



UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

UPDES General Permit For Treated Ground Water

NOI

Notice of Intent (NOI)
 for Coverage Under the
 UPDES General Permit for Treat Ground Water
 UPDES Permit No. UTG790000

Submission of this Notice of Intent constitutes notice that the party identified in Part II. of this form intends to be authorized by UPDES General Permit No. UTG790000, issued for discharges of treated ground water to surface waters in the State of Utah. Coverage of this permit obligates such dischargers to comply with the terms and conditions of the permit.

PLEASE PROVIDE ALL REQUIRED INFORMATION

You must print or type legibly; forms that are not legible, incomplete, or unsigned will be returned. You must maintain a copy of the completed NOI form for your records.

PART I. (NOTE: THIS SECTION FOR DIVISION OF WATER QUALITY USE ONLY. Skip to Part II.)

THIS SECTION FOR DIVISION OF WATER QUALITY USE ONLY

Coverage Number: UTG79- 0089
COVERAGE DATES: 1 / 25 /20 22 **TO** 1 / 25 /20 23
RECEIVING WATER: Great Salt Lake via 400 N Drain **CLASSIFICATION:** Category 3

EFFLUENT LIMITATIONS BASED ON PERMIT Part I.D Part I.E

ADDITIONAL MONITORING AND/OR EFFLUENT LIMITATIONS: arsenic

DIVISION PERMIT OF COVERAGE ISSUANCE:

DATE: 1 / 25 / 20 22 **SIGNATURE:** *Kelsee York*

Once coverage is assigned discharge monitoring reports will be generated and provided to the operator.

PART II. CONTACT INFORMATION (used for permit correspondence)

Organization Name: _____
Contact Name: _____ **Title:** _____
Phone Number: _____ **Email:** _____
Mailing Address: Street (PO Box): _____
 City: _____ State: _____ Zip: _____
Owner/Manager Name: _____
Phone Number: _____ **Email:** _____
Legal Status of Owner/Operator: _____



NOI
UPDES General Permit For
Treated Ground Water

PART III. PROJECT SITE LOCATION

Project Lead Name: _____ Project Lead Phone: _____

Project Site Name: _____

Project Street/Location: _____

City: _____ County: _____ State: UTAH Zip: _____

Project Site Phone: _____

Project latitude and longitude location in **degree decimal**.

Latitude _____ Longitude _____

PART IV. PROJECT DESCRIPTION

Description of cleanup site, including a description of the source(s) of contamination and the extent of contamination and any additional contamination anticipated in the local ground water from other possible sources:

PART V. MAP

Attach a topographical map of the area extending to at least 1 mile beyond the property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its waste treatment, storage, or disposal facilities, and discharge locations. Include all springs, rivers, and other surface water bodies in the map.

Map Attached

PART VI. PROJECT DATES

Filing your permit will grant you one year of coverage from the filing date regardless of the project duration outlined below. If you project ends early, you must file a Notice of Termination (NOT).

Project Start Date: _____ / _____ /20 _____

Project Completion Date: _____ / _____ /20 _____

Notes:



**NOI
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 Treated Ground Water**

PART VII. DISCHARGE LOCATION(S)

List the Latitude and Longitude of the Discharge Point(s) in **degree decimal** with the Receiving Water.

Outfall No.	Latitude	Longitude	Receiving Surface Waters (Name)

Are any of the discharge points located in the Colorado River Basin? Yes No

Does the receiving water designated uses include Class 1C drinking water as defined by R317-2-13? Yes No
Class 1C waters are “Protected for domestic purposes with prior treatment by treatment processes as required by the Utah Division of Drinking Water”.

Is the project located on tribal lands? Yes No

If the facility is located on Tribal Lands the permittee must contact EPA Region VIII except for facilities on the Navajo Reservation or the Goshute Reservation, for which the permittee must contact EPA Region IX.

Does the discharge flow into a storm drain before entering the receiving water body? Yes No

Be Advised: Discharges to storm drains must be approved by the storm drain authority/owner.

Description of Discharge location and conveyance system to live water:

PART VIII. INFLUENT AND EFFLUENT CONCENTRATIONS

Complete attached **Table A** and list any additional pollutants (not included in Table A) with influent and/or effluent concentrations here:



NOI UPDES General Permit For Treated Ground Water

PART VIII. INFLUENT AND EFFLUENT CONCENTRATIONS *continued*

Discharge **IS** to Class 1C Water:

1. In addition to completing Table A, influent sampling including total toxic organics (TTO results must be attached. See attached Table B for list of TTO constituents. No permits for discharge to Class 1C Waters will be issued prior to influent sampling being conducted and results received.
2. An analysis of alternative disposal methods of the treated ground water must be attached. This analysis must include an economic comparison of the alternative disposal methods. If no other disposal methods are feasible the analysis must demonstrated the consideration of other methods such as trucking and/or discharge to a treatment facility.
3. If the project will last longer than one year DWQ may require Level II Antidegradation review be conducted. Please contact DWQ Staff for further information.

