

Phase II Environmental Site Assessment

**7811 Harrisburg Boulevard
Houston, Texas**



March 8, 2023

PRESENTED TO

Houston Land Bank
P.O. Box 131106
Houston, Texas 77219

PRESENTED BY

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1.0 INTRODUCTION

The Houston Land Bank (HLB) tasked Tetra Tech, Inc. (Tetra Tech) to conduct a Phase II Environmental Site Assessment (ESA) at 7811 Harrisburg Boulevard, Houston, Texas (subject property) (Appendix A, Figures 1 and 2). Tetra Tech prepared this Phase II ESA to address concerns that could impact human health and the environment and affect possible redevelopment at the subject property. A Phase I ESA was conducted by ESE Partners (ESE) in 2020.

Project objectives of the Phase II ESA were to:

- (1) Determine if contaminants are present in soil, soil gas, or groundwater at the subject property to confirm or eliminate recognized environmental conditions (REC) or vapor encroachment conditions (VEC) identified during the 2020 Phase I ESA, and
- (2) Compare concentrations of contaminants of concern (COC) to applicable Texas Risk Reduction Program (TRRP) protective concentration levels (PCL) and U.S. Environmental Protection Agency vapor intrusion screening levels (VISL) (Texas Commission on Environmental Quality [TCEQ] 2022; EPA 2022).

Tetra Tech conducted the Phase II ESA in accordance with the *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*, ASTM International (ASTM) designation E1903-19 (ASTM 2019).

2.0 SITE DESCRIPTION AND HISTORY

The subject property is located at 7811 Harrisburg Boulevard and consists of approximately 1.77 acres of vacant land. The subject property is depicted on the U.S. Geological Survey (USGS) 7.5-minute series Park Place, Texas, topographic quadrangle map (USGS 2019) (see Figure 1). Coordinates are 29° 43' 50.96" north latitude and 95° 17' 07.64" west longitude at the approximate center of the subject property (Google Earth 2023). Historically, the subject property was developed for single-family residential and commercial use as early as 1929 until being redeveloped for only commercial use in the 1970s (ESE 2020). Buildings on the property were demolished in 2019 (Google Earth 2023).

In September 2020, ESE conducted a Phase I ESA of the subject property (ESE 2020). RECs and VECs identified during ESE's Phase I ESA included:

- Rudy Garza and Associates Garage, at 7806 Harrisburg Boulevard, adjacent to and southwest of the subject property, is cited in the Environmental Data Resources, Inc. (EDR) Radius Map Report as a historical automotive repair facility operating in 1980. Historical automotive repair facilities are known to store and use hazardous substances (automotive fluids, coolants, degreasers, paints, solvents), as well as petroleum products (gasoline, diesel) as part of their operations. This facility was not registered with any applicable regulatory agency. Based on documented use of this facility as an automotive repair facility, ESE concluded that historical operations could have impacted the site, rendering this facility a REC for the subject property.
- Four sites were identified in the EDR Historic Cleaners database within 0.125 mile of the subject property as early as 1930. Based on proximity of these historical drycleaners to the subject property and their operation prior to implementation of environmental regulations, ESE concluded that these sites posed a REC and a VEC for the subject property.

3.0 PHASE II ENVIRONMENTAL SITE ASSESSMENT ACTIVITIES

Phase II ESA field activities conducted on December 5 and 6, 2022, included sampling of soil, groundwater, and soil gas. The following sections describe the scope of the Limited Phase II ESA, field exploration, analytical methods, and deviations from the approved QAPP/Work Plan for the Phase II ESA (Tetra Tech 2022). Photographic documentation is in Appendix B. Boring logs are in Appendix C. Field notes are in Appendix D.

3.1 SCOPE OF ASSESSMENT

Tetra Tech conducted environmental sampling to determine the presence of soil, soil-gas, or groundwater contamination at the subject property. Phase II ESA sampling activities completed in general accordance with the approved QAPP/Work Plan completed for this project (Tetra Tech 2022). The following summarizes the scope of work for this Phase II ESA:

- Sample soil, soil gas, and groundwater throughout the subject property to confirm or eliminate RECs and VECs identified during the 2020 Phase I ESA.
- Prepare and submit a complete draft Phase II ESA report.
- Revise and re-submit a final Phase II ESA report as necessary to address HLB technical review comment/revision requirements.

3.2 FIELD EXPLORATION AND METHODOLOGY

Field activities occurred on December 5 and 6, 2022. Samples collected during the Phase II ESA are summarized in Tables 1 through 3, Appendix E, and their locations are shown on Figure 2, Appendix A. Sampling locations were selected based on results of the previous Phase I ESA at the subject property and adjusted in the field according to on-site observations and additional information obtained during the Phase II ESA field activities.

3.3 SAMPLING AND ANALYTICAL METHODS

Tetra Tech engaged a State of Texas licensed driller, Envirotech Drilling Services, LLC (EDS), to perform direct push technology (DPT) boring activities. At six boring locations, EDS advanced continuous soil borings using a track-mounted DPT rig equipped with a Macro-Core sampler with polyvinyl chloride (PVC) liners. Groundwater was encountered at all six locations.

The following sections describe sampling and analytical methods applied during the Limited Phase II ESA.

3.3.1 Surface Soil Sampling

To assess surface soil at the subject property for presence of COCs, Tetra Tech collected six surface soil samples for laboratory analysis. Surface soil samples were collected from borings at depths of 0-2 feet below ground surface (bgs).

Prior to homogenization of the sample, a sample for analysis for VOCs was collected according to EPA Method 5035. Samples to undergo analysis for VOCs were placed in two 40-milliliter (mL) vials preserved with sodium bisulfate and one 40-mL vial preserved with methanol. Remaining soil was homogenized and transferred to laboratory-provided sample containers for all other analyses.

Samples were submitted to ALS Environmental (ALS) for analysis for volatile organic compounds (VOC) via EPA Method 8260; semivolatile organic compounds (SVOC) via EPA Method 8270; Target Analyte List (TAL) metals via EPA Methods 6020/7471; and total petroleum hydrocarbons (TPH)-gasoline-range organics (GRO), TPH-diesel-range organics (DRO), and TPH-oil-range organics (ORO) via EPA Method 8015.

3.3.2 Subsurface Soil Sampling

Six subsurface soil samples were collected from 6 boring locations during the Phase II ESA. One duplicate sample was collected from the subsurface soil sample collected at soil boring SB-01. Subsurface soil samples were collected from 23 to 25 feet bgs at five locations and from 28-30 ft bgs at SB-03 (Appendix A, Figure 2).

Tetra Tech used a photoionization detector (PID) to screen soil cores for VOCs and completed boring logs describing soil lithology in each soil boring. PID readings, along with any observed staining or detected odor, were documented on boring logs (Appendix C). No visual impacts of contamination were observed, and no odor was detected from any boring.

One subsurface soil sample was collected from each boring at or near the bottom of each boring. The sampler and drilling rods were decontaminated following sampling at each borehole by application of an Alconox and tap water wash, followed by a tap water rinse.

Subsurface soil samples were collected from borings following the same procedures and submitted to ALS for same analysis as described for surface soil samples.

3.3.3 Groundwater Sampling

Groundwater samples were collected directly from the on-site soil borings advanced for soil sampling using a PVC pipe installed in the ground. No permanent wells were installed.

At each boring location where the water table was encountered above 30 feet or refusal, the sampler was advanced to just below the water table, and the screen was exposed to the aquifer. Groundwater samples were collected through disposable polyethylene tubing with a check valve placed at the bottom of the tubing. Approximately 1 gallon of water was purged prior to sample collection.

Groundwater samples were collected directly from the polyethylene tubing into the laboratory-prepared sample containers. Groundwater samples were collected from borings and submitted to ALS for analysis for VOCs via EPA Method 8260; SVOCs via EPA Method 8270; TAL metals via EPA Methods 6020/7470; and TPH-GRO, TPH-DRO, and TPH-ORO via EPA Method 8015.

After sampling at each boring location, the groundwater sampler and rods were decontaminated, and new tubing was used at the next boring location. After completion of sampling, all DPT boreholes were plugged with hydrated bentonite from the bottom of the hole to the ground surface. Any disturbed surface materials (concrete or asphalt) were patched with appropriate material to match the surrounding surface.

3.3.4 Soil-Gas Sampling

To assess soil gas at the subject property for presence of COCs, Tetra Tech collected five soil gas samples. Soil-gas sample locations were adjacent to the boring advanced for soil and groundwater sampling. Tetra Tech attempted to collect a soil-gas sample at soil boring SB-03; however, water from recent rainfall events entered the summa canister and the lab could not analyze this sample.

At each sampling location, steel rods were advanced to 5 to 6 feet bgs, and then retracted approximately 6 inches to create a void space to allow collection of soil gas vapors. Samples were collected through the steel rods via disposable polyethylene tubing connected to the bottom of the rod string and an evacuated vacuum canister on the ground surface. Air in the tubing was evacuated with a pump prior to connection of the tubing to the canister.

After the canister was connected to the tubing, a valve on the canister was opened to begin sample collection. The canister remained attached to the polyethylene tubing until the vacuum gauge indicated approximately 5 to 7 pounds per square inch (psi) in the canister. All five soil gas samples were submitted to ALS for analysis for VOCs, via EPA Method Toxic Organics (TO)-15.

After completion of sampling at each location, each piece of sampling equipment (except for the polyethylene tubing) that had encountered the soil gas sample was decontaminated by application of an Alconox and tap water wash, followed by a tap water rinse. The tubing was discarded. After completion of sampling, all DPT boreholes were plugged with hydrated bentonite from the bottom of the hole to the ground surface. Any disturbed surface materials (concrete or asphalt) were patched with appropriate material to match the surrounding surface.

4.0 RESULTS

Samples collected during the Phase II ESA included six surface soil samples, six subsurface soil samples, six groundwater samples, and five soil gas samples. One duplicate soil sample was collected to assess variance of the total method including sampling and analysis, and one trip blank quality control sample was included to determine whether cross-contamination of samples had occurred during shipment. Analytical data are summarized in Appendix E, Tables 4 through 12. Analytical data packages were validated internally by the laboratory in accordance with the laboratory's established standard operating procedures (SOPs). Complete analytical reports are in Appendix F.

4.1 SOIL SAMPLE RESULTS

Laboratory analytical results from soil samples were compared to applicable TCEQ TRRP PCLs (TCEQ 2022). Residential PCLs were used as the basis for comparison, assuming a 0.5-acre source area. The lower value of the leaching to groundwater and ingestion ($^{GW}Soil_{Ing}$) or combined exposure which also includes soil ingestion ($^{Tot}Soil_{Comb}$) PCL was used for surface soil, and the leaching to groundwater and ingestion ($^{GW}Soil_{Ing}$) PCL was used for subsurface soil. Soil sample analytical detections are summarized in Appendix E, Tables 4 through 7. The following summarizes significant findings resulting from review of analytical data.

VOCs Analysis

Several VOCs were reported in the soil samples collected; however, none of the concentrations exceeded the relevant PCLs except for the concentration of methylene chloride reported in the surface soil sample from boring SB-05. Soil sample SB-05 (0-2) contained a reported estimated concentration of methylene chloride of 0.17 mg/kg which exceeds the residential soil PCL of 0.013 mg/kg.

SVOC Analysis

Several SVOCs were reported in the soil samples collected; however, none of the concentrations exceeded the relevant PCLs.

TPH Analysis

Several detections of TPH-GRO/DRO/ORO were reported in the soil samples collected; however, none of the concentrations exceeded the relevant PCLs.

Metals Analysis

Several metals were reported in the soil samples collected; however, none of the concentrations exceeded the relevant PCLs except for the following:

- Concentrations of barium reported in the surface soil samples from borings SB-02 and SB-04, with reported concentrations of barium of 440 and 510 mg/kg, respectively. The residential soil PCL for barium is 440 mg/kg.
- Concentrations of lead reported in five of the six surface soil samples, with reported concentrations of lead ranging from 16 to 56 mg/kg. The residential soil PCL for lead is 3 mg/kg. The Texas-Specific Soil Background Concentration (TSBC) for lead is 15 mg/kg.

4.2 GROUNDWATER SAMPLE RESULTS

Six groundwater samples were collected at six boring locations during the Phase II ESA. Laboratory analytical results from groundwater samples were compared to TRRP PCLs for residential groundwater, assuming an ingestion exposure pathway. This screening level is considered protective, although drinking water in the area of the subject property is actually provided by City of Houston Public Water System's Main System (Houston Public Works 2021). Groundwater sample analytical detections are summarized in Appendix E, Tables 8 through 11. The following summarizes significant findings resulting from review of analytical data.

VOCs Analysis

Several VOCs were reported in the groundwater samples collected; however, none of the concentrations exceeded the relevant PCLs.

SVOC Analysis

Several SVOCs were reported in the groundwater samples collected; however, none of the concentrations exceeded the relevant PCLs.

TPHs Analysis

Several detections of TPH-GRO/DRO/ORO were reported in the groundwater samples collected; however, none of the concentrations exceeded the relevant PCLs.

Metals Analysis

Detections of several metals were reported in the groundwater samples collected; however, none of the concentrations exceeded the relevant PCLs except for the concentration of arsenic reported in the groundwater sample from boring TW-03, with a reported concentration of arsenic of 0.014 milligrams per liter (mg/L). The residential groundwater PCL for arsenic is 0.01 mg/L.

4.3 SOIL-GAS SAMPLE RESULTS

Laboratory analytical results from soil-gas samples were compared to applicable EPA VISLs (EPA 2022). TCEQ has not established PCLs for soil gas. VISLs were calculated with the most conservative assumptions—residential land use, a cancer risk of 10^{-6} , and a total hazard quotient of 0.1. Soil-gas sample

analytical detections are summarized in Appendix E, Table 12. The following summarizes significant findings resulting from review of analytical data.

Laboratory results from soil gas samples indicate that several VOCs were detected in at least one of the five soil gas samples; however, none of the concentrations exceeded the relevant VISLs.

5.0 FINDINGS AND CONCLUSIONS

A previous Phase I ESA by ESE identified multiple RECs/VECs for the subject property, as discussed in Section 2.0. The HLB tasked Tetra Tech to conduct a Phase II ESA of the subject property to delineate extents of soil, soil-gas, and groundwater contamination at the subject property. This section also identifies confirmed RECs, based on data from the Phase II ESA.

5.1 SOIL RESULTS

During the Phase II ESA, six soil surface soil and six subsurface soil samples were collected, one of each at six locations, to assess potential for contamination associated with former site operations identified in the Phase I ESA. Surface sampling depths were within 0-2 feet bgs, and subsurface sampling depths ranged from 23 to 30 feet bgs. Samples were submitted to ALS for VOC, SVOC, TPH, and metals analyses. Sample results were compared to TCEQ TRRP Tier 1 PCLs updated March 1, 2022 (TCEQ 2022). Methylene chloride in the surface soil sample collected at SB-05, lead in five of the six surface soil samples, and barium in surface soil samples collected at SB-02 and SB-04 were detected at concentrations that exceeded the TRRP PCLs.

5.2 GROUNDWATER RESULTS

During the Phase II ESA, six groundwater samples were collected at six borings locations. Sample depths ranged from 12 to 18 feet bgs. Samples were submitted to ALS for VOC, SVOC, TPH and metals analysis. Sample results were compared to TCEQ TRRP Tier 1 PCLs updated March 1, 2022 (TCEQ 2022) for residential use, assuming ingestion. At SB-03, one metal (arsenic) in groundwater was detected at concentrations that exceed the TRRP PCLs.

5.3 SOIL-GAS RESULTS

During the Phase II ESA, five soil-gas samples were collected at five borings locations. Sample depths ranged from 4 to 6 feet bgs. Samples were submitted to ALS for VOC analysis. Sample results were compared to EPA VISLs for near-source soil gas, assuming residential land use (EPA 2022). None of the VOC analytes detected in the soil-gas samples collected exceeded an EPA VISL.

6.0 RECOMMENDATIONS

Goals of the Phase II ESA were to (1) determine soil, soil gas, and groundwater concentrations throughout the subject property to confirm or eliminate RECs and VECs identified during the 2020 Phase I ESA; (2) compare concentrations of COCs to applicable TRRP PCLs and EPA VISLs (TCEQ 2022; EPA 2022).

Sampling results during this Phase II ESA indicated no presence of contaminants in subsurface soil, soil gas and groundwater that appear to pose a threat to future occupants of the subject property.

Methylene chloride was detected in one surface soil sample from 0-2 feet bgs, barium was detected in two surface soil samples from 0-2 feet bgs, and lead was detected in five of six surface soil samples at concentrations that exceeded their residential TRRP PCLs for leaching to groundwater (^{GW}Soil_{Ing}) only.

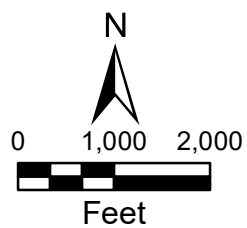
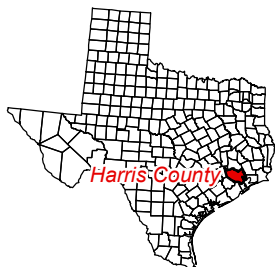
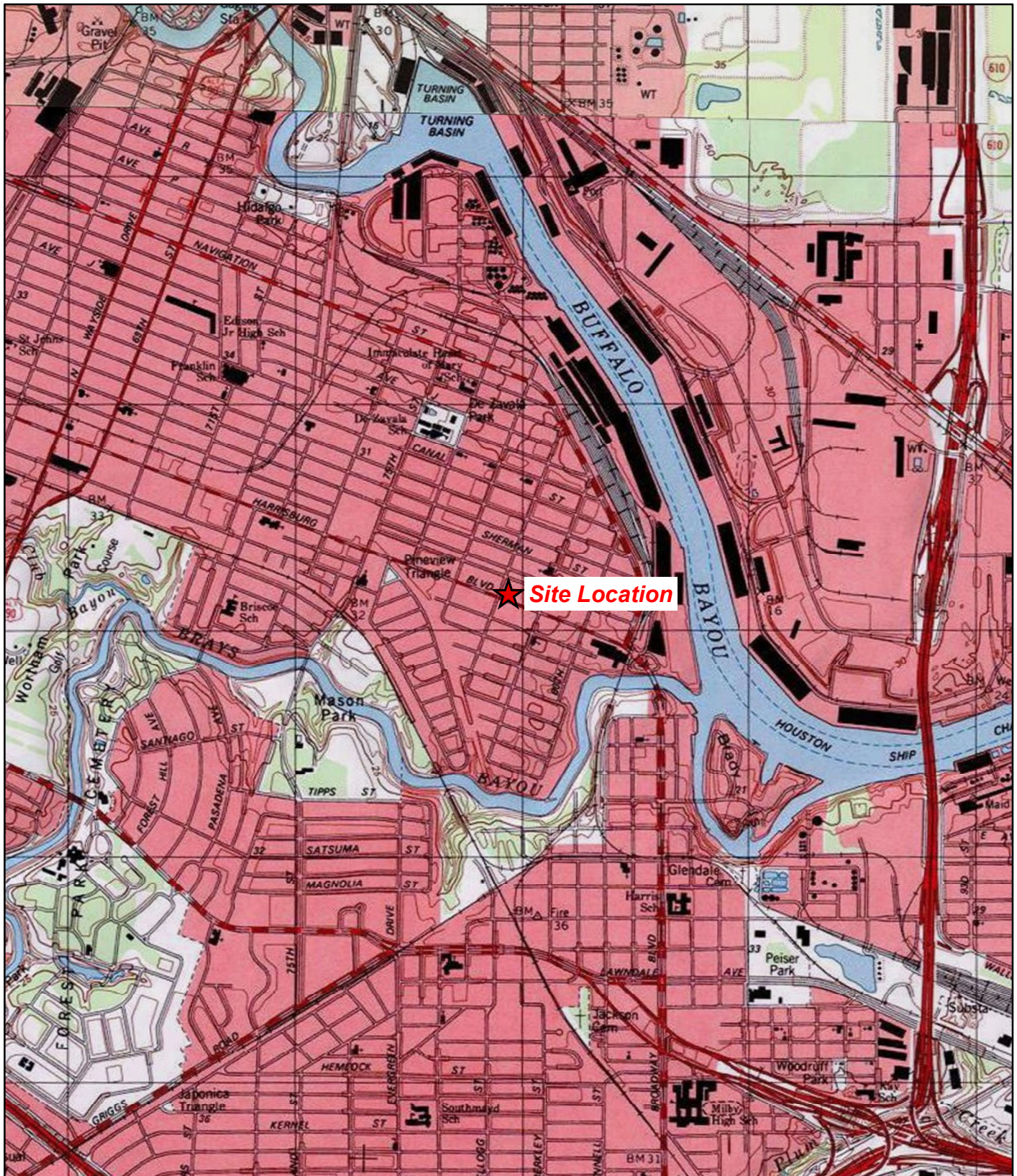
Arsenic was detected in one groundwater sample at a concentration that exceeded its residential TRRP PCL for direct ingestion.

Tetra Tech recommends installation of one permanent monitoring well in order to allow groundwater to fully stabilize prior to sampling. The sample will be analyzed for TAL metals and VOCs. Additional surface soil samples should be collected from locations across the site to be analyzed via Synthetic Precipitation Leaching Procedure (SPLP) analysis for TAL metals and VOCs. This additional analysis is necessary prior to drafting a memo to TCEQ with the data and plans for excavation to remove the impacted surface soils and if further action is necessary based on the additional groundwater sample.

7.0 REFERENCES

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<https://www.epa.gov/vaporintrusion/vapor-intrusion-screening-level-calculator>

APPENDIX A FIGURES



7811 Harrisburg Boulevard
Houston, Texas

Figure 1
Site Location Map





Legend

- ● Soil and Groundwater Sampling Location
- ▲ Soil, Groundwater and Soil-Gas Sampling Location
- Approximate Property Boundry
- Recognized Environmental Condition (REC)

Source: Esri, ArcGIS Online, World Imagery, 2020

7811 Harrisburg Boulevard
Houston, Texas

Figure 2
Sample Location Map



Date: 1/11/2023

Drawn By: Susmita Shrestha

Project No: 103Z845601.001

X:\P\845601\Project\mxd\Figure2_010823.mxd

APPENDIX B PHOTOLOG

PROJECT NAME: 7811 HARRISBURG BOULEVARD



Photograph 1: This photograph shows Soil Boring Location 1 (SB-01).



Photograph 2: This photograph shows SB-02.

PROJECT NAME: 7811 HARRISBURG BOULEVARD



Photograph 3: This photo shows SB-03.



Photograph 4: This photograph shows SB-04.



Photograph 5: This photograph shows SB-05.



Photograph 6: This photograph shows SB-06.

APPENDIX C BORING LOGS

SOIL BORING AND WELL CONSTRUCTION LOG

Borehole/Well ID: SB-01
 Project Name: Houston Land Bank
 Project Number: 212C-HN-02098
 Logging Personnel: J. Pardo

Drill Crew: EOS
 Rig Type: Geo probe rig
 Drilling Start Date: 12.5.22
 Drilling End Date: 12.
 Borehole Diameter: _____
 Sampling Method: _____



DESCRIPTION										WELL CONSTRUCTION	
Depth	% Recovery	PID (ppm)	Sample (include ID and Time)	Color	USCS Classification	Density or Consistency		Plasticity (for fine grained deposits)	Moisture	Additional Comments	Casing/Screen Type: _____
						Coarse Grained: -Very Loose -Loose -Med Dense -Dense -Very Dense	Fine Grained: -Very Soft -Soft -Medium -Stiff -Very Stiff -Hard	Non Plastic -Low Plasticity -Med Plasticity -High Plasticity	Dry -Moist -Wet		Casing/Screen Diameter: _____
											Screen Size: _____
											Grout Type: _____
											Filter Pack Type: _____
											Water Level at time of Drilling: _____ (ft btoc)
											Static Water Level: _____ (ft btoc)
											Stick up: _____ to _____ (ft)
0-5	0.3		SB-01	Dark Brown	Clay	SHRF			Dry	SB-01 (0-2) 1350	<div></div>
	0.3										
	0.4										
	0.4										
	0.4										
6-10	1.1			↓							<div></div>
	1.2										
	1.2										
	1.2										
	1.2										
11-15	0.8			↓	Light Brown	↓	Soft			Made Water	<div></div>
	0.7										
	0.7										
	0.7										
	0.6										
16-20	1.3			↓							<div></div>
	1.3										
	1.3										
	1.3										
	1.3										
21-25	2.1			↓							<div></div>
	2.3										
	2.8										
	2.8										
	2.8										
											Grout: _____ to _____ (ft)
											Casing: _____ to _____ (ft)
											Screen Interval: _____ to _____ (ft)
											Bentonite Seal: _____ to _____ (ft)
											Filter Pack: _____ to _____ (ft)
											Bottom of borehole _____ (ft btoc)

Duplicate

Stick up: _____ to _____ (ft)
 Grout: _____ to _____ (ft)
 Casing: _____ to _____ (ft)
 Screen Interval: _____ to _____ (ft)
 Bentonite Seal: _____ to _____ (ft)
 Filter Pack: _____ to _____ (ft)
 Bottom of borehole _____ (ft btoe)

SOIL BORING AND WELL CONSTRUCTION LOG

Borehole/Well ID: SB-02

Project Name: Houston Land bank

Project Number: 212C-HN-02098

Logging Personnel: Jaima Tan

Drill Crew: E.D.S.
Rig Type: Geo probe
Drilling Start Date: 12.5.22
Drilling End Date: 12.5.22
Borehole Diameter: _____
Sampling Method: Cox Sampling



TETRA TECH

10F /

10'		DESCRIPTION								WELL CONSTRUCTION		
Depth	% Recovery	PID (ppm)	Sample (Include ID and Time)	Color	USCS Classification	Density or Consistency		Plasticity (for fine grained deposits)	Moisture	Additional Comments	Casing/Screen Type	
						Coarse Grained: Very Loose Loose Med Dense Dense Very Dense	Fine Grained: -Very Soft -Soft -Medium Stiff -Very Stiff -Hard				Non Plastic Low Plasticity -Med Plasticity -High Plasticity	Dry -Moist -Wet
											Grout Type:	Filter Pack Type:
											Water Level at time of Drilling _____ (ft btoc)	Static Water Level: _____ (ft btoc)
											Stick up _____ to _____ (ft)	
0-5		0.0 0.0 0.1 0.1 0.2 0.2 0.2 0.2	SB-02	Dark Brown ↓ Light Brown with Gray tint	Clay	Stiff			Dry	0-2 (Sampled) (11%)		
6-10												
11-15		0.4 0.4 0.4 0.4		Dark Gray ↓ Light Brown	Sand	Stiff ↓ Very Soft			Wet	Made Water		
16-20		0.0 0.0 0.0 0.0										
21-25		1.2 1.2 1.2 1.2 1.2								23-25 SB-02 (1200)		

Grout:	_____ to _____ (ft)
Casing:	_____ to _____ (ft)
Screen Interval:	_____ to _____ (ft)
Bentonite Seal:	_____ to _____ (ft)
Filter Pack:	_____ to _____ (ft)
Bottom of borehole	_____ (ft btoc)

SOIL BORING AND WELL CONSTRUCTION LOG

Borehole/Well ID: SB-03
 Project Name: Houston Land Bank
 Project Number: 212C-14N-02098
 Logging Personnel: J. Perin

Drill Crew: _____
 Rig Type: Gro Probe
 Drilling Start Date: 12/5/22
 Drilling End Date: _____
 Borehole Diameter: _____
 Sampling Method: _____



TETRA TECH

1 of 2

10-2		DESCRIPTION					WELL CONSTRUCTION													
Depth	% Recovery	PID (ppm)	Sample (include ID and Time)	Color	USCS Classification	Density or Consistency		Plasticity (for fine grained deposits)	Moisture	Additional Comments	Casing/Screen Type: _____									
						Coarse Grained: -Very Loose -Loose -Med Dense -Dense -Very Dense	Fine Grained: -Very Soft -Soft -Medium Stiff -Very Stiff Hard				Casing/Screen Diameter: _____									
											Screen Size: _____									
											Grout Type: _____									
											Filter Pack Type: _____									
											Water Level at time of Drilling: _____ (ft btoe)									
											Static Water Level: _____ (ft btoe)									
											Stick up: _____ to _____ (ft)									
0-5		0.7		Dark Grey	Clay	Stiff			DRY	Collected Sample SB-03 (0-2) (10/15)										
		0.8																		
		0.8																		
		0.8																		
		1.0																		
6-10		0.9																		
		0.8																		
		0.7																		
		0.7		Light Grey																
		0.7																		
11-15		1.1																		
		1.2																		
		1.3																		
		1.3																		
		1.3		Light Brown																
16-20		1.9																		
		1.9																		
		1.8																		
		1.9																		
		1.8		Yellowish Brown																
21-25																				

SOIL BORING AND WELL CONSTRUCTION LOG

Borehole/Well ID: SB-03 - continued
 Project Name: Houston Lank Bank
 Project Number: 212C-HW-02098
 Logging Personnel: Jatime Penia

Drill Crew: EDS
 Rig Type: Geo probe rig
 Drilling Start Date: 12/5/22
 Drilling End Date: _____
 Borehole Diameter: _____
 Sampling Method: _____



2 of 2

Depth	% Recovery	PID (ppm)	Sample (include ID and Time)	Color	USCS Classification	DESCRIPTION			Additional Comments	WELL CONSTRUCTION		
						Density or Consistency		Plasticity (for fine grained deposits)		Moisture	Casing/Screen Type:	Casing/Screen Diameter:
						Coarse Grained: Very Loose Loose Med Dense Dense Very Dense	Fine Grained: Very Soft Soft Medium Stiff Very Stiff Hard	Non Plastic Low Plasticity Med Plasticity High Plasticity		Dry Moist Wet	Screen Size:	Grout Type:
26-30		0.7 0.8 0.8 0.8 0.8		Light Brown Sand ↓		Very Loose ↓		Wet ↓	Collected SB-03 (28-30) (1025)	Water Level at time of Drilling: _____ (ft btoe) Static Water Level: _____ (ft btoe)	Stick up: _____ to _____ (ft)	
										Grout: _____ to _____ (ft)		
										Casing: _____ to _____ (ft)		
										Screen Interval: _____ to _____ (ft)		
										Bentonite Seal: _____ to _____ (ft)		
										Filter Pack: _____ to _____ (ft)		
										Bottom of borehole _____ (ft btoe)		

SOIL BORING AND WELL CONSTRUCTION LOG

Borehole/Well ID: SB-04

Project Name: Houston Land Bank

Project Number: 212C-HN-02098

Logging Personnel: J. Peña

Drill Crew: Jorge Zamarripa / Eduardo Mora (EoS)

Rig Type: Geo Probe

Drilling Start Date: 12-4-22

Drilling End Date: 12-6-22

Borehole Diameter: _____

Sampling Method: _____



TETRA TECH

Depth	% Recovery	PID (ppm)	Sample (include ID and Time)	Color	USCS Classification	Density or Consistency		Plasticity (for fine grained deposits)	Moisture	Additional Comments	WELL CONSTRUCTION	
						Coarse Grained: -Very Loose Loose Med Dense Dense Very Dense	Fine Grained: Very Soft Soft Medium Stiff Very Stiff Hard				Casing/Screen Type: _____	Casing/Screen Diameter: _____
						Non Plastic Low Plasticity Med Plasticity High Plasticity	Dry Moist Wet	Screen Size: _____	Grout Type: _____			
0-5	00	00	SB-04	Dark Gray	Clay	Stiff			Dry	SB-04 (0-2) (1100)	Water Level at time of Drilling: _____ (ft bloc) Static Water Level: _____ (ft bloc)	
											Stick up: _____ to _____ (ft)	
											Grout: _____ to _____ (ft)	
											Casing: _____ to _____ (ft)	
6-10	06	06		Light Gray							Screen Interval: _____ to _____ (ft)	
											Bentonite Seal: _____ to _____ (ft)	
											Filter Pack: _____ to _____ (ft)	
											Bottom of borehole _____ (ft bloc)	
11-15	12	13										
16-20	08	09		Light Brown	Sand	Soft			Wet			
21-25	19	18			Clay	Very Soft				SB-04 (23-25) (1110)		

SOIL BORING AND WELL CONSTRUCTION LOG

Borehole/Well ID: SB-05

Drill Crew: EDS Jorgo Zamarripa - Eduardo Mora

Project Name: 212C-HN-0209B Houston Land Bank

Rig Type: Geo probe

Project Number: _____

Drilling Start Date: 12-6-22

Logging Personnel: J. Peña

Drilling End Date: 12-6-22

Borehole Diameter: _____

Sampling Method: _____



TETRA TECH

DESCRIPTION										WELL CONSTRUCTION	
Depth	% Recovery	PID (ppm)	Sample (include ID and Time)	Color	USCS Classification	Density or Consistency		Plasticity (for fine grained deposits)	Moisture	Additional Comments	Casing/Screen Type: _____
						Coarse Grained: Very Loose Loose Med Dense Dense Very Dense	Fine Grained: Very Soft Soft Medium Stiff Very Stiff Hard	Non Plastic -Low Plasticity -Med Plasticity -High Plasticity	Dry Moist Wet		Casing/Screen Diameter: _____
											Screen Size: _____
											Grout Type: _____
											Filter Pack Type: _____
											Water Level at time of Drilling _____ (ft btoe)
											Static Water Level: _____ (ft btoe)
											Stick up _____ to _____ (ft)
0-5		1.2 1.4 1.4 1.4 1.4	SB-05	Dark Grey	Sandy	Stiff			Moist	SB-05 (0-2) (930)	Grout: _____ to _____ (ft)
6-10		0.6 0.6 0.6 0.6 0.6		Light Grey							Casing: _____ to _____ (ft)
11-15		1.7 1.7 1.7 1.7 1.7				Soft					Screen Interval: _____ to _____ (ft)
16-20		1.1 1.2 1.2 1.2 1.2		Light Brown		Very Soft					Bentonite Seal: _____ to _____ (ft)
21-25		2.1 2.3 2.3 2.3 2.3								SB-05 (23-25)	Filter Pack: _____ to _____ (ft)
											Bottom of borehole _____ (ft btoe)

Casing/Screen Type: _____
 Casing/Screen Diameter: _____
 Screen Size: _____
 Grout Type: _____
 Filter Pack Type: _____
 Water Level
 at time of Drilling _____ (ft btoc)
 Static Water Level: _____ (ft btoc)
 Stick up: _____ to _____ (ft)
 Grout: _____ to _____ (ft)
 Casing: _____ to _____ (ft)
 Screen Interval: _____ to _____ (ft)
 Bentonite Seal: _____ to _____ (ft)
 Filter Pack: _____ to _____ (ft)
 Bottom of borehole _____ (ft btoc)

APPENDIX D FIELD NOTES

12-5-22

10P2

1

Houston Land Bank (7811 Harrisburg)

Partly Cloudy - 76-81 No breeze

0730 - Jaime Perez with Tetra Tech arrived onsite.

0800 - Gina (TT) and EDS drilling company arrived onsite. Began reviewing health and safety.

0845 - Began marking locations

0930 - Began drilling at SB-03

1015 - Collected 10 SB-03 (0-2)

1025 - Collected SB-03 (28-30)

1100 - Began collecting soil vapor sample.

1115 - Collected SV-03

Note: Spoke with Kaitlyn about water in canister for sampling canister. She told us to go head and submit sample.

1130 - Began drilling SB-02

1150 - Collected SB-02 (0-2)

1200 - Collected SB-02 (23-25)

1215 - Lunch Break.

1300 - Resumed drilling

Began on SB-01

Scale: 1 square = _____

Rite in the Rain

² 12.5.22

2 of 2

1350 - Collected SB-01 (0-2)

1400 - Collected SB-01 (23-25) (Duplicate)

1405 - Collected SV-01

1450 - Began drilling SB-06

1540 - Collected sample SB-06 (0-2)

1550 - Collected sample SB-6 (23-25)

1600 - SV-06 collected

1615 - Began cleaning up site
and organizing coolers and
working on COC.

1715 - Completed shift end
of day.

Scale: 1 square = _____

12-6-22

lof

3

Jaime Peña

7811 Harrisburg (Houston Land Bank)

Partly Cloudy 74°-78°

0700 - Arrived onsite

0730 - Drillers arrived onsite

went over health and safety

800 - Began unloading rig

830 - Began drilling at SB-05

930 - Collected SB-05 (0-2)

940 - Collected SB-05 (23-25)

945 - Collected SV-05 (861)

1015 - Began collecting⁽²⁾ drilling @ SB-04

1100 - Collected SB-04 (0-2)

1110 - Collected SB-04 (23-25)

1115 - ~~SX~~⁽²⁾ Collected SV-04

1120 - Collected FB-1

1236 - Began groundwater
sampling

1245 - TW-03

1315 - TW-02

1345 - TW-01

1415 - TW-06 (DUP-02) (✓)

1445 - TW-05 (DUP-02)

1515 - TW-04

1530 - Began clean up of site

Scale: 1 square = _____

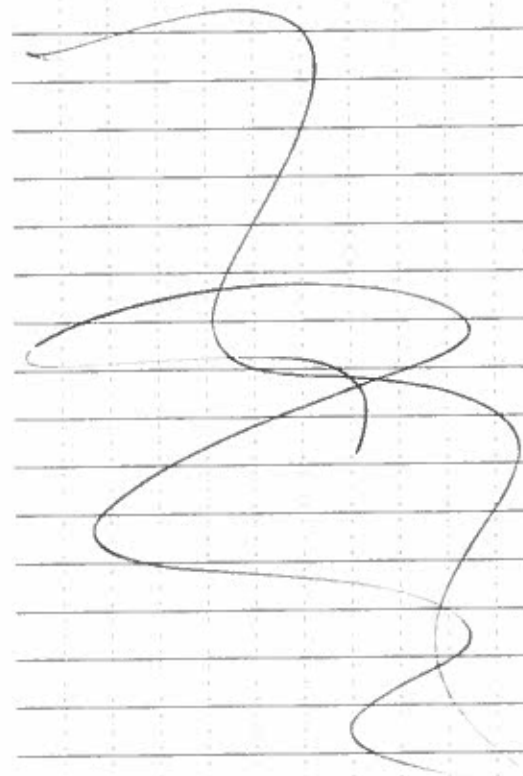
Rite in the Rain

⁴ 12.6.22

1550 - Collected EB-1

1615 - Began clean up site
and securing drums.

1700 - All personnel offsite.



