1	10/27/2023 00:29	WG2158928	
Chlorobenzene	U		0.0229	0.100	1	10/27/2023 00:29	WG2158928	
Chlorodibromomethane	U		0.0180	0.100	1	10/27/2023 00:29	WG2158928	
Chloroethane	U		0.0432	0.200	1	10/27/2023 00:29	WG2158928	
Chloroform	U		0.0166	0.100	1	10/27/2023 00:29	WG2158928	
Chloromethane	U		0.0556	0.500	1	10/27/2023 00:29	WG2158928	
2-Chlorotoluene	U		0.0368	0.100	1	10/27/2023 00:29	WG2158928	
1-Chlorotoluene	U		0.0452	0.200	1	10/27/2023 00:29	WG2158928	
I,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	10/27/2023 00:29	WG2158928	
,2-Dibromoethane	U		0.0210	0.100	1	10/27/2023 00:29	WG2158928	
Dibromomethane	U		0.0400	0.200	1	10/27/2023 00:29	WG2158928	
2-Dichlorobenzene	U		0.0580	0.200	1	10/27/2023 00:29	WG2158928	
,3-Dichlorobenzene	U		0.0680	0.200	1	10/27/2023 00:29	WG2158928	
,4-Dichlorobenzene	U		0.0788	0.200	1	10/27/2023 00:29	WG2158928	
Dichlorodifluoromethane	U	<u>C3</u>	0.0327	0.100	1	10/27/2023 00:29	WG2158928	
,1-Dichloroethane	U		0.0230	0.100	1	10/27/2023 00:29	WG2158928	
,2-Dichloroethane	U		0.0190	0.100	1	10/27/2023 00:29	WG2158928	
,1-Dichloroethene	U		0.0200	0.100	1	10/27/2023 00:29	WG2158928	
cis-1,2-Dichloroethene	U		0.0276	0.100	1	10/27/2023 00:29	WG2158928	
rans-1,2-Dichloroethene	U		0.0572	0.200	1	10/27/2023 00:29	WG2158928	
1,2-Dichloropropane	U		0.0508	0.200	1	10/27/2023 00:29	WG2158928	
I,1-Dichloropropene	U		0.0280	0.100	1	10/27/2023 00:29	WG2158928	
,3-Dichloropropane	U		0.0700	0.200	1	10/27/2023 00:29	WG2158928	
is-1,3-Dichloropropene	U		0.0271	0.100	1	10/27/2023 00:29	WG2158928	
rans-1,3-Dichloropropene	U		0.0612	0.200	1	10/27/2023 00:29	WG2158928	
2,2-Dichloropropane	U		0.0317	0.100	1	10/27/2023 00:29	WG2158928	
Di-isopropyl ether	U		0.0140	0.0400	1	10/27/2023 00:29	WG2158928	
Ethylbenzene	U		0.0212	0.100	1	10/27/2023 00:29	WG2158928	
lexachloro-1,3-butadiene	U		0.508	1.00	1	10/27/2023 00:29	WG2158928	
sopropylbenzene	U		0.0345	0.100	1	10/27/2023 00:29	WG2158928	
p-lsopropyltoluene	U		0.0932	0.200	1	10/27/2023 00:29	WG2158928	
-Butanone (MEK)	1.15	(3	0.0932	1.00	1	10/27/2023 00:29	WG2158928	
Aethylene Chloride	U	<u>C3</u>	0.265	1.00	1	10/27/2023 00:29	WG2158928	
-Methyl-2-pentanone (MIBK)	U		0.205	1.00	1	10/27/2023 00:29	WG2158928	
Aethyl tert-butyl ether	0.0820		0.0118	0.0400	1	10/27/2023 00:29	WG2158928	
laphthalene	U		0.124	0.500	1	10/27/2023 00:29	WG2158928	
i-Propylbenzene	U		0.0472	0.200	1	10/27/2023 00:29	WG2158928	
ACCO AEI Consul				PROJECT: 469497		SDG: L1668387	DATE/TIME: 11/06/23 12:25	PAGI 5 of 1