Discharge is **NOT** to Class 1C Water:

1. In addition to completing Table A, influent sampling including total toxic organics **OR** a report documenting why influent sampling is not needed for this project and an estimation of anticipated influent constituents concentrations.
2. In accordance with *Part I.E.* the permittee may petition Total Petroleum Hydrocarbon (TPH-GRO and TPH-DRO) analyses may be substituted for the TTO analyses. If approved Maximum Daily Effluent Limitations of 1.0 mg/LTPH-GRO and TPH-DRO will be substituted for the TTO effluent limitation.

PART IX. DESCRIPTION OF TREATMENT SYSTEM

Description of the current or proposed treatment system, including discharge flow rate (attach a flow diagram):

FLOW DIAGRAM ATTACHED

PART X. CERTIFICATION AND SIGNATURE

I certify under penalty of law that this submission was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those person(s) directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitted false information, including the possibility of fine and imprisonment for knowing violations. I further certify that the applicant has sufficient title, right or interest in the property where the proposed activity occurs.

Andrew Dillman

PRINT Signatory
Authority

Signature

Title

Date



NOI UPDES General Permit For Treated Ground Water

PART XI. ADDITIONAL APPLICATIONS AND APPROVALS

1. You may need to file for a temporary application to appropriate water rights from the Division of Water Rights. Call 801.583.7240 for more information.
2. You may need to obtain approval from the Division of Air Quality if any air stripping equipment is to be employed at the cleanup site. Call 801.536.4000 for more information.

The Division of Water Quality may request addition information.

Important:

The UPDES Permit Application, must be signed as follows: (Refer to *Part IV.G. Signatory Requirements*, of the General Permit.)

- 1) For a corporation, a responsible corporate officer shall sign the NOT, a responsible corporate officer means:
 - a. A President, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or
 - b. The manager of one or more manufacturing, production, or operating facilities, if
 - i. The manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental statutes and regulations;
 - ii. The manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and
 - iii. Authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- 2) For a partnership of sole proprietorship, the general partner or the proprietor, respectively; or
- 3) For a municipality, state or other public agency, either a principal executive officer or ranking elected official shall sign the application; in this subsection, a principal executive officer of any agency means:
 - a. The chief executive officer of the agency; or
 - b. A senior executive officer having responsibility for the overall operations of a principal geographic unit or division of the agency.

Where to File the UPDES Permit Application form:

Please submit the original form with signature via the DWQ Electronic Documents Submission Portal:

<https://deq.utah.gov/water-quality/water-quality-electronic-submissions>

You can also send by mail or hand deliver to the below address. Remember to retain a copy for your records.

**Division of Water Quality
Department of Environmental Quality
195 North 1950 West
PO Box 144870
Salt Lake City, UT 84114-4870**



TABLE A

Analysis of Treatment System Influent and Effluent

You must report concentrations for each pollutant listed. Please refer to Part I.D. and Part I.E. of the permit or NOI to determine if actual influent values are required or if estimated values will be accepted.

Are influent values: **Estimated** Or **Actual**
 Are effluent values: **Estimated** Or **Actual**

Parameters	Influent			Effluent		
	Avg (mg/L)	Max (mg/L)	Number of Samples	Avg (mg/L)	Max (mg/L)	Number of Samples
pH (range in standard units)						
Total Suspended Solids						
Total Dissolved Solids						
Total Lead						
Oil & Grease						
Benzene						
Toluene						
Ethylbenzene						
Xylenes						
Naphthalene						
MTBE						
TTO's * (attach full list if required)						