Scale: 1 square = _____

APPENDIX E TABLES

TABLE 1

SUMMARY OF SOIL SAMPLES

7811 HARRISBURG BOULEVARD PHASE II ESA, HOUSTON, TEXAS

Boring ID	Surface Soil Sample Depth (ft bgs)	Subsurface Soil Sample Depth (ft bgs)	Latitude (°N)	Longitude (°W)
SB-01	0-2	23-25	29.73132602	-95.28549813
SB-02	0-2	23-25	29.73122650	-95.28504135
SB-03	0-2	28-30	29.73097237	-95.28532766
SB-04	0-2	23-25	29.73079617	-95.28549596
SB-05	0-2	23-25	29.73084060	-95.28590883
SB-06	0-2	23-25	29.73121303	-95.28573842

Notes:

ft bgs

Feet below ground surface

SB

Soil Boring

TABLE 2

**SUMMARY OF GROUNDWATER SAMPLES
7811 HARRISBURG BOULEVARD PHASE II ESA, HOUSTON, TEXAS**

Boring ID	Sample Identification	Latitude (°N)	Longitude (°W)
SB-01	TW-01	29.73132602	-95.28549813
SB-02	TW-02	29.73122650	-95.28504135
SB-03	TW-03	29.73097237	-95.28532766
SB-04	TW-04	29.73079617	-95.28549596
SB-05	TW-05	29.73084060	-95.28590883
SB-06	TW-06	29.73121303	-95.28573842

Notes:

ft bgs Feet below ground surface
SB Soil Boring
TW Temporary Well

TABLE 3

**SUMMARY OF SOIL-GAS SAMPLES
7811 HARRISBURG BOULEVARD PHASE II ESA, HOUSTON, TEXAS**

Boring ID	Sample Identification	Latitude (°N)	Longitude (°W)
SB-01	SV-01	29.73132602	-95.28549813
SB-02	SV-02	29.73122650	-95.28504135
SB-04	SV-04	29.73079617	-95.28549596
SB-05	SV-05	29.73084060	-95.28590883
SB-06	SV-06	29.73121303	-95.28573842

Notes:

ft bgs

Feet below ground surface

SB

Soil Boring

SV

Soil Vapor

TABLE 4

SUMMARY OF VOLATILE ORGANIC COMPOUNDS ANALYSIS OF SOIL SAMPLES
7811 HARRISBURG BOULEVARD PHASE II ESA, HOUSTON, TEXAS

Sample ID	Analytes						
	Methyl acetate	Methylene chloride	Toluene	1,2,4-Trimethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes
Tier 1 Protective Concentration Levels - Ingestion or Combined (mg/kg)							
TRRP PCLs - Residential Soil	49	0.13	8.2	33	110	71	120
Sample Results (mg/kg-dry)							
SB-01 (0-2)	U	U	U	U	U	U	U
SB-02 (0-2)	U	U	U	U	U	U	U
SB-03 (0-2)	0.08 J	U	U	U	U	U	U
SB-04 (0-2)	U	U	U	U	U	U	U
SB-05 (0-2)	U	0.17 J	0.026 J	0.036 J	0.077 J	0.021 J	0.098 J
SB-06 (0-2)	U	U	U	U	U	U	U
Tier 1 Protective Concentration Levels - GWSoilIng(mg/kg)							
TRRP PCLs - Residential Soil	49	0.013	8.20	33	110	71	120
Sample Results (mg/kg-dry)							
SB-01 (23-25)	U	U	U	U	U	U	U
Duplicate - SB-01 (23-25)	U	U	U	U	U	U	U
SB-02 (23-25)	U	U	U	U	U	U	U
SB-03 (28-30)	U	U	U	U	U	U	U
SB-04 (23-25)	U	U	U	U	U	U	U
SB-05 (23-25)	U	U	0.015 J	U	U	U	U
SB-06(23-25)	U	U	U	U	U	U	U

- Notes:
- Highlighting indicates a sample result concentration that exceeds the applicable screening level
- J Analyte is present at an estimated concentration between the Method Detection Limit and Reporting Limit
- mg/kg Milligrams per kilogram
- PCL Protective Concentration Levels, assuming 0.5-acre source area (Texas Commission on Environmental Quality 2022)
- TRRP Texas Risk Reduction Program
- U Analyzed but not detected above the MDL

TABLE 5

SUMMARY OF SEMIVOLATILE ORGANIC COMPOUNDS ANALYSIS OF SOIL SAMPLES
7811 HARRISBURG BOULEVARD PHASE II ESA, HOUSTON, TEXAS

Sample ID	Analytes																					
	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Bis(2-ethylhexyl)phthalate	Caprolactam	Carbazole	Chrysene	Dibenzo(a,h)anthracene	Di-n-butyl phthalate	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
Tier 1 Protective Concentration Levels - Ingestion or Combined (mg/kg)																						
TRRP PCLs - Residential Soil	240	410	6,900	41	41	42	1,800	420	43	4.7	4.6	4,100	4.0	3,300	1,900	300	42	2.9	17	31	420	1,100
Sample Results (mg/kg)																						
SB-01 (0-2)	0.081	0.19	0.36	1.2	1.3	1.4	0.83	0.6	0.28	U	0.29	1.1	0.21	U	2.5	0.12	0.93	0.038	U	0.04	1.5	1.9
SB-02 (0-2)	U	U	U	U	0.023	0.019	0.023	U	U	U	U	U	U	U	0.023	U	U	U	0.019	U	0.024	0.019
SB-03 (0-2)	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
SB-04 (0-2)	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.14	U	U	U	U	U	0.2	U
SB-05 (0-2)	U	U	U	0.034 J	0.053	0.045	0.042	0.038 J	U	0.69	U	U	U	U	0.045	U	0.049	U	U	U	0.03 J	0.038 J
SB-06 (0-2)	U	U	U	0.042	0.049	0.054	0.037	0.032	U	U	U	0.027	U	U	0.066	U	0.039	U	U	U	0.054	0.057
Tier 1 Protective Concentration Levels - GWSoilIng (mg/kg)																						
TRRP PCLs - Residential Soil	240	410	6,900	130	7.6	440	46,000	4,500	160	47	4.6	11,000	15.0	3,300	1,900	300	1,300	2.9	17	31	420	1,100
Sample Results (mg/kg)																						
SB-01 (23-25)	U	U	U	U	U	U	U	U	0.12	U	U	U	U	U	0.015 J	U	U	U	U	U	0.015 J	U
Duplicate - SB-01 (23-25)	U	U	U	U	U	U	U	U	0.22	U	U	U	U	U	0.039	U	U	U	U	U	0.037	0.028
SB-02 (23-25)	U	U	U	U	U	U	U	U	U	U	U	U	U	0.14	0.032	U	U	U	U	U	0.042	U
SB-03 (28-30)	U	U	U	U	U	U	U	U	0.77	U	U	U	U	U	U	U	U	U	U	U	U	U
SB-04 (23-25)	U	U	U	U	U	U	U	U	U	0.47	U	U	U	U	0.025	U	U	U	U	U	0.036	0.018
SB-05 (23-25)	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.011	U	U	U	U	U	0.017	U
SB-06 (23-25)	U	U	U	0.021	0.03	0.28	0.026	0.019	0.2	U	U	U	U	U	0.04	U	0.026	U	U	U	0.04	0.032

Notes:

- J Analyte is present at an estimated concentration between the Method Detection Limit and Reporting Limit
- mg/kg Milligrams per kilogram
- TRRP Texas Risk Reduction Program
- PCL Protective Concentration Levels, assuming 0.5-acre source area (Texas Commission on Environmental Quality 2022)
- U Analyzed but not detected above the MDL

TABLE 6

**SUMMARY OF TOTAL PETROLEUM HYDROCARBONS ANALYSIS OF SOIL SAMPLES
7811 HARRISBURG BOULEVARD PHASE II ESA, HOUSTON, TEXAS**

Sample ID	Analytes		
	TPH-GRO	TPH-DRO	TPH-ORO
Tier 1 Protective Concentration Levels - Ingestion or Combined (mg/kg)			
TRRP PCLs - Residential Soil	65	200	200
Sample Results (mg/kg)			
SB-01 (0-2)	U	4.1 J	11 J
SB-02 (0-2)	U	U	9.2 J
SB-03 (0-2)	U	3.9 J	17
SB-04 (0-2)	4.9 J	4.3 J	14
SB-05 (0-2)	4.6 J	3.9 J	12 J
SB-06 (0-2)	4.9 J	6.4 J	34
Tier 1 Protective Concentration Levels - GWSolIng (mg/kg)			
TRRP PCLs - Residential Soil	65	200	200
Samples Results (mg/kg)			
SB-01 (23-25)	5.0 J	6.7 J	15
Duplicate - SB-01 (23-25)	U	3.8 J	11 J
SB-02 (23-25)	U	U	U
SB-03 (28-30)	U	U	U
SB-04 (23-25)	5.2 J	U	U
SB-05 (23-25)	3.2 J	4.4 J	9.7 J
SB-06 (23-25)	5.4 J	4.4 J	8.5 J

Notes:

J	Analyte is present at an estimated concentration between the Method Detection Limit and Reporting Limit
mg/kg	Milligrams per kilogram
TRRP	Texas Risk Reduction Program
PCL	Protective Concentration Levels, assuming 0.5-acre source area (Texas Commission on Environmental Quality 2022)
U	Analyzed but not detected above the MDL

TABLE 7

**SUMMARY OF METALS ANALYSIS OF SOIL SAMPLES
7811 HARRISBURG BOULEVARD PHASE II ESA, HOUSTON, TEXAS**

	Analytes																
	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Thallium	Vanadium	Zinc
Tier 1 Protective Concentration Levels - Ingestion or Combined (mg/kg)																	
TRRP PCLs - Residential Soil	65,000	5.4	5.0	440	1.8	1.5	2,400	220	1,000	3.0	1,200	2.1	160	2.3	1.7	76	2,400
Sample ID	Sample Results (mg/kg)																
SB-01 (0-2)	10,000	U	3.1	380	0.95	U	9.7	12.0	6.2	29	640	U	9.3	U	0.10 J	29	25
SB-02 (0-2)	17,000	U	2.0	440	1.1	U	12.0	6.8	5.9	14	190	U	11	U	0.15 J	23	22
SB-03 (0-2)	8,300	0.096 J	1.9	120	0.69	0.11 J	9.1	5.9	5.6	56	71	U	5.2	0.36	0.075 J	25	63
SB-04 (0-2)	22,000	U	2.4	510	1.3	U	16.0	8.2	8.4	16	500	U	14	U	0.26 J	34	28
SB-05 (0-2)	6,700	0.22 J	2.1	110	0.71	0.11 J	8.6	5.4	12.0	50	230	0.037	5.6	U	0.061 J	19	74
SB-06 (0-2)	7,100	U	2.9	180	0.82	0.15	8.2	6.7	14.0	40	180	0.025	6.9	0.44	0.078 J	26	57
Tier 1 Protective Concentration Levels - GWSoil (mg/kg)																	
TRRP PCLs - Residential Soil	170,000	5.4	5	440	1.8	2	2,400	220	1,000	3	1,200	2.1	160	2	1.7	880	2,400
Sample ID	Sample Results (mg/kg)																
SB-01 (23-25)	1,400	U	0.80	5.9	0.10 J	U	2.5	0.9	1.2	1.8	84	U	2.6	U	U	4.0	4.4
Duplicate - SB-01 (23-25)	1,600	U	1.40	11	0.14	U	3.0	1.2	1.7	2.2	98	U	3.2	U	U	6.4	5.5
SB-02 (23-25)	4,600	U	2.90	38	0.33	U	6.3	2.7	3.9	4.4	310	U	6.5	U	0.059 J	13.0	12
SB-03 (28-30)	11,000	U	2.40	77	0.69	U	13.0	8.6	6.6	15	500	U	12	U	0.11 J	18.0	24
SB-04 (23-25)	5,900	U	1.40	18	0.44	U	6.5	3.3	3.1	8.5	100	U	5.6	U	0.082 J	13.0	10
SB-05 (23-25)	1,900	U	1.80	6.7	0.17	U	4.7	1.4	1.9	2.6	70	U	3.4	U	0.096 J	8.4	5.6
SB-06 (23-25)	4,800	U	2.30	61	0.35	U	6.8	2.7	4.1	4.9	160	U	6.8	U	0.061 J	12.0	13

Notes:

	Highlighting indicates a sample result concentration that exceeds the applicable screening level
	Highlighting indicates a sample result concentration that exceeds the applicable screening level but is within the Texas Background Soil Concentration
J	Analyte is present at an estimated concentration between the Method Detection Limit and Reporting Limit
NE	None established
PCL	Protective Concentration Levels, assuming 0.5-acre source area (Texas Commission on Environmental Quality 2022)
TRRP	Texas Risk Reduction Program
mg/kg	Milligrams per kilogram
U	Analyzed but not detected above the MDL

TABLE 8

**SUMMARY OF VOLATILE ORGANIC COMPOUNDS ANALYSIS OF
GROUNDWATER SAMPLES
7811 HARRISBURG BOULEVARD, HOUSTON, TEXAS**

Sample ID	Analytes
	Methyl tert-butyl ether
Tier 1 Protective Concentration Levels - Ingestion (mg/L)	
TRRP PCLs - Residential Groundwater	0.2
Sample Results (mg/L)	
TW-01	U
TW-02	U
TW-03	0.0019
TW-04	U
TW-05	U
TW-06	U

Notes:

mg/L	Milligrams per liter
PCL	Protective Concentration Levels (Texas Commission on Environmental Quality 2022)
TRRP	Texas Risk Reduction Program
U	Analyzed but not detected above the laboraotry reporting limit

TABLE 9

SUMMARY OF SEMIVOLATILE ORGANIC COMPOUNDS ANALYSIS OF GROUNDWATER SAMPLES
7811 HARRISBURG BOULEVARD PHASE II ESA, HOUSTON, TEXAS

Sample ID													
	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Bis(2-ethylhexyl) phthalate	Dibenzo(a,h)anthracene	Di-n-butyl phthalate	Indeno(1,2,3-cd)pyrene	Butyl benzyl phthalate	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
Tier 1 Protective Concentration Levels - Ingestion (mg/L)													
TRRP PCLs - Residential Groundwater	0.0002	0.0091	0.73	0.091	0.006	0.0002	2.4	0.0091	0.48	0.098	0.49	0.73	0.73
Sample Results (mg/L)													
TW-01	U	U	U	U	0.00077 J	U	U	U	U	U	U	U	U
TW-02	U	U	U	U	0.00063 J	U	0.00048 J	U	0.00049 J	U	U	U	U
TW-03	U	U	U	U	0.00074 J	U	0.00063 J	U	U	U	U	U	U
TW-04	U	U	U	U	0.00083 J	U	U	U	U	U	U	U	U
TW-05	U	U	U	U	U	U	U	U	U	U	U	U	U
TW-06	0.00014 J	0.00011 J	0.00014 J	0.00012 J	0.00079 J	0.00013 J	0.00071 J	0.00014 J	0.00056 J	U	U	U	0.000061 J

- Notes:
- J Analyte is present at an estimated concentration between the Method Detection Limit and Reporting Limit
 - mg/L Milligrams per liter
 - PCL Protective Concentration Levels (Texas Commission on Environmental Quality 2022)
 - TRRP Texas Risk Reduction Program
 - U Analyzed but not detected above the laboraotry reporting limit

TABLE 10

**SUMMARY OF TOTAL PETROLEUM HYDROCARBONS ANALYSIS OF GROUNDWATER SAMPLES
7811 HARRISBURG BOULEVARD PHASE II ESA, HOUSTON, TEXAS**

Sample ID	Analytes		
	TPH-GRO	TPH-DRO	TPH-ORO
Tier 1 Protective Concentration Levels - Ingestion (mg/L)			
TRRP PCLs - Residential Groundwater	0.98	0.98	0.98
Sample Results (mg/L)			
TW-01	U	0.19	0.21
TW-02	U	U	0.088 J
TW-03	U	U	U
TW-04	U	U	U
TW-05	U	U	0.0067 J
TW-06	U	U	0.094 J

Notes:

J	Analyte is present at an estimated concentration between the Method Detection Limit and Reporting Limit
mg/L	Milligrams per liter
PCL	Protective Concentration Levels (Texas Commission on Environmental Quality 2022)
TRRP	Texas Risk Reduction Program
U	Analyzed but not detected above the laboratory reporting limit

TABLE 11

**SUMMARY OF METALS ANALYSIS OF GROUNDWATER SAMPLES
7811 HARRISBURG BOULEVARD PHASE II ESA, HOUSTON, TEXAS**

Sample ID	Analytes										
	Arsenic	Barium	Chromium	Copper	Lead	Manganese	Nickel	Selenium	Thallium	Vanadium	Zinc
Tier 1 Protective Concentration Levels - Ingestion (mg/L)											
TRRP PCLs - Residential Groundwater	0.01	2.00	0.10	1.30	0.015	1.10	0.49	0.05	0.002	0.044	7.30
Sample Results (mg/L)											
TW-01	0.00047 J	0.016	U	U	U	0.21	0.0013 J	0.0028 J	U	0.0028 J	U
TW-02	0.0011 J	0.030	U	U	U	0.22	0.0018 J	U	U	0.0031 J	0.0024 J
TW-03	0.014	0.035	0.00061 J	U	U	0.45	0.0031 J	U	0.00046 J	0.0012 J	0.0027 J
TW-04	0.0007 J	0.017	U	0.012	0.0016 J	0.14	0.0049 J	U	U	0.0037 J	0.020
TW-05	0.00041 J	0.017	U	U	U	0.16	0.0380	U	0.00052 J	0.0026 J	0.0061 J
TW-06	0.00068 J	0.015	0.00072 J	U	U	0.074	0.0030 J	0.0005 J	0.0032 J	0.0055	U

Notes:

J	Analyte is present at an estimated concentration between the Method Detection Limit and Reporting Limit
mg/L	Milligrams per liter
PCL	Protective Concentration Levels (Texas Commission on Environmental Quality 2022)
TRRP	Texas Risk Reduction Program
U	Analyzed but not detected above the laboratory reporting limit

TABLE 12

**SUMMARY OF VOLATILE ORGANIC COMPOUNDS ANALYSIS OF SOIL GAS SAMPLES
7811 HARRISBURG BOULEVARD PHASE II ESA, HOUSTON, TEXAS**

Sample ID	Analytes														
	Acetone	Benzene	1,3-Butadiene	2-Butanone	Carbon Disulfide	Dichlorodifluoromethane	1,4-Dioxane	Ethyl Acetate	n-Heptane	n-Hexane	2-Propanol	Propene	Tetrahydrofuran	Trichlorofluoromethane	Toluene
EPA VISL, Near Source Soil Gas (μm^3)															
EPA VISLs - Residential	NE	12	3.12	17,400	2,430	348	19	243	1,390	2,430	695	10,400	6,950	NE	17,400
Sample Results (μm^3)															
SV-01	230	3.0	5.5	37	28	2.9	1.9	11	3.0	3.7	37	130	U	4	10
SV-02	180	5.9	8.4	20	30	2.8	U	100	11	14	88	260	U	8.6	35
SV-04	110	2.3	U	11	8.1	2.5	U	U	U	2.2	5.5	60	U	U	4.5
SV-05	64	4.5	4.1	9.6	25	2.5	U	U	70	140	4.3	75	U	U	4.6
SV-06	210	7.3	15	30	47	2.8	U	U	6.3	21	7.1	370	9.6	U	5.7

Notes:

μm^3	Micrograms per cubic meter
EPA	U.S. Environmental Protection Agency
NE	Not Established
U	Analyzed but not detected above the laboratory reporting limit
VISL	Vapor Intrusion Screening Level, assuming cancer risk of 10^{-6} , and a total hazard quotient of 0.1 (EPA 2022)

APPENDIX F LABORATORY ANALYTICAL DATA



27-Dec-2022

Kaitlyn Mitchell
Tetra Tech
415 Oak Street
Kansas City, MO 64106

Re: **Houston**

Work Order: **22120868**

Dear Kaitlyn,

ALS Environmental received 14 samples on 08-Dec-2022 02:30 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 124.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Jodi Blouw

Jodi Blouw

Report of Laboratory Analysis

Certificate No: FL E871106

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Client: Tetra Tech
Project: Houston
Work Order: 22120868

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory case narrative, and the following reportable data:

- R1 Field chain-of-custody documentation:
- R2 Sample identification cross-reference
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies:
See Case Narrative.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached Case Narrative and QC Summaries. By my 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, and no information affecting the quality of the data has been knowingly withheld.



Jodi Blouw

SemiVolatile Data Assessment Checklist									
SVO, VOC, DRO, Metals, GRO, Moisture		Batch Number SVMS9_221221A, GC8_221219B, GC9-221212A, GC9_221213A, HG5_221214A&B, ICPMS3_221216B, ICPMS3_221219B, MOIST_221215A&B, VMS8_221215A&B			Instrument ID: SVMS9, GC8, GC9, HG4, ICPMS3, VMS9				
Method: 8270, 8260, 8015, 6020, 7470		Work order Number (s):- 22120870							
Analyst Name: EEW, MTB, KA, SP, SB, DS, AG		Date: 12/21/2022		Reviewer Name: various			Date: 12/12 – 12/21		
	A ¹	Description	Yes	No	N A ²	NR ³	ER# 4		
R3	O	Test Reports							
		1) Were all samples prepared and analyzed within holding times?	X						
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X						
		3) Were calculations checked by a peer or supervisor?	X						
		4) Were all analyte identifications checked by a peer or supervisor?	X						
		5) Were sample quantitation limits reported for all analytes not detected?	X						
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X						
		7) Was % moisture (or solids) reported for all soil and sediment samples?	X						
		8) If required for the project, TICs reported?	X						
R4	O	SURROGATE RECOVERY DATA							
		1) Were surrogates added prior to extraction?	X						
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X						
R5	O	TEST REPORTS/SUMMARY FORMS FOR BLANK SAMPLES							
		1) Were appropriate type(s) of blanks analyzed?	X						
		2) Were blanks analyzed at the appropriate frequency?	X						
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X						
		4) Were blank concentrations < ½ MQL?	X						
R6	O	LABORATORY CONTROL SAMPLES (LCS):							
		1) Were all COCs included in the LCS?	X						
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X						
		3) Were LCSs analyzed at the required frequency?	X						
		4) Were LCS and LCSD %Rs within the laboratory QC limits?	X						
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X						
		6) Was the LCSD RPD within QC limits?	X						
R7	O	MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA							
		1) Were the project or method specified analytes included in the MS and MSD?	X						
		2) Were MS/MSD analyzed at the appropriate frequency?	X						
		3) Were MS and MSD %Rs within the laboratory QC limits?		X				1	
		4) Were MS/MSD RPDs within laboratory QC limits?	X						
R8	O	ANALYTICAL DUPLICATE DATA (IF REQUIRED)							
		1) Were appropriate analytical duplicates analyzed for each matrix?	X						
		2) Were analytical duplicates analyzed at the appropriate frequency?	X						
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X						
R9	O	METHOD QUANTITATION LIMITS (MQLS):							
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X						
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X						
		3) Are unadjusted MQLs included in the laboratory data package?	X						
R10	O	OTHER PROBLEMS/ANOMALIES							
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X						
		2) Were all necessary corrective actions performed for the reported data?	X						
		3) If requested, is the justification for elevated SQLs documented?	X						

SemiVolatile Data Assessment Checklist						
		Batch Number:				
A ¹	Description	Yes	No	NA ²	NR ³	ER# ⁴

S1	O	INITIAL CALIBRATION (ICAL)				
		1) Were response factors (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?	X			
		2) Were percent RSDs or correlation coefficient criteria met?	X			
		3) Was the number of standards recommended in the method used for all analytes?	X			
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X			
		5) Are ICAL data available for all instruments used?	X			
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X			
S2	O	INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICCV AND CCV) AND				
		1) Was the CCV analyzed at the method-required frequency?	X			
		2) Were percent differences for each analyte within the method-required QC limits?		X		1
		3) Was the ICAL curve verified for each analyte?	X			
		4) Was the absolute value of the analyte concentration in the organic CCB < MDL?	X			
S3	O	MASS SPECTRAL TUNING:				
		1) Was the appropriate compound for the method used for tuning?	X			
		2) Were ion abundance data within the method-required QC limits?	X			
S4	O	INTERNAL STANDARDS (IS):				
		Were IS area counts and retention times within the method-required QC limits?	X			
S5	O	RAW DATA				
		1) Were the raw data (e.g., chromatograms, spectral data) reviewed by an analyst?	X			
		2) Were data associated with manual integrations flagged on the raw data?	X			
S7	O	TENTATIVELY IDENTIFIED COMPOUNDS (TICS):				
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?	X			
S10	O	PROFICIENCY TEST REPORTS:				
		Are proficiency testing or inter-laboratory comparison results on file?	X			
S11	O	METHOD DETECTION LIMIT (MDL) STUDIES				
		1) Was a MDL study performed for each reported analyte?	X			
S11	O	2) Is the MDL either adjusted or supported by the analysis of DCSs?	X			
S12	O	STANDARDS DOCUMENTATION				
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X			
S13	O	COMPOUND/ANALYTE IDENTIFICATION PROCEDURES				
		Are the procedures for compound/analyte identification documented?	X			
S14	O	DEMONSTRATION OF ANALYST COMPETENCY (DOC)				
		1) Was DOC conducted consistent with NELAC 5C or ISO/IEC 4.2.2?	X			
S14	O	2) Is documentation of the analyst's competency up-to-date and on file?	X			
S15	O	VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS				
		Are all the methods used to generate the data documented, verified, and validated, where applicable,	X			
S16	O	LABORATORY STANDARD OPERATING PROCEDURES (SOPS):				
		Are laboratory SOPs current and on file for each method performed?	X			

1 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

2 NA = Not applicable.

3 NR = Not Reviewed.

4 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

SemiVolatile Data Assessment Checklist		
		Batch Number:
ER # ¹	DESCRIPTION	
1	See attached Case Narrative	
2	.	
3		
4		
5		
6		

- 1 ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked on the LRC)

Client: Tetra Tech
Project: Houston
Work Order: 22120868

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
22120868-01	SB-03 (0-2)	Soil		12/5/2022 10:15	12/8/2022 14:30	<input type="checkbox"/>
22120868-02	SB-03 (28-30)	Soil		12/5/2022 10:25	12/8/2022 14:30	<input type="checkbox"/>
22120868-03	SB-02 (0-2)	Soil		12/5/2022 11:50	12/8/2022 14:30	<input type="checkbox"/>
22120868-04	SB-02 (23-25)	Soil		12/5/2022 12:00	12/8/2022 14:30	<input type="checkbox"/>
22120868-05	SB-01 (0-2)	Soil		12/5/2022 13:50	12/8/2022 14:30	<input type="checkbox"/>
22120868-06	SB-01 (23-25)	Soil		12/5/2022 14:00	12/8/2022 14:30	<input type="checkbox"/>
22120868-07	SB-06 (0-2)	Soil		12/5/2022 15:40	12/8/2022 14:30	<input type="checkbox"/>
22120868-08	SB-06 (23-25)	Soil		12/5/2022 15:50	12/8/2022 14:30	<input type="checkbox"/>
22120868-09	Trip Blank	Soil		12/5/2022	12/8/2022 14:30	<input type="checkbox"/>
22120868-10	Duplicate	Soil		12/5/2022	12/8/2022 14:30	<input type="checkbox"/>
22120868-11	SB-05 (0-2)	Soil		12/6/2022 09:30	12/8/2022 14:30	<input type="checkbox"/>
22120868-12	SB-05 (23-25)	Soil		12/6/2022 09:40	12/8/2022 14:30	<input type="checkbox"/>
22120868-13	SB-04 (0-2)	Soil		12/6/2022 11:00	12/8/2022 14:30	<input type="checkbox"/>
22120868-14	SB-04 (23-25)	Soil		12/6/2022 11:10	12/8/2022 14:30	<input type="checkbox"/>

Client: Tetra Tech
Project: Houston
WorkOrder: 22120868

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

Client: Tetra Tech
Project: Houston
Work Order: 22120868

Case Narrative

Samples for the above noted Work Order were received on 12/8/2022. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:

Batch 208061, Method SW8260C, Sample LCS-208061: The LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No qualification is necessary for this analyte: Chloroethane, Dichlorofluoromethane

Batch 208061, Method SW8260C, Sample SB-05 (0-2) (22120868-11A): The Continuing Calibration Verification did not meet acceptance criteria with low bias. Instrument sensitivity was verified as sufficient through the analysis of a low-level standard. The following non-detects are reported without qualification: Carbon Disulfide, Bromomethane

Batch 208061, Method SW8260C, Sample SB-05 (23-25) (22120868-12A): The Continuing Calibration Verification did not meet acceptance criteria with low bias. Instrument sensitivity was verified as sufficient through the analysis of a low-level standard. The following non-detects are reported without qualification: Carbon Disulfide, Bromomethane

Batch 208061, Method SW8260C, Sample SB-04 (0-2) (22120868-13A): The Continuing Calibration Verification did not meet acceptance criteria with low bias. Instrument sensitivity was verified as sufficient through the analysis of a low-level standard. The following non-detects are reported without qualification: Carbon Disulfide, Bromomethane

Batch 208061, Method SW8260C, Sample SB-04 (23-25) (22120868-14A): The Continuing Calibration Verification did not meet acceptance criteria with low bias. Instrument sensitivity was verified as sufficient through the analysis of a low-level standard. The following non-detects are reported without qualification: Carbon Disulfide, Bromomethane

Client: Tetra Tech
Project: Houston
Work Order: 22120868

Case Narrative

No other deviations or anomalies were noted.

Extractable Organics:

No deviations or anomalies were noted.

Metals:

Batch 208474, Method SW6020B, Sample 22120868-12BMS: The MS recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Al, Ca

Batch 208474, Method SW6020B, Sample 22120868-12BMS: The MS recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Fe

Batch 208474, Method SW6020B, Sample 22120868-12BMSD: The MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Al, Ca

Batch 208474, Method SW6020B, Sample 22120868-12BMSD: The MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Mn

Batch 208474, Method SW6020B, Sample 22120868-12BMSD: The MSD recovery was outside of the control limit. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: Cr

No other deviations or anomalies were noted.

Wet Chemistry:

No deviations or anomalies were noted.

Batch 208562, Method SW846 8270D, Sample SB-02 (0-2) (22120868-03B): Matrix

Batch 208562, Method SW846 8270D, Sample SB-02 (23-25) (22120868-04B): Matrix

Batch 208562, Method SW846 8270D, Sample SB-01 (0-2) (22120868-05B): Matrix

Batch 208562, Method SW846 8270D, Sample SB-01 (23-25) (22120868-06B): Matrix

Batch 208562, Method SW846 8270D, Sample SB-06 (0-2) (22120868-07B): Matrix

Client: Tetra Tech
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Batch 208562, Method SW846 8270D, Sample SB-06 (23-25) (22120868-08B): Matrix

Batch 208562, Method SW846 8270D, Sample Duplicate (22120868-10B): Matrix

Batch 208562, Method SW846 8270D, Sample SB-05 (23-25) (22120868-12B): Matrix

Batch 208562, Method SW846 8270D, Sample SB-04 (0-2) (22120868-13B): Matrix

Batch 208562, Method SW846 8270D, Sample SB-04 (23-25) (22120868-14B): Matrix

Batch 208061, Method SW8260C, Sample Trip Blank (22120868-09A): The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: vinyl chloride, chloroethane, dichlorodifluoromethane

Batch 208061, Method SW8260C, Sample Duplicate (22120868-10A): The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: vinyl chloride, chloroethane, dichlorodifluoromethane

Batch 208061, Method SW8260C, Sample SB-03 (0-2) (22120868-01A): The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: vinyl chloride, chloroethane, dichlorodifluoromethane

Batch 208061, Method SW8260C, Sample SB-03 (28-30) (22120868-02A): The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: vinyl chloride, chloroethane, dichlorodifluoromethane

Batch 208061, Method SW8260C, Sample SB-02 (0-2) (22120868-03A): The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: vinyl chloride, chloroethane, dichlorodifluoromethane

Batch 208061, Method SW8260C, Sample SB-02 (23-25) (22120868-04A): The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: vinyl chloride, chloroethane, dichlorodifluoromethane

Batch 208061, Method SW8260C, Sample SB-01 (0-2) (22120868-05A): The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample

Client: Tetra Tech
Project: Houston
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Case Narrative

results were non-detect for the following analytes: vinyl chloride, chloroethane, dichlorodifluoromethane

Batch 208061, Method SW8260C, Sample SB-01 (23-25) (22120868-06A): The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: vinyl chloride, chloroethane, dichlorodifluoromethane

Batch 208061, Method SW8260C, Sample SB-06 (0-2) (22120868-07A): The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: vinyl chloride, chloroethane, dichlorodifluoromethane

Batch 208061, Method SW8260C, Sample SB-06 (23-25) (22120868-08A): The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: vinyl chloride, chloroethane, dichlorodifluoromethane

Batch 208061, Method SW8260C, Sample SB-05 (0-2) (22120868-11A): The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: Chloroethane, Vinyl Chloride

Batch 208061, Method SW8260C, Sample SB-05 (0-2) (22120868-11A): The Continuing Calibration Verification did not meet acceptance criteria with low bias. Instrument sensitivity was verified as sufficient through the analysis of a low-level standard. The following non-detects are reported without qualification: Carbon Disulfide, Bromomethane

Batch 208061, Method SW8260C, Sample SB-05 (23-25) (22120868-12A): The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: Chloroethane, Vinyl Chloride

Batch 208061, Method SW8260C, Sample SB-05 (23-25) (22120868-12A): The Continuing Calibration Verification did not meet acceptance criteria with low bias. Instrument sensitivity was verified as sufficient through the analysis of a low-level standard. The following non-detects are reported without qualification: Carbon Disulfide, Bromomethane

Batch 208061, Method SW8260C, Sample SB-04 (0-2) (22120868-13A): The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: Chloroethane, Vinyl Chloride

Batch 208061, Method SW8260C, Sample SB-04 (0-2) (22120868-13A): The Continuing Calibration Verification did not meet acceptance criteria with low bias. Instrument sensitivity

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Case Narrative

was verified as sufficient through the analysis of a low-level standard. The following non-detects are reported without qualification: Carbon Disulfide, Bromomethane

Batch 208061, Method SW8260C, Sample SB-04 (23-25) (22120868-14A): The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: Chloroethane, Vinyl Chloride

Batch 208061, Method SW8260C, Sample SB-04 (23-25) (22120868-14A): The Continuing Calibration Verification did not meet acceptance criteria with low bias. Instrument sensitivity was verified as sufficient through the analysis of a low-level standard. The following non-detects are reported without qualification: Carbon Disulfide, Bromomethane

Batch R360491, Method SW3550C, Sample 22120934-01A DUP: DUP is for an unrelated sample

Batch R360495, Method SW3550C, Sample 22120868-08B DUP: The RPD between the sample and its duplicate was out of control. The corresponding sample result should be considered estimated for this analyte.

Batch 208061, Method SW8260C, Sample LCS-208061: The LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No qualification is necessary for this analyte: Chloroethane, Dichlorofluoromethane

Batch 208562, Method SW8270E, Sample 22120999-03B MS: MS and MSD are for an unrelated sample

Batch 208464, Method SW6020B, Sample 22121117-03AMS: MS and MSD are for an unrelated sample

Batch 208464, Method SW6020B, Sample 22121117-03AMS: MS and MSD are for an unrelated sample

Batch 208464, Method SW6020B, Sample 22121117-03AMS: MS and MSD are for an unrelated sample

Batch 208474, Method SW6020B, Sample 22120868-12BMS: The MS recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Fe

Batch 208474, Method SW6020B, Sample 22120868-12BMS: The MS recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Al, Ca

Client: Tetra Tech
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Batch 208562, Method SW8270E, Sample 22120999-03B MSD: MSD is for an unrelated sample

Batch 208464, Method SW6020B, Sample 22121117-03AMSD: MSD is for an unrelated sample

Batch 208464, Method SW6020B, Sample 22121117-03AMSD: MSD is for an unrelated sample

Batch 208464, Method SW6020B, Sample 22121117-03AMSD: MSD is for an unrelated sample

Batch 208474, Method SW6020B, Sample 22120868-12BMSD: The MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Al, Ca

Batch 208474, Method SW6020B, Sample 22120868-12BMSD: The MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Mn

Batch 208474, Method SW6020B, Sample 22120868-12BMSD: The MSD recovery was outside of the control limit. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: Cr

Batch 208562, Method SW846 8270D, Sample 22120999-03B MSD: MSD is for an unrelated sample

Batch 208061, Method SW5035A, Sample SB-03 (0-2) (22120868-01A): Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample SB-03 (0-2) (22120868-01A): Updated 12/16/2022 SJB

Batch 208562, Method SW3546, Sample SB-03 (0-2) (22120868-01B): Reduced due to high moisture content

Batch 208061, Method SW5035A, Sample SB-03 (28-30) (22120868-02A): Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample SB-03 (28-30) (22120868-02A): Updated 12/16/2022 SJB

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Batch 208562, Method SW3546, Sample SB-03 (28-30) (22120868-02B): Reduced due to high moisture content

Batch 208061, Method SW5035A, Sample SB-02 (0-2) (22120868-03A): Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample SB-02 (0-2) (22120868-03A): Updated 12/16/2022 SJB

Batch 208562, Method SW3546, Sample SB-02 (0-2) (22120868-03B): Reduced due to high moisture content

Batch 208061, Method SW5035A, Sample SB-02 (23-25) (22120868-04A): Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample SB-02 (23-25) (22120868-04A): Updated 12/16/2022 SJB

Batch 208562, Method SW3546, Sample SB-02 (23-25) (22120868-04B): Reduced due to high moisture content

Batch 208061, Method SW5035A, Sample SB-01 (0-2) (22120868-05A): Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample SB-01 (0-2) (22120868-05A): Updated 12/16/2022 SJB

Batch 208562, Method SW3546, Sample SB-01 (0-2) (22120868-05B): Reduced due to high moisture content

Batch 208061, Method SW5035A, Sample SB-01 (23-25) (22120868-06A): Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample SB-01 (23-25) (22120868-06A): Updated 12/16/2022 SJB

Batch 208562, Method SW3546, Sample SB-01 (23-25) (22120868-06B): Reduced due to high moisture content

Batch 208061, Method SW5035A, Sample SB-06 (0-2) (22120868-07A): Updated HJ 12/19/2022

Client: Tetra Tech
Project: Houston
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Batch 208088, Method SW5035A, Sample SB-06 (0-2) (22120868-07A): Updated 12/16/2022 SJB

Batch 208562, Method SW3546, Sample SB-06 (0-2) (22120868-07B): Reduced due to high moisture content

Batch 208061, Method SW5035A, Sample SB-06 (23-25) (22120868-08A): Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample SB-06 (23-25) (22120868-08A): updated pmoist mtb 12/19/22

Batch 208562, Method SW3546, Sample SB-06 (23-25) (22120868-08B): Reduced due to high moisture content

Batch 208061, Method SW5035A, Sample Trip Blank (22120868-09A): TB.

Batch 208061, Method SW5035A, Sample Duplicate (22120868-10A): Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample Duplicate (22120868-10A): Updated 12/16/2022 SJB

Batch 208562, Method SW3546, Sample Duplicate (22120868-10B): Reduced due to high moisture content

Batch 208061, Method SW5035A, Sample SB-05 (0-2) (22120868-11A): Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample SB-05 (0-2) (22120868-11A): Updated 12/16/2022 SJB

Batch 208562, Method SW3546, Sample SB-05 (0-2) (22120868-11B): Reduced due to high moisture content

Batch 208061, Method SW5035A, Sample SB-05 (23-25) (22120868-12A): Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample SB-05 (23-25) (22120868-12A): Updated 12/16/2022 SJB

Batch 208061, Method SW5035A, Sample SB-04 (0-2) (22120868-13A): Updated HJ

Client: Tetra Tech
Project: Houston
Work Order: 22120868

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12/19/2022

Batch 208088, Method SW5035A, Sample SB-04 (0-2) (22120868-13A): Updated 12/16/2022 SJB

Batch 208562, Method SW3546, Sample SB-04 (0-2) (22120868-13B): Reduced due to high moisture content

Batch 208061, Method SW5035A, Sample SB-04 (23-25) (22120868-14A): Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample SB-04 (23-25) (22120868-14A): Updated 12/16/2022 SJB

Batch 208562, Method SW3546, Sample SB-04 (23-25) (22120868-14B): Reduced due to high moisture content

Batch 208061, Method SW5035A, Sample 22120792-04A MS: Updated HJ 12/19/2022

Batch 208061, Method SW5035A, Sample 22120792-04A MSD: Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample 22120868-10A MS: Updated 12/16/2022 SJB

Batch 208088, Method SW5035A, Sample 22120868-10A MSD: Updated 12/16/2022 SJB

Batch 208061, Method SW5035A, Sample 22120792-04A MS: Updated HJ 12/19/2022

Batch 208061, Method SW5035A, Sample 22120792-04A MSD: Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample 22120868-10A MS: Updated 12/16/2022 SJB

Batch 208088, Method SW5035A, Sample 22120868-10A MSD: Updated 12/16/2022 SJB

Batch 208061, Method SW5035A, Sample 22120792-04A MS: Updated HJ 12/19/2022

Batch 208061, Method SW5035A, Sample 22120792-04A MSD: Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample 22120868-10A MS: Updated 12/16/2022 SJB

Batch 208088, Method SW5035A, Sample 22120868-10A MSD: Updated 12/16/2022 SJB

Batch 208061, Method SW5035A, Sample 22120792-04A MS: Updated HJ 12/19/2022

Client: Tetra Tech
Project: Houston
Work Order: 22120868

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Batch 208061, Method SW5035A, Sample 22120792-04A MSD: Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample 22120868-10A MS: Updated 12/16/2022 SJB

Batch 208088, Method SW5035A, Sample 22120868-10A MSD: Updated 12/16/2022 SJB

Batch 208061, Method SW5035A, Sample 22120792-04A MS: Updated HJ 12/19/2022

Batch 208061, Method SW5035A, Sample 22120792-04A MSD: Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample 22120868-10A MS: Updated 12/16/2022 SJB

Batch 208088, Method SW5035A, Sample 22120868-10A MSD: Updated 12/16/2022 SJB

Batch 208061, Method SW5035A, Sample 22120792-04A MS: Updated HJ 12/19/2022

Batch 208061, Method SW5035A, Sample 22120792-04A MSD: Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample 22120868-10A MS: Updated 12/16/2022 SJB

Batch 208088, Method SW5035A, Sample 22120868-10A MSD: Updated 12/16/2022 SJB

Batch 208061, Method SW5035A, Sample 22120792-04A MS: Updated HJ 12/19/2022

Batch 208061, Method SW5035A, Sample 22120792-04A MSD: Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample 22120868-10A MS: Updated 12/16/2022 SJB

Batch 208088, Method SW5035A, Sample 22120868-10A MSD: Updated 12/16/2022 SJB

Batch 208061, Method SW5035A, Sample 22120792-04A MS: Updated HJ 12/19/2022

Batch 208061, Method SW5035A, Sample 22120792-04A MSD: Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample 22120868-10A MS: Updated 12/16/2022 SJB

Batch 208088, Method SW5035A, Sample 22120868-10A MSD: Updated 12/16/2022 SJB

Batch 208061, Method SW5035A, Sample 22120792-04A MS: Updated HJ 12/19/2022

Batch 208061, Method SW5035A, Sample 22120792-04A MSD: Updated HJ 12/19/2022

Client: Tetra Tech
Project: Houston
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Batch 208061, Method SW5035A, Sample 22120792-04A MS: Updated HJ 12/19/2022

Batch 208061, Method SW5035A, Sample 22120792-04A MSD: Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample 22120868-10A MS: Updated 12/16/2022 SJB

Batch 208088, Method SW5035A, Sample 22120868-10A MSD: Updated 12/16/2022 SJB

Batch 208061, Method SW5035A, Sample 22120792-04A MS: Updated HJ 12/19/2022

Batch 208061, Method SW5035A, Sample 22120792-04A MSD: Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample 22120868-10A MS: Updated 12/16/2022 SJB

Batch 208088, Method SW5035A, Sample 22120868-10A MSD: Updated 12/16/2022 SJB

Batch 208061, Method SW5035A, Sample 22120792-04A MS: Updated HJ 12/19/2022

Batch 208061, Method SW5035A, Sample 22120792-04A MSD: Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample 22120868-10A MS: Updated 12/16/2022 SJB

Batch 208088, Method SW5035A, Sample 22120868-10A MSD: Updated 12/16/2022 SJB

Batch 208061, Method SW5035A, Sample 22120792-04A MS: Updated HJ 12/19/2022

Batch 208061, Method SW5035A, Sample 22120792-04A MSD: Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample 22120868-10A MS: Updated 12/16/2022 SJB

Batch 208088, Method SW5035A, Sample 22120868-10A MSD: Updated 12/16/2022 SJB

Batch 208061, Method SW5035A, Sample 22120792-04A MS: Updated HJ 12/19/2022

Batch 208061, Method SW5035A, Sample 22120792-04A MSD: Updated HJ 12/19/2022

Batch 208088, Method SW5035A, Sample 22120868-10A MS: Updated 12/16/2022 SJB

Batch 208088, Method SW5035A, Sample 22120868-10A MSD: Updated 12/16/2022 SJB

Batch 208253, Method SW7471B: The test results meet requirements of the current NELAP

Client: Tetra Tech
Project: Houston
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standards, state requirements or programs where applicable.