Collected date/time: 10/18/23 13:05

SAMPLE RESULTS - 01

Volatile Organic Compounds (GC/MS) by Method 8260D

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l	ug/l		date / time		L
Styrene	U		0.109	0.500	1	10/27/2023 00:29	WG2158928	
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	10/27/2023 00:29	<u>WG2158928</u>	
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	10/27/2023 00:29	WG2158928	Γ
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	10/27/2023 00:29	<u>WG2158928</u>	
Tetrachloroethene	U		0.0280	0.100	1	10/27/2023 00:29	WG2158928	L
Toluene	0.137	J	0.0500	0.200	1	10/27/2023 00:29	<u>WG2158928</u>	
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	10/27/2023 00:29	<u>WG2158928</u>	
1,2,4-Trichlorobenzene	U		0.193	0.500	1	10/27/2023 00:29	<u>WG2158928</u>	
1,1,1-Trichloroethane	U		0.0110	0.100	1	10/27/2023 00:29	<u>WG2158928</u>	
1,1,2-Trichloroethane	U		0.0353	0.100	1	10/27/2023 00:29	<u>WG2158928</u>	
Trichloroethene	U		0.0160	0.0400	1	10/27/2023 00:29	WG2158928	
Trichlorofluoromethane	U		0.0200	0.100	1	10/27/2023 00:29	<u>WG2158928</u>	
1,2,3-Trichloropropane	U		0.204	0.500	1	10/27/2023 00:29	WG2158928	Г
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	10/27/2023 00:29	<u>WG2158928</u>	
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	10/27/2023 00:29	WG2158928	L
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	10/27/2023 00:29	<u>WG2158928</u>	
Vinyl chloride	U	<u>C3</u>	0.0273	0.100	1	10/27/2023 00:29	<u>WG2158928</u>	
Xylenes, Total	U		0.191	0.260	1	10/27/2023 00:29	<u>WG2158928</u>	Γ
(S) Toluene-d8	103			75.0-131		10/27/2023 00:29	WG2158928	
(S) 4-Bromofluorobenzene	94.4			67.0-138		10/27/2023 00:29	<u>WG2158928</u>	L
(S) 1,2-Dichloroethane-d4	88.2			70.0-130		10/27/2023 00:29	WG2158928	

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	246		66.7	200	1	10/27/2023 02:40	WG2157367
Residual Range Organics (RRO)	534		83.3	250	1	10/27/2023 02:40	WG2157367
(S) o-Terphenyl	74.7			52.0-156		10/27/2023 02:40	WG2157367

Sample Narrative:

L1668387-01 WG2157367: Sample does not resemble laboratory standards.

SDG: L1668387

WG2157161

Volatile Organic Compounds (GC) by Method NWTPHGX

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3991076-3 10/24/2	23 16:11				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	ug/l		ug/l	ug/l	
Gasoline Range Organics-NWTPH	56.9	Ţ	31.6	00	
(S) a,a,a-Trifluorotoluene(FID)	113			78.0-120	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3991076-1 10/24/2	(LCS) R3991076-1 10/24/23 14:56 • (LCSD) R3991076-2 10/24/23 15:18												
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits			
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%			
Gasoline Range Organics-NWTPH	5500	4730	5200	86.0	94.5	70.0-124			9.47	20			
(S) a,a,a-Trifluorotoluene(FID)				118	119	78.0-120							

WG2158928

Volatile Organic Compounds (GC/MS) by Method 8260D

QUALITY CONTROL SUMMARY L1668387-01

Method Blank (MB)

Method Blank (MB)							
MB) R3992011-3 10/26/23	17:34						
	MB Result	MB Qualifier	MB MDL	MB RDL			
nalyte	ug/l		ug/l	ug/l			
cetone	U		0.548	1.00			
crylonitrile	U		0.0760	0.500			
rolein	U		0.758	50.0			
enzene	U		0.0160	0.0400			
omobenzene	U		0.0420	0.500			
omodichloromethane	U		0.0315	0.100			
omoform	U		0.239	1.00			
romomethane	U		0.148	0.500			
Butylbenzene	U		0.153	0.500			
c-Butylbenzene	U		0.101	0.500			
t-Butylbenzene	U		0.0620	0.200			
rbon tetrachloride	U		0.0432	0.200			
lorobenzene	U		0.0229	0.100			
lorodibromomethane	U		0.0180	0.100			
Iloroethane	U		0.0432	0.200			
loroform	U		0.0166	0.100			
loromethane	U		0.0556	0.500			
Chlorotoluene	U		0.0368	0.100			
Chlorotoluene	U		0.0452	0.200			
-Dibromo-3-Chloropropane			0.204	1.00			
-Dibromoethane	U		0.0210	0.100			
promomethane	U		0.0400	0.200			
-Dichlorobenzene	U		0.0580	0.200			
-Dichlorobenzene	U		0.0680	0.200			
-Dichlorobenzene	U		0.0788	0.200			
hlorodifluoromethane	U		0.0327	0.100			
Dichloroethane	U		0.0230	0.100			
-Dichloroethane	U		0.0190	0.100			
Dichloroethene	U		0.0190	0.100			
-1,2-Dichloroethene	U		0.0200	0.100			
ns-1,2-Dichloroethene			0.0270	0.200			
-Dichloropropane	U		0.0508	0.200			
	U		0.0280	0.100			
Dichloropropene							
-Dichloropropane	U		0.0700	0.200			
-1,3-Dichloropropene	U		0.0271	0.100			
ns-1,3-Dichloropropene	U		0.0612	0.200			
2-Dichloropropane	U		0.0317	0.100			
-isopropyl ether	U		0.0140	0.0400			
hylbenzene	U		0.0212	0.100			
Hexachloro-1,3-butadiene	U		0.508	1.00			