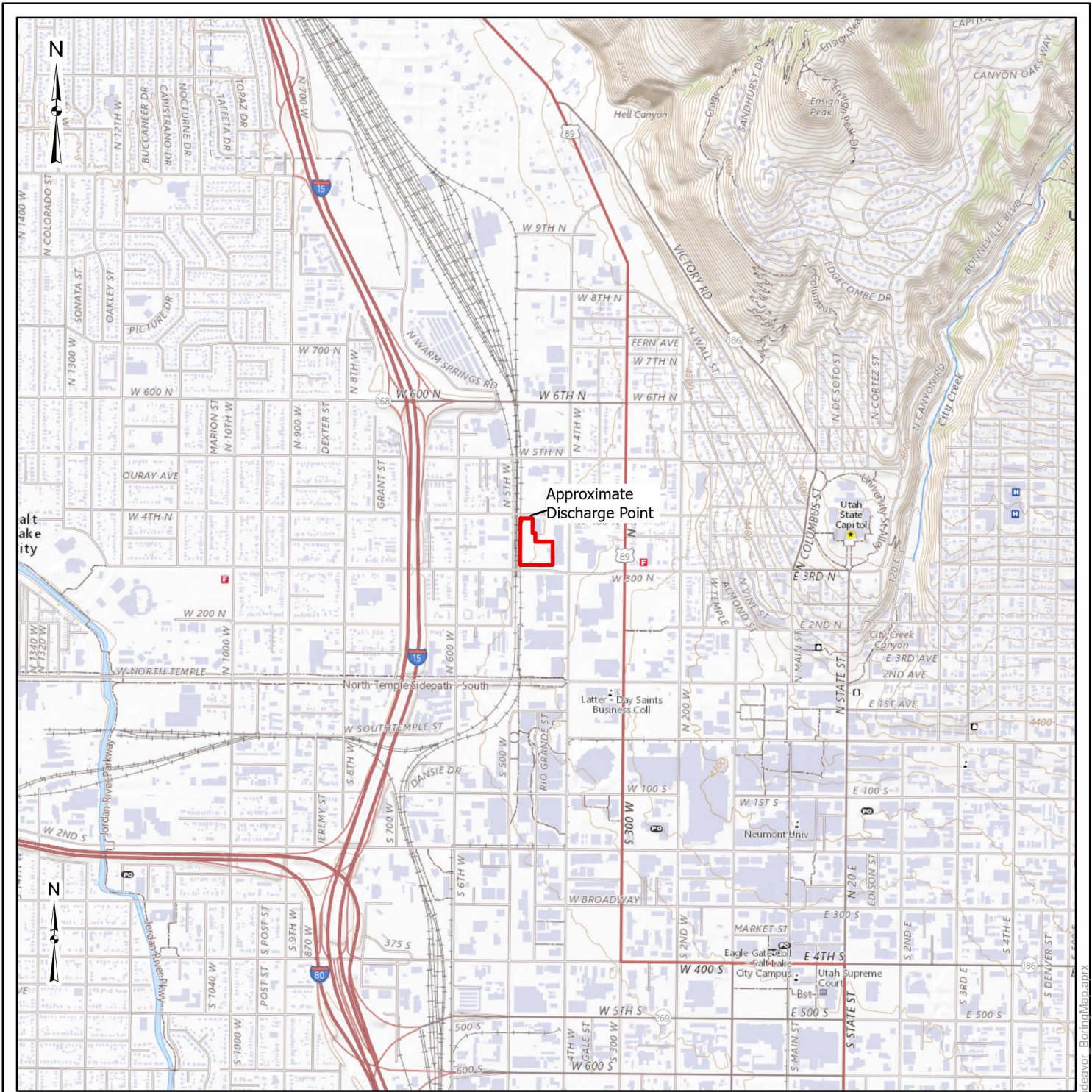
* The permittee must analyze for all the priority toxic organics (See Table A) likely to be present in concentrations greater than 0.01 mg/L. Attach the complete TTO analysis indicating parameters sampled and their reported concentrations.



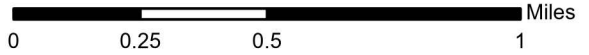
TABLE B
Total Toxic Organic List

(These are the parameters that shall be analyzed for initially determining the total toxic organic (TTO) concentration of the wastewater)