Batch 208254, Method SW7471B: The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch 208555, Method SW8015D: The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch R360605, Method SW3550C: The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-03 (0-2)
Collection Date: 12/5/2022 10:15 AM

Work Order: 22120868
Lab ID: 22120868-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW3550 / 12/19/22		Analyst: MTB
DRO (C10-C28)	3.9	J	3.4	12	mg/Kg-dry	1	12/19/2022 21:15
ORO (C28-C40)	17		5.7	12	mg/Kg-dry	1	12/19/2022 21:15
Surr: 4-Terphenyl-d14	69.4			25-110	%REC	1	12/19/2022 21:15
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035A / 12/11/22		Analyst: MTB
GRO (C6-C10)	U		2,100	5,100	µg/Kg-dry	1	12/12/2022 13:04
Surr: Toluene-d8	86.7			78-115	%REC	1	12/12/2022 13:04
MERCURY BY CVA			Method: SW7471B		Prep: SW7471 / 12/13/22		Analyst: KRA
Mercury	U		0.014	0.021	mg/Kg-dry	1	12/14/2022 13:49
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 12/16/22		Analyst: STP
Aluminum	8,300		230	290	mg/Kg-dry	100	12/19/2022 14:45
Antimony	0.096	J	0.096	0.36	mg/Kg-dry	1	12/16/2022 19:24
Arsenic	1.9		0.043	0.36	mg/Kg-dry	1	12/16/2022 19:24
Barium	120		0.33	0.36	mg/Kg-dry	1	12/16/2022 19:24
Beryllium	0.69		0.024	0.14	mg/Kg-dry	1	12/16/2022 19:24
Cadmium	0.11	J	0.021	0.14	mg/Kg-dry	1	12/16/2022 19:24
Calcium	9,800		17	36	mg/Kg-dry	1	12/16/2022 19:24
Chromium	9.1		0.16	0.36	mg/Kg-dry	1	12/16/2022 19:24
Cobalt	5.9		0.059	0.36	mg/Kg-dry	1	12/16/2022 19:24
Copper	5.6		0.36	0.36	mg/Kg-dry	1	12/16/2022 19:24
Iron	7,100		11	14	mg/Kg-dry	1	12/16/2022 19:24
Lead	56		0.17	0.36	mg/Kg-dry	1	12/16/2022 19:24
Magnesium	1,100		10	14	mg/Kg-dry	1	12/16/2022 19:24
Manganese	71		0.30	0.36	mg/Kg-dry	1	12/16/2022 19:24
Nickel	5.2		0.19	0.36	mg/Kg-dry	1	12/16/2022 19:24
Potassium	510		6.0	14	mg/Kg-dry	1	12/16/2022 19:24
Selenium	0.36		0.33	0.36	mg/Kg-dry	1	12/16/2022 19:24
Silver	U		0.047	0.36	mg/Kg-dry	1	12/16/2022 19:24
Sodium	74		19	21	mg/Kg-dry	1	12/16/2022 19:24
Thallium	0.075	J	0.056	0.36	mg/Kg-dry	1	12/16/2022 19:24
Vanadium	25		0.091	0.36	mg/Kg-dry	1	12/16/2022 19:24
Zinc	63		0.70	0.71	mg/Kg-dry	1	12/16/2022 19:24
SEMI-VOLATILE ORGANIC COMPOUNDS			Method: SW846 8270D		Prep: SW3546 / 12/19/22		Analyst: EEW
1,1'-Biphenyl	U		58	83	µg/Kg-dry	1	12/21/2022 16:30
1,2,4,5-Tetrachlorobenzene	U		75	420	µg/Kg-dry	1	12/21/2022 16:30
1,4-Dioxane	U		200	420	µg/Kg-dry	1	12/21/2022 16:30
1-Methylnaphthalene	U		12	17	µg/Kg-dry	1	12/21/2022 16:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-03 (0-2)
Collection Date: 12/5/2022 10:15 AM

Work Order: 22120868
Lab ID: 22120868-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,2'-Oxybis(1-chloropropane)	U		57	83	µg/Kg-dry	1	12/21/2022 16:30
2,3,4,6-Tetrachlorophenol	U		61	170	µg/Kg-dry	1	12/21/2022 16:30
2,4,5-Trichlorophenol	U		50	83	µg/Kg-dry	1	12/21/2022 16:30
2,4,6-Trichlorophenol	U		22	83	µg/Kg-dry	1	12/21/2022 16:30
2,4-Dichlorophenol	U		45	83	µg/Kg-dry	1	12/21/2022 16:30
2,4-Dimethylphenol	U		43	83	µg/Kg-dry	1	12/21/2022 16:30
2,4-Dinitrophenol	U		150	1,700	µg/Kg-dry	1	12/21/2022 16:30
2,4-Dinitrotoluene	U		54	83	µg/Kg-dry	1	12/21/2022 16:30
2,6-Dinitrotoluene	U		55	83	µg/Kg-dry	1	12/21/2022 16:30
2-Chloronaphthalene	U		12	17	µg/Kg-dry	1	12/21/2022 16:30
2-Chlorophenol	U		56	83	µg/Kg-dry	1	12/21/2022 16:30
2-Methylnaphthalene	U		8.5	17	µg/Kg-dry	1	12/21/2022 16:30
2-Methylphenol	U		51	83	µg/Kg-dry	1	12/21/2022 16:30
2-Nitroaniline	U		46	83	µg/Kg-dry	1	12/21/2022 16:30
2-Nitrophenol	U		53	83	µg/Kg-dry	1	12/21/2022 16:30
3&4-Methylphenol	U		46	83	µg/Kg-dry	1	12/21/2022 16:30
3,3'-Dichlorobenzidine	U		39	420	µg/Kg-dry	1	12/21/2022 16:30
3-Nitroaniline	U		49	83	µg/Kg-dry	1	12/21/2022 16:30
4,6-Dinitro-2-methylphenol	U		70	83	µg/Kg-dry	1	12/21/2022 16:30
4-Bromophenyl phenyl ether	U		46	83	µg/Kg-dry	1	12/21/2022 16:30
4-Chloro-3-methylphenol	U		62	83	µg/Kg-dry	1	12/21/2022 16:30
4-Chloroaniline	U		42	170	µg/Kg-dry	1	12/21/2022 16:30
4-Chlorophenyl phenyl ether	U		54	83	µg/Kg-dry	1	12/21/2022 16:30
4-Nitroaniline	U		130	420	µg/Kg-dry	1	12/21/2022 16:30
4-Nitrophenol	U		40	420	µg/Kg-dry	1	12/21/2022 16:30
Acenaphthene	U		12	17	µg/Kg-dry	1	12/21/2022 16:30
Acenaphthylene	U		11	17	µg/Kg-dry	1	12/21/2022 16:30
Acetophenone	U		53	83	µg/Kg-dry	1	12/21/2022 16:30
Anthracene	U		12	17	µg/Kg-dry	1	12/21/2022 16:30
Atrazine	U		49	83	µg/Kg-dry	1	12/21/2022 16:30
Benzaldehyde	U		130	170	µg/Kg-dry	1	12/21/2022 16:30
Benzo(a)anthracene	U		14	17	µg/Kg-dry	1	12/21/2022 16:30
Benzo(a)pyrene	U		10	17	µg/Kg-dry	1	12/21/2022 16:30
Benzo(b)fluoranthene	U		12	17	µg/Kg-dry	1	12/21/2022 16:30
Benzo(g,h,i)perylene	U		13	17	µg/Kg-dry	1	12/21/2022 16:30
Benzo(k)fluoranthene	U		13	17	µg/Kg-dry	1	12/21/2022 16:30
Bis(2-chloroethoxy)methane	U		53	83	µg/Kg-dry	1	12/21/2022 16:30
Bis(2-chloroethyl)ether	U		59	83	µg/Kg-dry	1	12/21/2022 16:30
Bis(2-ethylhexyl)phthalate	U		69	83	µg/Kg-dry	1	12/21/2022 16:30
Butyl benzyl phthalate	U		100	170	µg/Kg-dry	1	12/21/2022 16:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-03 (0-2)
Collection Date: 12/5/2022 10:15 AM

Work Order: 22120868
Lab ID: 22120868-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		130	170	µg/Kg-dry	1	12/21/2022 16:30
Carbazole	U		60	83	µg/Kg-dry	1	12/21/2022 16:30
Chrysene	U		14	17	µg/Kg-dry	1	12/21/2022 16:30
Dibenzo(a,h)anthracene	U		9.0	17	µg/Kg-dry	1	12/21/2022 16:30
Dibenzofuran	U		52	83	µg/Kg-dry	1	12/21/2022 16:30
Diethyl phthalate	U		66	83	µg/Kg-dry	1	12/21/2022 16:30
Dimethyl phthalate	U		64	83	µg/Kg-dry	1	12/21/2022 16:30
Di-n-butyl phthalate	U		51	83	µg/Kg-dry	1	12/21/2022 16:30
Di-n-octyl phthalate	U		72	83	µg/Kg-dry	1	12/21/2022 16:30
Fluoranthene	U		8.0	17	µg/Kg-dry	1	12/21/2022 16:30
Fluorene	U		12	17	µg/Kg-dry	1	12/21/2022 16:30
Hexachlorobenzene	U		52	83	µg/Kg-dry	1	12/21/2022 16:30
Hexachlorobutadiene	U		65	83	µg/Kg-dry	1	12/21/2022 16:30
Hexachlorocyclopentadiene	U		79	83	µg/Kg-dry	1	12/21/2022 16:30
Hexachloroethane	U		35	83	µg/Kg-dry	1	12/21/2022 16:30
Indeno(1,2,3-cd)pyrene	U		12	17	µg/Kg-dry	1	12/21/2022 16:30
Isophorone	U		59	420	µg/Kg-dry	1	12/21/2022 16:30
Naphthalene	U		11	17	µg/Kg-dry	1	12/21/2022 16:30
Nitrobenzene	U		63	420	µg/Kg-dry	1	12/21/2022 16:30
N-Nitrosodi-n-propylamine	U		81	83	µg/Kg-dry	1	12/21/2022 16:30
N-Nitrosodiphenylamine	U		48	83	µg/Kg-dry	1	12/21/2022 16:30
Pentachlorophenol	U		66	83	µg/Kg-dry	1	12/21/2022 16:30
Phenanthrene	U		7.8	17	µg/Kg-dry	1	12/21/2022 16:30
Phenol	U		42	83	µg/Kg-dry	1	12/21/2022 16:30
Pyrene	U		16	17	µg/Kg-dry	1	12/21/2022 16:30
Surr: 2,4,6-Tribromophenol	55.5			48-94	%REC	1	12/21/2022 16:30
Surr: 2-Fluorobiphenyl	76.9			50-103	%REC	1	12/21/2022 16:30
Surr: 2-Fluorophenol	69.0			43-105	%REC	1	12/21/2022 16:30
Surr: 4-Terphenyl-d14	73.6			55-111	%REC	1	12/21/2022 16:30
Surr: Nitrobenzene-d5	74.2			47-100	%REC	1	12/21/2022 16:30
Surr: Phenol-d6	72.5			49-110	%REC	1	12/21/2022 16:30
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035A / 12/9/22		Analyst: DMS
1,1,1-Trichloroethane	U		14	31	µg/Kg-dry	1	12/15/2022 16:36
1,1,2,2-Tetrachloroethane	U		14	31	µg/Kg-dry	1	12/15/2022 16:36
1,1,2-Trichloroethane	U		13	31	µg/Kg-dry	1	12/15/2022 16:36
1,1,2-Trichlorotrifluoroethane	U		19	31	µg/Kg-dry	1	12/15/2022 16:36
1,1-Dichloroethane	U		11	31	µg/Kg-dry	1	12/15/2022 16:36
1,1-Dichloroethene	U		10	31	µg/Kg-dry	1	12/15/2022 16:36
1,2,3-Trichlorobenzene	U		37	100	µg/Kg-dry	1	12/15/2022 16:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-03 (0-2)
Collection Date: 12/5/2022 10:15 AM

Work Order: 22120868
Lab ID: 22120868-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,3-Trichloropropane	U		13	31	µg/Kg-dry	1	12/15/2022 16:36
1,2,4-Trichlorobenzene	U		35	100	µg/Kg-dry	1	12/15/2022 16:36
1,2,4-Trimethylbenzene	U		23	31	µg/Kg-dry	1	12/15/2022 16:36
1,2-Dibromo-3-chloropropane	U		28	100	µg/Kg-dry	1	12/15/2022 16:36
1,2-Dibromoethane	U		8.6	31	µg/Kg-dry	1	12/15/2022 16:36
1,2-Dichlorobenzene	U		12	31	µg/Kg-dry	1	12/15/2022 16:36
1,2-Dichloroethane	U		46	100	µg/Kg-dry	1	12/15/2022 16:36
1,2-Dichloropropane	U		23	31	µg/Kg-dry	1	12/15/2022 16:36
1,3,5-Trimethylbenzene	U		36	100	µg/Kg-dry	1	12/15/2022 16:36
1,3-Dichlorobenzene	U		10	31	µg/Kg-dry	1	12/15/2022 16:36
1,4-Dichlorobenzene	U		7.4	31	µg/Kg-dry	1	12/15/2022 16:36
2-Butanone	U		25	200	µg/Kg-dry	1	12/15/2022 16:36
2-Hexanone	U		15	31	µg/Kg-dry	1	12/15/2022 16:36
4-Methyl-2-pentanone	U		29	31	µg/Kg-dry	1	12/15/2022 16:36
Acetone	U		91	100	µg/Kg-dry	1	12/15/2022 16:36
Benzene	U		15	31	µg/Kg-dry	1	12/15/2022 16:36
Bromochloromethane	U		16	31	µg/Kg-dry	1	12/15/2022 16:36
Bromodichloromethane	U		17	31	µg/Kg-dry	1	12/15/2022 16:36
Bromoform	U		13	31	µg/Kg-dry	1	12/15/2022 16:36
Bromomethane	U		59	100	µg/Kg-dry	1	12/15/2022 16:36
Carbon disulfide	U		16	31	µg/Kg-dry	1	12/15/2022 16:36
Carbon tetrachloride	U		12	31	µg/Kg-dry	1	12/15/2022 16:36
Chlorobenzene	U		10	31	µg/Kg-dry	1	12/15/2022 16:36
Chloroethane	U		30	100	µg/Kg-dry	1	12/15/2022 16:36
Chloroform	U		11	31	µg/Kg-dry	1	12/15/2022 16:36
Chloromethane	U		84	100	µg/Kg-dry	1	12/15/2022 16:36
cis-1,2-Dichloroethene	U		20	31	µg/Kg-dry	1	12/15/2022 16:36
cis-1,3-Dichloropropene	U		23	31	µg/Kg-dry	1	12/15/2022 16:36
Cyclohexane	U		28	100	µg/Kg-dry	1	12/15/2022 16:36
Dibromochloromethane	U		17	31	µg/Kg-dry	1	12/15/2022 16:36
Dichlorodifluoromethane	U		37	100	µg/Kg-dry	1	12/15/2022 16:36
Ethylbenzene	U		6.5	31	µg/Kg-dry	1	12/15/2022 16:36
Isopropylbenzene	U		9.4	31	µg/Kg-dry	1	12/15/2022 16:36
m,p-Xylene	U		41	61	µg/Kg-dry	1	12/15/2022 16:36
Methyl acetate	80	J	37	260	µg/Kg-dry	1	12/15/2022 16:36
Methyl tert-butyl ether	U		8.9	31	µg/Kg-dry	1	12/15/2022 16:36
Methylcyclohexane	U		12	31	µg/Kg-dry	1	12/15/2022 16:36
Methylene chloride	U		82	260	µg/Kg-dry	1	12/15/2022 16:36
o-Xylene	U		12	31	µg/Kg-dry	1	12/15/2022 16:36
Styrene	U		12	31	µg/Kg-dry	1	12/15/2022 16:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-03 (0-2)
Collection Date: 12/5/2022 10:15 AM

Work Order: 22120868
Lab ID: 22120868-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Tetrachloroethene	U		19	31	µg/Kg-dry	1	12/15/2022 16:36
Toluene	U		8.4	31	µg/Kg-dry	1	12/15/2022 16:36
trans-1,2-Dichloroethene	U		11	31	µg/Kg-dry	1	12/15/2022 16:36
trans-1,3-Dichloropropene	U		17	31	µg/Kg-dry	1	12/15/2022 16:36
Trichloroethene	U		14	31	µg/Kg-dry	1	12/15/2022 16:36
Trichlorofluoromethane	U		16	31	µg/Kg-dry	1	12/15/2022 16:36
Vinyl chloride	U		20	31	µg/Kg-dry	1	12/15/2022 16:36
Xylenes, Total	U		41	92	µg/Kg-dry	1	12/15/2022 16:36
Surr: 1,2-Dichloroethane-d4	104			80-120	%REC	1	12/15/2022 16:36
Surr: 4-Bromofluorobenzene	98.7			80-120	%REC	1	12/15/2022 16:36
Surr: Dibromofluoromethane	97.5			80-120	%REC	1	12/15/2022 16:36
Surr: Toluene-d8	101			80-120	%REC	1	12/15/2022 16:36
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	18		0.10	0.10	% of sample	1	12/15/2022 11:57

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-03 (28-30)
Collection Date: 12/5/2022 10:25 AM

Work Order: 22120868
Lab ID: 22120868-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW3550 / 12/19/22		Analyst: MTB
DRO (C10-C28)	U		3.6	13	mg/Kg-dry	1	12/19/2022 21:52
ORO (C28-C40)	U		6.0	13	mg/Kg-dry	1	12/19/2022 21:52
Surr: 4-Terphenyl-d14	68.8			25-110	%REC	1	12/19/2022 21:52
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035A / 12/11/22		Analyst: MTB
GRO (C6-C10)	U		2,800	6,800	µg/Kg-dry	1	12/12/2022 13:26
Surr: Toluene-d8	88.0			78-115	%REC	1	12/12/2022 13:26
MERCURY BY CVA							
			Method: SW7471B		Prep: SW7471 / 12/13/22		Analyst: KRA
Mercury	U		0.014	0.021	mg/Kg-dry	1	12/14/2022 13:51
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 12/16/22		Analyst: STP
Aluminum	11,000		230	290	mg/Kg-dry	100	12/19/2022 14:46
Antimony	U		0.097	0.36	mg/Kg-dry	1	12/16/2022 19:26
Arsenic	2.4		0.043	0.36	mg/Kg-dry	1	12/16/2022 19:26
Barium	77		0.33	0.36	mg/Kg-dry	1	12/16/2022 19:26
Beryllium	0.69		0.025	0.14	mg/Kg-dry	1	12/16/2022 19:26
Cadmium	U		0.022	0.14	mg/Kg-dry	1	12/16/2022 19:26
Calcium	38,000		1,700	3,600	mg/Kg-dry	100	12/19/2022 14:46
Chromium	13		0.16	0.36	mg/Kg-dry	1	12/16/2022 19:26
Cobalt	8.6		0.059	0.36	mg/Kg-dry	1	12/16/2022 19:26
Copper	6.6		0.36	0.36	mg/Kg-dry	1	12/16/2022 19:26
Iron	10,000		12	14	mg/Kg-dry	1	12/16/2022 19:26
Lead	15		0.17	0.36	mg/Kg-dry	1	12/16/2022 19:26
Magnesium	4,900		10	14	mg/Kg-dry	1	12/16/2022 19:26
Manganese	500		30	36	mg/Kg-dry	100	12/19/2022 14:46
Nickel	12		0.19	0.36	mg/Kg-dry	1	12/16/2022 19:26
Potassium	1,500		6.1	14	mg/Kg-dry	1	12/16/2022 19:26
Selenium	U		0.33	0.36	mg/Kg-dry	1	12/16/2022 19:26
Silver	U		0.048	0.36	mg/Kg-dry	1	12/16/2022 19:26
Sodium	310		19	22	mg/Kg-dry	1	12/16/2022 19:26
Thallium	0.11	J	0.056	0.36	mg/Kg-dry	1	12/16/2022 19:26
Vanadium	18		0.092	0.36	mg/Kg-dry	1	12/16/2022 19:26
Zinc	24		0.71	0.72	mg/Kg-dry	1	12/16/2022 19:26
SEMI-VOLATILE ORGANIC COMPOUNDS							
			Method: SW846 8270D		Prep: SW3546 / 12/19/22		Analyst: EEW
1,1'-Biphenyl	U		86	120	µg/Kg-dry	1	12/21/2022 16:54
1,2,4,5-Tetrachlorobenzene	U		110	620	µg/Kg-dry	1	12/21/2022 16:54
1,4-Dioxane	U		290	620	µg/Kg-dry	1	12/21/2022 16:54
1-Methylnaphthalene	U		18	25	µg/Kg-dry	1	12/21/2022 16:54

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-03 (28-30)
Collection Date: 12/5/2022 10:25 AM

Work Order: 22120868
Lab ID: 22120868-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,2'-Oxybis(1-chloropropane)	U		84	120	µg/Kg-dry	1	12/21/2022 16:54
2,3,4,6-Tetrachlorophenol	U		90	250	µg/Kg-dry	1	12/21/2022 16:54
2,4,5-Trichlorophenol	U		73	120	µg/Kg-dry	1	12/21/2022 16:54
2,4,6-Trichlorophenol	U		33	120	µg/Kg-dry	1	12/21/2022 16:54
2,4-Dichlorophenol	U		66	120	µg/Kg-dry	1	12/21/2022 16:54
2,4-Dimethylphenol	U		63	120	µg/Kg-dry	1	12/21/2022 16:54
2,4-Dinitrophenol	U		220	2,500	µg/Kg-dry	1	12/21/2022 16:54
2,4-Dinitrotoluene	U		80	120	µg/Kg-dry	1	12/21/2022 16:54
2,6-Dinitrotoluene	U		81	120	µg/Kg-dry	1	12/21/2022 16:54
2-Chloronaphthalene	U		17	25	µg/Kg-dry	1	12/21/2022 16:54
2-Chlorophenol	U		83	120	µg/Kg-dry	1	12/21/2022 16:54
2-Methylnaphthalene	U		13	25	µg/Kg-dry	1	12/21/2022 16:54
2-Methylphenol	U		76	120	µg/Kg-dry	1	12/21/2022 16:54
2-Nitroaniline	U		69	120	µg/Kg-dry	1	12/21/2022 16:54
2-Nitrophenol	U		78	120	µg/Kg-dry	1	12/21/2022 16:54
3&4-Methylphenol	U		67	120	µg/Kg-dry	1	12/21/2022 16:54
3,3'-Dichlorobenzidine	U		58	620	µg/Kg-dry	1	12/21/2022 16:54
3-Nitroaniline	U		72	120	µg/Kg-dry	1	12/21/2022 16:54
4,6-Dinitro-2-methylphenol	U		100	120	µg/Kg-dry	1	12/21/2022 16:54
4-Bromophenyl phenyl ether	U		68	120	µg/Kg-dry	1	12/21/2022 16:54
4-Chloro-3-methylphenol	U		91	120	µg/Kg-dry	1	12/21/2022 16:54
4-Chloroaniline	U		63	250	µg/Kg-dry	1	12/21/2022 16:54
4-Chlorophenyl phenyl ether	U		80	120	µg/Kg-dry	1	12/21/2022 16:54
4-Nitroaniline	U		190	620	µg/Kg-dry	1	12/21/2022 16:54
4-Nitrophenol	U		60	620	µg/Kg-dry	1	12/21/2022 16:54
Acenaphthene	U		18	25	µg/Kg-dry	1	12/21/2022 16:54
Acenaphthylene	U		16	25	µg/Kg-dry	1	12/21/2022 16:54
Acetophenone	U		79	120	µg/Kg-dry	1	12/21/2022 16:54
Anthracene	U		17	25	µg/Kg-dry	1	12/21/2022 16:54
Atrazine	U		72	120	µg/Kg-dry	1	12/21/2022 16:54
Benzaldehyde	U		190	250	µg/Kg-dry	1	12/21/2022 16:54
Benzo(a)anthracene	U		21	25	µg/Kg-dry	1	12/21/2022 16:54
Benzo(a)pyrene	U		15	25	µg/Kg-dry	1	12/21/2022 16:54
Benzo(b)fluoranthene	U		18	25	µg/Kg-dry	1	12/21/2022 16:54
Benzo(g,h,i)perylene	U		19	25	µg/Kg-dry	1	12/21/2022 16:54
Benzo(k)fluoranthene	U		19	25	µg/Kg-dry	1	12/21/2022 16:54
Bis(2-chloroethoxy)methane	U		78	120	µg/Kg-dry	1	12/21/2022 16:54
Bis(2-chloroethyl)ether	U		87	120	µg/Kg-dry	1	12/21/2022 16:54
Bis(2-ethylhexyl)phthalate	770		100	120	µg/Kg-dry	1	12/21/2022 16:54
Butyl benzyl phthalate	U		150	250	µg/Kg-dry	1	12/21/2022 16:54

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-03 (28-30)
Collection Date: 12/5/2022 10:25 AM

Work Order: 22120868
Lab ID: 22120868-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		190	250	µg/Kg-dry	1	12/21/2022 16:54
Carbazole	U		89	120	µg/Kg-dry	1	12/21/2022 16:54
Chrysene	U		20	25	µg/Kg-dry	1	12/21/2022 16:54
Dibenzo(a,h)anthracene	U		13	25	µg/Kg-dry	1	12/21/2022 16:54
Dibenzofuran	U		76	120	µg/Kg-dry	1	12/21/2022 16:54
Diethyl phthalate	U		97	120	µg/Kg-dry	1	12/21/2022 16:54
Dimethyl phthalate	U		94	120	µg/Kg-dry	1	12/21/2022 16:54
Di-n-butyl phthalate	U		76	120	µg/Kg-dry	1	12/21/2022 16:54
Di-n-octyl phthalate	U		110	120	µg/Kg-dry	1	12/21/2022 16:54
Fluoranthene	U		12	25	µg/Kg-dry	1	12/21/2022 16:54
Fluorene	U		18	25	µg/Kg-dry	1	12/21/2022 16:54
Hexachlorobenzene	U		76	120	µg/Kg-dry	1	12/21/2022 16:54
Hexachlorobutadiene	U		96	120	µg/Kg-dry	1	12/21/2022 16:54
Hexachlorocyclopentadiene	U		120	120	µg/Kg-dry	1	12/21/2022 16:54
Hexachloroethane	U		51	120	µg/Kg-dry	1	12/21/2022 16:54
Indeno(1,2,3-cd)pyrene	U		17	25	µg/Kg-dry	1	12/21/2022 16:54
Isophorone	U		88	620	µg/Kg-dry	1	12/21/2022 16:54
Naphthalene	U		16	25	µg/Kg-dry	1	12/21/2022 16:54
Nitrobenzene	U		93	620	µg/Kg-dry	1	12/21/2022 16:54
N-Nitrosodi-n-propylamine	U		120	120	µg/Kg-dry	1	12/21/2022 16:54
N-Nitrosodiphenylamine	U		70	120	µg/Kg-dry	1	12/21/2022 16:54
Pentachlorophenol	U		98	120	µg/Kg-dry	1	12/21/2022 16:54
Phenanthrene	U		11	25	µg/Kg-dry	1	12/21/2022 16:54
Phenol	U		62	120	µg/Kg-dry	1	12/21/2022 16:54
Pyrene	U		23	25	µg/Kg-dry	1	12/21/2022 16:54
Surr: 2,4,6-Tribromophenol	66.8			48-94	%REC	1	12/21/2022 16:54
Surr: 2-Fluorobiphenyl	73.0			50-103	%REC	1	12/21/2022 16:54
Surr: 2-Fluorophenol	73.8			43-105	%REC	1	12/21/2022 16:54
Surr: 4-Terphenyl-d14	75.0			55-111	%REC	1	12/21/2022 16:54
Surr: Nitrobenzene-d5	70.2			47-100	%REC	1	12/21/2022 16:54
Surr: Phenol-d6	77.3			49-110	%REC	1	12/21/2022 16:54
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035A / 12/9/22		Analyst: DMS
1,1,1-Trichloroethane	U		18	41	µg/Kg-dry	1	12/15/2022 16:55
1,1,2,2-Tetrachloroethane	U		18	41	µg/Kg-dry	1	12/15/2022 16:55
1,1,2-Trichloroethane	U		17	41	µg/Kg-dry	1	12/15/2022 16:55
1,1,2-Trichlorotrifluoroethane	U		26	41	µg/Kg-dry	1	12/15/2022 16:55
1,1-Dichloroethane	U		15	41	µg/Kg-dry	1	12/15/2022 16:55
1,1-Dichloroethene	U		13	41	µg/Kg-dry	1	12/15/2022 16:55
1,2,3-Trichlorobenzene	U		49	140	µg/Kg-dry	1	12/15/2022 16:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: SB-03 (28-30)

Collection Date: 12/5/2022 10:25 AM

Work Order: 22120868

Lab ID: 22120868-02

Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,3-Trichloropropane	U		17	41	µg/Kg-dry	1	12/15/2022 16:55
1,2,4-Trichlorobenzene	U		46	140	µg/Kg-dry	1	12/15/2022 16:55
1,2,4-Trimethylbenzene	U		30	41	µg/Kg-dry	1	12/15/2022 16:55
1,2-Dibromo-3-chloropropane	U		37	140	µg/Kg-dry	1	12/15/2022 16:55
1,2-Dibromoethane	U		11	41	µg/Kg-dry	1	12/15/2022 16:55
1,2-Dichlorobenzene	U		15	41	µg/Kg-dry	1	12/15/2022 16:55
1,2-Dichloroethane	U		61	140	µg/Kg-dry	1	12/15/2022 16:55
1,2-Dichloropropane	U		30	41	µg/Kg-dry	1	12/15/2022 16:55
1,3,5-Trimethylbenzene	U		47	140	µg/Kg-dry	1	12/15/2022 16:55
1,3-Dichlorobenzene	U		14	41	µg/Kg-dry	1	12/15/2022 16:55
1,4-Dichlorobenzene	U		9.8	41	µg/Kg-dry	1	12/15/2022 16:55
2-Butanone	U		33	270	µg/Kg-dry	1	12/15/2022 16:55
2-Hexanone	U		20	41	µg/Kg-dry	1	12/15/2022 16:55
4-Methyl-2-pentanone	U		38	41	µg/Kg-dry	1	12/15/2022 16:55
Acetone	U		120	140	µg/Kg-dry	1	12/15/2022 16:55
Benzene	U		20	41	µg/Kg-dry	1	12/15/2022 16:55
Bromochloromethane	U		21	41	µg/Kg-dry	1	12/15/2022 16:55
Bromodichloromethane	U		23	41	µg/Kg-dry	1	12/15/2022 16:55
Bromoform	U		17	41	µg/Kg-dry	1	12/15/2022 16:55
Bromomethane	U		77	140	µg/Kg-dry	1	12/15/2022 16:55
Carbon disulfide	U		21	41	µg/Kg-dry	1	12/15/2022 16:55
Carbon tetrachloride	U		16	41	µg/Kg-dry	1	12/15/2022 16:55
Chlorobenzene	U		13	41	µg/Kg-dry	1	12/15/2022 16:55
Chloroethane	U		40	140	µg/Kg-dry	1	12/15/2022 16:55
Chloroform	U		15	41	µg/Kg-dry	1	12/15/2022 16:55
Chloromethane	U		110	140	µg/Kg-dry	1	12/15/2022 16:55
cis-1,2-Dichloroethene	U		26	41	µg/Kg-dry	1	12/15/2022 16:55
cis-1,3-Dichloropropene	U		31	41	µg/Kg-dry	1	12/15/2022 16:55
Cyclohexane	U		36	140	µg/Kg-dry	1	12/15/2022 16:55
Dibromochloromethane	U		23	41	µg/Kg-dry	1	12/15/2022 16:55
Dichlorodifluoromethane	U		49	140	µg/Kg-dry	1	12/15/2022 16:55
Ethylbenzene	U		8.5	41	µg/Kg-dry	1	12/15/2022 16:55
Isopropylbenzene	U		12	41	µg/Kg-dry	1	12/15/2022 16:55
m,p-Xylene	U		54	81	µg/Kg-dry	1	12/15/2022 16:55
Methyl acetate	U		49	340	µg/Kg-dry	1	12/15/2022 16:55
Methyl tert-butyl ether	U		12	41	µg/Kg-dry	1	12/15/2022 16:55
Methylcyclohexane	U		15	41	µg/Kg-dry	1	12/15/2022 16:55
Methylene chloride	U		110	340	µg/Kg-dry	1	12/15/2022 16:55
o-Xylene	U		16	41	µg/Kg-dry	1	12/15/2022 16:55
Styrene	U		16	41	µg/Kg-dry	1	12/15/2022 16:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-03 (28-30)
Collection Date: 12/5/2022 10:25 AM

Work Order: 22120868
Lab ID: 22120868-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Tetrachloroethene	U		24	41	µg/Kg-dry	1	12/15/2022 16:55
Toluene	U		11	41	µg/Kg-dry	1	12/15/2022 16:55
trans-1,2-Dichloroethene	U		15	41	µg/Kg-dry	1	12/15/2022 16:55
trans-1,3-Dichloropropene	U		23	41	µg/Kg-dry	1	12/15/2022 16:55
Trichloroethene	U		18	41	µg/Kg-dry	1	12/15/2022 16:55
Trichlorofluoromethane	U		21	41	µg/Kg-dry	1	12/15/2022 16:55
Vinyl chloride	U		27	41	µg/Kg-dry	1	12/15/2022 16:55
Xylenes, Total	U		54	120	µg/Kg-dry	1	12/15/2022 16:55
Surr: 1,2-Dichloroethane-d4	109			80-120	%REC	1	12/15/2022 16:55
Surr: 4-Bromofluorobenzene	99.6			80-120	%REC	1	12/15/2022 16:55
Surr: Dibromofluoromethane	98.4			80-120	%REC	1	12/15/2022 16:55
Surr: Toluene-d8	101			80-120	%REC	1	12/15/2022 16:55
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	21		0.10	0.10	% of sample	1	12/15/2022 11:57

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-02 (0-2)
Collection Date: 12/5/2022 11:50 AM

Work Order: 22120868
Lab ID: 22120868-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW3550 / 12/19/22		Analyst: MTB
DRO (C10-C28)	U		3.4	12	mg/Kg-dry	1	12/19/2022 20:38
ORO (C28-C40)	9.2	J	5.8	12	mg/Kg-dry	1	12/19/2022 20:38
Surr: 4-Terphenyl-d14	74.0			25-110	%REC	1	12/19/2022 20:38
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035A / 12/11/22		Analyst: MTB
GRO (C6-C10)	U		2,200	5,200	µg/Kg-dry	1	12/12/2022 13:48
Surr: Toluene-d8	85.4			78-115	%REC	1	12/12/2022 13:48
MERCURY BY CVA			Method: SW7471B		Prep: SW7471 / 12/13/22		Analyst: KRA
Mercury	U		0.015	0.021	mg/Kg-dry	1	12/14/2022 13:52
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 12/16/22		Analyst: STP
Aluminum	17,000		2,300	2,900	mg/Kg-dry	1000	12/19/2022 16:15
Antimony	U		0.096	0.36	mg/Kg-dry	1	12/16/2022 19:28
Arsenic	2.0		0.043	0.36	mg/Kg-dry	1	12/16/2022 19:28
Barium	440		33	36	mg/Kg-dry	100	12/19/2022 14:48
Beryllium	1.1		0.024	0.14	mg/Kg-dry	1	12/16/2022 19:28
Cadmium	U		0.022	0.14	mg/Kg-dry	1	12/16/2022 19:28
Calcium	31,000		1,700	3,600	mg/Kg-dry	100	12/19/2022 14:48
Chromium	12		0.16	0.36	mg/Kg-dry	1	12/16/2022 19:28
Cobalt	6.8		0.059	0.36	mg/Kg-dry	1	12/16/2022 19:28
Copper	5.9		0.36	0.36	mg/Kg-dry	1	12/16/2022 19:28
Iron	11,000		11	14	mg/Kg-dry	1	12/16/2022 19:28
Lead	14		0.17	0.36	mg/Kg-dry	1	12/16/2022 19:28
Magnesium	4,900		10	14	mg/Kg-dry	1	12/16/2022 19:28
Manganese	190		30	36	mg/Kg-dry	100	12/19/2022 14:48
Nickel	11		0.19	0.36	mg/Kg-dry	1	12/16/2022 19:28
Potassium	1,300		6.0	14	mg/Kg-dry	1	12/16/2022 19:28
Selenium	U		0.33	0.36	mg/Kg-dry	1	12/16/2022 19:28
Silver	U		0.047	0.36	mg/Kg-dry	1	12/16/2022 19:28
Sodium	400		19	22	mg/Kg-dry	1	12/16/2022 19:28
Thallium	0.15	J	0.056	0.36	mg/Kg-dry	1	12/16/2022 19:28
Vanadium	23		0.092	0.36	mg/Kg-dry	1	12/16/2022 19:28
Zinc	22		0.70	0.72	mg/Kg-dry	1	12/16/2022 19:28
SEMI-VOLATILE ORGANIC COMPOUNDS			Method: SW846 8270D		Prep: SW3546 / 12/19/22		Analyst: EEW
1,1'-Biphenyl	U		61	87	µg/Kg-dry	1	12/21/2022 17:18
1,2,4,5-Tetrachlorobenzene	U		78	440	µg/Kg-dry	1	12/21/2022 17:18
1,4-Dioxane	U		200	440	µg/Kg-dry	1	12/21/2022 17:18
1-Methylnaphthalene	U		13	18	µg/Kg-dry	1	12/21/2022 17:18

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-02 (0-2)
Collection Date: 12/5/2022 11:50 AM

Work Order: 22120868
Lab ID: 22120868-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,2'-Oxybis(1-chloropropane)	U		60	87	µg/Kg-dry	1	12/21/2022 17:18
2,3,4,6-Tetrachlorophenol	U		64	180	µg/Kg-dry	1	12/21/2022 17:18
2,4,5-Trichlorophenol	U		52	87	µg/Kg-dry	1	12/21/2022 17:18
2,4,6-Trichlorophenol	U		23	87	µg/Kg-dry	1	12/21/2022 17:18
2,4-Dichlorophenol	U		47	87	µg/Kg-dry	1	12/21/2022 17:18
2,4-Dimethylphenol	U		45	87	µg/Kg-dry	1	12/21/2022 17:18
2,4-Dinitrophenol	U		160	1,800	µg/Kg-dry	1	12/21/2022 17:18
2,4-Dinitrotoluene	U		57	87	µg/Kg-dry	1	12/21/2022 17:18
2,6-Dinitrotoluene	U		57	87	µg/Kg-dry	1	12/21/2022 17:18
2-Chloronaphthalene	U		12	18	µg/Kg-dry	1	12/21/2022 17:18
2-Chlorophenol	U		59	87	µg/Kg-dry	1	12/21/2022 17:18
2-Methylnaphthalene	19		8.9	18	µg/Kg-dry	1	12/21/2022 17:18
2-Methylphenol	U		54	87	µg/Kg-dry	1	12/21/2022 17:18
2-Nitroaniline	U		49	87	µg/Kg-dry	1	12/21/2022 17:18
2-Nitrophenol	U		55	87	µg/Kg-dry	1	12/21/2022 17:18
3&4-Methylphenol	U		48	87	µg/Kg-dry	1	12/21/2022 17:18
3,3'-Dichlorobenzidine	U		41	440	µg/Kg-dry	1	12/21/2022 17:18
3-Nitroaniline	U		51	87	µg/Kg-dry	1	12/21/2022 17:18
4,6-Dinitro-2-methylphenol	U		73	87	µg/Kg-dry	1	12/21/2022 17:18
4-Bromophenyl phenyl ether	U		48	87	µg/Kg-dry	1	12/21/2022 17:18
4-Chloro-3-methylphenol	U		64	87	µg/Kg-dry	1	12/21/2022 17:18
4-Chloroaniline	U		44	180	µg/Kg-dry	1	12/21/2022 17:18
4-Chlorophenyl phenyl ether	U		57	87	µg/Kg-dry	1	12/21/2022 17:18
4-Nitroaniline	U		140	440	µg/Kg-dry	1	12/21/2022 17:18
4-Nitrophenol	U		42	440	µg/Kg-dry	1	12/21/2022 17:18
Acenaphthene	U		13	18	µg/Kg-dry	1	12/21/2022 17:18
Acenaphthylene	U		11	18	µg/Kg-dry	1	12/21/2022 17:18
Acetophenone	U		56	87	µg/Kg-dry	1	12/21/2022 17:18
Anthracene	U		12	18	µg/Kg-dry	1	12/21/2022 17:18
Atrazine	U		51	87	µg/Kg-dry	1	12/21/2022 17:18
Benzaldehyde	U		130	180	µg/Kg-dry	1	12/21/2022 17:18
Benzo(a)anthracene	U		15	18	µg/Kg-dry	1	12/21/2022 17:18
Benzo(a)pyrene	23		11	18	µg/Kg-dry	1	12/21/2022 17:18
Benzo(b)fluoranthene	19		13	18	µg/Kg-dry	1	12/21/2022 17:18
Benzo(g,h,i)perylene	23		13	18	µg/Kg-dry	1	12/21/2022 17:18
Benzo(k)fluoranthene	U		13	18	µg/Kg-dry	1	12/21/2022 17:18
Bis(2-chloroethoxy)methane	U		55	87	µg/Kg-dry	1	12/21/2022 17:18
Bis(2-chloroethyl)ether	U		62	87	µg/Kg-dry	1	12/21/2022 17:18
Bis(2-ethylhexyl)phthalate	U		72	87	µg/Kg-dry	1	12/21/2022 17:18
Butyl benzyl phthalate	U		110	180	µg/Kg-dry	1	12/21/2022 17:18

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-02 (0-2)
Collection Date: 12/5/2022 11:50 AM

Work Order: 22120868
Lab ID: 22120868-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		130	180	µg/Kg-dry	1	12/21/2022 17:18
Carbazole	U		63	87	µg/Kg-dry	1	12/21/2022 17:18
Chrysene	U		14	18	µg/Kg-dry	1	12/21/2022 17:18
Dibenzo(a,h)anthracene	U		9.4	18	µg/Kg-dry	1	12/21/2022 17:18
Dibenzofuran	U		54	87	µg/Kg-dry	1	12/21/2022 17:18
Diethyl phthalate	U		69	87	µg/Kg-dry	1	12/21/2022 17:18
Dimethyl phthalate	U		66	87	µg/Kg-dry	1	12/21/2022 17:18
Di-n-butyl phthalate	U		54	87	µg/Kg-dry	1	12/21/2022 17:18
Di-n-octyl phthalate	U		76	87	µg/Kg-dry	1	12/21/2022 17:18
Fluoranthene	23		8.4	18	µg/Kg-dry	1	12/21/2022 17:18
Fluorene	U		13	18	µg/Kg-dry	1	12/21/2022 17:18
Hexachlorobenzene	U		54	87	µg/Kg-dry	1	12/21/2022 17:18
Hexachlorobutadiene	U		68	87	µg/Kg-dry	1	12/21/2022 17:18
Hexachlorocyclopentadiene	U		83	87	µg/Kg-dry	1	12/21/2022 17:18
Hexachloroethane	U		36	87	µg/Kg-dry	1	12/21/2022 17:18
Indeno(1,2,3-cd)pyrene	U		12	18	µg/Kg-dry	1	12/21/2022 17:18
Isophorone	U		62	440	µg/Kg-dry	1	12/21/2022 17:18
Naphthalene	U		11	18	µg/Kg-dry	1	12/21/2022 17:18
Nitrobenzene	U		66	440	µg/Kg-dry	1	12/21/2022 17:18
N-Nitrosodi-n-propylamine	U		85	87	µg/Kg-dry	1	12/21/2022 17:18
N-Nitrosodiphenylamine	U		50	87	µg/Kg-dry	1	12/21/2022 17:18
Pentachlorophenol	U		70	87	µg/Kg-dry	1	12/21/2022 17:18
Phenanthrene	24		8.1	18	µg/Kg-dry	1	12/21/2022 17:18
Phenol	U		44	87	µg/Kg-dry	1	12/21/2022 17:18
Pyrene	19		17	18	µg/Kg-dry	1	12/21/2022 17:18
Surr: 2,4,6-Tribromophenol	74.1			48-94	%REC	1	12/21/2022 17:18
Surr: 2-Fluorobiphenyl	73.5			50-103	%REC	1	12/21/2022 17:18
Surr: 2-Fluorophenol	74.7			43-105	%REC	1	12/21/2022 17:18
Surr: 4-Terphenyl-d14	61.8			55-111	%REC	1	12/21/2022 17:18
Surr: Nitrobenzene-d5	72.8			47-100	%REC	1	12/21/2022 17:18
Surr: Phenol-d6	80.7			49-110	%REC	1	12/21/2022 17:18
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035A / 12/9/22		Analyst: DMS
1,1,1-Trichloroethane	U		14	31	µg/Kg-dry	1	12/15/2022 17:13
1,1,2,2-Tetrachloroethane	U		14	31	µg/Kg-dry	1	12/15/2022 17:13
1,1,2-Trichloroethane	U		13	31	µg/Kg-dry	1	12/15/2022 17:13
1,1,2-Trichlorotrifluoroethane	U		20	31	µg/Kg-dry	1	12/15/2022 17:13
1,1-Dichloroethane	U		11	31	µg/Kg-dry	1	12/15/2022 17:13
1,1-Dichloroethene	U		10	31	µg/Kg-dry	1	12/15/2022 17:13
1,2,3-Trichlorobenzene	U		38	100	µg/Kg-dry	1	12/15/2022 17:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-02 (0-2)
Collection Date: 12/5/2022 11:50 AM