ACCOUNT: AEI Consultants - CA PROJECT: 469497

SDG: L1668387

DATE/TIME: 11/06/23 12:25

PAGE: 8 of 15

WG2158928

Volatile Organic Compounds (GC/MS) by Method 8260D

QUALITY CONTROL SUMMARY L1668387-01

Method Blank (MB)

Method Blank (MB)					1
(MB) R3992011-3 10/26/23	3 17:34				C
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	ug/l		ug/l	ug/l	T
Isopropylbenzene	U		0.0345	0.100	
p-Isopropyltoluene	U		0.0932	0.200	3
2-Butanone (MEK)	U		0.500	1.00	Ľ
Methylene Chloride	U		0.265	1.00	4
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	Ċ
Methyl tert-butyl ether	U		0.0118	0.0400	
Naphthalene	U		0.124	0.500	⁵ S
n-Propylbenzene	U		0.0472	0.200	Ľ
Styrene	U		0.109	0.500	6
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	°C
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	7
Tetrachloroethene	U		0.0280	0.100	
Toluene	U		0.0500	0.200	8
1,2,3-Trichlorobenzene	U		0.0250	0.500	A
1,2,4-Trichlorobenzene	U		0.193	0.500	
1,1,1-Trichloroethane	U		0.0110	0.100	°S
1,1,2-Trichloroethane	U		0.0353	0.100	Ľ
Trichloroethene	U		0.0160	0.0400	
Trichlorofluoromethane	U		0.0200	0.100	
1,2,3-Trichloropropane	U		0.204	0.500	
1,2,4-Trimethylbenzene	U		0.0464	0.200	
1,2,3-Trimethylbenzene	U		0.0460	0.200	
1,3,5-Trimethylbenzene	U		0.0432	0.200	
Vinyl chloride	U		0.0273	0.100	
Xylenes, Total	U		0.191	0.260	
(S) Toluene-d8	103			75.0-131	
(S) 4-Bromofluorobenzene	91.9			67.0-138	
(S) 1,2-Dichloroethane-d4	89.3			70.0-130	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Acetone	25.0	23.2	22.6	92.8	90.4	10.0-160			2.62	31
Acrylonitrile	25.0	22.6	23.1	90.4	92.4	45.0-153			2.19	22
Acrolein	25.0	10.3	10.2	41.2	40.8	10.0-160			0.976	31
Benzene	5.00	4.98	4.90	99.6	98.0	70.0-123			1.62	20

ACCOUNT: PROJECT: SDG: DATE/TIME: PAGE: 9 of 15 AEI Consultants - CA 469497 L1668387 11/06/23 12:25

QUALITY CONTROL SUMMARY

Тс

Ss

Cn

Sr

Qc

GI

Â

Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3992011-1 10/26/23 15:59 • (LCSD) R3992011-2 10/26/23 16:18