Acrolein	Phenol	Hexachlorocyclopentadiene
Acrylonitrile	2,4,6-Trichlorophenol	Hexachloroethane
Benzene	Acenaphthene	Indeno(1,2,3-Cd)Pyrene
Bromoform	Acenaphthylene	Isophorone
Carbon Tetrachloride	Anthracene	Napthalene
Chlorobenzene	Benzidine	Nitrobenzene
Chlorodibromomethane	Benzo(A)Anthracene	N-Nitrosodimethylamine
Chloroethane	Benzo(A)Pyrene	N-Nitrosodi-N-Propylamine
2-Chloroethylvinyl Ether	3,4-Benzofluoranthene	N-Nitrosodiphenylamine
Chloroform	Benzo(Ghi)Perylene	Phenanthrene
Dichlorobromomethane	Benzo(K)Fluoranthene	Pyrene
1,1-Dichloroethane	Bis(2-Chloroethoxy)Methane	1,2,4-Trichlorobenzene
1,2-Dichloroethane	Bis(2-Chloroethyl)Ether	Aldrin
1,1-Dichloroethylene	Bis(2-Chloroisopropyl)Ether	Alpha-Bhc
1,2-Dichloropropane	Bis (2-Ethylhexyl)Phthalate	Beta-Bhc
1,3-Dichloropropylene	4-Bromophenyl Phenyl Ether	Gamma-Bhc
Ethylbenzene	Butylbenzyl Phthalate	Delta-Bhc
Methyl Bromide	2-Chloronaphthalene	Chlordane
Methyl Chloride	Ether	4,4'-Ddt
Methylene Chloride	4-Chlorophenyl Phenyl	4,4'-Dde
1,1,2,2-Tetrachloroethane	Chrysene	4,4'-Ddd
Tetrachloroethylene	Dibenzo(A,H)Anthracene	Dieldrin
Toluene	1,2-Dichlorobenzene	Alpha-Endosulfan
1,2-Cis,Trans- Dichloroethylene	1,3-Dichlorobenzene	Beta-Endosulfan
1,1,1-Trichloroethane	1,4-Dichlorobenzene	Endosulfan Sulfate
1,1,2-Trichloroethane	3,3'-Dichlorobenzidine	Endrin
Trichloroethylene	Diethyl Phthalate	Endrin Aldehyde
Vinyl Chloride	Dimethyl Phthalate	Heptachlor
2-Chlorophenol	Di-N-Butyl Phthalate	Heptachlor Epoxide
2,4-Dichlorophenol	2,4-Dinitrotoluene	Pcb-1242
2,4-Dimethylphenol	2,6-Dinitrotoluene	Pcb-1254
4,6-Dinitro-O-Cresol	Di-N-Octyl Phthalate	Pcb-1221
2,4-Dinitrophenol	1,2-Diphenylhydrazine (As Azobenzene)	Pcb-1232
2-Nitrophenol	Fluoranthene	Pcb-1248
4-Nitrophenol	Fluorene	Pcb-1260
P-Chloro-M-Cresol	Hexachlorobenzene	Pcb-1016
Pentachlorophenol	Hexachlorobutadiene	Toxaphene



Approximate Site Boundary



DATA SOURCES:
 ESRI WMS - © OpenStreetMap (and) contributors, CC-BY-SA, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S. Department of State Humanitarian Information Unit; and NOAA National Centers for Environmental Information, U.S. Coastal Relief Model. Data refreshed August, 2021.

Project No.:	61197591
Date:	Dec 2021
Drawn By:	AST
Reviewed By:	ARK



6949 S High Tech Dr, Ste 100 Midvale, UT 84047
 PH. (801) 545-8500 terracon.com




Topographic Site Overview

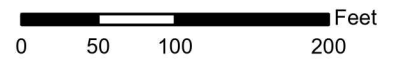
Proposed Apartments
 Endeavor Real Estate Group
 430 West 300 North, Salt Lake City, Utah

Exhibit

1



-  Groundwater Sample Location
-  Excavation and Dewatering Area
-  Approximate Site Boundary



DATA SOURCES:
ESRI WMS - World Aerial Imagery, OpenStreetMap

Project No.:	P61197591
Date:	Dec 2021
Drawn By:	AST
Reviewed By:	ARK



6949 S High Tech Dr, Ste 100 Midvale, UT 84047
PH. (801) 545-8500 terracon.com

Groundwater Sample Collection Location

Proposed Apartments
Endeavor Real Estate Group
430 West 300 North, Salt Lake City, Utah

Exhibit

2



Andrew Turner
Terracon Consultants, Inc.
6949 S High Tech Drive, Suite 100
Midvale, UT 84047
TEL: (801) 545-8500

RE: Endeavor / 61197591

Dear Andrew Turner:

Lab Set ID: 2112470

3440 South 700 West
Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 12/17/2021 for the analyses presented in the following report.

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com
web: www.awal-labs.com

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by: _____
Laboratory Director or designee



INORGANIC ANALYTICAL REPORT

Client: Terracon Consultants, Inc. **Contact:** Andrew Turner
Project: Endeavor / 61197591
Lab Sample ID: 2112470-001
Client Sample ID: Outflow-1
Collection Date: 12/17/2021 935h
Received Date: 12/17/2021 1012h

Analytical Results

DISSOLVED METALS

3440 South 700 West
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	12/17/2021 1308h	12/18/2021 054h	SW6020B	0.00400	0.00785	
Lead	mg/L	12/17/2021 1308h	12/18/2021 054h	SW6020B	0.00200	< 0.00200	

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web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Terracon Consultants, Inc. **Contact:** Andrew Turner
Project: Endeavor / 61197591
Lab Sample ID: 2112470-001
Client Sample ID: Outflow-1
Collection Date: 12/17/2021 935h
Received Date: 12/17/2021 1012h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Oil & Grease	mg/L		12/17/2021 2100h	E1664B	5.00	< 5.00	
pH @ 25° C	pH Units		12/17/2021 1700h	SM4500-H+B	1.00	11.1	
Total Dissolved Solids	mg/L		12/17/2021 1220h	SM2540C	50.0	990	
Total Suspended Solids	mg/L		12/17/2021 1300h	SM2540D	3.75	57.5	@

@ - High RPD due to suspected sample non-homogeneity or matrix interference.