Work Order: 22120868
Lab ID: 22120868-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,3-Trichloropropane	U		13	31	µg/Kg-dry	1	12/15/2022 17:13
1,2,4-Trichlorobenzene	U		36	100	µg/Kg-dry	1	12/15/2022 17:13
1,2,4-Trimethylbenzene	U		23	31	µg/Kg-dry	1	12/15/2022 17:13
1,2-Dibromo-3-chloropropane	U		29	100	µg/Kg-dry	1	12/15/2022 17:13
1,2-Dibromoethane	U		8.8	31	µg/Kg-dry	1	12/15/2022 17:13
1,2-Dichlorobenzene	U		12	31	µg/Kg-dry	1	12/15/2022 17:13
1,2-Dichloroethane	U		47	100	µg/Kg-dry	1	12/15/2022 17:13
1,2-Dichloropropane	U		23	31	µg/Kg-dry	1	12/15/2022 17:13
1,3,5-Trimethylbenzene	U		37	100	µg/Kg-dry	1	12/15/2022 17:13
1,3-Dichlorobenzene	U		10	31	µg/Kg-dry	1	12/15/2022 17:13
1,4-Dichlorobenzene	U		7.6	31	µg/Kg-dry	1	12/15/2022 17:13
2-Butanone	U		26	210	µg/Kg-dry	1	12/15/2022 17:13
2-Hexanone	U		16	31	µg/Kg-dry	1	12/15/2022 17:13
4-Methyl-2-pentanone	U		29	31	µg/Kg-dry	1	12/15/2022 17:13
Acetone	U		93	100	µg/Kg-dry	1	12/15/2022 17:13
Benzene	U		15	31	µg/Kg-dry	1	12/15/2022 17:13
Bromochloromethane	U		16	31	µg/Kg-dry	1	12/15/2022 17:13
Bromodichloromethane	U		18	31	µg/Kg-dry	1	12/15/2022 17:13
Bromoform	U		13	31	µg/Kg-dry	1	12/15/2022 17:13
Bromomethane	U		60	100	µg/Kg-dry	1	12/15/2022 17:13
Carbon disulfide	U		16	31	µg/Kg-dry	1	12/15/2022 17:13
Carbon tetrachloride	U		12	31	µg/Kg-dry	1	12/15/2022 17:13
Chlorobenzene	U		10	31	µg/Kg-dry	1	12/15/2022 17:13
Chloroethane	U		31	100	µg/Kg-dry	1	12/15/2022 17:13
Chloroform	U		11	31	µg/Kg-dry	1	12/15/2022 17:13
Chloromethane	U		86	100	µg/Kg-dry	1	12/15/2022 17:13
cis-1,2-Dichloroethene	U		20	31	µg/Kg-dry	1	12/15/2022 17:13
cis-1,3-Dichloropropene	U		24	31	µg/Kg-dry	1	12/15/2022 17:13
Cyclohexane	U		28	100	µg/Kg-dry	1	12/15/2022 17:13
Dibromochloromethane	U		18	31	µg/Kg-dry	1	12/15/2022 17:13
Dichlorodifluoromethane	U		38	100	µg/Kg-dry	1	12/15/2022 17:13
Ethylbenzene	U		6.6	31	µg/Kg-dry	1	12/15/2022 17:13
Isopropylbenzene	U		9.6	31	µg/Kg-dry	1	12/15/2022 17:13
m,p-Xylene	U		42	63	µg/Kg-dry	1	12/15/2022 17:13
Methyl acetate	U		38	260	µg/Kg-dry	1	12/15/2022 17:13
Methyl tert-butyl ether	U		9.1	31	µg/Kg-dry	1	12/15/2022 17:13
Methylcyclohexane	U		12	31	µg/Kg-dry	1	12/15/2022 17:13
Methylene chloride	U		83	260	µg/Kg-dry	1	12/15/2022 17:13
o-Xylene	U		12	31	µg/Kg-dry	1	12/15/2022 17:13
Styrene	U		12	31	µg/Kg-dry	1	12/15/2022 17:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-02 (0-2)
Collection Date: 12/5/2022 11:50 AM

Work Order: 22120868
Lab ID: 22120868-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Tetrachloroethene	U		19	31	µg/Kg-dry	1	12/15/2022 17:13
Toluene	U		8.6	31	µg/Kg-dry	1	12/15/2022 17:13
trans-1,2-Dichloroethene	U		12	31	µg/Kg-dry	1	12/15/2022 17:13
trans-1,3-Dichloropropene	U		18	31	µg/Kg-dry	1	12/15/2022 17:13
Trichloroethene	U		14	31	µg/Kg-dry	1	12/15/2022 17:13
Trichlorofluoromethane	U		16	31	µg/Kg-dry	1	12/15/2022 17:13
Vinyl chloride	U		21	31	µg/Kg-dry	1	12/15/2022 17:13
Xylenes, Total	U		42	94	µg/Kg-dry	1	12/15/2022 17:13
Surr: 1,2-Dichloroethane-d4	103			80-120	%REC	1	12/15/2022 17:13
Surr: 4-Bromofluorobenzene	99.4			80-120	%REC	1	12/15/2022 17:13
Surr: Dibromofluoromethane	88.8			80-120	%REC	1	12/15/2022 17:13
Surr: Toluene-d8	102			80-120	%REC	1	12/15/2022 17:13
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	19		0.10	0.10	% of sample	1	12/15/2022 11:57

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-02 (23-25)
Collection Date: 12/5/2022 12:00 PM

Work Order: 22120868
Lab ID: 22120868-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW3550 / 12/19/22		Analyst: MTB
DRO (C10-C28)	U		3.5	12	mg/Kg-dry	1	12/19/2022 22:29
ORO (C28-C40)	U		5.9	12	mg/Kg-dry	1	12/19/2022 22:29
Surr: 4-Terphenyl-d14	71.1			25-110	%REC	1	12/19/2022 22:29
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035A / 12/11/22		Analyst: MTB
GRO (C6-C10)	U		3,000	7,100	µg/Kg-dry	1	12/12/2022 14:10
Surr: Toluene-d8	87.1			78-115	%REC	1	12/12/2022 14:10
MERCURY BY CVA			Method: SW7471B		Prep: SW7471 / 12/13/22		Analyst: KRA
Mercury	U		0.014	0.020	mg/Kg-dry	1	12/14/2022 13:54
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 12/16/22		Analyst: STP
Aluminum	4,600		220	280	mg/Kg-dry	100	12/19/2022 14:49
Antimony	U		0.094	0.35	mg/Kg-dry	1	12/16/2022 19:30
Arsenic	2.9		0.042	0.35	mg/Kg-dry	1	12/16/2022 19:30
Barium	38		0.32	0.35	mg/Kg-dry	1	12/16/2022 19:30
Beryllium	0.33		0.024	0.14	mg/Kg-dry	1	12/16/2022 19:30
Cadmium	U		0.021	0.14	mg/Kg-dry	1	12/16/2022 19:30
Calcium	49,000		1,700	3,500	mg/Kg-dry	100	12/19/2022 14:49
Chromium	6.3		0.15	0.35	mg/Kg-dry	1	12/16/2022 19:30
Cobalt	2.7		0.058	0.35	mg/Kg-dry	1	12/16/2022 19:30
Copper	3.9		0.35	0.35	mg/Kg-dry	1	12/16/2022 19:30
Iron	7,300		11	14	mg/Kg-dry	1	12/16/2022 19:30
Lead	4.4		0.17	0.35	mg/Kg-dry	1	12/16/2022 19:30
Magnesium	3,300		9.8	14	mg/Kg-dry	1	12/16/2022 19:30
Manganese	310		29	35	mg/Kg-dry	100	12/19/2022 14:49
Nickel	6.5		0.18	0.35	mg/Kg-dry	1	12/16/2022 19:30
Potassium	730		5.9	14	mg/Kg-dry	1	12/16/2022 19:30
Selenium	U		0.32	0.35	mg/Kg-dry	1	12/16/2022 19:30
Silver	U		0.046	0.35	mg/Kg-dry	1	12/16/2022 19:30
Sodium	330		19	21	mg/Kg-dry	1	12/16/2022 19:30
Thallium	0.059	J	0.055	0.35	mg/Kg-dry	1	12/16/2022 19:30
Vanadium	13		0.090	0.35	mg/Kg-dry	1	12/16/2022 19:30
Zinc	12		0.69	0.70	mg/Kg-dry	1	12/16/2022 19:30
SEMI-VOLATILE ORGANIC COMPOUNDS			Method: SW846 8270D		Prep: SW3546 / 12/19/22		Analyst: EEW
1,1'-Biphenyl	U		87	120	µg/Kg-dry	1	12/21/2022 17:42
1,2,4,5-Tetrachlorobenzene	U		110	620	µg/Kg-dry	1	12/21/2022 17:42
1,4-Dioxane	U		290	620	µg/Kg-dry	1	12/21/2022 17:42
1-Methylnaphthalene	U		18	25	µg/Kg-dry	1	12/21/2022 17:42

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: SB-02 (23-25)

Collection Date: 12/5/2022 12:00 PM

Work Order: 22120868

Lab ID: 22120868-04

Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,2'-Oxybis(1-chloropropane)	U		85	120	µg/Kg-dry	1	12/21/2022 17:42
2,3,4,6-Tetrachlorophenol	U		91	250	µg/Kg-dry	1	12/21/2022 17:42
2,4,5-Trichlorophenol	U		74	120	µg/Kg-dry	1	12/21/2022 17:42
2,4,6-Trichlorophenol	U		33	120	µg/Kg-dry	1	12/21/2022 17:42
2,4-Dichlorophenol	U		67	120	µg/Kg-dry	1	12/21/2022 17:42
2,4-Dimethylphenol	U		64	120	µg/Kg-dry	1	12/21/2022 17:42
2,4-Dinitrophenol	U		220	2,500	µg/Kg-dry	1	12/21/2022 17:42
2,4-Dinitrotoluene	U		81	120	µg/Kg-dry	1	12/21/2022 17:42
2,6-Dinitrotoluene	U		81	120	µg/Kg-dry	1	12/21/2022 17:42
2-Chloronaphthalene	U		17	25	µg/Kg-dry	1	12/21/2022 17:42
2-Chlorophenol	U		84	120	µg/Kg-dry	1	12/21/2022 17:42
2-Methylnaphthalene	U		13	25	µg/Kg-dry	1	12/21/2022 17:42
2-Methylphenol	U		76	120	µg/Kg-dry	1	12/21/2022 17:42
2-Nitroaniline	U		69	120	µg/Kg-dry	1	12/21/2022 17:42
2-Nitrophenol	U		79	120	µg/Kg-dry	1	12/21/2022 17:42
3&4-Methylphenol	U		68	120	µg/Kg-dry	1	12/21/2022 17:42
3,3'-Dichlorobenzidine	U		58	620	µg/Kg-dry	1	12/21/2022 17:42
3-Nitroaniline	U		72	120	µg/Kg-dry	1	12/21/2022 17:42
4,6-Dinitro-2-methylphenol	U		100	120	µg/Kg-dry	1	12/21/2022 17:42
4-Bromophenyl phenyl ether	U		68	120	µg/Kg-dry	1	12/21/2022 17:42
4-Chloro-3-methylphenol	U		92	120	µg/Kg-dry	1	12/21/2022 17:42
4-Chloroaniline	U		63	250	µg/Kg-dry	1	12/21/2022 17:42
4-Chlorophenyl phenyl ether	U		81	120	µg/Kg-dry	1	12/21/2022 17:42
4-Nitroaniline	U		190	620	µg/Kg-dry	1	12/21/2022 17:42
4-Nitrophenol	U		60	620	µg/Kg-dry	1	12/21/2022 17:42
Acenaphthene	U		18	25	µg/Kg-dry	1	12/21/2022 17:42
Acenaphthylene	U		16	25	µg/Kg-dry	1	12/21/2022 17:42
Acetophenone	U		79	120	µg/Kg-dry	1	12/21/2022 17:42
Anthracene	U		18	25	µg/Kg-dry	1	12/21/2022 17:42
Atrazine	U		73	120	µg/Kg-dry	1	12/21/2022 17:42
Benzaldehyde	U		190	250	µg/Kg-dry	1	12/21/2022 17:42
Benzo(a)anthracene	U		22	25	µg/Kg-dry	1	12/21/2022 17:42
Benzo(a)pyrene	U		15	25	µg/Kg-dry	1	12/21/2022 17:42
Benzo(b)fluoranthene	U		19	25	µg/Kg-dry	1	12/21/2022 17:42
Benzo(g,h,i)perylene	U		19	25	µg/Kg-dry	1	12/21/2022 17:42
Benzo(k)fluoranthene	U		19	25	µg/Kg-dry	1	12/21/2022 17:42
Bis(2-chloroethoxy)methane	U		79	120	µg/Kg-dry	1	12/21/2022 17:42
Bis(2-chloroethyl)ether	U		88	120	µg/Kg-dry	1	12/21/2022 17:42
Bis(2-ethylhexyl)phthalate	U		100	120	µg/Kg-dry	1	12/21/2022 17:42
Butyl benzyl phthalate	U		160	250	µg/Kg-dry	1	12/21/2022 17:42

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-02 (23-25)
Collection Date: 12/5/2022 12:00 PM

Work Order: 22120868
Lab ID: 22120868-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		190	250	µg/Kg-dry	1	12/21/2022 17:42
Carbazole	U		90	120	µg/Kg-dry	1	12/21/2022 17:42
Chrysene	U		20	25	µg/Kg-dry	1	12/21/2022 17:42
Dibenzo(a,h)anthracene	U		13	25	µg/Kg-dry	1	12/21/2022 17:42
Dibenzofuran	U		77	120	µg/Kg-dry	1	12/21/2022 17:42
Diethyl phthalate	U		98	120	µg/Kg-dry	1	12/21/2022 17:42
Dimethyl phthalate	U		95	120	µg/Kg-dry	1	12/21/2022 17:42
Di-n-butyl phthalate	140		76	120	µg/Kg-dry	1	12/21/2022 17:42
Di-n-octyl phthalate	U		110	120	µg/Kg-dry	1	12/21/2022 17:42
Fluoranthene	32		12	25	µg/Kg-dry	1	12/21/2022 17:42
Fluorene	U		18	25	µg/Kg-dry	1	12/21/2022 17:42
Hexachlorobenzene	U		77	120	µg/Kg-dry	1	12/21/2022 17:42
Hexachlorobutadiene	U		96	120	µg/Kg-dry	1	12/21/2022 17:42
Hexachlorocyclopentadiene	U		120	120	µg/Kg-dry	1	12/21/2022 17:42
Hexachloroethane	U		52	120	µg/Kg-dry	1	12/21/2022 17:42
Indeno(1,2,3-cd)pyrene	U		17	25	µg/Kg-dry	1	12/21/2022 17:42
Isophorone	U		89	620	µg/Kg-dry	1	12/21/2022 17:42
Naphthalene	U		16	25	µg/Kg-dry	1	12/21/2022 17:42
Nitrobenzene	U		94	620	µg/Kg-dry	1	12/21/2022 17:42
N-Nitrosodi-n-propylamine	U		120	120	µg/Kg-dry	1	12/21/2022 17:42
N-Nitrosodiphenylamine	U		71	120	µg/Kg-dry	1	12/21/2022 17:42
Pentachlorophenol	U		99	120	µg/Kg-dry	1	12/21/2022 17:42
Phenanthrene	42		12	25	µg/Kg-dry	1	12/21/2022 17:42
Phenol	U		63	120	µg/Kg-dry	1	12/21/2022 17:42
Pyrene	U		24	25	µg/Kg-dry	1	12/21/2022 17:42
Surr: 2,4,6-Tribromophenol	76.2			48-94	%REC	1	12/21/2022 17:42
Surr: 2-Fluorobiphenyl	77.5			50-103	%REC	1	12/21/2022 17:42
Surr: 2-Fluorophenol	76.2			43-105	%REC	1	12/21/2022 17:42
Surr: 4-Terphenyl-d14	75.4			55-111	%REC	1	12/21/2022 17:42
Surr: Nitrobenzene-d5	72.2			47-100	%REC	1	12/21/2022 17:42
Surr: Phenol-d6	83.0			49-110	%REC	1	12/21/2022 17:42
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035A / 12/9/22		Analyst: DMS
1,1,1-Trichloroethane	U		19	43	µg/Kg-dry	1	12/15/2022 17:31
1,1,2,2-Tetrachloroethane	U		19	43	µg/Kg-dry	1	12/15/2022 17:31
1,1,2-Trichloroethane	U		18	43	µg/Kg-dry	1	12/15/2022 17:31
1,1,2-Trichlorotrifluoroethane	U		27	43	µg/Kg-dry	1	12/15/2022 17:31
1,1-Dichloroethane	U		16	43	µg/Kg-dry	1	12/15/2022 17:31
1,1-Dichloroethene	U		14	43	µg/Kg-dry	1	12/15/2022 17:31
1,2,3-Trichlorobenzene	U		51	140	µg/Kg-dry	1	12/15/2022 17:31

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: SB-02 (23-25)

Collection Date: 12/5/2022 12:00 PM

Work Order: 22120868

Lab ID: 22120868-04

Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,3-Trichloropropane	U		18	43	µg/Kg-dry	1	12/15/2022 17:31
1,2,4-Trichlorobenzene	U		48	140	µg/Kg-dry	1	12/15/2022 17:31
1,2,4-Trimethylbenzene	U		31	43	µg/Kg-dry	1	12/15/2022 17:31
1,2-Dibromo-3-chloropropane	U		39	140	µg/Kg-dry	1	12/15/2022 17:31
1,2-Dibromoethane	U		12	43	µg/Kg-dry	1	12/15/2022 17:31
1,2-Dichlorobenzene	U		16	43	µg/Kg-dry	1	12/15/2022 17:31
1,2-Dichloroethane	U		64	140	µg/Kg-dry	1	12/15/2022 17:31
1,2-Dichloropropane	U		31	43	µg/Kg-dry	1	12/15/2022 17:31
1,3,5-Trimethylbenzene	U		50	140	µg/Kg-dry	1	12/15/2022 17:31
1,3-Dichlorobenzene	U		14	43	µg/Kg-dry	1	12/15/2022 17:31
1,4-Dichlorobenzene	U		10	43	µg/Kg-dry	1	12/15/2022 17:31
2-Butanone	U		35	280	µg/Kg-dry	1	12/15/2022 17:31
2-Hexanone	U		21	43	µg/Kg-dry	1	12/15/2022 17:31
4-Methyl-2-pentanone	U		40	43	µg/Kg-dry	1	12/15/2022 17:31
Acetone	U		130	140	µg/Kg-dry	1	12/15/2022 17:31
Benzene	U		21	43	µg/Kg-dry	1	12/15/2022 17:31
Bromochloromethane	U		22	43	µg/Kg-dry	1	12/15/2022 17:31
Bromodichloromethane	U		24	43	µg/Kg-dry	1	12/15/2022 17:31
Bromoform	U		18	43	µg/Kg-dry	1	12/15/2022 17:31
Bromomethane	U		81	140	µg/Kg-dry	1	12/15/2022 17:31
Carbon disulfide	U		22	43	µg/Kg-dry	1	12/15/2022 17:31
Carbon tetrachloride	U		17	43	µg/Kg-dry	1	12/15/2022 17:31
Chlorobenzene	U		14	43	µg/Kg-dry	1	12/15/2022 17:31
Chloroethane	U		42	140	µg/Kg-dry	1	12/15/2022 17:31
Chloroform	U		16	43	µg/Kg-dry	1	12/15/2022 17:31
Chloromethane	U		120	140	µg/Kg-dry	1	12/15/2022 17:31
cis-1,2-Dichloroethene	U		27	43	µg/Kg-dry	1	12/15/2022 17:31
cis-1,3-Dichloropropene	U		32	43	µg/Kg-dry	1	12/15/2022 17:31
Cyclohexane	U		38	140	µg/Kg-dry	1	12/15/2022 17:31
Dibromochloromethane	U		24	43	µg/Kg-dry	1	12/15/2022 17:31
Dichlorodifluoromethane	U		52	140	µg/Kg-dry	1	12/15/2022 17:31
Ethylbenzene	U		9.0	43	µg/Kg-dry	1	12/15/2022 17:31
Isopropylbenzene	U		13	43	µg/Kg-dry	1	12/15/2022 17:31
m,p-Xylene	U		57	85	µg/Kg-dry	1	12/15/2022 17:31
Methyl acetate	U		51	350	µg/Kg-dry	1	12/15/2022 17:31
Methyl tert-butyl ether	U		12	43	µg/Kg-dry	1	12/15/2022 17:31
Methylcyclohexane	U		16	43	µg/Kg-dry	1	12/15/2022 17:31
Methylene chloride	U		110	350	µg/Kg-dry	1	12/15/2022 17:31
o-Xylene	U		16	43	µg/Kg-dry	1	12/15/2022 17:31
Styrene	U		17	43	µg/Kg-dry	1	12/15/2022 17:31

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: SB-02 (23-25)

Collection Date: 12/5/2022 12:00 PM

Work Order: 22120868

Lab ID: 22120868-04

Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Tetrachloroethene	U		26	43	µg/Kg-dry	1	12/15/2022 17:31
Toluene	U		12	43	µg/Kg-dry	1	12/15/2022 17:31
trans-1,2-Dichloroethene	U		16	43	µg/Kg-dry	1	12/15/2022 17:31
trans-1,3-Dichloropropene	U		24	43	µg/Kg-dry	1	12/15/2022 17:31
Trichloroethene	U		19	43	µg/Kg-dry	1	12/15/2022 17:31
Trichlorofluoromethane	U		22	43	µg/Kg-dry	1	12/15/2022 17:31
Vinyl chloride	U		28	43	µg/Kg-dry	1	12/15/2022 17:31
Xylenes, Total	U		57	130	µg/Kg-dry	1	12/15/2022 17:31
Surr: 1,2-Dichloroethane-d4	105			80-120	%REC	1	12/15/2022 17:31
Surr: 4-Bromofluorobenzene	101			80-120	%REC	1	12/15/2022 17:31
Surr: Dibromofluoromethane	94.6			80-120	%REC	1	12/15/2022 17:31
Surr: Toluene-d8	102			80-120	%REC	1	12/15/2022 17:31
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	21		0.10	0.10	% of sample	1	12/15/2022 11:57

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-01 (0-2)
Collection Date: 12/5/2022 01:50 PM

Work Order: 22120868
Lab ID: 22120868-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW3550 / 12/19/22		Analyst: MTB
DRO (C10-C28)	4.1	J	4.1	14	mg/Kg-dry	1	12/19/2022 23:06
ORO (C28-C40)	11	J	6.8	14	mg/Kg-dry	1	12/19/2022 23:06
Surr: 4-Terphenyl-d14	69.9			25-110	%REC	1	12/19/2022 23:06
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035A / 12/11/22		Analyst: MTB
GRO (C6-C10)	U		3,500	8,300	µg/Kg-dry	1	12/12/2022 14:32
Surr: Toluene-d8	83.3			78-115	%REC	1	12/12/2022 14:32
MERCURY BY CVA			Method: SW7471B		Prep: SW7471 / 12/13/22		Analyst: KRA
Mercury	U		0.020	0.029	mg/Kg-dry	1	12/14/2022 13:56
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 12/16/22		Analyst: STP
Aluminum	10,000		280	350	mg/Kg-dry	100	12/19/2022 14:51
Antimony	U		0.12	0.44	mg/Kg-dry	1	12/16/2022 19:32
Arsenic	3.1		0.053	0.44	mg/Kg-dry	1	12/16/2022 19:32
Barium	380		40	44	mg/Kg-dry	100	12/19/2022 14:51
Beryllium	0.95		0.030	0.18	mg/Kg-dry	1	12/16/2022 19:32
Cadmium	U		0.026	0.18	mg/Kg-dry	1	12/16/2022 19:32
Calcium	12,000		21	44	mg/Kg-dry	1	12/16/2022 19:32
Chromium	9.7		0.19	0.44	mg/Kg-dry	1	12/16/2022 19:32
Cobalt	12		0.072	0.44	mg/Kg-dry	1	12/16/2022 19:32
Copper	6.2		0.44	0.44	mg/Kg-dry	1	12/16/2022 19:32
Iron	8,000		14	18	mg/Kg-dry	1	12/16/2022 19:32
Lead	29		0.21	0.44	mg/Kg-dry	1	12/16/2022 19:32
Magnesium	2,500		12	18	mg/Kg-dry	1	12/16/2022 19:32
Manganese	640		37	44	mg/Kg-dry	100	12/19/2022 14:51
Nickel	9.3		0.23	0.44	mg/Kg-dry	1	12/16/2022 19:32
Potassium	730		7.4	18	mg/Kg-dry	1	12/16/2022 19:32
Selenium	U		0.40	0.44	mg/Kg-dry	1	12/16/2022 19:32
Silver	U		0.058	0.44	mg/Kg-dry	1	12/16/2022 19:32
Sodium	280		24	26	mg/Kg-dry	1	12/16/2022 19:32
Thallium	0.10	J	0.068	0.44	mg/Kg-dry	1	12/16/2022 19:32
Vanadium	29		0.11	0.44	mg/Kg-dry	1	12/16/2022 19:32
Zinc	25		0.86	0.88	mg/Kg-dry	1	12/16/2022 19:32
SEMI-VOLATILE ORGANIC COMPOUNDS			Method: SW846 8270D		Prep: SW3546 / 12/19/22		Analyst: EEW
1,1'-Biphenyl	U		100	140	µg/Kg-dry	1	12/21/2022 18:06
1,2,4,5-Tetrachlorobenzene	U		130	720	µg/Kg-dry	1	12/21/2022 18:06
1,4-Dioxane	U		340	720	µg/Kg-dry	1	12/21/2022 18:06
1-Methylnaphthalene	38		21	29	µg/Kg-dry	1	12/21/2022 18:06

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-01 (0-2)
Collection Date: 12/5/2022 01:50 PM

Work Order: 22120868
Lab ID: 22120868-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,2'-Oxybis(1-chloropropane)	U		99	140	µg/Kg-dry	1	12/21/2022 18:06
2,3,4,6-Tetrachlorophenol	U		110	290	µg/Kg-dry	1	12/21/2022 18:06
2,4,5-Trichlorophenol	U		86	140	µg/Kg-dry	1	12/21/2022 18:06
2,4,6-Trichlorophenol	U		38	140	µg/Kg-dry	1	12/21/2022 18:06
2,4-Dichlorophenol	U		78	140	µg/Kg-dry	1	12/21/2022 18:06
2,4-Dimethylphenol	U		74	140	µg/Kg-dry	1	12/21/2022 18:06
2,4-Dinitrophenol	U		260	2,900	µg/Kg-dry	1	12/21/2022 18:06
2,4-Dinitrotoluene	U		94	140	µg/Kg-dry	1	12/21/2022 18:06
2,6-Dinitrotoluene	U		95	140	µg/Kg-dry	1	12/21/2022 18:06
2-Chloronaphthalene	U		20	29	µg/Kg-dry	1	12/21/2022 18:06
2-Chlorophenol	U		97	140	µg/Kg-dry	1	12/21/2022 18:06
2-Methylnaphthalene	32		15	29	µg/Kg-dry	1	12/21/2022 18:06
2-Methylphenol	U		89	140	µg/Kg-dry	1	12/21/2022 18:06
2-Nitroaniline	U		80	140	µg/Kg-dry	1	12/21/2022 18:06
2-Nitrophenol	U		92	140	µg/Kg-dry	1	12/21/2022 18:06
3&4-Methylphenol	U		79	140	µg/Kg-dry	1	12/21/2022 18:06
3,3'-Dichlorobenzidine	U		67	720	µg/Kg-dry	1	12/21/2022 18:06
3-Nitroaniline	U		84	140	µg/Kg-dry	1	12/21/2022 18:06
4,6-Dinitro-2-methylphenol	U		120	140	µg/Kg-dry	1	12/21/2022 18:06
4-Bromophenyl phenyl ether	U		79	140	µg/Kg-dry	1	12/21/2022 18:06
4-Chloro-3-methylphenol	U		110	140	µg/Kg-dry	1	12/21/2022 18:06
4-Chloroaniline	U		73	290	µg/Kg-dry	1	12/21/2022 18:06
4-Chlorophenyl phenyl ether	U		94	140	µg/Kg-dry	1	12/21/2022 18:06
4-Nitroaniline	U		220	720	µg/Kg-dry	1	12/21/2022 18:06
4-Nitrophenol	U		70	720	µg/Kg-dry	1	12/21/2022 18:06
Acenaphthene	81		21	29	µg/Kg-dry	1	12/21/2022 18:06
Acenaphthylene	190		19	29	µg/Kg-dry	1	12/21/2022 18:06
Acetophenone	U		92	140	µg/Kg-dry	1	12/21/2022 18:06
Anthracene	360		20	29	µg/Kg-dry	1	12/21/2022 18:06
Atrazine	U		85	140	µg/Kg-dry	1	12/21/2022 18:06
Benzaldehyde	U		220	290	µg/Kg-dry	1	12/21/2022 18:06
Benzo(a)anthracene	1,200		25	29	µg/Kg-dry	1	12/21/2022 18:06
Benzo(a)pyrene	1,300		18	29	µg/Kg-dry	1	12/21/2022 18:06
Benzo(b)fluoranthene	1,400		22	29	µg/Kg-dry	1	12/21/2022 18:06
Benzo(g,h,i)perylene	830		22	29	µg/Kg-dry	1	12/21/2022 18:06
Benzo(k)fluoranthene	600		22	29	µg/Kg-dry	1	12/21/2022 18:06
Bis(2-chloroethoxy)methane	U		92	140	µg/Kg-dry	1	12/21/2022 18:06
Bis(2-chloroethyl)ether	U		100	140	µg/Kg-dry	1	12/21/2022 18:06
Bis(2-ethylhexyl)phthalate	280		120	140	µg/Kg-dry	1	12/21/2022 18:06
Butyl benzyl phthalate	U		180	290	µg/Kg-dry	1	12/21/2022 18:06

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-01 (0-2)
Collection Date: 12/5/2022 01:50 PM

Work Order: 22120868
Lab ID: 22120868-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		220	290	µg/Kg-dry	1	12/21/2022 18:06
Carbazole	290		100	140	µg/Kg-dry	1	12/21/2022 18:06
Chrysene	1,100		23	29	µg/Kg-dry	1	12/21/2022 18:06
Dibenzo(a,h)anthracene	210		16	29	µg/Kg-dry	1	12/21/2022 18:06
Dibenzofuran	U		89	140	µg/Kg-dry	1	12/21/2022 18:06
Diethyl phthalate	U		110	140	µg/Kg-dry	1	12/21/2022 18:06
Dimethyl phthalate	U		110	140	µg/Kg-dry	1	12/21/2022 18:06
Di-n-butyl phthalate	U		89	140	µg/Kg-dry	1	12/21/2022 18:06
Di-n-octyl phthalate	U		130	140	µg/Kg-dry	1	12/21/2022 18:06
Fluoranthene	2,500		14	29	µg/Kg-dry	1	12/21/2022 18:06
Fluorene	120		21	29	µg/Kg-dry	1	12/21/2022 18:06
Hexachlorobenzene	U		89	140	µg/Kg-dry	1	12/21/2022 18:06
Hexachlorobutadiene	U		110	140	µg/Kg-dry	1	12/21/2022 18:06
Hexachlorocyclopentadiene	U		140	140	µg/Kg-dry	1	12/21/2022 18:06
Hexachloroethane	U		60	140	µg/Kg-dry	1	12/21/2022 18:06
Indeno(1,2,3-cd)pyrene	930		20	29	µg/Kg-dry	1	12/21/2022 18:06
Isophorone	U		100	720	µg/Kg-dry	1	12/21/2022 18:06
Naphthalene	40		18	29	µg/Kg-dry	1	12/21/2022 18:06
Nitrobenzene	U		110	720	µg/Kg-dry	1	12/21/2022 18:06
N-Nitrosodi-n-propylamine	U		140	140	µg/Kg-dry	1	12/21/2022 18:06
N-Nitrosodiphenylamine	U		83	140	µg/Kg-dry	1	12/21/2022 18:06
Pentachlorophenol	U		110	140	µg/Kg-dry	1	12/21/2022 18:06
Phenanthrene	1,500		13	29	µg/Kg-dry	1	12/21/2022 18:06
Phenol	U		73	140	µg/Kg-dry	1	12/21/2022 18:06
Pyrene	1,900		27	29	µg/Kg-dry	1	12/21/2022 18:06
Surr: 2,4,6-Tribromophenol	75.9			48-94	%REC	1	12/21/2022 18:06
Surr: 2-Fluorobiphenyl	82.1			50-103	%REC	1	12/21/2022 18:06
Surr: 2-Fluorophenol	74.4			43-105	%REC	1	12/21/2022 18:06
Surr: 4-Terphenyl-d14	75.6			55-111	%REC	1	12/21/2022 18:06
Surr: Nitrobenzene-d5	77.5			47-100	%REC	1	12/21/2022 18:06
Surr: Phenol-d6	82.2			49-110	%REC	1	12/21/2022 18:06
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035A / 12/9/22		Analyst: DMS
1,1,1-Trichloroethane	U		23	50	µg/Kg-dry	1	12/15/2022 17:49
1,1,2,2-Tetrachloroethane	U		22	50	µg/Kg-dry	1	12/15/2022 17:49
1,1,2-Trichloroethane	U		21	50	µg/Kg-dry	1	12/15/2022 17:49
1,1,2-Trichlorotrifluoroethane	U		32	50	µg/Kg-dry	1	12/15/2022 17:49
1,1-Dichloroethane	U		18	50	µg/Kg-dry	1	12/15/2022 17:49
1,1-Dichloroethene	U		16	50	µg/Kg-dry	1	12/15/2022 17:49
1,2,3-Trichlorobenzene	U		60	170	µg/Kg-dry	1	12/15/2022 17:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: SB-01 (0-2)

Collection Date: 12/5/2022 01:50 PM

Work Order: 22120868

Lab ID: 22120868-05

Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,3-Trichloropropane	U		21	50	µg/Kg-dry	1	12/15/2022 17:49
1,2,4-Trichlorobenzene	U		57	170	µg/Kg-dry	1	12/15/2022 17:49
1,2,4-Trimethylbenzene	U		37	50	µg/Kg-dry	1	12/15/2022 17:49
1,2-Dibromo-3-chloropropane	U		46	170	µg/Kg-dry	1	12/15/2022 17:49
1,2-Dibromoethane	U		14	50	µg/Kg-dry	1	12/15/2022 17:49
1,2-Dichlorobenzene	U		19	50	µg/Kg-dry	1	12/15/2022 17:49
1,2-Dichloroethane	U		75	170	µg/Kg-dry	1	12/15/2022 17:49
1,2-Dichloropropane	U		37	50	µg/Kg-dry	1	12/15/2022 17:49
1,3,5-Trimethylbenzene	U		58	170	µg/Kg-dry	1	12/15/2022 17:49
1,3-Dichlorobenzene	U		17	50	µg/Kg-dry	1	12/15/2022 17:49
1,4-Dichlorobenzene	U		12	50	µg/Kg-dry	1	12/15/2022 17:49
2-Butanone	U		41	330	µg/Kg-dry	1	12/15/2022 17:49
2-Hexanone	U		25	50	µg/Kg-dry	1	12/15/2022 17:49
4-Methyl-2-pentanone	U		47	50	µg/Kg-dry	1	12/15/2022 17:49
Acetone	U		150	170	µg/Kg-dry	1	12/15/2022 17:49
Benzene	U		24	50	µg/Kg-dry	1	12/15/2022 17:49
Bromochloromethane	U		25	50	µg/Kg-dry	1	12/15/2022 17:49
Bromodichloromethane	U		28	50	µg/Kg-dry	1	12/15/2022 17:49
Bromoform	U		21	50	µg/Kg-dry	1	12/15/2022 17:49
Bromomethane	U		96	170	µg/Kg-dry	1	12/15/2022 17:49
Carbon disulfide	U		26	50	µg/Kg-dry	1	12/15/2022 17:49
Carbon tetrachloride	U		20	50	µg/Kg-dry	1	12/15/2022 17:49
Chlorobenzene	U		17	50	µg/Kg-dry	1	12/15/2022 17:49
Chloroethane	U		49	170	µg/Kg-dry	1	12/15/2022 17:49
Chloroform	U		18	50	µg/Kg-dry	1	12/15/2022 17:49
Chloromethane	U		140	170	µg/Kg-dry	1	12/15/2022 17:49
cis-1,2-Dichloroethene	U		32	50	µg/Kg-dry	1	12/15/2022 17:49
cis-1,3-Dichloropropene	U		38	50	µg/Kg-dry	1	12/15/2022 17:49
Cyclohexane	U		45	170	µg/Kg-dry	1	12/15/2022 17:49
Dibromochloromethane	U		28	50	µg/Kg-dry	1	12/15/2022 17:49
Dichlorodifluoromethane	U		61	170	µg/Kg-dry	1	12/15/2022 17:49
Ethylbenzene	U		11	50	µg/Kg-dry	1	12/15/2022 17:49
Isopropylbenzene	U		15	50	µg/Kg-dry	1	12/15/2022 17:49
m,p-Xylene	U		67	100	µg/Kg-dry	1	12/15/2022 17:49
Methyl acetate	U		60	420	µg/Kg-dry	1	12/15/2022 17:49
Methyl tert-butyl ether	U		14	50	µg/Kg-dry	1	12/15/2022 17:49
Methylcyclohexane	U		19	50	µg/Kg-dry	1	12/15/2022 17:49
Methylene chloride	U		130	420	µg/Kg-dry	1	12/15/2022 17:49
o-Xylene	U		19	50	µg/Kg-dry	1	12/15/2022 17:49
Styrene	U		20	50	µg/Kg-dry	1	12/15/2022 17:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
 Project: Houston
 Sample ID: SB-01 (0-2)
 Collection Date: 12/5/2022 01:50 PM

Work Order: 22120868
 Lab ID: 22120868-05
 Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Tetrachloroethene	U		30	50	µg/Kg-dry	1	12/15/2022 17:49
Toluene	U		14	50	µg/Kg-dry	1	12/15/2022 17:49
trans-1,2-Dichloroethene	U		18	50	µg/Kg-dry	1	12/15/2022 17:49
trans-1,3-Dichloropropene	U		28	50	µg/Kg-dry	1	12/15/2022 17:49
Trichloroethene	U		22	50	µg/Kg-dry	1	12/15/2022 17:49
Trichlorofluoromethane	U		26	50	µg/Kg-dry	1	12/15/2022 17:49
Vinyl chloride	U		33	50	µg/Kg-dry	1	12/15/2022 17:49
Xylenes, Total	U		67	150	µg/Kg-dry	1	12/15/2022 17:49
Surr: 1,2-Dichloroethane-d4	105			80-120	%REC	1	12/15/2022 17:49
Surr: 4-Bromofluorobenzene	97.6			80-120	%REC	1	12/15/2022 17:49
Surr: Dibromofluoromethane	96.8			80-120	%REC	1	12/15/2022 17:49
Surr: Toluene-d8	102			80-120	%REC	1	12/15/2022 17:49
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	32		0.10	0.10	% of sample	1	12/15/2022 11:57

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-01 (23-25)
Collection Date: 12/5/2022 02:00 PM

Work Order: 22120868
Lab ID: 22120868-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW3550 / 12/19/22		Analyst: MTB
DRO (C10-C28)	6.7	J	3.4	12	mg/Kg-dry	1	12/20/2022 00:57
ORO (C28-C40)	15		5.7	12	mg/Kg-dry	1	12/20/2022 00:57
Surr: 4-Terphenyl-d14	70.7			25-110	%REC	1	12/20/2022 00:57
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035A / 12/11/22		Analyst: MTB
GRO (C6-C10)	5,000	J	2,700	6,400	µg/Kg-dry	1	12/13/2022 19:43
Surr: Toluene-d8	95.7			78-115	%REC	1	12/13/2022 19:43
MERCURY BY CVA							
			Method: SW7471B		Prep: SW7471 / 12/13/22		Analyst: KRA
Mercury	U		0.014	0.020	mg/Kg-dry	1	12/14/2022 14:03
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 12/16/22		Analyst: STP
Aluminum	1,400		190	240	mg/Kg-dry	100	12/19/2022 14:52
Antimony	U		0.082	0.30	mg/Kg-dry	1	12/16/2022 19:34
Arsenic	0.80		0.037	0.30	mg/Kg-dry	1	12/16/2022 19:34
Barium	5.9		0.28	0.30	mg/Kg-dry	1	12/16/2022 19:34
Beryllium	0.10	J	0.021	0.12	mg/Kg-dry	1	12/16/2022 19:34
Cadmium	U		0.018	0.12	mg/Kg-dry	1	12/16/2022 19:34
Calcium	24,000		1,500	3,000	mg/Kg-dry	100	12/19/2022 14:52
Chromium	2.5		0.13	0.30	mg/Kg-dry	1	12/16/2022 19:34
Cobalt	0.92		0.050	0.30	mg/Kg-dry	1	12/16/2022 19:34
Copper	1.2		0.30	0.30	mg/Kg-dry	1	12/16/2022 19:34
Iron	2,300		9.7	12	mg/Kg-dry	1	12/16/2022 19:34
Lead	1.8		0.15	0.30	mg/Kg-dry	1	12/16/2022 19:34
Magnesium	1,200		8.5	12	mg/Kg-dry	1	12/16/2022 19:34
Manganese	84		0.26	0.30	mg/Kg-dry	1	12/16/2022 19:34
Nickel	2.6		0.16	0.30	mg/Kg-dry	1	12/16/2022 19:34
Potassium	240		5.1	12	mg/Kg-dry	1	12/16/2022 19:34
Selenium	U		0.28	0.30	mg/Kg-dry	1	12/16/2022 19:34
Silver	U		0.040	0.30	mg/Kg-dry	1	12/16/2022 19:34
Sodium	110		16	18	mg/Kg-dry	1	12/16/2022 19:34
Thallium	U		0.048	0.30	mg/Kg-dry	1	12/16/2022 19:34
Vanadium	4.0		0.078	0.30	mg/Kg-dry	1	12/16/2022 19:34
Zinc	4.4		0.60	0.61	mg/Kg-dry	1	12/16/2022 19:34
SEMI-VOLATILE ORGANIC COMPOUNDS							
			Method: SW846 8270D		Prep: SW3546 / 12/19/22		Analyst: EEW
1,1'-Biphenyl	U		59	84	µg/Kg-dry	1	12/21/2022 18:29
1,2,4,5-Tetrachlorobenzene	U		76	420	µg/Kg-dry	1	12/21/2022 18:29
1,4-Dioxane	U		200	420	µg/Kg-dry	1	12/21/2022 18:29
1-Methylnaphthalene	U		12	17	µg/Kg-dry	1	12/21/2022 18:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-01 (23-25)
Collection Date: 12/5/2022 02:00 PM