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%	
Bromobenzene	5.00	5.54	5.73	111	115	73.0-121			3.37	20	
Bromodichloromethane	5.00	5.35	5.29	107	106	73.0-121			1.13	20	
Bromoform	5.00	4.91	4.81	98.2	96.2	64.0-132			2.06	20	
Bromomethane	5.00	5.35	5.04	107	101	56.0-147			5.97	20	
-Butylbenzene	5.00	4.43	4.48	88.6	89.6	68.0-135			1.12	20	
ec-Butylbenzene	5.00	4.53	4.80	90.6	96.0	74.0-130			5.79	20	
ert-Butylbenzene	5.00	4.62	4.87	92.4	97.4	75.0-127			5.27	20	
Carbon tetrachloride	5.00	4.95	4.84	99.0	96.8	66.0-128			2.25	20	
Chlorobenzene	5.00	5.05	5.07	101	101	76.0-128			0.395	20	
Chlorodibromomethane	5.00	4.87	4.95	97.4	99.0	74.0-127			1.63	20	
Chloroethane	5.00	4.80	4.54	96.0	90.8	61.0-134			5.57	20	
Chloroform	5.00	5.13	5.03	103	101	72.0-123			1.97	20	
Chloromethane	5.00	4.18	3.99	83.6	79.8	51.0-138			4.65	20	
2-Chlorotoluene	5.00	5.05	5.23	101	105	75.0-124			3.50	20	
-Chlorotoluene	5.00	5.07	5.24	101	105	75.0-124			3.30	20	
,2-Dibromo-3-Chloropropane	5.00	4.49	4.57	89.8	91.4	59.0-130			1.77	20	
,2-Dibromoethane	5.00	5.10	5.19	102	104	74.0-128			1.75	20	
ibromomethane	5.00	5.33	5.28	107	106	75.0-122			0.943	20	
2-Dichlorobenzene	5.00	4.77	4.77	95.4	95.4	76.0-124			0.000	20	
3-Dichlorobenzene	5.00	5.12	5.11	102	102	76.0-125			0.196	20	
4-Dichlorobenzene	5.00	4.91	5.01	98.2	100	77.0-121			2.02	20	
vichlorodifluoromethane	5.00	3.49	3.65	69.8	73.0	43.0-156			4.48	20	
1-Dichloroethane	5.00	4.36	4.21	87.2	84.2	70.0-127			3.50	20	
,2-Dichloroethane	5.00	4.98	4.81	99.6	96.2	65.0-131			3.47	20	
1-Dichloroethene	5.00	4.04	3.96	80.8	79.2	65.0-131			2.00	20	
is-1,2-Dichloroethene	5.00	4.93	4.82	98.6	96.4	73.0-125			2.26	20	
rans-1,2-Dichloroethene	5.00	4.85	4.93	97.0	98.6	71.0-125			1.64	20	
,2-Dichloropropane	5.00	4.57	4.63	91.4	92.6	74.0-125			1.30	20	
,1-Dichloropropene	5.00	4.83	4.88	96.6	97.6	73.0-125			1.03	20	
,3-Dichloropropane	5.00	5.07	5.35	101	107	80.0-125			5.37	20	
is-1,3-Dichloropropene	5.00	5.26	5.58	105	112	76.0-127			5.90	20	
rans-1,3-Dichloropropene	5.00	5.05	5.35	101	107	73.0-127			5.77	20	
2,2-Dichloropropane	5.00	5.62	4.93	112	98.6	59.0-135			13.1	20	
Di-isopropyl ether	5.00	4.07	4.08	81.4	81.6	60.0-136			0.245	20	
thylbenzene	5.00	4.91	4.98	98.2	99.6	74.0-126			1.42	20	
lexachloro-1,3-butadiene	5.00	4.72	5.07	94.4	101	57.0-120			7.15	20	
sopropylbenzene	5.00	4.62	4.67	92.4	93.4	72.0-127			1.08	20	
-Isopropyltoluene	5.00	4.50	4.61	90.0	92.2	72.0-133			2.41	20	
2-Butanone (MEK)	25.0	19.7	21.0	78.8	84.0	30.0-160			6.39	24	
Methylene Chloride	5.00	4.63	4.96	92.6	99.2	68.0-123			6.88	20	
icaryicile chionae	5.00	ч.0 <u>5</u>	4.30	JZ.0	JJ.Z	00.0-125			0.00	20	
Ad	CCOUNT:			PR	OJECT:		SDG:			DATE/TIME:	PA
	nsultants - CA				69497		L166838			11/06/23 12:25	10

QUALITY CONTROL SUMMARY

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3992011-1 10/26/23	3 15:59 • (LCSD) R3992011-2	10/26/23 16:18								
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%	
4-Methyl-2-pentanone (MIBK)	25.0	22.7	23.4	90.8	93.6	56.0-143			3.04	20	
Methyl tert-butyl ether	5.00	5.34	5.42	107	108	66.0-132			1.49	20	
Naphthalene	5.00	4.02	4.01	80.4	80.2	59.0-130			0.249	20	
n-Propylbenzene	5.00	4.99	5.13	99.8	103	74.0-126			2.77	20	
Styrene	5.00	4.35	4.55	87.0	91.0	72.0-127			4.49	20	
1,1,1,2-Tetrachloroethane	5.00	4.90	5.00	98.0	100	74.0-129			2.02	20	
1,1,2,2-Tetrachloroethane	5.00	5.23	5.29	105	106	68.0-128			1.14	20	
1,1,2-Trichlorotrifluoroethane	5.00	4.54	4.25	90.8	85.0	61.0-139			6.60	20	
Tetrachloroethene	5.00	5.23	5.27	105	105	70.0-136			0.762	20	
Toluene	5.00	4.90	5.01	98.0	100	75.0-121			2.22	20	
1,2,3-Trichlorobenzene	5.00	4.75	4.69	95.0	93.8	59.0-139			1.27	20	
1,2,4-Trichlorobenzene	5.00	4.70	4.58	94.0	91.6	62.0-137			2.59	20	
1,1,1-Trichloroethane	5.00	5.03	4.74	101	94.8	69.0-126			5.94	20	
1,1,2-Trichloroethane	5.00	5.10	5.35	102	107	78.0-123			4.78	20	
Trichloroethene	5.00	5.11	5.17	102	103	76.0-126			1.17	20	
Trichlorofluoromethane	5.00	5.63	5.74	113	115	61.0-142			1.93	20	
1,2,3-Trichloropropane	5.00	5.74	5.82	115	116	67.0-129			1.38	20	
1,2,4-Trimethylbenzene	5.00	4.80	4.87	96.0	97.4	70.0-126			1.45	20	
1,2,3-Trimethylbenzene	5.00	4.73	4.75	94.6	95.0	74.0-124			0.422	20	
1,3,5-Trimethylbenzene	5.00	4.77	5.04	95.4	101	73.0-127			5.50	20	
Vinyl chloride	5.00	3.97	3.98	79.4	79.6	63.0-134			0.252	20	
Xylenes, Total	15.0	13.9	14.3	92.7	95.3	72.0-127			2.84	20	
(S) Toluene-d8				99.2	99.4	75.0-131					
(S) 4-Bromofluorobenzene				95.5	93.7	67.0-138					
(S) 1,2-Dichloroethane-d4				99.7	96.2	70.0-130					