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Salt Lake City, UT 84119

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web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Terracon Consultants, Inc.
Project: Endeavor / 61197591
Lab Sample ID: 2112470-001D
Client Sample ID: Outflow-1
Collection Date: 12/17/2021 935h
Received Date: 12/17/2021 1012h

Contact: Andrew Turner

Test Code: 8260D-W-PPM

Analytical Results

VOAs MBTEXN List by GC/MS Method 8260D/5030C

Analyzed: 12/17/2021 1324h **Extracted:**
Units: mg/L **Dilution Factor:** 1 **Method:** SW8260D

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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.00100	< 0.00100	
Ethylbenzene	100-41-4	0.00200	< 0.00200	
Methyl tert-butyl ether	1634-04-4	0.00200	< 0.00200	
Naphthalene	91-20-3	0.00200	< 0.00200	
Toluene	108-88-3	0.00200	< 0.00200	
Xylenes, Total	1330-20-7	0.00200	< 0.00200	

Surrogate	Units: mg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	0.0499	0.05000	99.9	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	0.0502	0.05000	100	85-121	
Surr: Dibromofluoromethane		1868-53-7	0.0486	0.05000	97.3	78-132	
Surr: Toluene-d8		2037-26-5	0.0489	0.05000	97.8	81-123	



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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Terracon Consultants, Inc.
Lab Set ID: 2112470
Project: Endeavor / 61197591

Contact: Andrew Turner
Dept: ME
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-81350	Date Analyzed:	12/18/2021 050h											
Test Code: 6020B-DIS	Date Prepared:	12/17/2021 1308h											
Arsenic	0.198	mg/L	SW6020B	0.00103	0.00400	0.2000	0	99.0	85 - 115				
Lead	0.196	mg/L	SW6020B	0.00146	0.00200	0.2000	0	97.8	85 - 115				



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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Terracon Consultants, Inc.
Lab Set ID: 2112470
Project: Endeavor / 61197591

Contact: Andrew Turner
Dept: ME
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-81350	Date Analyzed:	12/18/2021	046h										
Test Code: 6020B-DIS	Date Prepared:	12/17/2021	1308h										
Arsenic	< 0.00400	mg/L	SW6020B	0.00103	0.00400								
Lead	< 0.00200	mg/L	SW6020B	0.00146	0.00200								
Lab Sample ID: MB-FILTER-81329	Date Analyzed:	12/18/2021	114h										
Test Code: 6020B-DIS	Date Prepared:	12/17/2021	1308h										
Arsenic	< 0.00400	mg/L	SW6020B	0.00103	0.00400								
Lead	< 0.00200	mg/L	SW6020B	0.00146	0.00200								



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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Terracon Consultants, Inc.
Lab Set ID: 2112470
Project: Endeavor / 61197591

Contact: Andrew Turner
Dept: ME
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2112470-001BMS	Date Analyzed:	12/18/2021	106h										
Test Code: 6020B-DIS	Date Prepared:	12/17/2021	1308h										
Arsenic	0.213	mg/L	SW6020B	0.00103	0.00400	0.2000	0.00785	103	75 - 125				
Lead	0.196	mg/L	SW6020B	0.00146	0.00200	0.2000	0	98.1	75 - 125				



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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Terracon Consultants, Inc.
Lab Set ID: 2112470
Project: Endeavor / 61197591

Contact: Andrew Turner
Dept: ME
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2112470-001BMSD	Date Analyzed:	12/18/2021	110h										
Test Code:	6020B-DIS	Date Prepared:	12/17/2021	1308h									
Arsenic	0.213	mg/L	SW6020B	0.00103	0.00400	0.2000	0.00785	102	75 - 125	0.213	0.288	20	
Lead	0.196	mg/L	SW6020B	0.00146	0.00200	0.2000	0	97.9	75 - 125	0.196	0.149	20	



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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Terracon Consultants, Inc.
Lab Set ID: 2112470
Project: Endeavor / 61197591