Work Order: 22120868
Lab ID: 22120868-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,2'-Oxybis(1-chloropropane)	U		58	84	µg/Kg-dry	1	12/21/2022 18:29
2,3,4,6-Tetrachlorophenol	U		62	170	µg/Kg-dry	1	12/21/2022 18:29
2,4,5-Trichlorophenol	U		50	84	µg/Kg-dry	1	12/21/2022 18:29
2,4,6-Trichlorophenol	U		23	84	µg/Kg-dry	1	12/21/2022 18:29
2,4-Dichlorophenol	U		46	84	µg/Kg-dry	1	12/21/2022 18:29
2,4-Dimethylphenol	U		44	84	µg/Kg-dry	1	12/21/2022 18:29
2,4-Dinitrophenol	U		150	1,700	µg/Kg-dry	1	12/21/2022 18:29
2,4-Dinitrotoluene	U		55	84	µg/Kg-dry	1	12/21/2022 18:29
2,6-Dinitrotoluene	U		55	84	µg/Kg-dry	1	12/21/2022 18:29
2-Chloronaphthalene	U		12	17	µg/Kg-dry	1	12/21/2022 18:29
2-Chlorophenol	U		57	84	µg/Kg-dry	1	12/21/2022 18:29
2-Methylnaphthalene	U		8.6	17	µg/Kg-dry	1	12/21/2022 18:29
2-Methylphenol	U		52	84	µg/Kg-dry	1	12/21/2022 18:29
2-Nitroaniline	U		47	84	µg/Kg-dry	1	12/21/2022 18:29
2-Nitrophenol	U		54	84	µg/Kg-dry	1	12/21/2022 18:29
3&4-Methylphenol	U		46	84	µg/Kg-dry	1	12/21/2022 18:29
3,3'-Dichlorobenzidine	U		40	420	µg/Kg-dry	1	12/21/2022 18:29
3-Nitroaniline	U		49	84	µg/Kg-dry	1	12/21/2022 18:29
4,6-Dinitro-2-methylphenol	U		71	84	µg/Kg-dry	1	12/21/2022 18:29
4-Bromophenyl phenyl ether	U		46	84	µg/Kg-dry	1	12/21/2022 18:29
4-Chloro-3-methylphenol	U		62	84	µg/Kg-dry	1	12/21/2022 18:29
4-Chloroaniline	U		43	170	µg/Kg-dry	1	12/21/2022 18:29
4-Chlorophenyl phenyl ether	U		55	84	µg/Kg-dry	1	12/21/2022 18:29
4-Nitroaniline	U		130	420	µg/Kg-dry	1	12/21/2022 18:29
4-Nitrophenol	U		41	420	µg/Kg-dry	1	12/21/2022 18:29
Acenaphthene	U		12	17	µg/Kg-dry	1	12/21/2022 18:29
Acenaphthylene	U		11	17	µg/Kg-dry	1	12/21/2022 18:29
Acetophenone	U		54	84	µg/Kg-dry	1	12/21/2022 18:29
Anthracene	U		12	17	µg/Kg-dry	1	12/21/2022 18:29
Atrazine	U		50	84	µg/Kg-dry	1	12/21/2022 18:29
Benzaldehyde	U		130	170	µg/Kg-dry	1	12/21/2022 18:29
Benzo(a)anthracene	U		15	17	µg/Kg-dry	1	12/21/2022 18:29
Benzo(a)pyrene	U		10	17	µg/Kg-dry	1	12/21/2022 18:29
Benzo(b)fluoranthene	U		13	17	µg/Kg-dry	1	12/21/2022 18:29
Benzo(g,h,i)perylene	U		13	17	µg/Kg-dry	1	12/21/2022 18:29
Benzo(k)fluoranthene	U		13	17	µg/Kg-dry	1	12/21/2022 18:29
Bis(2-chloroethoxy)methane	U		54	84	µg/Kg-dry	1	12/21/2022 18:29
Bis(2-chloroethyl)ether	U		60	84	µg/Kg-dry	1	12/21/2022 18:29
Bis(2-ethylhexyl)phthalate	120		70	84	µg/Kg-dry	1	12/21/2022 18:29
Butyl benzyl phthalate	U		110	170	µg/Kg-dry	1	12/21/2022 18:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-01 (23-25)
Collection Date: 12/5/2022 02:00 PM

Work Order: 22120868
Lab ID: 22120868-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		130	170	µg/Kg-dry	1	12/21/2022 18:29
Carbazole	U		61	84	µg/Kg-dry	1	12/21/2022 18:29
Chrysene	U		14	17	µg/Kg-dry	1	12/21/2022 18:29
Dibenzo(a,h)anthracene	U		9.1	17	µg/Kg-dry	1	12/21/2022 18:29
Dibenzofuran	U		52	84	µg/Kg-dry	1	12/21/2022 18:29
Diethyl phthalate	U		67	84	µg/Kg-dry	1	12/21/2022 18:29
Dimethyl phthalate	U		64	84	µg/Kg-dry	1	12/21/2022 18:29
Di-n-butyl phthalate	U		52	84	µg/Kg-dry	1	12/21/2022 18:29
Di-n-octyl phthalate	U		73	84	µg/Kg-dry	1	12/21/2022 18:29
Fluoranthene	15	J	8.1	17	µg/Kg-dry	1	12/21/2022 18:29
Fluorene	U		12	17	µg/Kg-dry	1	12/21/2022 18:29
Hexachlorobenzene	U		52	84	µg/Kg-dry	1	12/21/2022 18:29
Hexachlorobutadiene	U		66	84	µg/Kg-dry	1	12/21/2022 18:29
Hexachlorocyclopentadiene	U		80	84	µg/Kg-dry	1	12/21/2022 18:29
Hexachloroethane	U		35	84	µg/Kg-dry	1	12/21/2022 18:29
Indeno(1,2,3-cd)pyrene	U		12	17	µg/Kg-dry	1	12/21/2022 18:29
Isophorone	U		60	420	µg/Kg-dry	1	12/21/2022 18:29
Naphthalene	U		11	17	µg/Kg-dry	1	12/21/2022 18:29
Nitrobenzene	U		64	420	µg/Kg-dry	1	12/21/2022 18:29
N-Nitrosodi-n-propylamine	U		83	84	µg/Kg-dry	1	12/21/2022 18:29
N-Nitrosodiphenylamine	U		48	84	µg/Kg-dry	1	12/21/2022 18:29
Pentachlorophenol	U		67	84	µg/Kg-dry	1	12/21/2022 18:29
Phenanthrene	15	J	7.9	17	µg/Kg-dry	1	12/21/2022 18:29
Phenol	U		43	84	µg/Kg-dry	1	12/21/2022 18:29
Pyrene	U		16	17	µg/Kg-dry	1	12/21/2022 18:29
Surr: 2,4,6-Tribromophenol	80.5			48-94	%REC	1	12/21/2022 18:29
Surr: 2-Fluorobiphenyl	79.2			50-103	%REC	1	12/21/2022 18:29
Surr: 2-Fluorophenol	77.3			43-105	%REC	1	12/21/2022 18:29
Surr: 4-Terphenyl-d14	77.1			55-111	%REC	1	12/21/2022 18:29
Surr: Nitrobenzene-d5	76.9			47-100	%REC	1	12/21/2022 18:29
Surr: Phenol-d6	85.6			49-110	%REC	1	12/21/2022 18:29
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035A / 12/9/22		Analyst: DMS
1,1,1-Trichloroethane	U		17	39	µg/Kg-dry	1	12/15/2022 18:07
1,1,2,2-Tetrachloroethane	U		17	39	µg/Kg-dry	1	12/15/2022 18:07
1,1,2-Trichloroethane	U		16	39	µg/Kg-dry	1	12/15/2022 18:07
1,1,2-Trichlorotrifluoroethane	U		24	39	µg/Kg-dry	1	12/15/2022 18:07
1,1-Dichloroethane	U		14	39	µg/Kg-dry	1	12/15/2022 18:07
1,1-Dichloroethene	U		12	39	µg/Kg-dry	1	12/15/2022 18:07
1,2,3-Trichlorobenzene	U		46	130	µg/Kg-dry	1	12/15/2022 18:07

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: SB-01 (23-25)

Collection Date: 12/5/2022 02:00 PM

Work Order: 22120868

Lab ID: 22120868-06

Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,3-Trichloropropane	U		16	39	µg/Kg-dry	1	12/15/2022 18:07
1,2,4-Trichlorobenzene	U		44	130	µg/Kg-dry	1	12/15/2022 18:07
1,2,4-Trimethylbenzene	U		28	39	µg/Kg-dry	1	12/15/2022 18:07
1,2-Dibromo-3-chloropropane	U		35	130	µg/Kg-dry	1	12/15/2022 18:07
1,2-Dibromoethane	U		11	39	µg/Kg-dry	1	12/15/2022 18:07
1,2-Dichlorobenzene	U		15	39	µg/Kg-dry	1	12/15/2022 18:07
1,2-Dichloroethane	U		58	130	µg/Kg-dry	1	12/15/2022 18:07
1,2-Dichloropropane	U		28	39	µg/Kg-dry	1	12/15/2022 18:07
1,3,5-Trimethylbenzene	U		45	130	µg/Kg-dry	1	12/15/2022 18:07
1,3-Dichlorobenzene	U		13	39	µg/Kg-dry	1	12/15/2022 18:07
1,4-Dichlorobenzene	U		9.3	39	µg/Kg-dry	1	12/15/2022 18:07
2-Butanone	U		32	260	µg/Kg-dry	1	12/15/2022 18:07
2-Hexanone	U		19	39	µg/Kg-dry	1	12/15/2022 18:07
4-Methyl-2-pentanone	U		36	39	µg/Kg-dry	1	12/15/2022 18:07
Acetone	U		110	130	µg/Kg-dry	1	12/15/2022 18:07
Benzene	U		19	39	µg/Kg-dry	1	12/15/2022 18:07
Bromochloromethane	U		20	39	µg/Kg-dry	1	12/15/2022 18:07
Bromodichloromethane	U		22	39	µg/Kg-dry	1	12/15/2022 18:07
Bromoform	U		16	39	µg/Kg-dry	1	12/15/2022 18:07
Bromomethane	U		74	130	µg/Kg-dry	1	12/15/2022 18:07
Carbon disulfide	U		20	39	µg/Kg-dry	1	12/15/2022 18:07
Carbon tetrachloride	U		15	39	µg/Kg-dry	1	12/15/2022 18:07
Chlorobenzene	U		13	39	µg/Kg-dry	1	12/15/2022 18:07
Chloroethane	U		38	130	µg/Kg-dry	1	12/15/2022 18:07
Chloroform	U		14	39	µg/Kg-dry	1	12/15/2022 18:07
Chloromethane	U		110	130	µg/Kg-dry	1	12/15/2022 18:07
cis-1,2-Dichloroethene	U		25	39	µg/Kg-dry	1	12/15/2022 18:07
cis-1,3-Dichloropropene	U		29	39	µg/Kg-dry	1	12/15/2022 18:07
Cyclohexane	U		35	130	µg/Kg-dry	1	12/15/2022 18:07
Dibromochloromethane	U		22	39	µg/Kg-dry	1	12/15/2022 18:07
Dichlorodifluoromethane	U		47	130	µg/Kg-dry	1	12/15/2022 18:07
Ethylbenzene	U		8.1	39	µg/Kg-dry	1	12/15/2022 18:07
Isopropylbenzene	U		12	39	µg/Kg-dry	1	12/15/2022 18:07
m,p-Xylene	U		51	77	µg/Kg-dry	1	12/15/2022 18:07
Methyl acetate	U		46	320	µg/Kg-dry	1	12/15/2022 18:07
Methyl tert-butyl ether	U		11	39	µg/Kg-dry	1	12/15/2022 18:07
Methylcyclohexane	U		15	39	µg/Kg-dry	1	12/15/2022 18:07
Methylene chloride	U		100	320	µg/Kg-dry	1	12/15/2022 18:07
o-Xylene	U		15	39	µg/Kg-dry	1	12/15/2022 18:07
Styrene	U		15	39	µg/Kg-dry	1	12/15/2022 18:07

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-01 (23-25)
Collection Date: 12/5/2022 02:00 PM

Work Order: 22120868
Lab ID: 22120868-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Tetrachloroethene	U		23	39	µg/Kg-dry	1	12/15/2022 18:07
Toluene	U		11	39	µg/Kg-dry	1	12/15/2022 18:07
trans-1,2-Dichloroethene	U		14	39	µg/Kg-dry	1	12/15/2022 18:07
trans-1,3-Dichloropropene	U		22	39	µg/Kg-dry	1	12/15/2022 18:07
Trichloroethene	U		17	39	µg/Kg-dry	1	12/15/2022 18:07
Trichlorofluoromethane	U		20	39	µg/Kg-dry	1	12/15/2022 18:07
Vinyl chloride	U		26	39	µg/Kg-dry	1	12/15/2022 18:07
Xylenes, Total	U		51	120	µg/Kg-dry	1	12/15/2022 18:07
Surr: 1,2-Dichloroethane-d4	107			80-120	%REC	1	12/15/2022 18:07
Surr: 4-Bromofluorobenzene	99.8			80-120	%REC	1	12/15/2022 18:07
Surr: Dibromofluoromethane	95.9			80-120	%REC	1	12/15/2022 18:07
Surr: Toluene-d8	102			80-120	%REC	1	12/15/2022 18:07
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	18		0.10	0.10	% of sample	1	12/15/2022 11:57

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-06 (0-2)
Collection Date: 12/5/2022 03:40 PM

Work Order: 22120868
Lab ID: 22120868-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW3550 / 12/19/22		Analyst: MTB
DRO (C10-C28)	6.4	J	3.6	12	mg/Kg-dry	1	12/20/2022 01:34
ORO (C28-C40)	34		6.0	12	mg/Kg-dry	1	12/20/2022 01:34
Surr: 4-Terphenyl-d14	60.9			25-110	%REC	1	12/20/2022 01:34
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035A / 12/11/22		Analyst: MTB
GRO (C6-C10)	4,900	J	2,800	6,800	µg/Kg-dry	1	12/13/2022 20:05
Surr: Toluene-d8	96.7			78-115	%REC	1	12/13/2022 20:05
MERCURY BY CVA			Method: SW7471B		Prep: SW7471 / 12/13/22		Analyst: KRA
Mercury	0.025		0.014	0.021	mg/Kg-dry	1	12/14/2022 14:05
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 12/16/22		Analyst: STP
Aluminum	7,100		200	260	mg/Kg-dry	100	12/19/2022 14:54
Antimony	U		0.086	0.32	mg/Kg-dry	1	12/16/2022 19:36
Arsenic	2.9		0.038	0.32	mg/Kg-dry	1	12/16/2022 19:36
Barium	180		29	32	mg/Kg-dry	100	12/19/2022 14:54
Beryllium	0.82		0.022	0.13	mg/Kg-dry	1	12/16/2022 19:36
Cadmium	0.15		0.019	0.13	mg/Kg-dry	1	12/16/2022 19:36
Calcium	7,500		15	32	mg/Kg-dry	1	12/16/2022 19:36
Chromium	8.2		0.14	0.32	mg/Kg-dry	1	12/16/2022 19:36
Cobalt	6.7		0.052	0.32	mg/Kg-dry	1	12/16/2022 19:36
Copper	14		0.32	0.32	mg/Kg-dry	1	12/16/2022 19:36
Iron	6,600		10	13	mg/Kg-dry	1	12/16/2022 19:36
Lead	40		0.15	0.32	mg/Kg-dry	1	12/16/2022 19:36
Magnesium	1,700		8.9	13	mg/Kg-dry	1	12/16/2022 19:36
Manganese	180		27	32	mg/Kg-dry	100	12/19/2022 14:54
Nickel	6.9		0.17	0.32	mg/Kg-dry	1	12/16/2022 19:36
Potassium	690		5.4	13	mg/Kg-dry	1	12/16/2022 19:36
Selenium	0.44		0.29	0.32	mg/Kg-dry	1	12/16/2022 19:36
Silver	U		0.042	0.32	mg/Kg-dry	1	12/16/2022 19:36
Sodium	270		17	19	mg/Kg-dry	1	12/16/2022 19:36
Thallium	0.078	J	0.050	0.32	mg/Kg-dry	1	12/16/2022 19:36
Vanadium	26		0.082	0.32	mg/Kg-dry	1	12/16/2022 19:36
Zinc	57		0.63	0.64	mg/Kg-dry	1	12/16/2022 19:36
SEMI-VOLATILE ORGANIC COMPOUNDS			Method: SW846 8270D		Prep: SW3546 / 12/19/22		Analyst: EEW
1,1'-Biphenyl	U		86	120	µg/Kg-dry	1	12/21/2022 18:53
1,2,4,5-Tetrachlorobenzene	U		110	620	µg/Kg-dry	1	12/21/2022 18:53
1,4-Dioxane	U		290	620	µg/Kg-dry	1	12/21/2022 18:53
1-Methylnaphthalene	U		18	25	µg/Kg-dry	1	12/21/2022 18:53

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-06 (0-2)
Collection Date: 12/5/2022 03:40 PM

Work Order: 22120868
Lab ID: 22120868-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,2'-Oxybis(1-chloropropane)	U		84	120	µg/Kg-dry	1	12/21/2022 18:53
2,3,4,6-Tetrachlorophenol	U		90	250	µg/Kg-dry	1	12/21/2022 18:53
2,4,5-Trichlorophenol	U		73	120	µg/Kg-dry	1	12/21/2022 18:53
2,4,6-Trichlorophenol	U		33	120	µg/Kg-dry	1	12/21/2022 18:53
2,4-Dichlorophenol	U		66	120	µg/Kg-dry	1	12/21/2022 18:53
2,4-Dimethylphenol	U		63	120	µg/Kg-dry	1	12/21/2022 18:53
2,4-Dinitrophenol	U		220	2,500	µg/Kg-dry	1	12/21/2022 18:53
2,4-Dinitrotoluene	U		80	120	µg/Kg-dry	1	12/21/2022 18:53
2,6-Dinitrotoluene	U		81	120	µg/Kg-dry	1	12/21/2022 18:53
2-Chloronaphthalene	U		17	25	µg/Kg-dry	1	12/21/2022 18:53
2-Chlorophenol	U		83	120	µg/Kg-dry	1	12/21/2022 18:53
2-Methylnaphthalene	U		13	25	µg/Kg-dry	1	12/21/2022 18:53
2-Methylphenol	U		75	120	µg/Kg-dry	1	12/21/2022 18:53
2-Nitroaniline	U		68	120	µg/Kg-dry	1	12/21/2022 18:53
2-Nitrophenol	U		78	120	µg/Kg-dry	1	12/21/2022 18:53
3&4-Methylphenol	U		67	120	µg/Kg-dry	1	12/21/2022 18:53
3,3'-Dichlorobenzidine	U		57	620	µg/Kg-dry	1	12/21/2022 18:53
3-Nitroaniline	U		71	120	µg/Kg-dry	1	12/21/2022 18:53
4,6-Dinitro-2-methylphenol	U		100	120	µg/Kg-dry	1	12/21/2022 18:53
4-Bromophenyl phenyl ether	U		67	120	µg/Kg-dry	1	12/21/2022 18:53
4-Chloro-3-methylphenol	U		91	120	µg/Kg-dry	1	12/21/2022 18:53
4-Chloroaniline	U		63	250	µg/Kg-dry	1	12/21/2022 18:53
4-Chlorophenyl phenyl ether	U		80	120	µg/Kg-dry	1	12/21/2022 18:53
4-Nitroaniline	U		190	620	µg/Kg-dry	1	12/21/2022 18:53
4-Nitrophenol	U		60	620	µg/Kg-dry	1	12/21/2022 18:53
Acenaphthene	U		18	25	µg/Kg-dry	1	12/21/2022 18:53
Acenaphthylene	U		16	25	µg/Kg-dry	1	12/21/2022 18:53
Acetophenone	U		78	120	µg/Kg-dry	1	12/21/2022 18:53
Anthracene	U		17	25	µg/Kg-dry	1	12/21/2022 18:53
Atrazine	U		72	120	µg/Kg-dry	1	12/21/2022 18:53
Benzaldehyde	U		190	250	µg/Kg-dry	1	12/21/2022 18:53
Benzo(a)anthracene	42		21	25	µg/Kg-dry	1	12/21/2022 18:53
Benzo(a)pyrene	49		15	25	µg/Kg-dry	1	12/21/2022 18:53
Benzo(b)fluoranthene	54		18	25	µg/Kg-dry	1	12/21/2022 18:53
Benzo(g,h,i)perylene	37		19	25	µg/Kg-dry	1	12/21/2022 18:53
Benzo(k)fluoranthene	32		19	25	µg/Kg-dry	1	12/21/2022 18:53
Bis(2-chloroethoxy)methane	U		78	120	µg/Kg-dry	1	12/21/2022 18:53
Bis(2-chloroethyl)ether	U		87	120	µg/Kg-dry	1	12/21/2022 18:53
Bis(2-ethylhexyl)phthalate	U		100	120	µg/Kg-dry	1	12/21/2022 18:53
Butyl benzyl phthalate	U		150	250	µg/Kg-dry	1	12/21/2022 18:53

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-06 (0-2)
Collection Date: 12/5/2022 03:40 PM

Work Order: 22120868
Lab ID: 22120868-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		190	250	µg/Kg-dry	1	12/21/2022 18:53
Carbazole	U		89	120	µg/Kg-dry	1	12/21/2022 18:53
Chrysene	27		20	25	µg/Kg-dry	1	12/21/2022 18:53
Dibenzo(a,h)anthracene	U		13	25	µg/Kg-dry	1	12/21/2022 18:53
Dibenzofuran	U		76	120	µg/Kg-dry	1	12/21/2022 18:53
Diethyl phthalate	U		97	120	µg/Kg-dry	1	12/21/2022 18:53
Dimethyl phthalate	U		94	120	µg/Kg-dry	1	12/21/2022 18:53
Di-n-butyl phthalate	U		76	120	µg/Kg-dry	1	12/21/2022 18:53
Di-n-octyl phthalate	U		110	120	µg/Kg-dry	1	12/21/2022 18:53
Fluoranthene	66		12	25	µg/Kg-dry	1	12/21/2022 18:53
Fluorene	U		18	25	µg/Kg-dry	1	12/21/2022 18:53
Hexachlorobenzene	U		76	120	µg/Kg-dry	1	12/21/2022 18:53
Hexachlorobutadiene	U		95	120	µg/Kg-dry	1	12/21/2022 18:53
Hexachlorocyclopentadiene	U		120	120	µg/Kg-dry	1	12/21/2022 18:53
Hexachloroethane	U		51	120	µg/Kg-dry	1	12/21/2022 18:53
Indeno(1,2,3-cd)pyrene	39		17	25	µg/Kg-dry	1	12/21/2022 18:53
Isophorone	U		88	620	µg/Kg-dry	1	12/21/2022 18:53
Naphthalene	U		16	25	µg/Kg-dry	1	12/21/2022 18:53
Nitrobenzene	U		93	620	µg/Kg-dry	1	12/21/2022 18:53
N-Nitrosodi-n-propylamine	U		120	120	µg/Kg-dry	1	12/21/2022 18:53
N-Nitrosodiphenylamine	U		70	120	µg/Kg-dry	1	12/21/2022 18:53
Pentachlorophenol	U		98	120	µg/Kg-dry	1	12/21/2022 18:53
Phenanthrene	54		11	25	µg/Kg-dry	1	12/21/2022 18:53
Phenol	U		62	120	µg/Kg-dry	1	12/21/2022 18:53
Pyrene	57		23	25	µg/Kg-dry	1	12/21/2022 18:53
Surr: 2,4,6-Tribromophenol	66.5			48-94	%REC	1	12/21/2022 18:53
Surr: 2-Fluorobiphenyl	67.4			50-103	%REC	1	12/21/2022 18:53
Surr: 2-Fluorophenol	63.7			43-105	%REC	1	12/21/2022 18:53
Surr: 4-Terphenyl-d14	70.2			55-111	%REC	1	12/21/2022 18:53
Surr: Nitrobenzene-d5	65.8			47-100	%REC	1	12/21/2022 18:53
Surr: Phenol-d6	70.5			49-110	%REC	1	12/21/2022 18:53
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035A / 12/9/22		Analyst: DMS
1,1,1-Trichloroethane	U		18	41	µg/Kg-dry	1	12/15/2022 18:25
1,1,2,2-Tetrachloroethane	U		18	41	µg/Kg-dry	1	12/15/2022 18:25
1,1,2-Trichloroethane	U		17	41	µg/Kg-dry	1	12/15/2022 18:25
1,1,2-Trichlorotrifluoroethane	U		26	41	µg/Kg-dry	1	12/15/2022 18:25
1,1-Dichloroethane	U		15	41	µg/Kg-dry	1	12/15/2022 18:25
1,1-Dichloroethene	U		13	41	µg/Kg-dry	1	12/15/2022 18:25
1,2,3-Trichlorobenzene	U		49	140	µg/Kg-dry	1	12/15/2022 18:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: SB-06 (0-2)

Collection Date: 12/5/2022 03:40 PM

Work Order: 22120868

Lab ID: 22120868-07

Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,3-Trichloropropane	U		17	41	µg/Kg-dry	1	12/15/2022 18:25
1,2,4-Trichlorobenzene	U		46	140	µg/Kg-dry	1	12/15/2022 18:25
1,2,4-Trimethylbenzene	U		30	41	µg/Kg-dry	1	12/15/2022 18:25
1,2-Dibromo-3-chloropropane	U		38	140	µg/Kg-dry	1	12/15/2022 18:25
1,2-Dibromoethane	U		11	41	µg/Kg-dry	1	12/15/2022 18:25
1,2-Dichlorobenzene	U		15	41	µg/Kg-dry	1	12/15/2022 18:25
1,2-Dichloroethane	U		61	140	µg/Kg-dry	1	12/15/2022 18:25
1,2-Dichloropropane	U		30	41	µg/Kg-dry	1	12/15/2022 18:25
1,3,5-Trimethylbenzene	U		48	140	µg/Kg-dry	1	12/15/2022 18:25
1,3-Dichlorobenzene	U		14	41	µg/Kg-dry	1	12/15/2022 18:25
1,4-Dichlorobenzene	U		9.8	41	µg/Kg-dry	1	12/15/2022 18:25
2-Butanone	U		34	270	µg/Kg-dry	1	12/15/2022 18:25
2-Hexanone	U		20	41	µg/Kg-dry	1	12/15/2022 18:25
4-Methyl-2-pentanone	U		38	41	µg/Kg-dry	1	12/15/2022 18:25
Acetone	U		120	140	µg/Kg-dry	1	12/15/2022 18:25
Benzene	U		20	41	µg/Kg-dry	1	12/15/2022 18:25
Bromochloromethane	U		21	41	µg/Kg-dry	1	12/15/2022 18:25
Bromodichloromethane	U		23	41	µg/Kg-dry	1	12/15/2022 18:25
Bromoform	U		17	41	µg/Kg-dry	1	12/15/2022 18:25
Bromomethane	U		78	140	µg/Kg-dry	1	12/15/2022 18:25
Carbon disulfide	U		21	41	µg/Kg-dry	1	12/15/2022 18:25
Carbon tetrachloride	U		16	41	µg/Kg-dry	1	12/15/2022 18:25
Chlorobenzene	U		14	41	µg/Kg-dry	1	12/15/2022 18:25
Chloroethane	U		40	140	µg/Kg-dry	1	12/15/2022 18:25
Chloroform	U		15	41	µg/Kg-dry	1	12/15/2022 18:25
Chloromethane	U		110	140	µg/Kg-dry	1	12/15/2022 18:25
cis-1,2-Dichloroethene	U		26	41	µg/Kg-dry	1	12/15/2022 18:25
cis-1,3-Dichloropropene	U		31	41	µg/Kg-dry	1	12/15/2022 18:25
Cyclohexane	U		37	140	µg/Kg-dry	1	12/15/2022 18:25
Dibromochloromethane	U		23	41	µg/Kg-dry	1	12/15/2022 18:25
Dichlorodifluoromethane	U		49	140	µg/Kg-dry	1	12/15/2022 18:25
Ethylbenzene	U		8.6	41	µg/Kg-dry	1	12/15/2022 18:25
Isopropylbenzene	U		12	41	µg/Kg-dry	1	12/15/2022 18:25
m,p-Xylene	U		54	82	µg/Kg-dry	1	12/15/2022 18:25
Methyl acetate	U		49	340	µg/Kg-dry	1	12/15/2022 18:25
Methyl tert-butyl ether	U		12	41	µg/Kg-dry	1	12/15/2022 18:25
Methylcyclohexane	U		16	41	µg/Kg-dry	1	12/15/2022 18:25
Methylene chloride	U		110	340	µg/Kg-dry	1	12/15/2022 18:25
o-Xylene	U		16	41	µg/Kg-dry	1	12/15/2022 18:25
Styrene	U		16	41	µg/Kg-dry	1	12/15/2022 18:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-06 (0-2)
Collection Date: 12/5/2022 03:40 PM

Work Order: 22120868
Lab ID: 22120868-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Tetrachloroethene	U		25	41	µg/Kg-dry	1	12/15/2022 18:25
Toluene	U		11	41	µg/Kg-dry	1	12/15/2022 18:25
trans-1,2-Dichloroethene	U		15	41	µg/Kg-dry	1	12/15/2022 18:25
trans-1,3-Dichloropropene	U		23	41	µg/Kg-dry	1	12/15/2022 18:25
Trichloroethene	U		18	41	µg/Kg-dry	1	12/15/2022 18:25
Trichlorofluoromethane	U		21	41	µg/Kg-dry	1	12/15/2022 18:25
Vinyl chloride	U		27	41	µg/Kg-dry	1	12/15/2022 18:25
Xylenes, Total	U		54	120	µg/Kg-dry	1	12/15/2022 18:25
Surr: 1,2-Dichloroethane-d4	106			80-120	%REC	1	12/15/2022 18:25
Surr: 4-Bromofluorobenzene	103			80-120	%REC	1	12/15/2022 18:25
Surr: Dibromofluoromethane	93.2			80-120	%REC	1	12/15/2022 18:25
Surr: Toluene-d8	105			80-120	%REC	1	12/15/2022 18:25
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	21		0.10	0.10	% of sample	1	12/15/2022 11:57

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-06 (23-25)
Collection Date: 12/5/2022 03:50 PM

Work Order: 22120868
Lab ID: 22120868-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW3550 / 12/19/22		Analyst: MTB
DRO (C10-C28)	4.4	J	3.5	12	mg/Kg-dry	1	12/20/2022 02:11
ORO (C28-C40)	8.5	J	5.8	12	mg/Kg-dry	1	12/20/2022 02:11
Surr: 4-Terphenyl-d14	71.6			25-110	%REC	1	12/20/2022 02:11
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035A / 12/11/22		Analyst: MTB
GRO (C6-C10)	5,400	J	2,700	6,500	µg/Kg-dry	1	12/13/2022 20:27
Surr: Toluene-d8	96.6			78-115	%REC	1	12/13/2022 20:27
MERCURY BY CVA			Method: SW7471B		Prep: SW7471 / 12/13/22		Analyst: KRA
Mercury	U		0.016	0.024	mg/Kg-dry	1	12/14/2022 15:57
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 12/16/22		Analyst: STP
Aluminum	4,800		220	270	mg/Kg-dry	100	12/19/2022 14:56
Antimony	U		0.091	0.34	mg/Kg-dry	1	12/16/2022 19:41
Arsenic	2.3		0.041	0.34	mg/Kg-dry	1	12/16/2022 19:41
Barium	61		0.31	0.34	mg/Kg-dry	1	12/16/2022 19:41
Beryllium	0.35		0.023	0.14	mg/Kg-dry	1	12/16/2022 19:41
Cadmium	U		0.020	0.14	mg/Kg-dry	1	12/16/2022 19:41
Calcium	44,000		1,600	3,400	mg/Kg-dry	100	12/19/2022 14:56
Chromium	6.8		0.15	0.34	mg/Kg-dry	1	12/16/2022 19:41
Cobalt	2.7		0.056	0.34	mg/Kg-dry	1	12/16/2022 19:41
Copper	4.1		0.34	0.34	mg/Kg-dry	1	12/16/2022 19:41
Iron	6,500		11	14	mg/Kg-dry	1	12/16/2022 19:41
Lead	4.9		0.16	0.34	mg/Kg-dry	1	12/16/2022 19:41
Magnesium	3,500		9.5	14	mg/Kg-dry	1	12/16/2022 19:41
Manganese	160		28	34	mg/Kg-dry	100	12/19/2022 14:56
Nickel	6.8		0.18	0.34	mg/Kg-dry	1	12/16/2022 19:41
Potassium	820		5.7	14	mg/Kg-dry	1	12/16/2022 19:41
Selenium	U		0.31	0.34	mg/Kg-dry	1	12/16/2022 19:41
Silver	U		0.045	0.34	mg/Kg-dry	1	12/16/2022 19:41
Sodium	440		18	20	mg/Kg-dry	1	12/16/2022 19:41
Thallium	0.061	J	0.053	0.34	mg/Kg-dry	1	12/16/2022 19:41
Vanadium	12		0.087	0.34	mg/Kg-dry	1	12/16/2022 19:41
Zinc	13		0.66	0.68	mg/Kg-dry	1	12/16/2022 19:41
SEMI-VOLATILE ORGANIC COMPOUNDS			Method: SW846 8270D		Prep: SW3546 / 12/19/22		Analyst: EEW
1,1'-Biphenyl	U		61	87	µg/Kg-dry	1	12/21/2022 19:17
1,2,4,5-Tetrachlorobenzene	U		79	440	µg/Kg-dry	1	12/21/2022 19:17
1,4-Dioxane	U		210	440	µg/Kg-dry	1	12/21/2022 19:17
1-Methylnaphthalene	U		13	18	µg/Kg-dry	1	12/21/2022 19:17

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-06 (23-25)
Collection Date: 12/5/2022 03:50 PM

Work Order: 22120868
Lab ID: 22120868-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,2'-Oxybis(1-chloropropane)	U		60	87	µg/Kg-dry	1	12/21/2022 19:17
2,3,4,6-Tetrachlorophenol	U		64	180	µg/Kg-dry	1	12/21/2022 19:17
2,4,5-Trichlorophenol	U		52	87	µg/Kg-dry	1	12/21/2022 19:17
2,4,6-Trichlorophenol	U		23	87	µg/Kg-dry	1	12/21/2022 19:17
2,4-Dichlorophenol	U		47	87	µg/Kg-dry	1	12/21/2022 19:17
2,4-Dimethylphenol	U		45	87	µg/Kg-dry	1	12/21/2022 19:17
2,4-Dinitrophenol	U		160	1,800	µg/Kg-dry	1	12/21/2022 19:17
2,4-Dinitrotoluene	U		57	87	µg/Kg-dry	1	12/21/2022 19:17
2,6-Dinitrotoluene	U		58	87	µg/Kg-dry	1	12/21/2022 19:17
2-Chloronaphthalene	U		12	18	µg/Kg-dry	1	12/21/2022 19:17
2-Chlorophenol	U		59	87	µg/Kg-dry	1	12/21/2022 19:17
2-Methylnaphthalene	U		9.0	18	µg/Kg-dry	1	12/21/2022 19:17
2-Methylphenol	U		54	87	µg/Kg-dry	1	12/21/2022 19:17
2-Nitroaniline	U		49	87	µg/Kg-dry	1	12/21/2022 19:17
2-Nitrophenol	U		56	87	µg/Kg-dry	1	12/21/2022 19:17
3&4-Methylphenol	U		48	87	µg/Kg-dry	1	12/21/2022 19:17
3,3'-Dichlorobenzidine	U		41	440	µg/Kg-dry	1	12/21/2022 19:17
3-Nitroaniline	U		51	87	µg/Kg-dry	1	12/21/2022 19:17
4,6-Dinitro-2-methylphenol	U		74	87	µg/Kg-dry	1	12/21/2022 19:17
4-Bromophenyl phenyl ether	U		48	87	µg/Kg-dry	1	12/21/2022 19:17
4-Chloro-3-methylphenol	U		65	87	µg/Kg-dry	1	12/21/2022 19:17
4-Chloroaniline	U		45	180	µg/Kg-dry	1	12/21/2022 19:17
4-Chlorophenyl phenyl ether	U		57	87	µg/Kg-dry	1	12/21/2022 19:17
4-Nitroaniline	U		140	440	µg/Kg-dry	1	12/21/2022 19:17
4-Nitrophenol	U		43	440	µg/Kg-dry	1	12/21/2022 19:17
Acenaphthene	U		13	18	µg/Kg-dry	1	12/21/2022 19:17
Acenaphthylene	U		11	18	µg/Kg-dry	1	12/21/2022 19:17
Acetophenone	U		56	87	µg/Kg-dry	1	12/21/2022 19:17
Anthracene	U		12	18	µg/Kg-dry	1	12/21/2022 19:17
Atrazine	U		52	87	µg/Kg-dry	1	12/21/2022 19:17
Benzaldehyde	U		140	180	µg/Kg-dry	1	12/21/2022 19:17
Benzo(a)anthracene	21		15	18	µg/Kg-dry	1	12/21/2022 19:17
Benzo(a)pyrene	30		11	18	µg/Kg-dry	1	12/21/2022 19:17
Benzo(b)fluoranthene	28		13	18	µg/Kg-dry	1	12/21/2022 19:17
Benzo(g,h,i)perylene	26		13	18	µg/Kg-dry	1	12/21/2022 19:17
Benzo(k)fluoranthene	19		13	18	µg/Kg-dry	1	12/21/2022 19:17
Bis(2-chloroethoxy)methane	U		56	87	µg/Kg-dry	1	12/21/2022 19:17
Bis(2-chloroethyl)ether	U		62	87	µg/Kg-dry	1	12/21/2022 19:17
Bis(2-ethylhexyl)phthalate	200		73	87	µg/Kg-dry	1	12/21/2022 19:17
Butyl benzyl phthalate	U		110	180	µg/Kg-dry	1	12/21/2022 19:17

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-06 (23-25)
Collection Date: 12/5/2022 03:50 PM

Work Order: 22120868
Lab ID: 22120868-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		140	180	µg/Kg-dry	1	12/21/2022 19:17
Carbazole	U		64	87	µg/Kg-dry	1	12/21/2022 19:17
Chrysene	U		14	18	µg/Kg-dry	1	12/21/2022 19:17
Dibenzo(a,h)anthracene	U		9.5	18	µg/Kg-dry	1	12/21/2022 19:17
Dibenzofuran	U		54	87	µg/Kg-dry	1	12/21/2022 19:17
Diethyl phthalate	U		69	87	µg/Kg-dry	1	12/21/2022 19:17
Dimethyl phthalate	U		67	87	µg/Kg-dry	1	12/21/2022 19:17
Di-n-butyl phthalate	U		54	87	µg/Kg-dry	1	12/21/2022 19:17
Di-n-octyl phthalate	U		76	87	µg/Kg-dry	1	12/21/2022 19:17
Fluoranthene	40		8.4	18	µg/Kg-dry	1	12/21/2022 19:17
Fluorene	U		13	18	µg/Kg-dry	1	12/21/2022 19:17
Hexachlorobenzene	U		54	87	µg/Kg-dry	1	12/21/2022 19:17
Hexachlorobutadiene	U		68	87	µg/Kg-dry	1	12/21/2022 19:17
Hexachlorocyclopentadiene	U		83	87	µg/Kg-dry	1	12/21/2022 19:17
Hexachloroethane	U		36	87	µg/Kg-dry	1	12/21/2022 19:17
Indeno(1,2,3-cd)pyrene	26		12	18	µg/Kg-dry	1	12/21/2022 19:17
Isophorone	U		63	440	µg/Kg-dry	1	12/21/2022 19:17
Naphthalene	U		11	18	µg/Kg-dry	1	12/21/2022 19:17
Nitrobenzene	U		66	440	µg/Kg-dry	1	12/21/2022 19:17
N-Nitrosodi-n-propylamine	U		86	87	µg/Kg-dry	1	12/21/2022 19:17
N-Nitrosodiphenylamine	U		50	87	µg/Kg-dry	1	12/21/2022 19:17
Pentachlorophenol	U		70	87	µg/Kg-dry	1	12/21/2022 19:17
Phenanthrene	40		8.2	18	µg/Kg-dry	1	12/21/2022 19:17
Phenol	U		44	87	µg/Kg-dry	1	12/21/2022 19:17
Pyrene	32		17	18	µg/Kg-dry	1	12/21/2022 19:17
Surr: 2,4,6-Tribromophenol	78.5			48-94	%REC	1	12/21/2022 19:17
Surr: 2-Fluorobiphenyl	76.2			50-103	%REC	1	12/21/2022 19:17
Surr: 2-Fluorophenol	72.3			43-105	%REC	1	12/21/2022 19:17
Surr: 4-Terphenyl-d14	78.4			55-111	%REC	1	12/21/2022 19:17
Surr: Nitrobenzene-d5	74.7			47-100	%REC	1	12/21/2022 19:17
Surr: Phenol-d6	78.9			49-110	%REC	1	12/21/2022 19:17
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035A / 12/9/22		Analyst: DMS
1,1,1-Trichloroethane	U		18	39	µg/Kg-dry	1	12/15/2022 18:44
1,1,2,2-Tetrachloroethane	U		17	39	µg/Kg-dry	1	12/15/2022 18:44
1,1,2-Trichloroethane	U		16	39	µg/Kg-dry	1	12/15/2022 18:44
1,1,2-Trichlorotrifluoroethane	U		25	39	µg/Kg-dry	1	12/15/2022 18:44
1,1-Dichloroethane	U		14	39	µg/Kg-dry	1	12/15/2022 18:44
1,1-Dichloroethene	U		13	39	µg/Kg-dry	1	12/15/2022 18:44
1,2,3-Trichlorobenzene	U		47	130	µg/Kg-dry	1	12/15/2022 18:44

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: SB-06 (23-25)

Collection Date: 12/5/2022 03:50 PM

Work Order: 22120868

Lab ID: 22120868-08

Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,3-Trichloropropane	U		16	39	µg/Kg-dry	1	12/15/2022 18:44
1,2,4-Trichlorobenzene	U		44	130	µg/Kg-dry	1	12/15/2022 18:44
1,2,4-Trimethylbenzene	U		28	39	µg/Kg-dry	1	12/15/2022 18:44
1,2-Dibromo-3-chloropropane	U		36	130	µg/Kg-dry	1	12/15/2022 18:44
1,2-Dibromoethane	U		11	39	µg/Kg-dry	1	12/15/2022 18:44
1,2-Dichlorobenzene	U		15	39	µg/Kg-dry	1	12/15/2022 18:44
1,2-Dichloroethane	U		58	130	µg/Kg-dry	1	12/15/2022 18:44
1,2-Dichloropropane	U		29	39	µg/Kg-dry	1	12/15/2022 18:44
1,3,5-Trimethylbenzene	U		45	130	µg/Kg-dry	1	12/15/2022 18:44
1,3-Dichlorobenzene	U		13	39	µg/Kg-dry	1	12/15/2022 18:44
1,4-Dichlorobenzene	U		9.3	39	µg/Kg-dry	1	12/15/2022 18:44
2-Butanone	U		32	260	µg/Kg-dry	1	12/15/2022 18:44
2-Hexanone	U		19	39	µg/Kg-dry	1	12/15/2022 18:44
4-Methyl-2-pentanone	U		36	39	µg/Kg-dry	1	12/15/2022 18:44
Acetone	U		120	130	µg/Kg-dry	1	12/15/2022 18:44
Benzene	U		19	39	µg/Kg-dry	1	12/15/2022 18:44
Bromochloromethane	U		20	39	µg/Kg-dry	1	12/15/2022 18:44
Bromodichloromethane	U		22	39	µg/Kg-dry	1	12/15/2022 18:44
Bromoform	U		16	39	µg/Kg-dry	1	12/15/2022 18:44
Bromomethane	U		74	130	µg/Kg-dry	1	12/15/2022 18:44
Carbon disulfide	U		20	39	µg/Kg-dry	1	12/15/2022 18:44
Carbon tetrachloride	U		15	39	µg/Kg-dry	1	12/15/2022 18:44
Chlorobenzene	U		13	39	µg/Kg-dry	1	12/15/2022 18:44
Chloroethane	U		38	130	µg/Kg-dry	1	12/15/2022 18:44
Chloroform	U		14	39	µg/Kg-dry	1	12/15/2022 18:44
Chloromethane	U		110	130	µg/Kg-dry	1	12/15/2022 18:44
cis-1,2-Dichloroethene	U		25	39	µg/Kg-dry	1	12/15/2022 18:44
cis-1,3-Dichloropropene	U		29	39	µg/Kg-dry	1	12/15/2022 18:44
Cyclohexane	U		35	130	µg/Kg-dry	1	12/15/2022 18:44
Dibromochloromethane	U		22	39	µg/Kg-dry	1	12/15/2022 18:44
Dichlorodifluoromethane	U		47	130	µg/Kg-dry	1	12/15/2022 18:44
Ethylbenzene	U		8.2	39	µg/Kg-dry	1	12/15/2022 18:44
Isopropylbenzene	U		12	39	µg/Kg-dry	1	12/15/2022 18:44
m,p-Xylene	U		52	78	µg/Kg-dry	1	12/15/2022 18:44
Methyl acetate	U		46	320	µg/Kg-dry	1	12/15/2022 18:44
Methyl tert-butyl ether	U		11	39	µg/Kg-dry	1	12/15/2022 18:44
Methylcyclohexane	U		15	39	µg/Kg-dry	1	12/15/2022 18:44
Methylene chloride	U		100	320	µg/Kg-dry	1	12/15/2022 18:44
o-Xylene	U		15	39	µg/Kg-dry	1	12/15/2022 18:44
Styrene	U		15	39	µg/Kg-dry	1	12/15/2022 18:44