SDG: L1668387 DATE/TIME: 11/06/23 12:25

PAGE: 11 of 15 Тс

Ss

Cn

Sr

[°]Qc

GI

Â

QUALITY CONTROL SUMMARY L1668387-01

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Method Blank (MB)

Method Blank (MB)					1
(MB) R3990917-1 10/25/23	13:15				Cp
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	ug/l		ug/l	ug/l	Tc
Diesel Range Organics (DRO)	U		66.7	200	
Residual Range Organics (RRO)	U		83.3	250	³ Ss
(S) o-Terphenyl	111			52.0-156	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3990917-2 10/25/23 13:36 • (LCSD) R3990917-3 10/25/23 13:56										
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Diesel Range Organics (DRO)	1500	1250	1370	83.3	91.3	50.0-150			9.16	20
(S) o-Terphenyl				117	131	52.0-156				

DATE/TIME: 11/06/23 12:25 PAGE: 12 of 15 ⁴Cn

Sr

Qc

GI

Â

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
В	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.

PROJECT: 469497 SDG: L1668387 DATE/TIME: 11/06/23 12:25 Τс

Ss

Cn

Sr

Qc

GI

AI

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

SDG: L1668387

Company Name/Address:			Billing Infor	mation:		Í			Ar	nalvsis /	Containe	er / Preserv	vative		Chain of Custody	Page of
AEI Consultants - CA 2500 Camino Diablo Walnut Creek, CA 94597		Payable- Jere nino Diablo reek, CA 9459		Pres Chk		8								ADVANCING SCIENCE		
Report to: Natasha Budimirovic 2010	Suth		Email To: nbudimirovic@aeiconsultants.com						F						12065 Lebanon Rd Mo Submitting a sample via	JLIET, TN unt Juliet, TN 37122 a this chain of custody gment and acceptance of the
Project Description: Yarrow Bag Basin and Marina	yacht	City/State Collected:	KALANDA IUN Please Circle						ICI-B						Pace Terms and Condit	
Basin and Marina Phone: 925-746-6000	Client Project			Lab Project # AEICONWCC		1	-Add HCI	nb HCl	nlAmb-ł	C	hb-HCI					668387 081
Collected by (print): NATABHA BCB INIRCUM				P.O. #			1L-Amb-Add	40mlAr	lica 40n	Amb H	40mlAmb-HCI				Acctnum: AEI Template:T23	
Collected by (signature):	Same D Next Da	Lab MUST Be ay <u>Five</u> Five I ay <u>5 Day</u> y <u>10 Da</u>	Day (Rad Only)	Quote # Date Result	s Needed	No.	- EPHWA	- VPHWA 40mlAmb HCl	NWTPHDX no silica 40mlAmb-HCI-BT	NWTPHGX 40mlAmb HCl	8260ULL 4				Prelogin: P10 PM: 110 - Bria PB:	30836
Packed on Ice N Y Sample ID	Comp/Grab	T	Depth	Date	Time	Cntrs	0	НОГР	NWTP	NWTP	VOCs				Shipped Via: Remarks	Sample # (lab only)
MW-1	grab	GW	-	10-18-23	1305	13			Х	X	X					01
	U	GW			N											
														-		
															Sample Receipt C	hecklist
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	emarks:	u A				1				pH Flow		_ Temp _ Other _		COC Sea COC Sig Bottles Correct	<pre>net/Accurate: arrive intact: bottles used: ent volume sent</pre>	$\begin{array}{c} \begin{array}{c} & & \\ & & \\ \end{array} \\ \begin{array}{c} & & \\ & \\ \end{array} \\ \begin{array}{c} & \\ & \\ & \\ \end{array} \\ \begin{array}{c} & \\ & \\ & \\ \end{array} \\ \begin{array}{c} & \\ & \\ & \\ \end{array} \\ \begin{array}{c} & \\ & \\ & \\ \end{array} \\ \begin{array}{c} & \\ & \\ & \\ \end{array} \\ \begin{array}{c} & \\ & \\ & \\ \end{array} \\ \begin{array}{c} & \\ & \\ & \\ \end{array} \\ \begin{array}{c} & \\ & \\ & \\ \end{array} \\ \begin{array}{c} & \\ & \\ & \\ \end{array} \\ \begin{array}{c} & \\ & \\ & \\ \end{array} \\ \begin{array}{c} & \\ & \\ & \\ \end{array} \\ \begin{array}{c} & \\ & \\ & \\ \end{array} \\ \begin{array}{c} & \\ & \\ & \\ \end{array} \\ \begin{array}{c} & \\ & \\ & \\ \end{array} \\ \begin{array}{c} & \\ & \\ & \\ \end{array} \\ \begin{array}{c} & \\ & \\ & \\ \end{array} \\ \begin{array}{c} & \\ & \\ & \\ \end{array} \\ \begin{array}{c} & \\ & \\ & \\ \end{array} \\ \begin{array}{c} & \\ & \\ & \\ \end{array} \\ \end{array} \\ \begin{array}{c} & \\ & \\ & \\ \end{array} \\ \begin{array}{c} & \\ & \\ & \\ \end{array} \\ \end{array} \\ \begin{array}{c} & \\ & \\ \end{array} \\ \begin{array}{c} & \\ & \\ & \\ \end{array} \\ \end{array} \\ \begin{array}{c} & \\ & \\ \end{array} \\ \end{array} \\ \begin{array}{c} & \\ & \\ \end{array} \\ \end{array} \\ \begin{array}{c} & \\ & \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} & \\ & \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} & \\ & \\ \end{array} \\$
DW - Drinking Water OT - Other	Samples returne UPSFedE	xCourier	Time		ing # ived by: (Sign	ature)				Trip Bla	nk Recei	ved: Yes	-No	VOA Zer Preserv	<u>If Applica</u> o Headspace: ation Correct/C. een <0.5 mR/hr:	hecked: $\downarrow^{Y} \{N}^{N}$
Relinquisted by : (Signature))ate: 10-18-2		125 Sh	ipped	na	Fra	EX			3	HC TB C Bottles	L / MeoH R		vation required by L	
Relinquished by : (Signature)	ſ	Date:	Time	e: Rece	ived by: (Sign	ature)			(Temp: 2	AO=	20	13		action required by c	
Relinquished by : (Signature)	1	Date:	Tim	e: Rede	ived for lab b	y: (Signa	ture)	hII	A	Date:	1912	Time:	9(1)	Hold:		Condition: NCF / OF