Contact: Andrew Turner
Dept: WC
QC Type: DUP

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2112470-001ADUP Date Analyzed: 12/17/2021 1700h													
Test Code: PH-4500H+B													
pH @ 25° C	11.2	pH Units	SM4500-H+B	1.00	1.00					11.1	0.538	5	
Lab Sample ID: 2112423-001BDUP Date Analyzed: 12/17/2021 1220h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	2,160	mg/L	SM2540C	16.0	20.0					2140	0.743	5	
Lab Sample ID: 2112470-001ADUP Date Analyzed: 12/17/2021 1300h													
Test Code: TSS-W-2540D													
Total Suspended Solids	53.5	mg/L	SM2540D	1.41	3.75					57.5	7.21	5	@
Lab Sample ID: 2112440-002ADUP Date Analyzed: 12/17/2021 1300h													
Test Code: TSS-W-2540D													
Total Suspended Solids	17.6	mg/L	SM2540D	1.13	3.00					14	22.8	5	#

- High RPD due to low analyte concentration. In this range, high RPDs are expected.

@ - High RPD due to suspected sample non-homogeneity or matrix interference.



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QC SUMMARY REPORT

Client: Terracon Consultants, Inc.
Lab Set ID: 2112470
Project: Endeavor / 61197591

Contact: Andrew Turner
Dept: WC
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-R160303 Date Analyzed: 12/17/2021 2100h													
Test Code: OGB-W-1664B													
Oil & Grease	36.8	mg/L	E1664B	3.40	5.00	40.00	0	92.0	78 - 114				
Lab Sample ID: LCS-R160294 Date Analyzed: 12/17/2021 1700h													
Test Code: PH-4500H+B													
pH @ 25° C	8.97	pH Units	SM4500-H+B	1.00	1.00	9.000	0	99.7	98 - 102				
Lab Sample ID: LCS-R160333 Date Analyzed: 12/17/2021 1220h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	214	mg/L	SM2540C	8.00	10.0	205.0	0	104	80 - 120				



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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Terracon Consultants, Inc.
Lab Set ID: 2112470
Project: Endeavor / 61197591

Contact: Andrew Turner
Dept: WC
QC Type: LCSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCSD-R160336	Date Analyzed: 12/17/2021 1300h												
Test Code: TSS-W-2540D													
Total Suspended Solids	103	mg/L	SM2540D	2.82	7.50	100.0	0	103	80 - 120	0			



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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Terracon Consultants, Inc.
Lab Set ID: 2112470
Project: Endeavor / 61197591

Contact: Andrew Turner
Dept: WC
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-R160303													
Date Analyzed: 12/17/2021 2100h													
Test Code: OGB-W-1664B													
Oil & Grease	< 5.00	mg/L	E1664B	3.40	5.00								
Lab Sample ID: MB-R160333													
Date Analyzed: 12/17/2021 1220h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	8.00	10.0								
Lab Sample ID: MB-R160336													
Date Analyzed: 12/17/2021 1300h													
Test Code: TSS-W-2540D													
Total Suspended Solids	< 3.00	mg/L	SM2540D	1.13	3.00								



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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Terracon Consultants, Inc.
Lab Set ID: 2112470
Project: Endeavor / 61197591

Contact: Andrew Turner
Dept: WC
QC Type: QCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: QCS-R160303	Date Analyzed: 12/17/2021 2100h												
Test Code: OGB-W-1664B													
Oil & Grease	36.5	mg/L	E1664B	3.40	5.00	40.00	0	91.2	78 - 114				



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Jennifer Osborn
 Laboratory Director

Jose Rocha
 QA Officer

QC SUMMARY REPORT

Client: Terracon Consultants, Inc.
Lab Set ID: 2112470
Project: Endeavor / 61197591

Contact: Andrew Turner
Dept: WC
QC Type: QCSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: QCSD-R160303	Date Analyzed: 12/17/2021 2100h												
Test Code: OGB-W-1664B													
Oil & Grease	35.0	mg/L	E1664B	3.40	5.00	40.00	0	87.5	78 - 114	36.5	4.20	18	



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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Terracon Consultants, Inc.
Lab Set ID: 2112470
Project: Endeavor / 61197591

Contact: Andrew Turner
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-1 121721A	Date Analyzed: 12/17/2021 1110h												
Test Code: 8260D-W-PPM													
Benzene	0.0193	mg/L	SW8260D	0.000147	0.00100	0.02000	0	96.5	78 - 125				
Ethylbenzene	0.0212	mg/L	SW8260D	0.000164	0.00200	0.02000	0	106	67 - 130				
Methyl tert-butyl ether	0.0217	mg/L	SW8260D	0.00126	0.00200	0.02000	0	108	58 - 135				
Naphthalene	0.0172	mg/L	SW8260D	0.000730	0.00200	0.02000	0	86.0	55 - 128				
Toluene	0.0201	mg/L	SW8260D	0.000277	0.00200	0.02000	0	101	69 - 129				
Xylenes, Total	0.0627	mg/L	SW8260D	0.000746	0.00200	0.06000	0	104	69 - 142				
Surr: 1,2-Dichloroethane-d4	0.0504	mg/L	SW8260D			0.05000		101	80 - 136				
Surr: 4-Bromofluorobenzene	0.0470	mg/L	SW8260D			0.05000		94.1	85 - 121				
Surr: Dibromofluoromethane	0.0490	mg/L	SW8260D			0.05000		98.1	78 - 132				
Surr: Toluene-d8	0.0488	mg/L	SW8260D			0.05000		97.5	81 - 123				