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-06 (23-25)
Collection Date: 12/5/2022 03:50 PM

Work Order: 22120868
Lab ID: 22120868-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Tetrachloroethene	U		23	39	µg/Kg-dry	1	12/15/2022 18:44
Toluene	U		11	39	µg/Kg-dry	1	12/15/2022 18:44
trans-1,2-Dichloroethene	U		14	39	µg/Kg-dry	1	12/15/2022 18:44
trans-1,3-Dichloropropene	U		22	39	µg/Kg-dry	1	12/15/2022 18:44
Trichloroethene	U		17	39	µg/Kg-dry	1	12/15/2022 18:44
Trichlorofluoromethane	U		20	39	µg/Kg-dry	1	12/15/2022 18:44
Vinyl chloride	U		26	39	µg/Kg-dry	1	12/15/2022 18:44
Xylenes, Total	U		52	120	µg/Kg-dry	1	12/15/2022 18:44
Surr: 1,2-Dichloroethane-d4	104			80-120	%REC	1	12/15/2022 18:44
Surr: 4-Bromofluorobenzene	101			80-120	%REC	1	12/15/2022 18:44
Surr: Dibromofluoromethane	93.9			80-120	%REC	1	12/15/2022 18:44
Surr: Toluene-d8	100			80-120	%REC	1	12/15/2022 18:44
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	19		0.10	0.10	% of sample	1	12/16/2022 11:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: Trip Blank
Collection Date: 12/5/2022

Work Order: 22120868
Lab ID: 22120868-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035A / 12/9/22	Analyst: DMS	
1,1,1-Trichloroethane	U		14	30	µg/Kg-dry	1	12/15/2022 16:00
1,1,2,2-Tetrachloroethane	U		13	30	µg/Kg-dry	1	12/15/2022 16:00
1,1,2-Trichloroethane	U		13	30	µg/Kg-dry	1	12/15/2022 16:00
1,1,2-Trichlorotrifluoroethane	U		19	30	µg/Kg-dry	1	12/15/2022 16:00
1,1-Dichloroethane	U		11	30	µg/Kg-dry	1	12/15/2022 16:00
1,1-Dichloroethene	U		9.7	30	µg/Kg-dry	1	12/15/2022 16:00
1,2,3-Trichlorobenzene	U		36	100	µg/Kg-dry	1	12/15/2022 16:00
1,2,3-Trichloropropane	U		13	30	µg/Kg-dry	1	12/15/2022 16:00
1,2,4-Trichlorobenzene	U		34	100	µg/Kg-dry	1	12/15/2022 16:00
1,2,4-Trimethylbenzene	U		22	30	µg/Kg-dry	1	12/15/2022 16:00
1,2-Dibromo-3-chloropropane	U		28	100	µg/Kg-dry	1	12/15/2022 16:00
1,2-Dibromoethane	U		8.4	30	µg/Kg-dry	1	12/15/2022 16:00
1,2-Dichlorobenzene	U		11	30	µg/Kg-dry	1	12/15/2022 16:00
1,2-Dichloroethane	U		45	100	µg/Kg-dry	1	12/15/2022 16:00
1,2-Dichloropropane	U		22	30	µg/Kg-dry	1	12/15/2022 16:00
1,3,5-Trimethylbenzene	U		35	100	µg/Kg-dry	1	12/15/2022 16:00
1,3-Dichlorobenzene	U		10	30	µg/Kg-dry	1	12/15/2022 16:00
1,4-Dichlorobenzene	U		7.2	30	µg/Kg-dry	1	12/15/2022 16:00
2-Butanone	U		25	200	µg/Kg-dry	1	12/15/2022 16:00
2-Hexanone	U		15	30	µg/Kg-dry	1	12/15/2022 16:00
4-Methyl-2-pentanone	U		28	30	µg/Kg-dry	1	12/15/2022 16:00
Acetone	U		89	100	µg/Kg-dry	1	12/15/2022 16:00
Benzene	U		15	30	µg/Kg-dry	1	12/15/2022 16:00
Bromochloromethane	U		15	30	µg/Kg-dry	1	12/15/2022 16:00
Bromodichloromethane	U		17	30	µg/Kg-dry	1	12/15/2022 16:00
Bromoform	U		13	30	µg/Kg-dry	1	12/15/2022 16:00
Bromomethane	U		57	100	µg/Kg-dry	1	12/15/2022 16:00
Carbon disulfide	U		16	30	µg/Kg-dry	1	12/15/2022 16:00
Carbon tetrachloride	U		12	30	µg/Kg-dry	1	12/15/2022 16:00
Chlorobenzene	U		10	30	µg/Kg-dry	1	12/15/2022 16:00
Chloroethane	U		30	100	µg/Kg-dry	1	12/15/2022 16:00
Chloroform	U		11	30	µg/Kg-dry	1	12/15/2022 16:00
Chloromethane	U		82	100	µg/Kg-dry	1	12/15/2022 16:00
cis-1,2-Dichloroethene	U		19	30	µg/Kg-dry	1	12/15/2022 16:00
cis-1,3-Dichloropropene	U		23	30	µg/Kg-dry	1	12/15/2022 16:00
Cyclohexane	U		27	100	µg/Kg-dry	1	12/15/2022 16:00
Dibromochloromethane	U		17	30	µg/Kg-dry	1	12/15/2022 16:00
Dichlorodifluoromethane	U		36	100	µg/Kg-dry	1	12/15/2022 16:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: Trip Blank
Collection Date: 12/5/2022

Work Order: 22120868
Lab ID: 22120868-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	U		6.3	30	µg/Kg-dry	1	12/15/2022 16:00
Isopropylbenzene	U		9.2	30	µg/Kg-dry	1	12/15/2022 16:00
m,p-Xylene	U		40	60	µg/Kg-dry	1	12/15/2022 16:00
Methyl acetate	U		36	250	µg/Kg-dry	1	12/15/2022 16:00
Methyl tert-butyl ether	U		8.6	30	µg/Kg-dry	1	12/15/2022 16:00
Methylcyclohexane	U		11	30	µg/Kg-dry	1	12/15/2022 16:00
Methylene chloride	U		80	250	µg/Kg-dry	1	12/15/2022 16:00
o-Xylene	U		12	30	µg/Kg-dry	1	12/15/2022 16:00
Styrene	U		12	30	µg/Kg-dry	1	12/15/2022 16:00
Tetrachloroethene	U		18	30	µg/Kg-dry	1	12/15/2022 16:00
Toluene	U		8.2	30	µg/Kg-dry	1	12/15/2022 16:00
trans-1,2-Dichloroethene	U		11	30	µg/Kg-dry	1	12/15/2022 16:00
trans-1,3-Dichloropropene	U		17	30	µg/Kg-dry	1	12/15/2022 16:00
Trichloroethene	U		13	30	µg/Kg-dry	1	12/15/2022 16:00
Trichlorofluoromethane	U		15	30	µg/Kg-dry	1	12/15/2022 16:00
Vinyl chloride	U		20	30	µg/Kg-dry	1	12/15/2022 16:00
Xylenes, Total	U		40	90	µg/Kg-dry	1	12/15/2022 16:00
Surr: 1,2-Dichloroethane-d4	104			80-120	%REC	1	12/15/2022 16:00
Surr: 4-Bromofluorobenzene	102			80-120	%REC	1	12/15/2022 16:00
Surr: Dibromofluoromethane	87.4			80-120	%REC	1	12/15/2022 16:00
Surr: Toluene-d8	103			80-120	%REC	1	12/15/2022 16:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: Duplicate
Collection Date: 12/5/2022

Work Order: 22120868
Lab ID: 22120868-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW3550 / 12/19/22		Analyst: MTB
DRO (C10-C28)	3.8	J	3.5	12	mg/Kg-dry	1	12/20/2022 02:48
ORO (C28-C40)	11	J	5.9	12	mg/Kg-dry	1	12/20/2022 02:48
Surr: 4-Terphenyl-d14	65.1			25-110	%REC	1	12/20/2022 02:48
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035A / 12/11/22		Analyst: MTB
GRO (C6-C10)	U		2,100	5,000	µg/Kg-dry	1	12/12/2022 14:54
Surr: Toluene-d8	85.3			78-115	%REC	1	12/12/2022 14:54
MERCURY BY CVA			Method: SW7471B		Prep: SW7471 / 12/13/22		Analyst: KRA
Mercury	U		0.015	0.022	mg/Kg-dry	1	12/14/2022 15:59
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 12/16/22		Analyst: STP
Aluminum	1,600		220	280	mg/Kg-dry	100	12/19/2022 14:57
Antimony	U		0.093	0.35	mg/Kg-dry	1	12/16/2022 19:43
Arsenic	1.4		0.042	0.35	mg/Kg-dry	1	12/16/2022 19:43
Barium	11		0.32	0.35	mg/Kg-dry	1	12/16/2022 19:43
Beryllium	0.14		0.024	0.14	mg/Kg-dry	1	12/16/2022 19:43
Cadmium	U		0.021	0.14	mg/Kg-dry	1	12/16/2022 19:43
Calcium	23,000		1,700	3,500	mg/Kg-dry	100	12/19/2022 14:57
Chromium	3.0		0.15	0.35	mg/Kg-dry	1	12/16/2022 19:43
Cobalt	1.2		0.057	0.35	mg/Kg-dry	1	12/16/2022 19:43
Copper	1.7		0.35	0.35	mg/Kg-dry	1	12/16/2022 19:43
Iron	3,400		11	14	mg/Kg-dry	1	12/16/2022 19:43
Lead	2.2		0.17	0.35	mg/Kg-dry	1	12/16/2022 19:43
Magnesium	1,200		9.7	14	mg/Kg-dry	1	12/16/2022 19:43
Manganese	98		0.29	0.35	mg/Kg-dry	1	12/16/2022 19:43
Nickel	3.2		0.18	0.35	mg/Kg-dry	1	12/16/2022 19:43
Potassium	280		5.8	14	mg/Kg-dry	1	12/16/2022 19:43
Selenium	U		0.32	0.35	mg/Kg-dry	1	12/16/2022 19:43
Silver	U		0.046	0.35	mg/Kg-dry	1	12/16/2022 19:43
Sodium	110		19	21	mg/Kg-dry	1	12/16/2022 19:43
Thallium	U		0.054	0.35	mg/Kg-dry	1	12/16/2022 19:43
Vanadium	6.4		0.089	0.35	mg/Kg-dry	1	12/16/2022 19:43
Zinc	5.5		0.68	0.70	mg/Kg-dry	1	12/16/2022 19:43
SEMI-VOLATILE ORGANIC COMPOUNDS			Method: SW846 8270D		Prep: SW3546 / 12/19/22		Analyst: EEW
1,1'-Biphenyl	U		80	110	µg/Kg-dry	1	12/21/2022 19:41
1,2,4,5-Tetrachlorobenzene	U		100	570	µg/Kg-dry	1	12/21/2022 19:41
1,4-Dioxane	U		270	570	µg/Kg-dry	1	12/21/2022 19:41
1-Methylnaphthalene	U		17	23	µg/Kg-dry	1	12/21/2022 19:41

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: Duplicate
Collection Date: 12/5/2022

Work Order: 22120868
Lab ID: 22120868-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,2'-Oxybis(1-chloropropane)	U		78	110	µg/Kg-dry	1	12/21/2022 19:41
2,3,4,6-Tetrachlorophenol	U		84	230	µg/Kg-dry	1	12/21/2022 19:41
2,4,5-Trichlorophenol	U		68	110	µg/Kg-dry	1	12/21/2022 19:41
2,4,6-Trichlorophenol	U		31	110	µg/Kg-dry	1	12/21/2022 19:41
2,4-Dichlorophenol	U		62	110	µg/Kg-dry	1	12/21/2022 19:41
2,4-Dimethylphenol	U		59	110	µg/Kg-dry	1	12/21/2022 19:41
2,4-Dinitrophenol	U		200	2,300	µg/Kg-dry	1	12/21/2022 19:41
2,4-Dinitrotoluene	U		74	110	µg/Kg-dry	1	12/21/2022 19:41
2,6-Dinitrotoluene	U		75	110	µg/Kg-dry	1	12/21/2022 19:41
2-Chloronaphthalene	U		16	23	µg/Kg-dry	1	12/21/2022 19:41
2-Chlorophenol	U		77	110	µg/Kg-dry	1	12/21/2022 19:41
2-Methylnaphthalene	U		12	23	µg/Kg-dry	1	12/21/2022 19:41
2-Methylphenol	U		70	110	µg/Kg-dry	1	12/21/2022 19:41
2-Nitroaniline	U		64	110	µg/Kg-dry	1	12/21/2022 19:41
2-Nitrophenol	U		73	110	µg/Kg-dry	1	12/21/2022 19:41
3&4-Methylphenol	U		62	110	µg/Kg-dry	1	12/21/2022 19:41
3,3'-Dichlorobenzidine	U		54	570	µg/Kg-dry	1	12/21/2022 19:41
3-Nitroaniline	U		67	110	µg/Kg-dry	1	12/21/2022 19:41
4,6-Dinitro-2-methylphenol	U		96	110	µg/Kg-dry	1	12/21/2022 19:41
4-Bromophenyl phenyl ether	U		63	110	µg/Kg-dry	1	12/21/2022 19:41
4-Chloro-3-methylphenol	U		84	110	µg/Kg-dry	1	12/21/2022 19:41
4-Chloroaniline	U		58	230	µg/Kg-dry	1	12/21/2022 19:41
4-Chlorophenyl phenyl ether	U		75	110	µg/Kg-dry	1	12/21/2022 19:41
4-Nitroaniline	U		180	570	µg/Kg-dry	1	12/21/2022 19:41
4-Nitrophenol	U		55	570	µg/Kg-dry	1	12/21/2022 19:41
Acenaphthene	U		17	23	µg/Kg-dry	1	12/21/2022 19:41
Acenaphthylene	U		15	23	µg/Kg-dry	1	12/21/2022 19:41
Acetophenone	U		73	110	µg/Kg-dry	1	12/21/2022 19:41
Anthracene	U		16	23	µg/Kg-dry	1	12/21/2022 19:41
Atrazine	U		67	110	µg/Kg-dry	1	12/21/2022 19:41
Benzaldehyde	U		180	230	µg/Kg-dry	1	12/21/2022 19:41
Benzo(a)anthracene	U		20	23	µg/Kg-dry	1	12/21/2022 19:41
Benzo(a)pyrene	U		14	23	µg/Kg-dry	1	12/21/2022 19:41
Benzo(b)fluoranthene	U		17	23	µg/Kg-dry	1	12/21/2022 19:41
Benzo(g,h,i)perylene	U		18	23	µg/Kg-dry	1	12/21/2022 19:41
Benzo(k)fluoranthene	U		17	23	µg/Kg-dry	1	12/21/2022 19:41
Bis(2-chloroethoxy)methane	U		73	110	µg/Kg-dry	1	12/21/2022 19:41
Bis(2-chloroethyl)ether	U		81	110	µg/Kg-dry	1	12/21/2022 19:41
Bis(2-ethylhexyl)phthalate	220		95	110	µg/Kg-dry	1	12/21/2022 19:41
Butyl benzyl phthalate	U		140	230	µg/Kg-dry	1	12/21/2022 19:41

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: Duplicate
Collection Date: 12/5/2022

Work Order: 22120868
Lab ID: 22120868-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		180	230	µg/Kg-dry	1	12/21/2022 19:41
Carbazole	U		83	110	µg/Kg-dry	1	12/21/2022 19:41
Chrysene	U		19	23	µg/Kg-dry	1	12/21/2022 19:41
Dibenzo(a,h)anthracene	U		12	23	µg/Kg-dry	1	12/21/2022 19:41
Dibenzofuran	U		71	110	µg/Kg-dry	1	12/21/2022 19:41
Diethyl phthalate	U		90	110	µg/Kg-dry	1	12/21/2022 19:41
Dimethyl phthalate	U		87	110	µg/Kg-dry	1	12/21/2022 19:41
Di-n-butyl phthalate	U		70	110	µg/Kg-dry	1	12/21/2022 19:41
Di-n-octyl phthalate	U		99	110	µg/Kg-dry	1	12/21/2022 19:41
Fluoranthene	39		11	23	µg/Kg-dry	1	12/21/2022 19:41
Fluorene	U		17	23	µg/Kg-dry	1	12/21/2022 19:41
Hexachlorobenzene	U		71	110	µg/Kg-dry	1	12/21/2022 19:41
Hexachlorobutadiene	U		89	110	µg/Kg-dry	1	12/21/2022 19:41
Hexachlorocyclopentadiene	U		110	110	µg/Kg-dry	1	12/21/2022 19:41
Hexachloroethane	U		47	110	µg/Kg-dry	1	12/21/2022 19:41
Indeno(1,2,3-cd)pyrene	U		16	23	µg/Kg-dry	1	12/21/2022 19:41
Isophorone	U		82	570	µg/Kg-dry	1	12/21/2022 19:41
Naphthalene	U		15	23	µg/Kg-dry	1	12/21/2022 19:41
Nitrobenzene	U		87	570	µg/Kg-dry	1	12/21/2022 19:41
N-Nitrosodi-n-propylamine	U		110	110	µg/Kg-dry	1	12/21/2022 19:41
N-Nitrosodiphenylamine	U		65	110	µg/Kg-dry	1	12/21/2022 19:41
Pentachlorophenol	U		91	110	µg/Kg-dry	1	12/21/2022 19:41
Phenanthrene	37		11	23	µg/Kg-dry	1	12/21/2022 19:41
Phenol	U		58	110	µg/Kg-dry	1	12/21/2022 19:41
Pyrene	28		22	23	µg/Kg-dry	1	12/21/2022 19:41
Surr: 2,4,6-Tribromophenol	78.8			48-94	%REC	1	12/21/2022 19:41
Surr: 2-Fluorobiphenyl	77.6			50-103	%REC	1	12/21/2022 19:41
Surr: 2-Fluorophenol	77.2			43-105	%REC	1	12/21/2022 19:41
Surr: 4-Terphenyl-d14	76.4			55-111	%REC	1	12/21/2022 19:41
Surr: Nitrobenzene-d5	77.1			47-100	%REC	1	12/21/2022 19:41
Surr: Phenol-d6	86.2			49-110	%REC	1	12/21/2022 19:41
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035A / 12/9/22		Analyst: DMS
1,1,1-Trichloroethane	U		14	30	µg/Kg-dry	1	12/15/2022 16:18
1,1,2,2-Tetrachloroethane	U		13	30	µg/Kg-dry	1	12/15/2022 16:18
1,1,2-Trichloroethane	U		13	30	µg/Kg-dry	1	12/15/2022 16:18
1,1,2-Trichlorotrifluoroethane	U		19	30	µg/Kg-dry	1	12/15/2022 16:18
1,1-Dichloroethane	U		11	30	µg/Kg-dry	1	12/15/2022 16:18
1,1-Dichloroethene	U		9.7	30	µg/Kg-dry	1	12/15/2022 16:18
1,2,3-Trichlorobenzene	U		36	100	µg/Kg-dry	1	12/15/2022 16:18

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: Duplicate
Collection Date: 12/5/2022

Work Order: 22120868
Lab ID: 22120868-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,3-Trichloropropane	U		13	30	µg/Kg-dry	1	12/15/2022 16:18
1,2,4-Trichlorobenzene	U		34	100	µg/Kg-dry	1	12/15/2022 16:18
1,2,4-Trimethylbenzene	U		22	30	µg/Kg-dry	1	12/15/2022 16:18
1,2-Dibromo-3-chloropropane	U		28	100	µg/Kg-dry	1	12/15/2022 16:18
1,2-Dibromoethane	U		8.4	30	µg/Kg-dry	1	12/15/2022 16:18
1,2-Dichlorobenzene	U		11	30	µg/Kg-dry	1	12/15/2022 16:18
1,2-Dichloroethane	U		45	100	µg/Kg-dry	1	12/15/2022 16:18
1,2-Dichloropropane	U		22	30	µg/Kg-dry	1	12/15/2022 16:18
1,3,5-Trimethylbenzene	U		35	100	µg/Kg-dry	1	12/15/2022 16:18
1,3-Dichlorobenzene	U		10	30	µg/Kg-dry	1	12/15/2022 16:18
1,4-Dichlorobenzene	U		7.2	30	µg/Kg-dry	1	12/15/2022 16:18
2-Butanone	U		25	200	µg/Kg-dry	1	12/15/2022 16:18
2-Hexanone	U		15	30	µg/Kg-dry	1	12/15/2022 16:18
4-Methyl-2-pentanone	U		28	30	µg/Kg-dry	1	12/15/2022 16:18
Acetone	U		89	100	µg/Kg-dry	1	12/15/2022 16:18
Benzene	U		15	30	µg/Kg-dry	1	12/15/2022 16:18
Bromochloromethane	U		15	30	µg/Kg-dry	1	12/15/2022 16:18
Bromodichloromethane	U		17	30	µg/Kg-dry	1	12/15/2022 16:18
Bromoform	U		13	30	µg/Kg-dry	1	12/15/2022 16:18
Bromomethane	U		57	100	µg/Kg-dry	1	12/15/2022 16:18
Carbon disulfide	U		16	30	µg/Kg-dry	1	12/15/2022 16:18
Carbon tetrachloride	U		12	30	µg/Kg-dry	1	12/15/2022 16:18
Chlorobenzene	U		10	30	µg/Kg-dry	1	12/15/2022 16:18
Chloroethane	U		30	100	µg/Kg-dry	1	12/15/2022 16:18
Chloroform	U		11	30	µg/Kg-dry	1	12/15/2022 16:18
Chloromethane	U		82	100	µg/Kg-dry	1	12/15/2022 16:18
cis-1,2-Dichloroethene	U		19	30	µg/Kg-dry	1	12/15/2022 16:18
cis-1,3-Dichloropropene	U		23	30	µg/Kg-dry	1	12/15/2022 16:18
Cyclohexane	U		27	100	µg/Kg-dry	1	12/15/2022 16:18
Dibromochloromethane	U		17	30	µg/Kg-dry	1	12/15/2022 16:18
Dichlorodifluoromethane	U		36	100	µg/Kg-dry	1	12/15/2022 16:18
Ethylbenzene	U		6.3	30	µg/Kg-dry	1	12/15/2022 16:18
Isopropylbenzene	U		9.2	30	µg/Kg-dry	1	12/15/2022 16:18
m,p-Xylene	U		40	60	µg/Kg-dry	1	12/15/2022 16:18
Methyl acetate	U		36	250	µg/Kg-dry	1	12/15/2022 16:18
Methyl tert-butyl ether	U		8.7	30	µg/Kg-dry	1	12/15/2022 16:18
Methylcyclohexane	U		11	30	µg/Kg-dry	1	12/15/2022 16:18
Methylene chloride	U		80	250	µg/Kg-dry	1	12/15/2022 16:18
o-Xylene	U		12	30	µg/Kg-dry	1	12/15/2022 16:18
Styrene	U		12	30	µg/Kg-dry	1	12/15/2022 16:18

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: Duplicate
Collection Date: 12/5/2022

Work Order: 22120868
Lab ID: 22120868-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Tetrachloroethene	U		18	30	µg/Kg-dry	1	12/15/2022 16:18
Toluene	U		8.2	30	µg/Kg-dry	1	12/15/2022 16:18
trans-1,2-Dichloroethene	U		11	30	µg/Kg-dry	1	12/15/2022 16:18
trans-1,3-Dichloropropene	U		17	30	µg/Kg-dry	1	12/15/2022 16:18
Trichloroethene	U		13	30	µg/Kg-dry	1	12/15/2022 16:18
Trichlorofluoromethane	U		15	30	µg/Kg-dry	1	12/15/2022 16:18
Vinyl chloride	U		20	30	µg/Kg-dry	1	12/15/2022 16:18
Xylenes, Total	U		40	90	µg/Kg-dry	1	12/15/2022 16:18
Surr: 1,2-Dichloroethane-d4	107			80-120	%REC	1	12/15/2022 16:18
Surr: 4-Bromofluorobenzene	102			80-120	%REC	1	12/15/2022 16:18
Surr: Dibromofluoromethane	94.7			80-120	%REC	1	12/15/2022 16:18
Surr: Toluene-d8	102			80-120	%REC	1	12/15/2022 16:18
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	19		0.10	0.10	% of sample	1	12/15/2022 13:10

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-05 (0-2)
Collection Date: 12/6/2022 09:30 AM

Work Order: 22120868
Lab ID: 22120868-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW3550 / 12/19/22		Analyst: MTB
DRO (C10-C28)	3.9	J	3.5	12	mg/Kg-dry	1	12/20/2022 03:25
ORO (C28-C40)	12	J	6.0	12	mg/Kg-dry	1	12/20/2022 03:25
Surr: 4-Terphenyl-d14	68.2			25-110	%REC	1	12/20/2022 03:25
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035A / 12/11/22		Analyst: MTB
GRO (C6-C10)	4,600	J	3,000	7,200	µg/Kg-dry	1	12/13/2022 21:11
Surr: Toluene-d8	96.6			78-115	%REC	1	12/13/2022 21:11
MERCURY BY CVA			Method: SW7471B		Prep: SW7471 / 12/13/22		Analyst: KRA
Mercury	0.037		0.013	0.019	mg/Kg-dry	1	12/14/2022 16:01
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 12/16/22		Analyst: STP
Aluminum	6,700		240	300	mg/Kg-dry	100	12/19/2022 14:59
Antimony	0.22	J	0.10	0.37	mg/Kg-dry	1	12/16/2022 19:45
Arsenic	2.1		0.045	0.37	mg/Kg-dry	1	12/16/2022 19:45
Barium	110		0.34	0.37	mg/Kg-dry	1	12/16/2022 19:45
Beryllium	0.71		0.025	0.15	mg/Kg-dry	1	12/16/2022 19:45
Cadmium	0.11	J	0.022	0.15	mg/Kg-dry	1	12/16/2022 19:45
Calcium	13,000		18	37	mg/Kg-dry	1	12/16/2022 19:45
Chromium	8.6		0.16	0.37	mg/Kg-dry	1	12/16/2022 19:45
Cobalt	5.4		0.061	0.37	mg/Kg-dry	1	12/16/2022 19:45
Copper	12		0.37	0.37	mg/Kg-dry	1	12/16/2022 19:45
Iron	6,700		12	15	mg/Kg-dry	1	12/16/2022 19:45
Lead	50		0.18	0.37	mg/Kg-dry	1	12/16/2022 19:45
Magnesium	1,200		10	15	mg/Kg-dry	1	12/16/2022 19:45
Manganese	230		31	37	mg/Kg-dry	100	12/19/2022 14:59
Nickel	5.6		0.19	0.37	mg/Kg-dry	1	12/16/2022 19:45
Potassium	870		6.3	15	mg/Kg-dry	1	12/16/2022 19:45
Selenium	U		0.34	0.37	mg/Kg-dry	1	12/16/2022 19:45
Silver	U		0.049	0.37	mg/Kg-dry	1	12/16/2022 19:45
Sodium	140		20	22	mg/Kg-dry	1	12/16/2022 19:45
Thallium	0.061	J	0.058	0.37	mg/Kg-dry	1	12/16/2022 19:45
Vanadium	19		0.096	0.37	mg/Kg-dry	1	12/16/2022 19:45
Zinc	74		0.73	0.75	mg/Kg-dry	1	12/16/2022 19:45
SEMI-VOLATILE ORGANIC COMPOUNDS			Method: SW846 8270D		Prep: SW3546 / 12/19/22		Analyst: EEW
1,1'-Biphenyl	U		130	190	µg/Kg-dry	1	12/21/2022 20:04
1,2,4,5-Tetrachlorobenzene	U		170	950	µg/Kg-dry	1	12/21/2022 20:04
1,4-Dioxane	U		440	950	µg/Kg-dry	1	12/21/2022 20:04
1-Methylnaphthalene	U		27	38	µg/Kg-dry	1	12/21/2022 20:04

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-05 (0-2)
Collection Date: 12/6/2022 09:30 AM

Work Order: 22120868
Lab ID: 22120868-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,2'-Oxybis(1-chloropropane)	U		130	190	µg/Kg-dry	1	12/21/2022 20:04
2,3,4,6-Tetrachlorophenol	U		140	380	µg/Kg-dry	1	12/21/2022 20:04
2,4,5-Trichlorophenol	U		110	190	µg/Kg-dry	1	12/21/2022 20:04
2,4,6-Trichlorophenol	U		50	190	µg/Kg-dry	1	12/21/2022 20:04
2,4-Dichlorophenol	U		100	190	µg/Kg-dry	1	12/21/2022 20:04
2,4-Dimethylphenol	U		97	190	µg/Kg-dry	1	12/21/2022 20:04
2,4-Dinitrophenol	U		340	3,800	µg/Kg-dry	1	12/21/2022 20:04
2,4-Dinitrotoluene	U		120	190	µg/Kg-dry	1	12/21/2022 20:04
2,6-Dinitrotoluene	U		120	190	µg/Kg-dry	1	12/21/2022 20:04
2-Chloronaphthalene	U		26	38	µg/Kg-dry	1	12/21/2022 20:04
2-Chlorophenol	U		130	190	µg/Kg-dry	1	12/21/2022 20:04
2-Methylnaphthalene	U		19	38	µg/Kg-dry	1	12/21/2022 20:04
2-Methylphenol	U		120	190	µg/Kg-dry	1	12/21/2022 20:04
2-Nitroaniline	U		100	190	µg/Kg-dry	1	12/21/2022 20:04
2-Nitrophenol	U		120	190	µg/Kg-dry	1	12/21/2022 20:04
3&4-Methylphenol	U		100	190	µg/Kg-dry	1	12/21/2022 20:04
3,3'-Dichlorobenzidine	U		88	950	µg/Kg-dry	1	12/21/2022 20:04
3-Nitroaniline	U		110	190	µg/Kg-dry	1	12/21/2022 20:04
4,6-Dinitro-2-methylphenol	U		160	190	µg/Kg-dry	1	12/21/2022 20:04
4-Bromophenyl phenyl ether	U		100	190	µg/Kg-dry	1	12/21/2022 20:04
4-Chloro-3-methylphenol	U		140	190	µg/Kg-dry	1	12/21/2022 20:04
4-Chloroaniline	U		96	380	µg/Kg-dry	1	12/21/2022 20:04
4-Chlorophenyl phenyl ether	U		120	190	µg/Kg-dry	1	12/21/2022 20:04
4-Nitroaniline	U		290	950	µg/Kg-dry	1	12/21/2022 20:04
4-Nitrophenol	U		91	950	µg/Kg-dry	1	12/21/2022 20:04
Acenaphthene	U		27	38	µg/Kg-dry	1	12/21/2022 20:04
Acenaphthylene	U		24	38	µg/Kg-dry	1	12/21/2022 20:04
Acetophenone	U		120	190	µg/Kg-dry	1	12/21/2022 20:04
Anthracene	U		27	38	µg/Kg-dry	1	12/21/2022 20:04
Atrazine	U		110	190	µg/Kg-dry	1	12/21/2022 20:04
Benzaldehyde	U		290	380	µg/Kg-dry	1	12/21/2022 20:04
Benzo(a)anthracene	34	J	33	38	µg/Kg-dry	1	12/21/2022 20:04
Benzo(a)pyrene	53		23	38	µg/Kg-dry	1	12/21/2022 20:04
Benzo(b)fluoranthene	45		28	38	µg/Kg-dry	1	12/21/2022 20:04
Benzo(g,h,i)perylene	42		29	38	µg/Kg-dry	1	12/21/2022 20:04
Benzo(k)fluoranthene	38	J	29	38	µg/Kg-dry	1	12/21/2022 20:04
Bis(2-chloroethoxy)methane	U		120	190	µg/Kg-dry	1	12/21/2022 20:04
Bis(2-chloroethyl)ether	U		130	190	µg/Kg-dry	1	12/21/2022 20:04
Bis(2-ethylhexyl)phthalate	U		160	190	µg/Kg-dry	1	12/21/2022 20:04
Butyl benzyl phthalate	U		240	380	µg/Kg-dry	1	12/21/2022 20:04

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-05 (0-2)
Collection Date: 12/6/2022 09:30 AM

Work Order: 22120868
Lab ID: 22120868-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	690		290	380	µg/Kg-dry	1	12/21/2022 20:04
Carbazole	U		140	190	µg/Kg-dry	1	12/21/2022 20:04
Chrysene	U		31	38	µg/Kg-dry	1	12/21/2022 20:04
Dibenzo(a,h)anthracene	U		20	38	µg/Kg-dry	1	12/21/2022 20:04
Dibenzofuran	U		120	190	µg/Kg-dry	1	12/21/2022 20:04
Diethyl phthalate	U		150	190	µg/Kg-dry	1	12/21/2022 20:04
Dimethyl phthalate	U		140	190	µg/Kg-dry	1	12/21/2022 20:04
Di-n-butyl phthalate	U		120	190	µg/Kg-dry	1	12/21/2022 20:04
Di-n-octyl phthalate	U		160	190	µg/Kg-dry	1	12/21/2022 20:04
Fluoranthene	45		18	38	µg/Kg-dry	1	12/21/2022 20:04
Fluorene	U		27	38	µg/Kg-dry	1	12/21/2022 20:04
Hexachlorobenzene	U		120	190	µg/Kg-dry	1	12/21/2022 20:04
Hexachlorobutadiene	U		150	190	µg/Kg-dry	1	12/21/2022 20:04
Hexachlorocyclopentadiene	U		180	190	µg/Kg-dry	1	12/21/2022 20:04
Hexachloroethane	U		78	190	µg/Kg-dry	1	12/21/2022 20:04
Indeno(1,2,3-cd)pyrene	49		26	38	µg/Kg-dry	1	12/21/2022 20:04
Isophorone	U		130	950	µg/Kg-dry	1	12/21/2022 20:04
Naphthalene	U		24	38	µg/Kg-dry	1	12/21/2022 20:04
Nitrobenzene	U		140	950	µg/Kg-dry	1	12/21/2022 20:04
N-Nitrosodi-n-propylamine	U		180	190	µg/Kg-dry	1	12/21/2022 20:04
N-Nitrosodiphenylamine	U		110	190	µg/Kg-dry	1	12/21/2022 20:04
Pentachlorophenol	U		150	190	µg/Kg-dry	1	12/21/2022 20:04
Phenanthrene	30	J	18	38	µg/Kg-dry	1	12/21/2022 20:04
Phenol	U		95	190	µg/Kg-dry	1	12/21/2022 20:04
Pyrene	38	J	36	38	µg/Kg-dry	1	12/21/2022 20:04
Surr: 2,4,6-Tribromophenol	71.7			48-94	%REC	1	12/21/2022 20:04
Surr: 2-Fluorobiphenyl	74.6			50-103	%REC	1	12/21/2022 20:04
Surr: 2-Fluorophenol	71.8			43-105	%REC	1	12/21/2022 20:04
Surr: 4-Terphenyl-d14	75.0			55-111	%REC	1	12/21/2022 20:04
Surr: Nitrobenzene-d5	75.0			47-100	%REC	1	12/21/2022 20:04
Surr: Phenol-d6	79.2			49-110	%REC	1	12/21/2022 20:04
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035A / 12/9/22		Analyst: SBR
1,1,1-Trichloroethane	U		20	43	µg/Kg-dry	1	12/16/2022 02:32
1,1,1,2-Tetrachloroethane	U		19	43	µg/Kg-dry	1	12/16/2022 02:32
1,1,2-Trichloroethane	U		18	43	µg/Kg-dry	1	12/16/2022 02:32
1,1,2-Trichlorotrifluoroethane	U		27	43	µg/Kg-dry	1	12/16/2022 02:32
1,1-Dichloroethane	U		16	43	µg/Kg-dry	1	12/16/2022 02:32
1,1-Dichloroethene	U		14	43	µg/Kg-dry	1	12/16/2022 02:32
1,2,3-Trichlorobenzene	U		52	140	µg/Kg-dry	1	12/16/2022 02:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-05 (0-2)
Collection Date: 12/6/2022 09:30 AM

Work Order: 22120868
Lab ID: 22120868-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,3-Trichloropropane	U		18	43	µg/Kg-dry	1	12/16/2022 02:32
1,2,4-Trichlorobenzene	U		49	140	µg/Kg-dry	1	12/16/2022 02:32
1,2,4-Trimethylbenzene	36	J	32	43	µg/Kg-dry	1	12/16/2022 02:32
1,2-Dibromo-3-chloropropane	U		40	140	µg/Kg-dry	1	12/16/2022 02:32
1,2-Dibromoethane	U		12	43	µg/Kg-dry	1	12/16/2022 02:32
1,2-Dichlorobenzene	U		16	43	µg/Kg-dry	1	12/16/2022 02:32
1,2-Dichloroethane	U		65	140	µg/Kg-dry	1	12/16/2022 02:32
1,2-Dichloropropane	U		32	43	µg/Kg-dry	1	12/16/2022 02:32
1,3,5-Trimethylbenzene	U		51	140	µg/Kg-dry	1	12/16/2022 02:32
1,3-Dichlorobenzene	U		14	43	µg/Kg-dry	1	12/16/2022 02:32
1,4-Dichlorobenzene	U		10	43	µg/Kg-dry	1	12/16/2022 02:32
2-Butanone	U		36	290	µg/Kg-dry	1	12/16/2022 02:32
2-Hexanone	U		22	43	µg/Kg-dry	1	12/16/2022 02:32
4-Methyl-2-pentanone	U		40	43	µg/Kg-dry	1	12/16/2022 02:32
Acetone	U		130	140	µg/Kg-dry	1	12/16/2022 02:32
Benzene	U		21	43	µg/Kg-dry	1	12/16/2022 02:32
Bromochloromethane	U		22	43	µg/Kg-dry	1	12/16/2022 02:32
Bromodichloromethane	U		24	43	µg/Kg-dry	1	12/16/2022 02:32
Bromoform	U		18	43	µg/Kg-dry	1	12/16/2022 02:32
Bromomethane	U		83	140	µg/Kg-dry	1	12/16/2022 02:32
Carbon disulfide	U		22	43	µg/Kg-dry	1	12/16/2022 02:32
Carbon tetrachloride	U		17	43	µg/Kg-dry	1	12/16/2022 02:32
Chlorobenzene	U		14	43	µg/Kg-dry	1	12/16/2022 02:32
Chloroethane	U		43	140	µg/Kg-dry	1	12/16/2022 02:32
Chloroform	U		16	43	µg/Kg-dry	1	12/16/2022 02:32
Chloromethane	U		120	140	µg/Kg-dry	1	12/16/2022 02:32
cis-1,2-Dichloroethene	U		28	43	µg/Kg-dry	1	12/16/2022 02:32
cis-1,3-Dichloropropene	U		33	43	µg/Kg-dry	1	12/16/2022 02:32
Cyclohexane	U		39	140	µg/Kg-dry	1	12/16/2022 02:32
Dibromochloromethane	U		24	43	µg/Kg-dry	1	12/16/2022 02:32
Dichlorodifluoromethane	U		53	140	µg/Kg-dry	1	12/16/2022 02:32
Ethylbenzene	U		9.2	43	µg/Kg-dry	1	12/16/2022 02:32
Isopropylbenzene	U		13	43	µg/Kg-dry	1	12/16/2022 02:32
m,p-Xylene	77	J	58	87	µg/Kg-dry	1	12/16/2022 02:32
Methyl acetate	U		52	360	µg/Kg-dry	1	12/16/2022 02:32
Methyl tert-butyl ether	U		13	43	µg/Kg-dry	1	12/16/2022 02:32
Methylcyclohexane	U		17	43	µg/Kg-dry	1	12/16/2022 02:32
Methylene chloride	170	J	120	360	µg/Kg-dry	1	12/16/2022 02:32
o-Xylene	21	J	17	43	µg/Kg-dry	1	12/16/2022 02:32
Styrene	U		17	43	µg/Kg-dry	1	12/16/2022 02:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-05 (0-2)
Collection Date: 12/6/2022 09:30 AM

Work Order: 22120868
Lab ID: 22120868-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Tetrachloroethene	U		26	43	µg/Kg-dry	1	12/16/2022 02:32
Toluene	26	J	12	43	µg/Kg-dry	1	12/16/2022 02:32
trans-1,2-Dichloroethene	U		16	43	µg/Kg-dry	1	12/16/2022 02:32
trans-1,3-Dichloropropene	U		24	43	µg/Kg-dry	1	12/16/2022 02:32
Trichloroethene	U		19	43	µg/Kg-dry	1	12/16/2022 02:32
Trichlorofluoromethane	U		22	43	µg/Kg-dry	1	12/16/2022 02:32
Vinyl chloride	U		29	43	µg/Kg-dry	1	12/16/2022 02:32
Xylenes, Total	98	J	58	130	µg/Kg-dry	1	12/16/2022 02:32
Surr: 1,2-Dichloroethane-d4	105			80-120	%REC	1	12/16/2022 02:32
Surr: 4-Bromofluorobenzene	99.5			80-120	%REC	1	12/16/2022 02:32
Surr: Dibromofluoromethane	97.1			80-120	%REC	1	12/16/2022 02:32
Surr: Toluene-d8	101			80-120	%REC	1	12/16/2022 02:32
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	21		0.10	0.10	% of sample	1	12/15/2022 13:10

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-05 (23-25)
Collection Date: 12/6/2022 09:40 AM