Pace Analytical® ANALYTICAL REPORT November 06, 2023

Revised Report

AEI Consultants - CA

Sample Delivery Group: Samples Received: Project Number: Description:

L1671935 10/20/2023 469497 Yarrow Bay Yacht Basin and Marina

Report To:

Natasha Budimirovic 2500 Camino Diablo Walnut Creek, CA 94597

Entire Report Reviewed By:

Buar Ford

Brian Ford Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

ACCOUNT: AEI Consultants - CA PROJECT: 469497

SDG: L1671935

DATE/TIME: 11/06/23 12:25 PAGE: 1 of 11

Тс Ss Cn Sr ʹQc Gl AI Sc

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
MW-1 L1671935-01	5
Qc: Quality Control Summary	6
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	6
GI: Glossary of Terms	8
Al: Accreditations & Locations	9
Sc: Sample Chain of Custody	10

SAMPLE SUMMARY

MW-1 L1671935-01 GW			Collected by Natasha Budimirovic	Collected date/time 10/18/23 13:05	Received date/ 10/20/23 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2162302	1	11/01/23 17:17	11/02/23 01:26	JCH	Mt. Juliet, TN



Ср

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Buar Ford

Brian Ford Project Manager

¹Cp ²Tc ³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al

Sc

Report Revision History

Level II Report - Version 1: 11/03/23 14:06

Project Narrative

revised: updated sample ID to MW-1.

SDG: L1671935 DATE/TIME: 11/06/23 12:25

SAMPLE RESULTS - 01

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l	ug/l		date / time		
Anthracene	0.0282	<u>J T8</u>	0.0190	0.0500	1	11/02/2023 01:26	WG2162302	
Acenaphthene	0.784	<u>T8</u>	0.0190	0.0500	1	11/02/2023 01:26	WG2162302	L
Acenaphthylene	U	<u>T8</u>	0.0171	0.0500	1	11/02/2023 01:26	WG2162302	3
Benzo(a)anthracene	U	<u>T8</u>	0.0203	0.0500	1	11/02/2023 01:26	WG2162302	
Benzo(a)pyrene	U	<u>T8</u>	0.0184	0.0500	1	11/02/2023 01:26	WG2162302	4
Benzo(b)fluoranthene	U	<u>T8</u>	0.0168	0.0500	1	11/02/2023 01:26	WG2162302	
Benzo(g,h,i)perylene	U	<u>T8</u>	0.0184	0.0500	1	11/02/2023 01:26	WG2162302	L
Benzo(k)fluoranthene	U	<u>T8</u>	0.0202	0.0500	1	11/02/2023 01:26	WG2162302	5
Chrysene	U	<u>T8</u>	0.0179	0.0500	1	11/02/2023 01:26	WG2162302	
Dibenz(a,h)anthracene	U	<u>T8</u>	0.0160	0.0500	1	11/02/2023 01:26	WG2162302	le l
Fluoranthene	0.0506	<u>J T8</u>	0.0270	0.100	1	11/02/2023 01:26	WG2162302	
Fluorene	0.0361	<u>J T8</u>	0.0169	0.0500	1	11/02/2023 01:26	WG2162302	L
Indeno(1,2,3-cd)pyrene	U	<u>T8</u>	0.0158	0.0500	1	11/02/2023 01:26	WG2162302	5
Naphthalene	U	<u>T8</u>	0.0917	0.250	1	11/02/2023 01:26	WG2162302	
Phenanthrene	0.167	<u>T8</u>	0.0180	0.0500	1	11/02/2023 01:26	WG2162302	8
Pyrene	0.0336	<u>J T8</u>	0.0169	0.0500	1	11/02/2023 01:26	WG2162302	
1-Methylnaphthalene	U	<u>T8</u>	0.0687	0.250	1	11/02/2023 01:26	WG2162302	L
2-Methylnaphthalene	U	<u>T8</u>	0.0674	0.250	1	11/02/2023 01:26	WG2162302	ç
2-Chloronaphthalene	U	<u>T8</u>	0.0682	0.250	1	11/02/2023 01:26	WG2162302	
(S) Nitrobenzene-d5	82.6			31.0-160		11/02/2023 01:26	WG2162302	
(S) 2-Fluorobiphenyl	82.6			48.0-148		11/02/2023 01:26	WG2162302	
(S) p-Terphenyl-d14	64.2			37.0-146		11/02/2023 01:26	WG2162302	