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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Terracon Consultants, Inc.
Lab Set ID: 2112470
Project: Endeavor / 61197591

Contact: Andrew Turner
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-1 121721A	Date Analyzed:	12/17/2021	643h										
Test Code:	8260D-W-PPM												
Benzene	< 0.00100	mg/L	SW8260D	0.000147	0.00100								
Ethylbenzene	< 0.00200	mg/L	SW8260D	0.000164	0.00200								
Methyl tert-butyl ether	< 0.00200	mg/L	SW8260D	0.00126	0.00200								
Naphthalene	< 0.00200	mg/L	SW8260D	0.000730	0.00200								
Toluene	< 0.00200	mg/L	SW8260D	0.000277	0.00200								
Xylenes, Total	< 0.00200	mg/L	SW8260D	0.000746	0.00200								
Surr: 1,2-Dichloroethane-d4	0.0502	mg/L	SW8260D			0.05000		100	80 - 136				
Surr: 4-Bromofluorobenzene	0.0502	mg/L	SW8260D			0.05000		100	85 - 121				
Surr: Dibromofluoromethane	0.0484	mg/L	SW8260D			0.05000		96.9	78 - 132				
Surr: Toluene-d8	0.0486	mg/L	SW8260D			0.05000		97.2	81 - 123				



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QC SUMMARY REPORT

Client: Terracon Consultants, Inc.
Lab Set ID: 2112470
Project: Endeavor / 61197591

Contact: Andrew Turner
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2112423-003DMS	Date Analyzed:		12/17/2021 932h										
Test Code: 8260D-W-PPM													
Benzene	1.91	mg/L	SW8260D	0.0147	0.100	2.000	0	95.5	78 - 125				
Ethylbenzene	2.08	mg/L	SW8260D	0.0164	0.200	2.000	0	104	67 - 130				
Methyl tert-butyl ether	1.98	mg/L	SW8260D	0.126	0.200	2.000	0	98.8	58 - 135				
Naphthalene	1.60	mg/L	SW8260D	0.0730	0.200	2.000	0	79.8	55 - 128				
Toluene	1.97	mg/L	SW8260D	0.0277	0.200	2.000	0	98.6	69 - 129				
Xylenes, Total	6.18	mg/L	SW8260D	0.0746	0.200	6.000	0	103	69 - 142				
Surr: 1,2-Dichloroethane-d4	4.99	mg/L	SW8260D			5.000		99.9	80 - 136				
Surr: 4-Bromofluorobenzene	4.79	mg/L	SW8260D			5.000		95.8	85 - 121				
Surr: Dibromofluoromethane	4.85	mg/L	SW8260D			5.000		97.0	78 - 132				
Surr: Toluene-d8	4.79	mg/L	SW8260D			5.000		95.8	81 - 123				



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Laboratory Director

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QC SUMMARY REPORT

Client: Terracon Consultants, Inc.
Lab Set ID: 2112470
Project: Endeavor / 61197591

Contact: Andrew Turner
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2112423-003DMSD	Date Analyzed: 12/17/2021 952h												
Test Code: 8260D-W-PPM													
Benzene	2.36	mg/L	SW8260D	0.0147	0.100	2.000	0	118	78 - 125	1.91	21.2	35	
Ethylbenzene	2.52	mg/L	SW8260D	0.0164	0.200	2.000	0	126	67 - 130	2.08	19.2	35	
Methyl tert-butyl ether	2.49	mg/L	SW8260D	0.126	0.200	2.000	0	124	58 - 135	1.98	22.9	35	
Naphthalene	2.04	mg/L	SW8260D	0.0730	0.200	2.000	0	102	55 - 128	1.6	24.4	35	
Toluene	2.41	mg/L	SW8260D	0.0277	0.200	2.000	0	121	69 - 129	1.97	20.1	35	
Xylenes, Total	7.51	mg/L	SW8260D	0.0746	0.200	6.000	0	125	69 - 142	6.18	19.4	35	
Surr: 1,2-Dichloroethane-d4	4.96	mg/L	SW8260D			5.000		99.1	80 - 136				
Surr: 4-Bromofluorobenzene	4.69	mg/L	SW8260D			5.000		93.8	85 - 121				
Surr: Dibromofluoromethane	4.90	mg/L	SW8260D			5.000		98.0	78 - 132				
Surr: Toluene-d8	4.80	mg/L	SW8260D			5.000		96.0	81 - 123				

WORK ORDER Summary

Work Order: **2112470**

Page 1 of 1

Client: Terracon Consultants, Inc.