Work Order: 22120868
Lab ID: 22120868-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW3550 / 12/19/22		Analyst: MTB
DRO (C10-C28)	4.4	J	3.4	12	mg/Kg-dry	1	12/20/2022 04:02
ORO (C28-C40)	9.7	J	5.7	12	mg/Kg-dry	1	12/20/2022 04:02
Surr: 4-Terphenyl-d14	58.7			25-110	%REC	1	12/20/2022 04:02
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035A / 12/11/22		Analyst: MTB
GRO (C6-C10)	3,200	J	2,200	5,300	µg/Kg-dry	1	12/13/2022 21:33
Surr: Toluene-d8	96.7			78-115	%REC	1	12/13/2022 21:33
MERCURY BY CVA							
			Method: SW7471B		Prep: SW7471 / 12/13/22		Analyst: KRA
Mercury	U		0.014	0.020	mg/Kg-dry	1	12/14/2022 16:03
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 12/16/22		Analyst: STP
Aluminum	1,900		230	290	mg/Kg-dry	100	12/19/2022 15:15
Antimony	U		0.097	0.36	mg/Kg-dry	1	12/16/2022 20:13
Arsenic	1.8		0.043	0.36	mg/Kg-dry	1	12/16/2022 20:13
Barium	6.7		0.33	0.36	mg/Kg-dry	1	12/16/2022 20:13
Beryllium	0.17		0.025	0.14	mg/Kg-dry	1	12/16/2022 20:13
Cadmium	U		0.022	0.14	mg/Kg-dry	1	12/16/2022 20:13
Calcium	25,000		1,700	3,600	mg/Kg-dry	100	12/19/2022 15:15
Chromium	4.7		0.16	0.36	mg/Kg-dry	1	12/16/2022 20:13
Cobalt	1.4		0.059	0.36	mg/Kg-dry	1	12/16/2022 20:13
Copper	1.9		0.36	0.36	mg/Kg-dry	1	12/16/2022 20:13
Iron	4,000		12	14	mg/Kg-dry	1	12/16/2022 20:13
Lead	2.6		0.17	0.36	mg/Kg-dry	1	12/16/2022 20:13
Magnesium	1,300		10	14	mg/Kg-dry	1	12/16/2022 20:13
Manganese	70		0.30	0.36	mg/Kg-dry	1	12/16/2022 20:13
Nickel	3.4		0.19	0.36	mg/Kg-dry	1	12/16/2022 20:13
Potassium	310		6.1	14	mg/Kg-dry	1	12/16/2022 20:13
Selenium	U		0.33	0.36	mg/Kg-dry	1	12/16/2022 20:13
Silver	U		0.048	0.36	mg/Kg-dry	1	12/16/2022 20:13
Sodium	110		19	22	mg/Kg-dry	1	12/16/2022 20:13
Thallium	0.096	J	0.057	0.36	mg/Kg-dry	1	12/16/2022 20:13
Vanadium	8.4		0.093	0.36	mg/Kg-dry	1	12/16/2022 20:13
Zinc	5.6		0.71	0.72	mg/Kg-dry	1	12/16/2022 20:13
SEMI-VOLATILE ORGANIC COMPOUNDS							
			Method: SW846 8270D		Prep: SW3546 / 12/19/22		Analyst: EEW
1,1'-Biphenyl	U		28	39	µg/Kg-dry	1	12/21/2022 20:28
1,2,4,5-Tetrachlorobenzene	U		35	200	µg/Kg-dry	1	12/21/2022 20:28
1,4-Dioxane	U		93	200	µg/Kg-dry	1	12/21/2022 20:28
1-Methylnaphthalene	U		5.7	7.9	µg/Kg-dry	1	12/21/2022 20:28

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-05 (23-25)
Collection Date: 12/6/2022 09:40 AM

Work Order: 22120868
Lab ID: 22120868-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,2'-Oxybis(1-chloropropane)	U		27	39	µg/Kg-dry	1	12/21/2022 20:28
2,3,4,6-Tetrachlorophenol	U		29	80	µg/Kg-dry	1	12/21/2022 20:28
2,4,5-Trichlorophenol	U		23	39	µg/Kg-dry	1	12/21/2022 20:28
2,4,6-Trichlorophenol	U		11	39	µg/Kg-dry	1	12/21/2022 20:28
2,4-Dichlorophenol	U		21	39	µg/Kg-dry	1	12/21/2022 20:28
2,4-Dimethylphenol	U		20	39	µg/Kg-dry	1	12/21/2022 20:28
2,4-Dinitrophenol	U		71	790	µg/Kg-dry	1	12/21/2022 20:28
2,4-Dinitrotoluene	U		26	39	µg/Kg-dry	1	12/21/2022 20:28
2,6-Dinitrotoluene	U		26	39	µg/Kg-dry	1	12/21/2022 20:28
2-Chloronaphthalene	U		5.5	7.9	µg/Kg-dry	1	12/21/2022 20:28
2-Chlorophenol	U		27	39	µg/Kg-dry	1	12/21/2022 20:28
2-Methylnaphthalene	U		4.0	7.9	µg/Kg-dry	1	12/21/2022 20:28
2-Methylphenol	U		24	39	µg/Kg-dry	1	12/21/2022 20:28
2-Nitroaniline	U		22	39	µg/Kg-dry	1	12/21/2022 20:28
2-Nitrophenol	U		25	39	µg/Kg-dry	1	12/21/2022 20:28
3&4-Methylphenol	U		22	39	µg/Kg-dry	1	12/21/2022 20:28
3,3'-Dichlorobenzidine	U		18	200	µg/Kg-dry	1	12/21/2022 20:28
3-Nitroaniline	U		23	39	µg/Kg-dry	1	12/21/2022 20:28
4,6-Dinitro-2-methylphenol	U		33	39	µg/Kg-dry	1	12/21/2022 20:28
4-Bromophenyl phenyl ether	U		22	39	µg/Kg-dry	1	12/21/2022 20:28
4-Chloro-3-methylphenol	U		29	39	µg/Kg-dry	1	12/21/2022 20:28
4-Chloroaniline	U		20	80	µg/Kg-dry	1	12/21/2022 20:28
4-Chlorophenyl phenyl ether	U		26	39	µg/Kg-dry	1	12/21/2022 20:28
4-Nitroaniline	U		61	200	µg/Kg-dry	1	12/21/2022 20:28
4-Nitrophenol	U		19	200	µg/Kg-dry	1	12/21/2022 20:28
Acenaphthene	U		5.7	7.9	µg/Kg-dry	1	12/21/2022 20:28
Acenaphthylene	U		5.1	7.9	µg/Kg-dry	1	12/21/2022 20:28
Acetophenone	U		25	39	µg/Kg-dry	1	12/21/2022 20:28
Anthracene	U		5.6	7.9	µg/Kg-dry	1	12/21/2022 20:28
Atrazine	U		23	39	µg/Kg-dry	1	12/21/2022 20:28
Benzaldehyde	U		61	80	µg/Kg-dry	1	12/21/2022 20:28
Benzo(a)anthracene	U		6.8	7.9	µg/Kg-dry	1	12/21/2022 20:28
Benzo(a)pyrene	U		4.9	7.9	µg/Kg-dry	1	12/21/2022 20:28
Benzo(b)fluoranthene	U		5.9	7.9	µg/Kg-dry	1	12/21/2022 20:28
Benzo(g,h,i)perylene	U		6.1	7.9	µg/Kg-dry	1	12/21/2022 20:28
Benzo(k)fluoranthene	U		6.0	7.9	µg/Kg-dry	1	12/21/2022 20:28
Bis(2-chloroethoxy)methane	U		25	39	µg/Kg-dry	1	12/21/2022 20:28
Bis(2-chloroethyl)ether	U		28	39	µg/Kg-dry	1	12/21/2022 20:28
Bis(2-ethylhexyl)phthalate	U		33	39	µg/Kg-dry	1	12/21/2022 20:28
Butyl benzyl phthalate	U		50	80	µg/Kg-dry	1	12/21/2022 20:28

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-05 (23-25)
Collection Date: 12/6/2022 09:40 AM

Work Order: 22120868
Lab ID: 22120868-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		61	80	µg/Kg-dry	1	12/21/2022 20:28
Carbazole	U		29	39	µg/Kg-dry	1	12/21/2022 20:28
Chrysene	U		6.4	7.9	µg/Kg-dry	1	12/21/2022 20:28
Dibenzo(a,h)anthracene	U		4.3	7.9	µg/Kg-dry	1	12/21/2022 20:28
Dibenzofuran	U		24	39	µg/Kg-dry	1	12/21/2022 20:28
Diethyl phthalate	U		31	39	µg/Kg-dry	1	12/21/2022 20:28
Dimethyl phthalate	U		30	39	µg/Kg-dry	1	12/21/2022 20:28
Di-n-butyl phthalate	U		24	39	µg/Kg-dry	1	12/21/2022 20:28
Di-n-octyl phthalate	U		34	39	µg/Kg-dry	1	12/21/2022 20:28
Fluoranthene	11		3.8	7.9	µg/Kg-dry	1	12/21/2022 20:28
Fluorene	U		5.8	7.9	µg/Kg-dry	1	12/21/2022 20:28
Hexachlorobenzene	U		24	39	µg/Kg-dry	1	12/21/2022 20:28
Hexachlorobutadiene	U		31	39	µg/Kg-dry	1	12/21/2022 20:28
Hexachlorocyclopentadiene	U		38	39	µg/Kg-dry	1	12/21/2022 20:28
Hexachloroethane	U		16	39	µg/Kg-dry	1	12/21/2022 20:28
Indeno(1,2,3-cd)pyrene	U		5.5	7.9	µg/Kg-dry	1	12/21/2022 20:28
Isophorone	U		28	200	µg/Kg-dry	1	12/21/2022 20:28
Naphthalene	U		5.1	7.9	µg/Kg-dry	1	12/21/2022 20:28
Nitrobenzene	U		30	200	µg/Kg-dry	1	12/21/2022 20:28
N-Nitrosodi-n-propylamine	U		39	39	µg/Kg-dry	1	12/21/2022 20:28
N-Nitrosodiphenylamine	U		23	39	µg/Kg-dry	1	12/21/2022 20:28
Pentachlorophenol	U		31	39	µg/Kg-dry	1	12/21/2022 20:28
Phenanthrene	17		3.7	7.9	µg/Kg-dry	1	12/21/2022 20:28
Phenol	U		20	39	µg/Kg-dry	1	12/21/2022 20:28
Pyrene	U		7.5	7.9	µg/Kg-dry	1	12/21/2022 20:28
Surr: 2,4,6-Tribromophenol	80.2			48-94	%REC	1	12/21/2022 20:28
Surr: 2-Fluorobiphenyl	77.6			50-103	%REC	1	12/21/2022 20:28
Surr: 2-Fluorophenol	74.3			43-105	%REC	1	12/21/2022 20:28
Surr: 4-Terphenyl-d14	75.0			55-111	%REC	1	12/21/2022 20:28
Surr: Nitrobenzene-d5	76.2			47-100	%REC	1	12/21/2022 20:28
Surr: Phenol-d6	82.3			49-110	%REC	1	12/21/2022 20:28
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035A / 12/9/22		Analyst: SBR
1,1,1-Trichloroethane	U		14	32	µg/Kg-dry	1	12/16/2022 02:50
1,1,2,2-Tetrachloroethane	U		14	32	µg/Kg-dry	1	12/16/2022 02:50
1,1,2-Trichloroethane	U		14	32	µg/Kg-dry	1	12/16/2022 02:50
1,1,2-Trichlorotrifluoroethane	U		20	32	µg/Kg-dry	1	12/16/2022 02:50
1,1-Dichloroethane	U		12	32	µg/Kg-dry	1	12/16/2022 02:50
1,1-Dichloroethene	U		10	32	µg/Kg-dry	1	12/16/2022 02:50
1,2,3-Trichlorobenzene	U		38	110	µg/Kg-dry	1	12/16/2022 02:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: SB-05 (23-25)

Collection Date: 12/6/2022 09:40 AM

Work Order: 22120868

Lab ID: 22120868-12

Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,3-Trichloropropane	U		13	32	µg/Kg-dry	1	12/16/2022 02:50
1,2,4-Trichlorobenzene	U		36	110	µg/Kg-dry	1	12/16/2022 02:50
1,2,4-Trimethylbenzene	U		23	32	µg/Kg-dry	1	12/16/2022 02:50
1,2-Dibromo-3-chloropropane	U		29	110	µg/Kg-dry	1	12/16/2022 02:50
1,2-Dibromoethane	U		8.9	32	µg/Kg-dry	1	12/16/2022 02:50
1,2-Dichlorobenzene	U		12	32	µg/Kg-dry	1	12/16/2022 02:50
1,2-Dichloroethane	U		48	110	µg/Kg-dry	1	12/16/2022 02:50
1,2-Dichloropropane	U		23	32	µg/Kg-dry	1	12/16/2022 02:50
1,3,5-Trimethylbenzene	U		37	110	µg/Kg-dry	1	12/16/2022 02:50
1,3-Dichlorobenzene	U		11	32	µg/Kg-dry	1	12/16/2022 02:50
1,4-Dichlorobenzene	U		7.7	32	µg/Kg-dry	1	12/16/2022 02:50
2-Butanone	U		26	210	µg/Kg-dry	1	12/16/2022 02:50
2-Hexanone	U		16	32	µg/Kg-dry	1	12/16/2022 02:50
4-Methyl-2-pentanone	U		30	32	µg/Kg-dry	1	12/16/2022 02:50
Acetone	U		94	110	µg/Kg-dry	1	12/16/2022 02:50
Benzene	U		15	32	µg/Kg-dry	1	12/16/2022 02:50
Bromochloromethane	U		16	32	µg/Kg-dry	1	12/16/2022 02:50
Bromodichloromethane	U		18	32	µg/Kg-dry	1	12/16/2022 02:50
Bromoform	U		13	32	µg/Kg-dry	1	12/16/2022 02:50
Bromomethane	U		61	110	µg/Kg-dry	1	12/16/2022 02:50
Carbon disulfide	U		16	32	µg/Kg-dry	1	12/16/2022 02:50
Carbon tetrachloride	U		12	32	µg/Kg-dry	1	12/16/2022 02:50
Chlorobenzene	U		11	32	µg/Kg-dry	1	12/16/2022 02:50
Chloroethane	U		31	110	µg/Kg-dry	1	12/16/2022 02:50
Chloroform	U		12	32	µg/Kg-dry	1	12/16/2022 02:50
Chloromethane	U		87	110	µg/Kg-dry	1	12/16/2022 02:50
cis-1,2-Dichloroethene	U		20	32	µg/Kg-dry	1	12/16/2022 02:50
cis-1,3-Dichloropropene	U		24	32	µg/Kg-dry	1	12/16/2022 02:50
Cyclohexane	U		29	110	µg/Kg-dry	1	12/16/2022 02:50
Dibromochloromethane	U		18	32	µg/Kg-dry	1	12/16/2022 02:50
Dichlorodifluoromethane	U		39	110	µg/Kg-dry	1	12/16/2022 02:50
Ethylbenzene	U		6.7	32	µg/Kg-dry	1	12/16/2022 02:50
Isopropylbenzene	U		9.7	32	µg/Kg-dry	1	12/16/2022 02:50
m,p-Xylene	U		42	64	µg/Kg-dry	1	12/16/2022 02:50
Methyl acetate	U		38	270	µg/Kg-dry	1	12/16/2022 02:50
Methyl tert-butyl ether	U		9.2	32	µg/Kg-dry	1	12/16/2022 02:50
Methylcyclohexane	U		12	32	µg/Kg-dry	1	12/16/2022 02:50
Methylene chloride	U		84	270	µg/Kg-dry	1	12/16/2022 02:50
o-Xylene	U		12	32	µg/Kg-dry	1	12/16/2022 02:50
Styrene	U		13	32	µg/Kg-dry	1	12/16/2022 02:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-05 (23-25)
Collection Date: 12/6/2022 09:40 AM

Work Order: 22120868
Lab ID: 22120868-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Tetrachloroethene	U		19	32	µg/Kg-dry	1	12/16/2022 02:50
Toluene	15	J	8.7	32	µg/Kg-dry	1	12/16/2022 02:50
trans-1,2-Dichloroethene	U		12	32	µg/Kg-dry	1	12/16/2022 02:50
trans-1,3-Dichloropropene	U		18	32	µg/Kg-dry	1	12/16/2022 02:50
Trichloroethene	U		14	32	µg/Kg-dry	1	12/16/2022 02:50
Trichlorofluoromethane	U		16	32	µg/Kg-dry	1	12/16/2022 02:50
Vinyl chloride	U		21	32	µg/Kg-dry	1	12/16/2022 02:50
Xylenes, Total	U		42	95	µg/Kg-dry	1	12/16/2022 02:50
Surr: 1,2-Dichloroethane-d4	105			80-120	%REC	1	12/16/2022 02:50
Surr: 4-Bromofluorobenzene	99.4			80-120	%REC	1	12/16/2022 02:50
Surr: Dibromofluoromethane	99.3			80-120	%REC	1	12/16/2022 02:50
Surr: Toluene-d8	106			80-120	%REC	1	12/16/2022 02:50
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	16		0.10	0.10	% of sample	1	12/15/2022 13:10

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-04 (0-2)
Collection Date: 12/6/2022 11:00 AM

Work Order: 22120868
Lab ID: 22120868-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW3550 / 12/19/22		Analyst: MTB
DRO (C10-C28)	4.3	J	3.7	13	mg/Kg-dry	1	12/20/2022 04:38
ORO (C28-C40)	14		6.3	13	mg/Kg-dry	1	12/20/2022 04:38
Surr: 4-Terphenyl-d14	64.4			25-110	%REC	1	12/20/2022 04:38
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035A / 12/11/22		Analyst: MTB
GRO (C6-C10)	4,900	J	3,500	8,300	µg/Kg-dry	1	12/13/2022 21:55
Surr: Toluene-d8	96.4			78-115	%REC	1	12/13/2022 21:55
MERCURY BY CVA			Method: SW7471B		Prep: SW7471 / 12/13/22		Analyst: KRA
Mercury	U		0.015	0.022	mg/Kg-dry	1	12/14/2022 16:13
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 12/16/22		Analyst: STP
Aluminum	22,000		2,200	2,800	mg/Kg-dry	1000	12/19/2022 16:17
Antimony	U		0.092	0.34	mg/Kg-dry	1	12/16/2022 20:19
Arsenic	2.4		0.041	0.34	mg/Kg-dry	1	12/16/2022 20:19
Barium	510		32	34	mg/Kg-dry	100	12/19/2022 15:30
Beryllium	1.3		0.023	0.14	mg/Kg-dry	1	12/16/2022 20:19
Cadmium	U		0.021	0.14	mg/Kg-dry	1	12/16/2022 20:19
Calcium	22,000		1,700	3,400	mg/Kg-dry	100	12/19/2022 15:30
Chromium	16		0.15	0.34	mg/Kg-dry	1	12/16/2022 20:19
Cobalt	8.2		0.056	0.34	mg/Kg-dry	1	12/16/2022 20:19
Copper	8.4		0.34	0.34	mg/Kg-dry	1	12/16/2022 20:19
Iron	19,000		1,100	1,400	mg/Kg-dry	100	12/19/2022 15:30
Lead	16		0.17	0.34	mg/Kg-dry	1	12/16/2022 20:19
Magnesium	5,600		9.6	14	mg/Kg-dry	1	12/16/2022 20:19
Manganese	500		29	34	mg/Kg-dry	100	12/19/2022 15:30
Nickel	14		0.18	0.34	mg/Kg-dry	1	12/16/2022 20:19
Potassium	1,800		5.8	14	mg/Kg-dry	1	12/16/2022 20:19
Selenium	U		0.32	0.34	mg/Kg-dry	1	12/16/2022 20:19
Silver	U		0.045	0.34	mg/Kg-dry	1	12/16/2022 20:19
Sodium	970		18	21	mg/Kg-dry	1	12/16/2022 20:19
Thallium	0.26	J	0.054	0.34	mg/Kg-dry	1	12/16/2022 20:19
Vanadium	34		0.088	0.34	mg/Kg-dry	1	12/16/2022 20:19
Zinc	28		0.67	0.69	mg/Kg-dry	1	12/16/2022 20:19
SEMI-VOLATILE ORGANIC COMPOUNDS			Method: SW846 8270D		Prep: SW3546 / 12/19/22		Analyst: EEW
1,1'-Biphenyl	U		420	600	µg/Kg-dry	1	12/21/2022 20:52
1,2,4,5-Tetrachlorobenzene	U		540	3,000	µg/Kg-dry	1	12/21/2022 20:52
1,4-Dioxane	U		1,400	3,000	µg/Kg-dry	1	12/21/2022 20:52
1-Methylnaphthalene	U		87	120	µg/Kg-dry	1	12/21/2022 20:52

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-04 (0-2)
Collection Date: 12/6/2022 11:00 AM

Work Order: 22120868
Lab ID: 22120868-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,2'-Oxybis(1-chloropropane)	U		410	600	µg/Kg-dry	1	12/21/2022 20:52
2,3,4,6-Tetrachlorophenol	U		440	1,200	µg/Kg-dry	1	12/21/2022 20:52
2,4,5-Trichlorophenol	U		360	600	µg/Kg-dry	1	12/21/2022 20:52
2,4,6-Trichlorophenol	U		160	600	µg/Kg-dry	1	12/21/2022 20:52
2,4-Dichlorophenol	U		320	600	µg/Kg-dry	1	12/21/2022 20:52
2,4-Dimethylphenol	U		310	600	µg/Kg-dry	1	12/21/2022 20:52
2,4-Dinitrophenol	U		1,100	12,000	µg/Kg-dry	1	12/21/2022 20:52
2,4-Dinitrotoluene	U		390	600	µg/Kg-dry	1	12/21/2022 20:52
2,6-Dinitrotoluene	U		390	600	µg/Kg-dry	1	12/21/2022 20:52
2-Chloronaphthalene	U		84	120	µg/Kg-dry	1	12/21/2022 20:52
2-Chlorophenol	U		410	600	µg/Kg-dry	1	12/21/2022 20:52
2-Methylnaphthalene	U		61	120	µg/Kg-dry	1	12/21/2022 20:52
2-Methylphenol	U		370	600	µg/Kg-dry	1	12/21/2022 20:52
2-Nitroaniline	U		330	600	µg/Kg-dry	1	12/21/2022 20:52
2-Nitrophenol	U		380	600	µg/Kg-dry	1	12/21/2022 20:52
3&4-Methylphenol	U		330	600	µg/Kg-dry	1	12/21/2022 20:52
3,3'-Dichlorobenzidine	U		280	3,000	µg/Kg-dry	1	12/21/2022 20:52
3-Nitroaniline	U		350	600	µg/Kg-dry	1	12/21/2022 20:52
4,6-Dinitro-2-methylphenol	U		500	600	µg/Kg-dry	1	12/21/2022 20:52
4-Bromophenyl phenyl ether	U		330	600	µg/Kg-dry	1	12/21/2022 20:52
4-Chloro-3-methylphenol	U		440	600	µg/Kg-dry	1	12/21/2022 20:52
4-Chloroaniline	U		310	1,200	µg/Kg-dry	1	12/21/2022 20:52
4-Chlorophenyl phenyl ether	U		390	600	µg/Kg-dry	1	12/21/2022 20:52
4-Nitroaniline	U		930	3,000	µg/Kg-dry	1	12/21/2022 20:52
4-Nitrophenol	U		290	3,000	µg/Kg-dry	1	12/21/2022 20:52
Acenaphthene	U		87	120	µg/Kg-dry	1	12/21/2022 20:52
Acenaphthylene	U		78	120	µg/Kg-dry	1	12/21/2022 20:52
Acetophenone	U		380	600	µg/Kg-dry	1	12/21/2022 20:52
Anthracene	U		85	120	µg/Kg-dry	1	12/21/2022 20:52
Atrazine	U		350	600	µg/Kg-dry	1	12/21/2022 20:52
Benzaldehyde	U		930	1,200	µg/Kg-dry	1	12/21/2022 20:52
Benzo(a)anthracene	U		100	120	µg/Kg-dry	1	12/21/2022 20:52
Benzo(a)pyrene	U		74	120	µg/Kg-dry	1	12/21/2022 20:52
Benzo(b)fluoranthene	U		90	120	µg/Kg-dry	1	12/21/2022 20:52
Benzo(g,h,i)perylene	U		92	120	µg/Kg-dry	1	12/21/2022 20:52
Benzo(k)fluoranthene	U		91	120	µg/Kg-dry	1	12/21/2022 20:52
Bis(2-chloroethoxy)methane	U		380	600	µg/Kg-dry	1	12/21/2022 20:52
Bis(2-chloroethyl)ether	U		430	600	µg/Kg-dry	1	12/21/2022 20:52
Bis(2-ethylhexyl)phthalate	U		500	600	µg/Kg-dry	1	12/21/2022 20:52
Butyl benzyl phthalate	U		750	1,200	µg/Kg-dry	1	12/21/2022 20:52

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-04 (0-2)
Collection Date: 12/6/2022 11:00 AM

Work Order: 22120868
Lab ID: 22120868-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		930	1,200	µg/Kg-dry	1	12/21/2022 20:52
Carbazole	U		440	600	µg/Kg-dry	1	12/21/2022 20:52
Chrysene	U		97	120	µg/Kg-dry	1	12/21/2022 20:52
Dibenzo(a,h)anthracene	U		65	120	µg/Kg-dry	1	12/21/2022 20:52
Dibenzofuran	U		370	600	µg/Kg-dry	1	12/21/2022 20:52
Diethyl phthalate	U		480	600	µg/Kg-dry	1	12/21/2022 20:52
Dimethyl phthalate	U		460	600	µg/Kg-dry	1	12/21/2022 20:52
Di-n-butyl phthalate	U		370	600	µg/Kg-dry	1	12/21/2022 20:52
Di-n-octyl phthalate	U		520	600	µg/Kg-dry	1	12/21/2022 20:52
Fluoranthene	140		58	120	µg/Kg-dry	1	12/21/2022 20:52
Fluorene	U		88	120	µg/Kg-dry	1	12/21/2022 20:52
Hexachlorobenzene	U		370	600	µg/Kg-dry	1	12/21/2022 20:52
Hexachlorobutadiene	U		470	600	µg/Kg-dry	1	12/21/2022 20:52
Hexachlorocyclopentadiene	U		570	600	µg/Kg-dry	1	12/21/2022 20:52
Hexachloroethane	U		250	600	µg/Kg-dry	1	12/21/2022 20:52
Indeno(1,2,3-cd)pyrene	U		84	120	µg/Kg-dry	1	12/21/2022 20:52
Isophorone	U		430	3,000	µg/Kg-dry	1	12/21/2022 20:52
Naphthalene	U		77	120	µg/Kg-dry	1	12/21/2022 20:52
Nitrobenzene	U		460	3,000	µg/Kg-dry	1	12/21/2022 20:52
N-Nitrosodi-n-propylamine	U		590	600	µg/Kg-dry	1	12/21/2022 20:52
N-Nitrosodiphenylamine	U		340	600	µg/Kg-dry	1	12/21/2022 20:52
Pentachlorophenol	U		480	600	µg/Kg-dry	1	12/21/2022 20:52
Phenanthrene	200		56	120	µg/Kg-dry	1	12/21/2022 20:52
Phenol	U		300	600	µg/Kg-dry	1	12/21/2022 20:52
Pyrene	U		110	120	µg/Kg-dry	1	12/21/2022 20:52
Surr: 2,4,6-Tribromophenol	82.1			48-94	%REC	1	12/21/2022 20:52
Surr: 2-Fluorobiphenyl	82.8			50-103	%REC	1	12/21/2022 20:52
Surr: 2-Fluorophenol	79.9			43-105	%REC	1	12/21/2022 20:52
Surr: 4-Terphenyl-d14	78.4			55-111	%REC	1	12/21/2022 20:52
Surr: Nitrobenzene-d5	78.9			47-100	%REC	1	12/21/2022 20:52
Surr: Phenol-d6	88.7			49-110	%REC	1	12/21/2022 20:52
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035A / 12/9/22		Analyst: SBR
1,1,1-Trichloroethane	U		23	50	µg/Kg-dry	1	12/16/2022 03:09
1,1,2,2-Tetrachloroethane	U		22	50	µg/Kg-dry	1	12/16/2022 03:09
1,1,2-Trichloroethane	U		21	50	µg/Kg-dry	1	12/16/2022 03:09
1,1,2-Trichlorotrifluoroethane	U		32	50	µg/Kg-dry	1	12/16/2022 03:09
1,1-Dichloroethane	U		18	50	µg/Kg-dry	1	12/16/2022 03:09
1,1-Dichloroethene	U		16	50	µg/Kg-dry	1	12/16/2022 03:09
1,2,3-Trichlorobenzene	U		60	170	µg/Kg-dry	1	12/16/2022 03:09

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-04 (0-2)
Collection Date: 12/6/2022 11:00 AM

Work Order: 22120868
Lab ID: 22120868-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,3-Trichloropropane	U		21	50	µg/Kg-dry	1	12/16/2022 03:09
1,2,4-Trichlorobenzene	U		57	170	µg/Kg-dry	1	12/16/2022 03:09
1,2,4-Trimethylbenzene	U		37	50	µg/Kg-dry	1	12/16/2022 03:09
1,2-Dibromo-3-chloropropane	U		46	170	µg/Kg-dry	1	12/16/2022 03:09
1,2-Dibromoethane	U		14	50	µg/Kg-dry	1	12/16/2022 03:09
1,2-Dichlorobenzene	U		19	50	µg/Kg-dry	1	12/16/2022 03:09
1,2-Dichloroethane	U		75	170	µg/Kg-dry	1	12/16/2022 03:09
1,2-Dichloropropane	U		37	50	µg/Kg-dry	1	12/16/2022 03:09
1,3,5-Trimethylbenzene	U		58	170	µg/Kg-dry	1	12/16/2022 03:09
1,3-Dichlorobenzene	U		17	50	µg/Kg-dry	1	12/16/2022 03:09
1,4-Dichlorobenzene	U		12	50	µg/Kg-dry	1	12/16/2022 03:09
2-Butanone	U		41	330	µg/Kg-dry	1	12/16/2022 03:09
2-Hexanone	U		25	50	µg/Kg-dry	1	12/16/2022 03:09
4-Methyl-2-pentanone	U		47	50	µg/Kg-dry	1	12/16/2022 03:09
Acetone	U		150	170	µg/Kg-dry	1	12/16/2022 03:09
Benzene	U		24	50	µg/Kg-dry	1	12/16/2022 03:09
Bromochloromethane	U		25	50	µg/Kg-dry	1	12/16/2022 03:09
Bromodichloromethane	U		28	50	µg/Kg-dry	1	12/16/2022 03:09
Bromoform	U		21	50	µg/Kg-dry	1	12/16/2022 03:09
Bromomethane	U		96	170	µg/Kg-dry	1	12/16/2022 03:09
Carbon disulfide	U		26	50	µg/Kg-dry	1	12/16/2022 03:09
Carbon tetrachloride	U		20	50	µg/Kg-dry	1	12/16/2022 03:09
Chlorobenzene	U		17	50	µg/Kg-dry	1	12/16/2022 03:09
Chloroethane	U		49	170	µg/Kg-dry	1	12/16/2022 03:09
Chloroform	U		18	50	µg/Kg-dry	1	12/16/2022 03:09
Chloromethane	U		140	170	µg/Kg-dry	1	12/16/2022 03:09
cis-1,2-Dichloroethene	U		32	50	µg/Kg-dry	1	12/16/2022 03:09
cis-1,3-Dichloropropene	U		38	50	µg/Kg-dry	1	12/16/2022 03:09
Cyclohexane	U		45	170	µg/Kg-dry	1	12/16/2022 03:09
Dibromochloromethane	U		28	50	µg/Kg-dry	1	12/16/2022 03:09
Dichlorodifluoromethane	U		60	170	µg/Kg-dry	1	12/16/2022 03:09
Ethylbenzene	U		11	50	µg/Kg-dry	1	12/16/2022 03:09
Isopropylbenzene	U		15	50	µg/Kg-dry	1	12/16/2022 03:09
m,p-Xylene	U		67	100	µg/Kg-dry	1	12/16/2022 03:09
Methyl acetate	U		60	420	µg/Kg-dry	1	12/16/2022 03:09
Methyl tert-butyl ether	U		14	50	µg/Kg-dry	1	12/16/2022 03:09
Methylcyclohexane	U		19	50	µg/Kg-dry	1	12/16/2022 03:09
Methylene chloride	U		130	420	µg/Kg-dry	1	12/16/2022 03:09
o-Xylene	U		19	50	µg/Kg-dry	1	12/16/2022 03:09
Styrene	U		20	50	µg/Kg-dry	1	12/16/2022 03:09

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
 Project: Houston
 Sample ID: SB-04 (0-2)
 Collection Date: 12/6/2022 11:00 AM

Work Order: 22120868
 Lab ID: 22120868-13
 Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Tetrachloroethene	U		30	50	µg/Kg-dry	1	12/16/2022 03:09
Toluene	U		14	50	µg/Kg-dry	1	12/16/2022 03:09
trans-1,2-Dichloroethene	U		18	50	µg/Kg-dry	1	12/16/2022 03:09
trans-1,3-Dichloropropene	U		28	50	µg/Kg-dry	1	12/16/2022 03:09
Trichloroethene	U		22	50	µg/Kg-dry	1	12/16/2022 03:09
Trichlorofluoromethane	U		26	50	µg/Kg-dry	1	12/16/2022 03:09
Vinyl chloride	U		33	50	µg/Kg-dry	1	12/16/2022 03:09
Xylenes, Total	U		67	150	µg/Kg-dry	1	12/16/2022 03:09
Surr: 1,2-Dichloroethane-d4	103			80-120	%REC	1	12/16/2022 03:09
Surr: 4-Bromofluorobenzene	99.0			80-120	%REC	1	12/16/2022 03:09
Surr: Dibromofluoromethane	95.8			80-120	%REC	1	12/16/2022 03:09
Surr: Toluene-d8	99.9			80-120	%REC	1	12/16/2022 03:09
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	25		0.10	0.10	% of sample	1	12/15/2022 13:10

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-04 (23-25)
Collection Date: 12/6/2022 11:10 AM

Work Order: 22120868
Lab ID: 22120868-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW3550 / 12/19/22		Analyst: MTB
DRO (C10-C28)	U		3.5	12	mg/Kg-dry	1	12/20/2022 05:15
ORO (C28-C40)	U		5.9	12	mg/Kg-dry	1	12/20/2022 05:15
Surr: 4-Terphenyl-d14	66.7			25-110	%REC	1	12/20/2022 05:15
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035A / 12/11/22		Analyst: MTB
GRO (C6-C10)	5,200	J	3,000	7,200	µg/Kg-dry	1	12/13/2022 22:17
Surr: Toluene-d8	94.2			78-115	%REC	1	12/13/2022 22:17
MERCURY BY CVA							
			Method: SW7471B		Prep: SW7471 / 12/13/22		Analyst: KRA
Mercury	U		0.016	0.024	mg/Kg-dry	1	12/14/2022 16:15
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 12/16/22		Analyst: STP
Aluminum	5,900		230	290	mg/Kg-dry	100	12/19/2022 15:31
Antimony	U		0.096	0.36	mg/Kg-dry	1	12/16/2022 20:24
Arsenic	1.4		0.043	0.36	mg/Kg-dry	1	12/16/2022 20:24
Barium	18		0.33	0.36	mg/Kg-dry	1	12/16/2022 20:24
Beryllium	0.44		0.024	0.14	mg/Kg-dry	1	12/16/2022 20:24
Cadmium	U		0.021	0.14	mg/Kg-dry	1	12/16/2022 20:24
Calcium	37,000		1,700	3,600	mg/Kg-dry	100	12/19/2022 15:31
Chromium	6.5		0.16	0.36	mg/Kg-dry	1	12/16/2022 20:24
Cobalt	3.3		0.059	0.36	mg/Kg-dry	1	12/16/2022 20:24
Copper	3.1		0.36	0.36	mg/Kg-dry	1	12/16/2022 20:24
Iron	5,100		11	14	mg/Kg-dry	1	12/16/2022 20:24
Lead	8.5		0.17	0.36	mg/Kg-dry	1	12/16/2022 20:24
Magnesium	3,200		10	14	mg/Kg-dry	1	12/16/2022 20:24
Manganese	100		0.30	0.36	mg/Kg-dry	1	12/16/2022 20:24
Nickel	5.6		0.19	0.36	mg/Kg-dry	1	12/16/2022 20:24
Potassium	880		6.0	14	mg/Kg-dry	1	12/16/2022 20:24
Selenium	U		0.33	0.36	mg/Kg-dry	1	12/16/2022 20:24
Silver	U		0.047	0.36	mg/Kg-dry	1	12/16/2022 20:24
Sodium	460		19	21	mg/Kg-dry	1	12/16/2022 20:24
Thallium	0.082	J	0.056	0.36	mg/Kg-dry	1	12/16/2022 20:24
Vanadium	13		0.092	0.36	mg/Kg-dry	1	12/16/2022 20:24
Zinc	10		0.70	0.72	mg/Kg-dry	1	12/16/2022 20:24
SEMI-VOLATILE ORGANIC COMPOUNDS							
			Method: SW846 8270D		Prep: SW3546 / 12/19/22		Analyst: EEW
1,1'-Biphenyl	U		62	88	µg/Kg-dry	1	12/21/2022 21:15
1,2,4,5-Tetrachlorobenzene	U		80	450	µg/Kg-dry	1	12/21/2022 21:15
1,4-Dioxane	U		210	450	µg/Kg-dry	1	12/21/2022 21:15
1-Methylnaphthalene	U		13	18	µg/Kg-dry	1	12/21/2022 21:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-04 (23-25)
Collection Date: 12/6/2022 11:10 AM

Work Order: 22120868
Lab ID: 22120868-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,2'-Oxybis(1-chloropropane)	U		61	88	µg/Kg-dry	1	12/21/2022 21:15
2,3,4,6-Tetrachlorophenol	U		65	180	µg/Kg-dry	1	12/21/2022 21:15
2,4,5-Trichlorophenol	U		53	88	µg/Kg-dry	1	12/21/2022 21:15
2,4,6-Trichlorophenol	U		24	88	µg/Kg-dry	1	12/21/2022 21:15
2,4-Dichlorophenol	U		48	88	µg/Kg-dry	1	12/21/2022 21:15
2,4-Dimethylphenol	U		46	88	µg/Kg-dry	1	12/21/2022 21:15
2,4-Dinitrophenol	U		160	1,800	µg/Kg-dry	1	12/21/2022 21:15
2,4-Dinitrotoluene	U		58	88	µg/Kg-dry	1	12/21/2022 21:15
2,6-Dinitrotoluene	U		58	88	µg/Kg-dry	1	12/21/2022 21:15
2-Chloronaphthalene	U		12	18	µg/Kg-dry	1	12/21/2022 21:15
2-Chlorophenol	U		60	88	µg/Kg-dry	1	12/21/2022 21:15
2-Methylnaphthalene	U		9.1	18	µg/Kg-dry	1	12/21/2022 21:15
2-Methylphenol	U		55	88	µg/Kg-dry	1	12/21/2022 21:15
2-Nitroaniline	U		49	88	µg/Kg-dry	1	12/21/2022 21:15
2-Nitrophenol	U		56	88	µg/Kg-dry	1	12/21/2022 21:15
3&4-Methylphenol	U		49	88	µg/Kg-dry	1	12/21/2022 21:15
3,3'-Dichlorobenzidine	U		42	450	µg/Kg-dry	1	12/21/2022 21:15
3-Nitroaniline	U		52	88	µg/Kg-dry	1	12/21/2022 21:15
4,6-Dinitro-2-methylphenol	U		74	88	µg/Kg-dry	1	12/21/2022 21:15
4-Bromophenyl phenyl ether	U		49	88	µg/Kg-dry	1	12/21/2022 21:15
4-Chloro-3-methylphenol	U		66	88	µg/Kg-dry	1	12/21/2022 21:15
4-Chloroaniline	U		45	180	µg/Kg-dry	1	12/21/2022 21:15
4-Chlorophenyl phenyl ether	U		58	88	µg/Kg-dry	1	12/21/2022 21:15
4-Nitroaniline	U		140	450	µg/Kg-dry	1	12/21/2022 21:15
4-Nitrophenol	U		43	450	µg/Kg-dry	1	12/21/2022 21:15
Acenaphthene	U		13	18	µg/Kg-dry	1	12/21/2022 21:15
Acenaphthylene	U		12	18	µg/Kg-dry	1	12/21/2022 21:15
Acetophenone	U		57	88	µg/Kg-dry	1	12/21/2022 21:15
Anthracene	U		13	18	µg/Kg-dry	1	12/21/2022 21:15
Atrazine	U		52	88	µg/Kg-dry	1	12/21/2022 21:15
Benzaldehyde	U		140	180	µg/Kg-dry	1	12/21/2022 21:15
Benzo(a)anthracene	U		15	18	µg/Kg-dry	1	12/21/2022 21:15
Benzo(a)pyrene	U		11	18	µg/Kg-dry	1	12/21/2022 21:15
Benzo(b)fluoranthene	U		13	18	µg/Kg-dry	1	12/21/2022 21:15
Benzo(g,h,i)perylene	U		14	18	µg/Kg-dry	1	12/21/2022 21:15
Benzo(k)fluoranthene	U		13	18	µg/Kg-dry	1	12/21/2022 21:15
Bis(2-chloroethoxy)methane	U		56	88	µg/Kg-dry	1	12/21/2022 21:15
Bis(2-chloroethyl)ether	U		63	88	µg/Kg-dry	1	12/21/2022 21:15
Bis(2-ethylhexyl)phthalate	U		74	88	µg/Kg-dry	1	12/21/2022 21:15
Butyl benzyl phthalate	U		110	180	µg/Kg-dry	1	12/21/2022 21:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: SB-04 (23-25)
Collection Date: 12/6/2022 11:10 AM

Work Order: 22120868
Lab ID: 22120868-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	470		140	180	µg/Kg-dry	1	12/21/2022 21:15
Carbazole	U		64	88	µg/Kg-dry	1	12/21/2022 21:15
Chrysene	U		14	18	µg/Kg-dry	1	12/21/2022 21:15
Dibenzo(a,h)anthracene	U		9.6	18	µg/Kg-dry	1	12/21/2022 21:15
Dibenzofuran	U		55	88	µg/Kg-dry	1	12/21/2022 21:15
Diethyl phthalate	U		70	88	µg/Kg-dry	1	12/21/2022 21:15
Dimethyl phthalate	U		68	88	µg/Kg-dry	1	12/21/2022 21:15
Di-n-butyl phthalate	U		55	88	µg/Kg-dry	1	12/21/2022 21:15
Di-n-octyl phthalate	U		77	88	µg/Kg-dry	1	12/21/2022 21:15
Fluoranthene	25		8.5	18	µg/Kg-dry	1	12/21/2022 21:15
Fluorene	U		13	18	µg/Kg-dry	1	12/21/2022 21:15
Hexachlorobenzene	U		55	88	µg/Kg-dry	1	12/21/2022 21:15
Hexachlorobutadiene	U		69	88	µg/Kg-dry	1	12/21/2022 21:15
Hexachlorocyclopentadiene	U		84	88	µg/Kg-dry	1	12/21/2022 21:15
Hexachloroethane	U		37	88	µg/Kg-dry	1	12/21/2022 21:15
Indeno(1,2,3-cd)pyrene	U		12	18	µg/Kg-dry	1	12/21/2022 21:15
Isophorone	U		63	450	µg/Kg-dry	1	12/21/2022 21:15
Naphthalene	U		11	18	µg/Kg-dry	1	12/21/2022 21:15
Nitrobenzene	U		67	450	µg/Kg-dry	1	12/21/2022 21:15
N-Nitrosodi-n-propylamine	U		87	88	µg/Kg-dry	1	12/21/2022 21:15
N-Nitrosodiphenylamine	U		51	88	µg/Kg-dry	1	12/21/2022 21:15
Pentachlorophenol	U		71	88	µg/Kg-dry	1	12/21/2022 21:15
Phenanthrene	36		8.3	18	µg/Kg-dry	1	12/21/2022 21:15
Phenol	U		45	88	µg/Kg-dry	1	12/21/2022 21:15
Pyrene	18		17	18	µg/Kg-dry	1	12/21/2022 21:15
Surr: 2,4,6-Tribromophenol	74.9			48-94	%REC	1	12/21/2022 21:15
Surr: 2-Fluorobiphenyl	70.1			50-103	%REC	1	12/21/2022 21:15
Surr: 2-Fluorophenol	68.9			43-105	%REC	1	12/21/2022 21:15
Surr: 4-Terphenyl-d14	77.0			55-111	%REC	1	12/21/2022 21:15
Surr: Nitrobenzene-d5	70.5			47-100	%REC	1	12/21/2022 21:15
Surr: Phenol-d6	76.2			49-110	%REC	1	12/21/2022 21:15
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035A / 12/9/22		Analyst: SBR
1,1,1-Trichloroethane	U		20	43	µg/Kg-dry	1	12/16/2022 03:27
1,1,1,2-Tetrachloroethane	U		19	43	µg/Kg-dry	1	12/16/2022 03:27
1,1,2-Trichloroethane	U		18	43	µg/Kg-dry	1	12/16/2022 03:27
1,1,2-Trichlorotrifluoroethane	U		27	43	µg/Kg-dry	1	12/16/2022 03:27
1,1-Dichloroethane	U		16	43	µg/Kg-dry	1	12/16/2022 03:27
1,1-Dichloroethene	U		14	43	µg/Kg-dry	1	12/16/2022 03:27
1,2,3-Trichlorobenzene	U		52	140	µg/Kg-dry	1	12/16/2022 03:27

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: SB-04 (23-25)

Collection Date: 12/6/2022 11:10 AM

Work Order: 22120868

Lab ID: 22120868-14

Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,3-Trichloropropane	U		18	43	µg/Kg-dry	1	12/16/2022 03:27
1,2,4-Trichlorobenzene	U		49	140	µg/Kg-dry	1	12/16/2022 03:27
1,2,4-Trimethylbenzene	U		32	43	µg/Kg-dry	1	12/16/2022 03:27
1,2-Dibromo-3-chloropropane	U		40	140	µg/Kg-dry	1	12/16/2022 03:27
1,2-Dibromoethane	U		12	43	µg/Kg-dry	1	12/16/2022 03:27
1,2-Dichlorobenzene	U		16	43	µg/Kg-dry	1	12/16/2022 03:27
1,2-Dichloroethane	U		65	140	µg/Kg-dry	1	12/16/2022 03:27
1,2-Dichloropropane	U		32	43	µg/Kg-dry	1	12/16/2022 03:27
1,3,5-Trimethylbenzene	U		51	140	µg/Kg-dry	1	12/16/2022 03:27
1,3-Dichlorobenzene	U		14	43	µg/Kg-dry	1	12/16/2022 03:27
1,4-Dichlorobenzene	U		10	43	µg/Kg-dry	1	12/16/2022 03:27
2-Butanone	U		36	290	µg/Kg-dry	1	12/16/2022 03:27
2-Hexanone	U		21	43	µg/Kg-dry	1	12/16/2022 03:27
4-Methyl-2-pentanone	U		40	43	µg/Kg-dry	1	12/16/2022 03:27
Acetone	U		130	140	µg/Kg-dry	1	12/16/2022 03:27
Benzene	U		21	43	µg/Kg-dry	1	12/16/2022 03:27
Bromochloromethane	U		22	43	µg/Kg-dry	1	12/16/2022 03:27
Bromodichloromethane	U		24	43	µg/Kg-dry	1	12/16/2022 03:27
Bromoform	U		18	43	µg/Kg-dry	1	12/16/2022 03:27
Bromomethane	U		83	140	µg/Kg-dry	1	12/16/2022 03:27
Carbon disulfide	U		22	43	µg/Kg-dry	1	12/16/2022 03:27
Carbon tetrachloride	U		17	43	µg/Kg-dry	1	12/16/2022 03:27
Chlorobenzene	U		14	43	µg/Kg-dry	1	12/16/2022 03:27
Chloroethane	U		43	140	µg/Kg-dry	1	12/16/2022 03:27
Chloroform	U		16	43	µg/Kg-dry	1	12/16/2022 03:27
Chloromethane	U		120	140	µg/Kg-dry	1	12/16/2022 03:27
cis-1,2-Dichloroethene	U		28	43	µg/Kg-dry	1	12/16/2022 03:27
cis-1,3-Dichloropropene	U		33	43	µg/Kg-dry	1	12/16/2022 03:27
Cyclohexane	U		39	140	µg/Kg-dry	1	12/16/2022 03:27
Dibromochloromethane	U		24	43	µg/Kg-dry	1	12/16/2022 03:27
Dichlorodifluoromethane	U		52	140	µg/Kg-dry	1	12/16/2022 03:27
Ethylbenzene	U		9.1	43	µg/Kg-dry	1	12/16/2022 03:27
Isopropylbenzene	U		13	43	µg/Kg-dry	1	12/16/2022 03:27
m,p-Xylene	U		58	87	µg/Kg-dry	1	12/16/2022 03:27
Methyl acetate	U		52	360	µg/Kg-dry	1	12/16/2022 03:27
Methyl tert-butyl ether	U		12	43	µg/Kg-dry	1	12/16/2022 03:27
Methylcyclohexane	U		17	43	µg/Kg-dry	1	12/16/2022 03:27
Methylene chloride	U		110	360	µg/Kg-dry	1	12/16/2022 03:27
o-Xylene	U		17	43	µg/Kg-dry	1	12/16/2022 03:27
Styrene	U		17	43	µg/Kg-dry	1	12/16/2022 03:27

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: SB-04 (23-25)

Collection Date: 12/6/2022 11:10 AM

Work Order: 22120868

Lab ID: 22120868-14

Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Tetrachloroethene	U		26	43	µg/Kg-dry	1	12/16/2022 03:27
Toluene	U		12	43	µg/Kg-dry	1	12/16/2022 03:27
trans-1,2-Dichloroethene	U		16	43	µg/Kg-dry	1	12/16/2022 03:27
trans-1,3-Dichloropropene	U		24	43	µg/Kg-dry	1	12/16/2022 03:27
Trichloroethene	U		19	43	µg/Kg-dry	1	12/16/2022 03:27
Trichlorofluoromethane	U		22	43	µg/Kg-dry	1	12/16/2022 03:27
Vinyl chloride	U		29	43	µg/Kg-dry	1	12/16/2022 03:27
Xylenes, Total	U		58	130	µg/Kg-dry	1	12/16/2022 03:27
Surr: 1,2-Dichloroethane-d4	106			80-120	%REC	1	12/16/2022 03:27
Surr: 4-Bromofluorobenzene	103			80-120	%REC	1	12/16/2022 03:27
Surr: Dibromofluoromethane	96.4			80-120	%REC	1	12/16/2022 03:27
Surr: Toluene-d8	102			80-120	%REC	1	12/16/2022 03:27

MOISTURE

Method: SW3550C

Analyst: ALG

Moisture	20		0.10	0.10	% of sample	1	12/15/2022 13:10
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Note: See Qualifiers page for a list of qualifiers and their definitions.