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

QUALITY CONTROL SUMMARY

L1671935-01

Method Bl	ank (MB)
-----------	----------

Method Blank (MB)				
(MB) R3994699-3 11/01/23	3 23:22			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Anthracene	U		0.0190	0.0500
Acenaphthene	U		0.0190	0.0500
Acenaphthylene	U		0.0171	0.0500
Benzo(a)anthracene	U		0.0203	0.0500
Benzo(a)pyrene	U		0.0184	0.0500
Benzo(b)fluoranthene	U		0.0168	0.0500
Benzo(g,h,i)perylene	U		0.0184	0.0500
Benzo(k)fluoranthene	U		0.0202	0.0500
Chrysene	U		0.0179	0.0500
Dibenz(a,h)anthracene	U		0.0160	0.0500
Fluoranthene	U		0.0270	0.100
Fluorene	U		0.0169	0.0500
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500
Naphthalene	U		0.0917	0.250
Phenanthrene	U		0.0180	0.0500
Pyrene	U		0.0169	0.0500
1-Methylnaphthalene	U		0.0687	0.250
2-Methylnaphthalene	U		0.0674	0.250
2-Chloronaphthalene	U		0.0682	0.250
(S) Nitrobenzene-d5	76.0			31.0-160
(S) 2-Fluorobiphenyl	79.5			48.0-148
(S) p-Terphenyl-d14	75.0			37.0-146

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
alyte	ug/l	ug/l	ug/l	%	%	%			%	%
thracene	2.00	1.56	1.49	78.0	74.5	67.0-150			4.59	20
enaphthene	2.00	1.58	1.54	79.0	77.0	65.0-138			2.56	20
enaphthylene	2.00	1.64	1.59	82.0	79.5	66.0-140			3.10	20
zo(a)anthracene	2.00	1.65	1.61	82.5	80.5	61.0-140			2.45	20
zo(a)pyrene	2.00	1.59	1.57	79.5	78.5	60.0-143			1.27	20
b)fluoranthene	2.00	1.59	1.55	79.5	77.5	58.0-141			2.55	20
g,h,i)perylene	2.00	1.46	1.47	73.0	73.5	52.0-153			0.683	20
k)fluoranthene	2.00	1.51	1.49	75.5	74.5	58.0-148			1.33	20
ne	2.00	1.65	1.61	82.5	80.5	64.0-144			2.45	20
z(a,h)anthracene	2.00	1.43	1.41	71.5	70.5	52.0-155			1.41	20
anthene	2.00	1.70	1.63	85.0	81.5	69.0-153			4.20	20

ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
AEI Consultants - CA	469497	L1671935	11/06/23 12:25	6 of 11

QUALITY CONTROL SUMMARY

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Fluorene	2.00	1.70	1.64	85.0	82.0	64.0-136			3.59	20
Indeno(1,2,3-cd)pyrene	2.00	1.51	1.52	75.5	76.0	54.0-153			0.660	20
Naphthalene	2.00	1.68	1.61	84.0	80.5	61.0-137			4.26	20
Phenanthrene	2.00	1.61	1.58	80.5	79.0	62.0-137			1.88	20
Pyrene	2.00	1.67	1.64	83.5	82.0	60.0-142			1.81	20
1-Methylnaphthalene	2.00	1.67	1.61	83.5	80.5	66.0-142			3.66	20
2-Methylnaphthalene	2.00	1.73	1.67	86.5	83.5	62.0-136			3.53	20
2-Chloronaphthalene	2.00	1.65	1.61	82.5	80.5	64.0-140			2.45	20
(S) Nitrobenzene-d5				80.5	76.0	31.0-160				
(S) 2-Fluorobiphenyl				80.0	80.0	48.0-148				
(S) p-Terphenyl-d14				73.5	72.0	37.0-146				

DATE/TIME: 11/06/23 12:25

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
Qualifier	Description

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
Т8	Sample(s) received past/too close to holding time expiration.