Due Date: 12/20/2021

Client ID: TER200

Contact: Andrew Turner

Project: Endeavor / 61197591

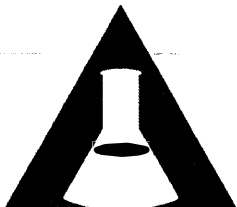
QC Level: II

WO Type: Standard

Comments: Next Day Rush. (Client is aware dissolved metals may take longer). QC 2. Include EDD. Do not report values under the reporting limit.;

DB

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
2112470-001A	Outflow-1	12/17/2021 0935h	12/17/2021 1012h	PH-4500H+B	Aqueous		df - tss/tds / pH
				TDS-W-2540C			df - tss/tds / pH
				TSS-W-2540D			df - tss/tds / pH
2112470-001B				3005A-DIS-PR			df - dis met
				6020B-DIS			df - dis met
				2 SEL Analytes: AS PB			
2112470-001C				FILTER-PR			df - dis met
2112470-001D				OGB-W-1664B			OGBFridge
				8260D-W-PPM			VOCFridge
<i>Test Group: 8260D-W-MBTEXN; # of Analytes: 6 / # of Surr: 4</i>							



**American West
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CHAIN OF CUSTODY

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

2112470
AWAL Lab Sample Set # _____
Page _____ of _____

Client: Terraccon
Address: 6949 South High Tech Dr
City, State, Zip: Middlevale, UT 84047
Contact: Andrea Turner
Phone #: 385-985-6528 Cell #: _____
E-mail: Andrea.Turner@terraccon.com
Project Name: Endeavor
Project #: C1197591
PO #: _____
Sampler Name: Andrea Turner

QC Level:		Turn Around Time:		Rush sets received after 3:00 pm are considered received on the next business day.		Due Date:	
1	2+ 3 3+	1	2 3 4 5 Std			12/20/21	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Sample Site ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Report down to the MDL <input checked="" type="checkbox"/> Include EDD: <input checked="" type="checkbox"/> Lab Filter for: <u>Pb, As</u> <input type="checkbox"/> Field Filtered For:	Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.
	<u>Outflow-1</u>	<u>12/17/21</u>	<u>0935</u>	1	<u>W</u>	<input type="checkbox"/> For Compliance With: <input type="checkbox"/> NELAP <input type="checkbox"/> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> ELAP / A2LA <input type="checkbox"/> NLLAP <input type="checkbox"/> Non-Compliance <input type="checkbox"/> Other:	Laboratory Use Only
						<u>TSS</u>	<input type="checkbox"/> Known Hazards & Sample Comments COC Tape Was: 1 Present on Outer Package Y N <u>INA</u> 2 Unbroken on Outer Package Y N <u>NA</u> 3 Present on Sample Y N <u>NA</u> 4 Unbroken on Sample Y N <u>NA</u> Samples Were: 1 Shipped or hand delivered <u>Y</u> 2 Ambient or Chilled 3 Temperature <u>2.9</u> °C 4 Received Intact Y N 5 Properly Preserved Y N Checked at bench 6 Received Within Holding Times Y N Sample Labels and COC Record Match? Y N
						<u>TDS</u>	
						<u>Lead + Arsenic - Discrete</u>	
						<u>Oil & Grease</u>	
						<u>MBTE-XN</u>	
						<u>pH</u>	

Relinquished by: <u>[Signature]</u> Signature	Date: <u>12/17/21</u> Time: <u>1012</u>	Received by: <u>[Signature]</u> Signature	Date: <u>12/17/21</u> Time: <u>1012</u>
Print Name: _____	_____	Print Name: <u>Denise Bruun</u>	_____
Relinquished by: _____ Signature	Date: _____ Time: _____	Received by: _____ Signature	Date: _____ Time: _____
Print Name: _____	_____	Print Name: _____	_____
Relinquished by: _____ Signature	Date: _____ Time: _____	Received by: _____ Signature	Date: _____ Time: _____
Print Name: _____	_____	Print Name: _____	_____

Special Instructions:
Lead and arsenic not field filtered
*Do not report values unless reporting limit.

By signing this Chain of Custody you are agreeing to permit AWAL to subcontract any analyses not normally performed at AWAL.

* Client is aware metals may take longer