PROJECT: 469497 SDG: L1671935 DATE/TIME: 11/06/23 12:25

Τс

Ss

Cn

Sr

Qc

GI

AI

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ¹⁴	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

SDG: L1671935

Company Name/Address:		le le	Billing Info	rmation:		T			A	nalvsis /	Contain	er / Pri	eservative	1	Chain of	Custody	Page of	
AEI Consultants - CA 2500 Camino Diablo Walnut Creek, CA 94597			2500 Ca	s Payable- Jer mino Diablo Creek, CA 945		Pres Chk		Alternational Action	a start						- [Pa	CC"	
Report to:	an statie			nbudimirovic@ae					1.19				278	SER NO	AVALUES OF SHERE A SUMPLY AND A SUMPLY AND		LIET, TN nt Juliet, TN 37122	
Natasha Budimirovic 2010	Smith	Ten desid		theaeicons					81		14		10		Submitting : constitutes	a sample via t	this chain of custody nent and acceptance of the	
Project Description: Yarrow Bag Basin and Marina	Jacot	Collected:	Kirkla	ind, wA	Please C	CT ET	U		HC.				and an	100 A	https://info terms.pdf	pacelabs.con	m/hubfs/pas-standard-	
Phone: 925-746-6000	Client Project	1#	L	Lab Project # AEICONWC	CA-KIRKFED	EX	1L-Amb-Add HCI	nb HCI	-dmAln	0	40mlAmb-HCl				SDG #		68387 081	10/31
Collected by (print):	Site/Facility	ID#		P.O. #		7	dm	IAn	40m	P H G	IAm		The second			40	ONWECA	
NATASHA BUS IN ROLL Collected by (signature):				Quote #		1	1-P	40n	lica	Am	E O U		100		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	m: AEIC		
Immediately Packed on Ice N Y		ay 10 C		Date Resu	ts Needed	No.	- EPHWA	- VPHWA 40mlAmb HCI	NWTPHDX no silica 40mlAmb-HCI-BT	NWTPHGX 40mlAmb HCI	B260ULL 4				Prelogi	n: P10 3 0 - Brian	30836	
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	HOLD	HOLD	NWTP	NWTP	VOCs E		AL		Shippe Re	d Via: marks	Sample # (lab only)	
MW-1	grab	GW	1-	10-18-23	1305	13			X	X	X					- 6. 	-ot	-0
	0	GW					E Star		and the second		and the second			No.				
							No. of Concession, Name		and the second		R. C.							
	and the second second		a for the second				R. R. M.		14.7 B.			×					and a state of the second s	
	The second						E.C.		a the		13000			1	Anna an Angela	iki ind		
	- A. 7				in an		1		C. S. MAL	a San a	a the second	in saider The						
			1. 1. 1945 - 1. 1.			1	TENS		Lange,								State of the second sec	
	15月15日				1.1.1	11	1995				1000					4		
								-	and a	1	1 1 1 1		No. of Concession, Name	The second			and the second second	-/
	2	1				1					T-W-R		1				1 /	4
* Matrix: R SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	emarks:					No.				pH Flow		_ Ten _ Oth		COC S Bottle Corre	Sample Rec cal Present/ igned/Accura es arrive in ct bottles u	Intact ite: itact: ised:		N N N N
DW - Drinking Water S OT - Other	Samples returne UPSFedE			Track	ing #							-		VOA Z	cient volume <u>If A</u> ero Headspac rvation Corr	oplicab :e:	<u>le</u>	N
Relinquisted by : (Signature)	0	^{Date:} 10-18-2	-3 14		ved by: (Signa	ture) Na	For	Ex		Trip Blai	nk Recei	(HCL/MeoH TBR	RAD S	creen <0.5 m	PR/hr:	+*-	N
Relinquished by : (Signature)	C	Date:	Time	e: Rece	ved by: (Signa	iture)			1	Temp: Zil	AU-	C 60 20	ttles Received:	and a state	ervation requir	ed by Lo	ogin: Date/Time	
Relinquished by : (Signature)	C	Date:	Tim	Rede	ved for lab by	NSigna	(ure)	MIN	M	Pater	ab	Tir 3	$\frac{1}{1}$	Hold:			NCF / OF	

L1668387 AEICONWCCA re-log

R2/R3/R4/RX/EX

Please re-log for PAHSIMLVI. add comment "use HCl VOAs, adjust pH as needed". will be analyzed out

Time estimate: oh Members BF Brian Ford	ļ	Time spent: oh		
			an a	