Work Order: 22120868
Client: Tetra Tech
Project: Houston

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
Batch ID 208061 Test Name: Volatile Organic Compounds						
22120868-01	SB-03 (0-2)	Soil	12/5/2022 10:15:00 AM		12/9/2022 04:06 PM	12/15/2022 04:36 PM
^A 22120868-02	SB-03 (28-30)		12/5/2022 10:25:00 AM		12/9/2022 04:06 PM	12/15/2022 04:55 PM
^A 22120868-03	SB-02 (0-2)		12/5/2022 11:50:00 AM		12/9/2022 04:06 PM	12/15/2022 05:13 PM
^A 22120868-04	SB-02 (23-25)		12/5/2022 12:00:00 PM		12/9/2022 04:06 PM	12/15/2022 05:31 PM
^A 22120868-05	SB-01 (0-2)		12/5/2022 1:50:00 PM		12/9/2022 04:06 PM	12/15/2022 05:49 PM
^A 22120868-06	SB-01 (23-25)		12/5/2022 2:00:00 PM		12/9/2022 04:06 PM	12/15/2022 06:07 PM
^A 22120868-07	SB-06 (0-2)		12/5/2022 3:40:00 PM		12/9/2022 04:06 PM	12/15/2022 06:25 PM
^A 22120868-08	SB-06 (23-25)		12/5/2022 3:50:00 PM		12/9/2022 04:06 PM	12/15/2022 06:44 PM
^A 22120868-09	Trip Blank		12/5/2022		12/9/2022 04:06 PM	12/15/2022 04:00 PM
^A 22120868-10	Duplicate				12/9/2022 04:06 PM	12/15/2022 04:18 PM
^A 22120868-11	SB-05 (0-2)		12/6/2022 9:30:00 AM		12/9/2022 04:06 PM	12/16/2022 02:32 AM
^A 22120868-12	SB-05 (23-25)		12/6/2022 9:40:00 AM		12/9/2022 04:06 PM	12/16/2022 02:50 AM
^A 22120868-13	SB-04 (0-2)		12/6/2022 11:00:00 AM		12/9/2022 04:06 PM	12/16/2022 03:09 AM
^A 22120868-14	SB-04 (23-25)		12/6/2022 11:10:00 AM		12/9/2022 04:06 PM	12/16/2022 03:27 AM

Work Order: 22120868
Client: Tetra Tech
Project: Houston

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
<u>Batch ID</u> 208088 <u>Test Name:</u> Gasoline Range Organics by GC-FID						
22120868-01 A	SB-03 (0-2)	Soil	12/5/2022 10:15:00 AM		12/11/2022 10:40 AM	12/12/2022 01:04 PM
22120868-02 A	SB-03 (28-30)		12/5/2022 10:25:00 AM		12/11/2022 10:40 AM	12/12/2022 01:26 PM
22120868-03 A	SB-02 (0-2)		12/5/2022 11:50:00 AM		12/11/2022 10:40 AM	12/12/2022 01:48 PM
22120868-04 A	SB-02 (23-25)		12/5/2022 12:00:00 PM		12/11/2022 10:40 AM	12/12/2022 02:10 PM
22120868-05 A	SB-01 (0-2)		12/5/2022 1:50:00 PM		12/11/2022 10:40 AM	12/12/2022 02:32 PM
22120868-06 A	SB-01 (23-25)		12/5/2022 2:00:00 PM		12/11/2022 10:40 AM	12/13/2022 07:43 PM
22120868-07 A	SB-06 (0-2)		12/5/2022 3:40:00 PM		12/11/2022 10:40 AM	12/13/2022 08:05 PM
22120868-08 A	SB-06 (23-25)		12/5/2022 3:50:00 PM		12/11/2022 10:40 AM	12/13/2022 08:27 PM
22120868-10 A	Duplicate		12/5/2022		12/11/2022 10:40 AM	12/12/2022 02:54 PM
22120868-11 A	SB-05 (0-2)		12/6/2022 9:30:00 AM		12/11/2022 10:40 AM	12/13/2022 09:11 PM
22120868-12 A	SB-05 (23-25)		12/6/2022 9:40:00 AM		12/11/2022 10:40 AM	12/13/2022 09:33 PM
22120868-13 A	SB-04 (0-2)		12/6/2022 11:00:00 AM		12/11/2022 10:40 AM	12/13/2022 09:55 PM
22120868-14 A	SB-04 (23-25)		12/6/2022 11:10:00 AM		12/11/2022 10:40 AM	12/13/2022 10:17 PM
<u>Batch ID</u> 208253 <u>Test Name:</u> Mercury by CVAA						
22120868-01B	SB-03 (0-2)	Soil	12/5/2022 10:15:00 AM		12/13/2022 04:47 PM	12/14/2022 01:49 PM
22120868-02B	SB-03 (28-30)		12/5/2022 10:25:00 AM		12/13/2022 04:47 PM	12/14/2022 01:51 PM
22120868-03B	SB-02 (0-2)		12/5/2022 11:50:00 AM		12/13/2022 04:47 PM	12/14/2022 01:52 PM
22120868-04B	SB-02 (23-25)		12/5/2022 12:00:00 PM		12/13/2022 04:47 PM	12/14/2022 01:54 PM
22120868-05B	SB-01 (0-2)		12/5/2022 1:50:00 PM		12/13/2022 04:47 PM	12/14/2022 01:56 PM
22120868-06B	SB-01 (23-25)		12/5/2022 2:00:00 PM		12/13/2022 04:47 PM	12/14/2022 02:03 PM
22120868-07B	SB-06 (0-2)		12/5/2022 3:40:00 PM		12/13/2022 04:47 PM	12/14/2022 02:05 PM

Work Order: 22120868
Client: Tetra Tech
Project: Houston

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
<u>Batch ID</u> 208254 <u>Test Name:</u> Mercury by CVAA						
22120868-08B	SB-06 (23-25)	Soil	12/5/2022 3:50:00 PM		12/13/2022 04:47 PM	12/14/2022 03:57 PM
22120868-10B	Duplicate		12/5/2022		12/13/2022 04:47 PM	12/14/2022 03:59 PM
22120868-11B	SB-05 (0-2)		12/6/2022 9:30:00 AM		12/13/2022 04:47 PM	12/14/2022 04:01 PM
22120868-12B	SB-05 (23-25)		12/6/2022 9:40:00 AM		12/13/2022 04:47 PM	12/14/2022 04:03 PM
22120868-13B	SB-04 (0-2)		12/6/2022 11:00:00 AM		12/13/2022 04:47 PM	12/14/2022 04:13 PM
22120868-14B	SB-04 (23-25)		12/6/2022 11:10:00 AM		12/13/2022 04:47 PM	12/14/2022 04:15 PM

Work Order: 22120868
Client: Tetra Tech
Project: Houston

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
<u>Batch ID</u> 208464 <u>Test Name:</u> Metals by ICP-MS						
22120868-01B	SB-03 (0-2)	Soil	12/5/2022 10:15:00 AM		12/16/2022 12:00 PM	12/16/2022 07:24 PM
					12/16/2022 12:00 PM	12/19/2022 02:45 PM
22120868-02B	SB-03 (28-30)		12/5/2022 10:25:00 AM		12/16/2022 12:00 PM	12/16/2022 07:26 PM
					12/16/2022 12:00 PM	12/19/2022 02:46 PM
22120868-03B	SB-02 (0-2)		12/5/2022 11:50:00 AM		12/16/2022 12:00 PM	12/16/2022 07:28 PM
					12/16/2022 12:00 PM	12/19/2022 02:48 PM
					12/16/2022 12:00 PM	12/19/2022 04:15 PM
22120868-04B	SB-02 (23-25)		12/5/2022 12:00:00 PM		12/16/2022 12:00 PM	12/16/2022 07:30 PM
					12/16/2022 12:00 PM	12/19/2022 02:49 PM
22120868-05B	SB-01 (0-2)		12/5/2022 1:50:00 PM		12/16/2022 12:00 PM	12/16/2022 07:32 PM
					12/16/2022 12:00 PM	12/19/2022 02:51 PM
22120868-06B	SB-01 (23-25)		12/5/2022 2:00:00 PM		12/16/2022 12:00 PM	12/16/2022 07:34 PM
					12/16/2022 12:00 PM	12/19/2022 02:52 PM
22120868-07B	SB-06 (0-2)		12/5/2022 3:40:00 PM		12/16/2022 12:00 PM	12/16/2022 07:36 PM
					12/16/2022 12:00 PM	12/19/2022 02:54 PM
22120868-08B	SB-06 (23-25)		12/5/2022 3:50:00 PM		12/16/2022 12:00 PM	12/16/2022 07:41 PM
					12/16/2022 12:00 PM	12/19/2022 02:56 PM
22120868-10B	Duplicate		12/5/2022		12/16/2022 12:00 PM	12/16/2022 07:43 PM
					12/16/2022 12:00 PM	12/19/2022 02:57 PM
22120868-11B	SB-05 (0-2)		12/6/2022 9:30:00 AM		12/16/2022 12:00 PM	12/16/2022 07:45 PM
					12/16/2022 12:00 PM	12/19/2022 02:59 PM

Work Order: 22120868
Client: Tetra Tech
Project: Houston

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
<u>Batch ID</u> 208474		<u>Test Name:</u> Metals by ICP-MS				
22120868-12B	SB-05 (23-25)	Soil	12/6/2022 9:40:00 AM		12/16/2022 12:01 PM	12/16/2022 08:13 PM
					12/16/2022 12:01 PM	12/19/2022 03:15 PM
22120868-13B	SB-04 (0-2)		12/6/2022 11:00:00 AM		12/16/2022 12:01 PM	12/16/2022 08:19 PM
					12/16/2022 12:01 PM	12/19/2022 03:30 PM
					12/16/2022 12:01 PM	12/19/2022 04:17 PM
22120868-14B	SB-04 (23-25)		12/6/2022 11:10:00 AM		12/16/2022 12:01 PM	12/16/2022 08:24 PM
					12/16/2022 12:01 PM	12/19/2022 03:31 PM
<u>Batch ID</u> 208555		<u>Test Name:</u> Diesel Range Organics by GC-FID				
22120868-01B	SB-03 (0-2)	Soil	12/5/2022 10:15:00 AM		12/19/2022 05:11 PM	12/19/2022 09:15 PM
22120868-02B	SB-03 (28-30)		12/5/2022 10:25:00 AM		12/19/2022 05:11 PM	12/19/2022 09:52 PM
22120868-03B	SB-02 (0-2)		12/5/2022 11:50:00 AM		12/19/2022 05:11 PM	12/19/2022 08:38 PM
22120868-04B	SB-02 (23-25)		12/5/2022 12:00:00 PM		12/19/2022 05:11 PM	12/19/2022 10:29 PM
22120868-05B	SB-01 (0-2)		12/5/2022 1:50:00 PM		12/19/2022 05:11 PM	12/19/2022 11:06 PM
22120868-06B	SB-01 (23-25)		12/5/2022 2:00:00 PM		12/19/2022 05:11 PM	12/20/2022 12:57 AM
22120868-07B	SB-06 (0-2)		12/5/2022 3:40:00 PM		12/19/2022 05:11 PM	12/20/2022 01:34 AM
22120868-08B	SB-06 (23-25)		12/5/2022 3:50:00 PM		12/19/2022 05:11 PM	12/20/2022 02:11 AM
22120868-10B	Duplicate		12/5/2022		12/19/2022 05:11 PM	12/20/2022 02:48 AM
22120868-11B	SB-05 (0-2)		12/6/2022 9:30:00 AM		12/19/2022 05:11 PM	12/20/2022 03:25 AM
22120868-12B	SB-05 (23-25)		12/6/2022 9:40:00 AM		12/19/2022 05:11 PM	12/20/2022 04:02 AM
22120868-13B	SB-04 (0-2)		12/6/2022 11:00:00 AM		12/19/2022 05:11 PM	12/20/2022 04:38 AM
22120868-14B	SB-04 (23-25)		12/6/2022 11:10:00 AM		12/19/2022 05:11 PM	12/20/2022 05:15 AM

Work Order: 22120868
Client: Tetra Tech
Project: Houston

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
Batch ID <u>208562</u>		Test Name: <u>Semi-Volatile Organic Compounds</u>				
22120868-01B	SB-03 (0-2)	Soil	12/5/2022 10:15:00 AM		12/19/2022 12:33 PM	12/21/2022 04:30 PM
22120868-02B	SB-03 (28-30)		12/5/2022 10:25:00 AM		12/19/2022 12:33 PM	12/21/2022 04:54 PM
22120868-03B	SB-02 (0-2)		12/5/2022 11:50:00 AM		12/19/2022 12:33 PM	12/21/2022 05:18 PM
22120868-04B	SB-02 (23-25)		12/5/2022 12:00:00 PM		12/19/2022 12:33 PM	12/21/2022 05:42 PM
22120868-05B	SB-01 (0-2)		12/5/2022 1:50:00 PM		12/19/2022 12:33 PM	12/21/2022 06:06 PM
22120868-06B	SB-01 (23-25)		12/5/2022 2:00:00 PM		12/19/2022 12:33 PM	12/21/2022 06:29 PM
22120868-07B	SB-06 (0-2)		12/5/2022 3:40:00 PM		12/19/2022 12:33 PM	12/21/2022 06:53 PM
22120868-08B	SB-06 (23-25)		12/5/2022 3:50:00 PM		12/19/2022 12:33 PM	12/21/2022 07:17 PM
22120868-10B	Duplicate		12/5/2022		12/19/2022 12:33 PM	12/21/2022 07:41 PM
22120868-11B	SB-05 (0-2)		12/6/2022 9:30:00 AM		12/19/2022 12:33 PM	12/21/2022 08:04 PM
22120868-12B	SB-05 (23-25)		12/6/2022 9:40:00 AM		12/19/2022 12:33 PM	12/21/2022 08:28 PM
22120868-13B	SB-04 (0-2)		12/6/2022 11:00:00 AM		12/19/2022 12:33 PM	12/21/2022 08:52 PM
22120868-14B	SB-04 (23-25)		12/6/2022 11:10:00 AM		12/19/2022 12:33 PM	12/21/2022 09:15 PM
Batch ID <u>R360491</u>		Test Name: <u>Moisture</u>				
22120868-01B	SB-03 (0-2)	Soil	12/5/2022 10:15:00 AM			12/15/2022 11:57 AM
22120868-02B	SB-03 (28-30)		12/5/2022 10:25:00 AM			12/15/2022 11:57 AM
22120868-03B	SB-02 (0-2)		12/5/2022 11:50:00 AM			12/15/2022 11:57 AM
22120868-04B	SB-02 (23-25)		12/5/2022 12:00:00 PM			12/15/2022 11:57 AM
22120868-05B	SB-01 (0-2)		12/5/2022 1:50:00 PM			12/15/2022 11:57 AM
22120868-06B	SB-01 (23-25)		12/5/2022 2:00:00 PM			12/15/2022 11:57 AM
22120868-07B	SB-06 (0-2)		12/5/2022 3:40:00 PM			12/15/2022 11:57 AM

Work Order: 22120868
Client: Tetra Tech
Project: Houston

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
<u>Batch ID</u> R360495 <u>Test Name:</u> <u>Moisture</u>						
22120868-10B	Duplicate	Soil	12/5/2022			12/15/2022 01:10 PM
22120868-11B	SB-05 (0-2)		12/6/2022 9:30:00 AM			12/15/2022 01:10 PM
22120868-12B	SB-05 (23-25)		12/6/2022 9:40:00 AM			12/15/2022 01:10 PM
22120868-13B	SB-04 (0-2)		12/6/2022 11:00:00 AM			12/15/2022 01:10 PM
22120868-14B	SB-04 (23-25)		12/6/2022 11:10:00 AM			12/15/2022 01:10 PM
<u>Batch ID</u> R360605 <u>Test Name:</u> <u>Moisture</u>						
22120868-08B	SB-06 (23-25)	Soil	12/5/2022 3:50:00 PM			12/16/2022 11:45 AM

ALS Group, USA

Date: 27-Dec-22

Client: Tetra Tech

Work Order: 22120868

Project: Houston

QC BATCH REPORT

Batch ID: 208555 Instrument ID GC8 Method: SW8015D

MBLK		Sample ID: DBLKS1-208555-208555				Units: mg/Kg		Analysis Date: 12/19/2022 06:10 PM			
Client ID:		Run ID: GC8_221219B				SeqNo: 9128780		Prep Date: 12/19/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	12.6	2.8	10								
ORO (C28-C40)	U	4.8	10								
Surr: 4-Terphenyl-d14	2.827	0	0	3.33	0	84.9	25-110	0			

LCS		Sample ID: DLCSS1-208555-208555				Units: mg/Kg		Analysis Date: 12/19/2022 06:47 PM			
Client ID:		Run ID: GC8_221219B				SeqNo: 9128782		Prep Date: 12/19/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	263.8	2.8	10	333	0	79.2	67-131	0			B
ORO (C28-C40)	226.7	4.8	10	333	0	68.1	57-102	0			
Surr: 4-Terphenyl-d14	2.113	0	0	3.33	0	63.4	25-110	0			

MS		Sample ID: 22120868-03B MS				Units: mg/Kg		Analysis Date: 12/19/2022 07:24 PM			
Client ID: SB-02 (0-2)		Run ID: GC8_221219B				SeqNo: 9128783		Prep Date: 12/19/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	278.5	2.8	9.8	326.5	2.487	84.5	67-131	0			B
ORO (C28-C40)	242.3	4.7	9.8	326.5	7.457	71.9	57-102	0			
Surr: 4-Terphenyl-d14	2.366	0	0	3.265	0	72.5	25-110	0			

MSD		Sample ID: 22120868-03B MSD				Units: mg/Kg		Analysis Date: 12/19/2022 08:01 PM			
Client ID: SB-02 (0-2)		Run ID: GC8_221219B				SeqNo: 9128784		Prep Date: 12/19/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	266.5	2.8	9.9	328.2	2.487	80.4	67-131	278.5	4.42	30	B
ORO (C28-C40)	233.6	4.7	9.9	328.2	7.457	68.9	57-102	242.3	3.64	30	
Surr: 4-Terphenyl-d14	2.138	0	0	3.282	0	65.1	25-110	2.366	10.1	30	

The following samples were analyzed in this batch:

22120868-01B	22120868-02B	22120868-03B
22120868-04B	22120868-05B	22120868-06B
22120868-07B	22120868-08B	22120868-10B
22120868-11B	22120868-12B	22120868-13B
22120868-14B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120868
 Project: Houston

QC BATCH REPORT

Batch ID: **208088** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-208088-208088				Units: µg/Kg-dry		Analysis Date: 12/12/2022 12:42 PM			
Client ID:		Run ID: GC9_221212A				SeqNo: 9102705		Prep Date: 12/11/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	2100	5,000	0	0	0		0			
Surr: Toluene-d8	4376	0	0	5000	0	87.5	78-115	0			

LCS		Sample ID: LCS-208088-208088				Units: µg/Kg-dry		Analysis Date: 12/12/2022 11:38 A			
Client ID:		Run ID: GC9_221212A				SeqNo: 9102704		Prep Date: 12/11/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	216400	2100	5,000	3E+05	0	86.6	68-127	0			
Surr: Toluene-d8	4465	0	0	5000	0	89.3	78-115	0			

MS		Sample ID: 22120868-10A MS				Units: µg/Kg-dry		Analysis Date: 12/12/2022 03:16 PM			
Client ID: Duplicate		Run ID: GC9_221212A				SeqNo: 9102712		Prep Date: 12/11/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	195300	2100	5,000	3E+05	0	78.1	68-127	0			
Surr: Toluene-d8	4368	0	0	5002	0	87.3	78-115	0			

MSD		Sample ID: 22120868-10A MSD				Units: µg/Kg-dry		Analysis Date: 12/12/2022 03:39 PM			
Client ID: Duplicate		Run ID: GC9_221212A				SeqNo: 9102713		Prep Date: 12/11/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	196100	2100	5,000	3E+05	0	78.4	68-127	195300	0.408	30	
Surr: Toluene-d8	4266	0	0	5002	0	85.3	78-115	4368	2.36	30	

The following samples were analyzed in this batch:

22120868-01A	22120868-02A	22120868-03A
22120868-04A	22120868-05A	22120868-06A
22120868-07A	22120868-08A	22120868-09A
22120868-10A	22120868-11A	22120868-12A
22120868-13A	22120868-14A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120868
 Project: Houston

QC BATCH REPORT

Batch ID: **208253** Instrument ID **HG5** Method: **SW7471B**

MBLK		Sample ID: MBLK-208253-208253				Units: mg/Kg		Analysis Date: 12/14/2022 01:40 PM			
Client ID:		Run ID: HG5_221214A				SeqNo: 9106860		Prep Date: 12/13/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.014	0.020								

LCS		Sample ID: LCS-208253-208253				Units: mg/Kg		Analysis Date: 12/14/2022 01:42 PM			
Client ID:		Run ID: HG5_221214A				SeqNo: 9106861		Prep Date: 12/13/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1517	0.014	0.020	0.167	0	91.1	80-120	0			

MS		Sample ID: 22121042-09CMS				Units: mg/Kg		Analysis Date: 12/14/2022 03:45 PM			
Client ID:		Run ID: HG5_221214B				SeqNo: 9107478		Prep Date: 12/13/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1777	0.013	0.019	0.157	0.03931	88.1	75-125	0			

MSD		Sample ID: 22121042-09CMSD				Units: mg/Kg		Analysis Date: 12/14/2022 03:48 PM			
Client ID:		Run ID: HG5_221214B				SeqNo: 9107479		Prep Date: 12/13/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1797	0.013	0.019	0.156	0.03931	89.9	75-125	0.1777	1.13	35	

The following samples were analyzed in this batch:

22120868-01B	22120868-02B	22120868-03B
22120868-04B	22120868-05B	22120868-06B
22120868-07B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120868
 Project: Houston

QC BATCH REPORT

Batch ID: **208254** Instrument ID **HG5** Method: **SW7471B**

MBLK		Sample ID: MBLK-208254-208254				Units: mg/Kg		Analysis Date: 12/14/2022 03:54 PM			
Client ID:		Run ID: HG5_221214B				SeqNo: 9107482		Prep Date: 12/13/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.014	0.020								

LCS		Sample ID: LCS-208254-208254				Units: mg/Kg		Analysis Date: 12/14/2022 03:56 PM			
Client ID:		Run ID: HG5_221214B				SeqNo: 9107483		Prep Date: 12/13/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1667	0.014	0.020	0.167	0	100	80-120	0			

MS		Sample ID: 22120868-12BMS				Units: mg/Kg		Analysis Date: 12/14/2022 04:10 PM			
Client ID: SB-05 (23-25)		Run ID: HG5_221214B				SeqNo: 9107491		Prep Date: 12/13/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1484	0.012	0.017	0.144	0.00208	102	75-125	0			

MSD		Sample ID: 22120868-12BMSD				Units: mg/Kg		Analysis Date: 12/14/2022 04:11 PM			
Client ID: SB-05 (23-25)		Run ID: HG5_221214B				SeqNo: 9107492		Prep Date: 12/13/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1393	0.011	0.016	0.135	0.00208	102	75-125	0.1484	6.34	35	

The following samples were analyzed in this batch:

22120868-08B	22120868-10B	22120868-11B
22120868-12B	22120868-13B	22120868-14B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 22120868
Project: Houston

QC BATCH REPORT

Batch ID: **208464** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK		Sample ID: MBLK-208464-208464				Units: mg/Kg		Analysis Date: 12/16/2022 07:19 PM			
Client ID:		Run ID: ICPMS3_221216B				SeqNo: 9118185		Prep Date: 12/16/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	U	1.6	2.0								
Antimony	U	0.067	0.25								
Arsenic	U	0.03	0.25								
Barium	U	0.23	0.25								
Beryllium	U	0.017	0.10								
Cadmium	U	0.015	0.10								
Calcium	U	12	25								
Chromium	U	0.11	0.25								
Cobalt	U	0.041	0.25								
Copper	U	0.25	0.25								
Iron	U	8	10								
Lead	U	0.12	0.25								
Magnesium	U	7	10								
Manganese	U	0.21	0.25								
Nickel	U	0.13	0.25								
Potassium	U	4.2	10								
Selenium	U	0.23	0.25								
Silver	U	0.033	0.25								
Sodium	U	13	15								
Thallium	U	0.039	0.25								
Vanadium	U	0.064	0.25								
Zinc	U	0.49	0.50								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120868
 Project: Houston

QC BATCH REPORT

Batch ID: **208464** Instrument ID **ICPMS3** Method: **SW6020B**

LCS		Sample ID: LCS-208464-208464				Units: mg/Kg		Analysis Date: 12/16/2022 07:21 PM			
Client ID:		Run ID: ICPMS3_221216B				SeqNo: 9118186		Prep Date: 12/16/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	4.848	0.067	0.25	5	0	97	80-120	0			
Arsenic	5.087	0.03	0.25	5	0	102	80-120	0			
Barium	5.028	0.23	0.25	5	0	101	80-120	0			
Beryllium	4.851	0.017	0.10	5	0	97	80-120	0			
Cadmium	4.928	0.015	0.10	5	0	98.6	80-120	0			
Calcium	517.4	12	25	500	0	103	80-120	0			
Chromium	5.368	0.11	0.25	5	0	107	80-120	0			
Cobalt	5.28	0.041	0.25	5	0	106	80-120	0			
Copper	5.182	0.25	0.25	5	0	104	80-120	0			
Iron	522.4	8	10	500	0	104	80-120	0			
Lead	4.994	0.12	0.25	5	0	99.9	80-120	0			
Magnesium	523.5	7	10	500	0	105	80-120	0			
Manganese	5.164	0.21	0.25	5	0	103	80-120	0			
Nickel	5.176	0.13	0.25	5	0	104	80-120	0			
Potassium	513.6	4.2	10	500	0	103	80-120	0			
Selenium	5.07	0.23	0.25	5	0	101	80-120	0			
Silver	4.973	0.033	0.25	5	0	99.5	80-120	0			
Sodium	518.8	13	15	500	0	104	80-120	0			
Thallium	4.879	0.039	0.25	5	0	97.6	80-120	0			
Vanadium	5.093	0.064	0.25	5	0	102	80-120	0			
Zinc	5.168	0.49	0.50	5	0	103	80-120	0			

LCS		Sample ID: LCS-208464-208464				Units: mg/Kg		Analysis Date: 12/19/2022 02:39 PM			
Client ID:		Run ID: ICPMS3_221219B				SeqNo: 9123254		Prep Date: 12/16/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	5.36	1.6	2.0	5	0	107	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120868
 Project: Houston

QC BATCH REPORT

Batch ID: 208464 Instrument ID ICPMS3 Method: SW6020B

MS Sample ID: 22121117-03AMS					Units: mg/Kg		Analysis Date: 12/16/2022 07:50 PM				
Client ID:		Run ID: ICPMS3_221216B			SeqNo: 9118202		Prep Date: 12/16/2022		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	4.88	0.073	0.27	5.441	0.05492	88.7	75-125	0			
Arsenic	6.262	0.033	0.27	5.441	1.253	92.1	75-125	0			
Beryllium	5.348	0.018	0.11	5.441	0.07363	96.9	75-125	0			
Cadmium	4.915	0.016	0.11	5.441	0.007987	90.2	75-125	0			
Calcium	6218	13	27	544.1	5582	117	75-125	0			O
Chromium	8.102	0.12	0.27	5.441	2.447	104	75-125	0			
Cobalt	6.255	0.045	0.27	5.441	1.195	93	75-125	0			
Copper	8.105	0.27	0.27	5.441	3.624	82.4	75-125	0			
Iron	3209	8.7	11	544.1	2701	93.5	75-125	0			O
Lead	6.723	0.13	0.27	5.441	1.63	93.6	75-125	0			
Magnesium	3893	7.6	11	544.1	3241	120	75-125	0			O
Manganese	82.22	0.23	0.27	5.441	79.03	58.6	75-125	0			SO
Nickel	8.089	0.14	0.27	5.441	3.05	92.6	75-125	0			
Potassium	763.2	4.6	11	544.1	183.2	107	75-125	0			
Selenium	5.104	0.25	0.27	5.441	0.02921	93.3	75-125	0			
Silver	5.086	0.036	0.27	5.441	0.002571	93.4	75-125	0			
Sodium	540.3	15	16	544.1	17	96.2	75-125	0			
Thallium	5.156	0.042	0.27	5.441	0.02172	94.4	75-125	0			

MS Sample ID: 22121117-03AMS					Units: mg/Kg		Analysis Date: 12/19/2022 03:05 PM				
Client ID:		Run ID: ICPMS3_221219B			SeqNo: 9123273		Prep Date: 12/16/2022		DF: 100		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1765	170	220	5.441	1477	5290	75-125	0			SO
Barium	U	25	27	5.441	5.421	-99.6	75-125	0			S
Vanadium	10.57	7	27	5.441	4.085	119	75-125	0			J
Zinc	U	53	54	5.441	10.91	-201	75-125	0			S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120868
 Project: Houston

QC BATCH REPORT

Batch ID: 208464 Instrument ID ICPMS3 Method: SW6020B

MSD Sample ID: 22121117-03AMSD					Units: mg/Kg			Analysis Date: 12/16/2022 07:52 PM			
Client ID:		Run ID: ICPMS3_221216B			SeqNo: 9118203		Prep Date: 12/16/2022		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	5.01	0.074	0.27	5.494	0.05492	90.2	75-125	4.88	2.63	20	
Arsenic	6.683	0.033	0.27	5.494	1.253	98.8	75-125	6.262	6.52	20	
Beryllium	5.499	0.019	0.11	5.494	0.07363	98.7	75-125	5.348	2.79	20	
Cadmium	5.035	0.016	0.11	5.494	0.007987	91.5	75-125	4.915	2.4	20	
Calcium	5604	13	27	549.4	5582	3.91	75-125	6218	10.4	20	SO
Chromium	8.506	0.12	0.27	5.494	2.447	110	75-125	8.102	4.86	20	
Cobalt	6.589	0.045	0.27	5.494	1.195	98.2	75-125	6.255	5.2	20	
Copper	8.913	0.27	0.27	5.494	3.624	96.3	75-125	8.105	9.5	20	
Iron	3618	8.8	11	549.4	2701	167	75-125	3209	12	20	SO
Lead	7.259	0.13	0.27	5.494	1.63	102	75-125	6.723	7.67	20	
Magnesium	3630	7.7	11	549.4	3241	70.8	75-125	3893	6.99	20	SO
Manganese	94.05	0.23	0.27	5.494	79.03	273	75-125	82.22	13.4	20	SO
Nickel	8.802	0.14	0.27	5.494	3.05	105	75-125	8.089	8.44	20	
Potassium	853.6	4.6	11	549.4	183.2	122	75-125	763.2	11.2	20	
Selenium	5.146	0.25	0.27	5.494	0.02921	93.1	75-125	5.104	0.818	20	
Silver	5.195	0.036	0.27	5.494	0.002571	94.5	75-125	5.086	2.12	20	
Sodium	557.6	15	16	549.4	17	98.4	75-125	540.3	3.14	20	
Thallium	5.434	0.043	0.27	5.494	0.02172	98.5	75-125	5.156	5.24	20	

MSD Sample ID: 22121117-03AMSD					Units: mg/Kg			Analysis Date: 12/19/2022 03:07 PM			
Client ID:		Run ID: ICPMS3_221219B			SeqNo: 9123274		Prep Date: 12/16/2022		DF: 100		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	2341	180	220	5.494	1477	15700	75-125	1765	28.1	20	SRO
Barium	U	25	27	5.494	5.421	-98.7	75-125	10.07	0	20	S
Vanadium	11.22	7	27	5.494	4.085	130	75-125	10.57	0	20	JS
Zinc	U	54	55	5.494	10.91	-199	75-125	14.15	0	20	S

The following samples were analyzed in this batch:

22120868-01B	22120868-02B	22120868-03B
22120868-04B	22120868-05B	22120868-06B
22120868-07B	22120868-08B	22120868-10B
22120868-11B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120868
 Project: Houston

QC BATCH REPORT

Batch ID: **208474** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK		Sample ID: MBLK-208474-208474				Units: mg/Kg		Analysis Date: 12/16/2022 08:10 PM			
Client ID:		Run ID: ICPMS3_221216B				SeqNo: 9118213		Prep Date: 12/16/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	U	1.6	2.0								
Antimony	U	0.067	0.25								
Arsenic	U	0.03	0.25								
Barium	U	0.23	0.25								
Beryllium	U	0.017	0.10								
Cadmium	U	0.015	0.10								
Calcium	U	12	25								
Chromium	U	0.11	0.25								
Cobalt	U	0.041	0.25								
Copper	U	0.25	0.25								
Lead	U	0.12	0.25								
Magnesium	U	7	10								
Manganese	U	0.21	0.25								
Nickel	U	0.13	0.25								
Potassium	U	4.2	10								
Selenium	U	0.23	0.25								
Silver	U	0.033	0.25								
Sodium	U	13	15								
Thallium	U	0.039	0.25								
Vanadium	U	0.064	0.25								
Zinc	U	0.49	0.50								

MBLK		Sample ID: MBLK-208474-208474				Units: mg/Kg		Analysis Date: 12/19/2022 03:11 PM			
Client ID:		Run ID: ICPMS3_221219B				SeqNo: 9123278		Prep Date: 12/16/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	U	8	10								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120868
 Project: Houston

QC BATCH REPORT

Batch ID: **208474** Instrument ID **ICPMS3** Method: **SW6020B**

LCS		Sample ID: LCS-208474-208474				Units: mg/Kg		Analysis Date: 12/16/2022 08:11 PM			
Client ID:		Run ID: ICPMS3_221216B				SeqNo: 9118214		Prep Date: 12/16/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	5.055	0.067	0.25	5	0	101	80-120	0			
Arsenic	4.951	0.03	0.25	5	0	99	80-120	0			
Barium	5.158	0.23	0.25	5	0	103	80-120	0			
Beryllium	5.083	0.017	0.10	5	0	102	80-120	0			
Cadmium	5.028	0.015	0.10	5	0	101	80-120	0			
Calcium	511.9	12	25	500	0	102	80-120	0			
Chromium	5.003	0.11	0.25	5	0	100	80-120	0			
Cobalt	5.006	0.041	0.25	5	0	100	80-120	0			
Copper	5.005	0.25	0.25	5	0	100	80-120	0			
Iron	492.7	8	10	500	0	98.5	80-120	0			
Lead	4.98	0.12	0.25	5	0	99.6	80-120	0			
Magnesium	496.4	7	10	500	0	99.3	80-120	0			
Manganese	4.879	0.21	0.25	5	0	97.6	80-120	0			
Nickel	4.971	0.13	0.25	5	0	99.4	80-120	0			
Potassium	504.8	4.2	10	500	0	101	80-120	0			
Selenium	4.932	0.23	0.25	5	0	98.6	80-120	0			
Silver	5.158	0.033	0.25	5	0	103	80-120	0			
Sodium	490.2	13	15	500	0	98	80-120	0			
Thallium	4.842	0.039	0.25	5	0	96.8	80-120	0			
Vanadium	5.211	0.064	0.25	5	0	104	80-120	0			
Zinc	5.096	0.49	0.50	5	0	102	80-120	0			

LCS		Sample ID: LCS-208474-208474				Units: mg/Kg		Analysis Date: 12/19/2022 03:13 PM			
Client ID:		Run ID: ICPMS3_221219B				SeqNo: 9123279		Prep Date: 12/16/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	5.262	1.6	2.0	5	0	105	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120868
 Project: Houston

QC BATCH REPORT

Batch ID: 208474 Instrument ID ICPMS3 Method: SW6020B

MS Sample ID: 22120868-12BMS					Units: mg/Kg		Analysis Date: 12/16/2022 08:15 PM				
Client ID: SB-05 (23-25)			Run ID: ICPMS3_221216B		SeqNo: 9118216		Prep Date: 12/16/2022		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	5.021	0.081	0.30	6.024	0.05061	82.5	75-125	0			
Arsenic	6.774	0.036	0.30	6.024	1.523	87.2	75-125	0			
Barium	12.46	0.28	0.30	6.024	5.579	114	75-125	0			
Beryllium	5.845	0.02	0.12	6.024	0.1389	94.7	75-125	0			
Cadmium	5.177	0.018	0.12	6.024	-0.01048	86.1	75-125	0			
Chromium	11.11	0.13	0.30	6.024	3.969	118	75-125	0			
Cobalt	6.526	0.049	0.30	6.024	1.196	88.5	75-125	0			
Copper	6.819	0.3	0.30	6.024	1.571	87.1	75-125	0			
Iron	4147	9.6	12	602.4	3386	126	75-125	0			SO
Lead	7.78	0.14	0.30	6.024	2.17	93.1	75-125	0			
Magnesium	1721	8.4	12	602.4	1061	110	75-125	0			
Manganese	63.57	0.25	0.30	6.024	58.17	89.7	75-125	0			O
Nickel	8.191	0.16	0.30	6.024	2.833	88.9	75-125	0			
Potassium	1011	5.1	12	602.4	259.5	125	75-125	0			
Selenium	5.281	0.28	0.30	6.024	0.0417	87	75-125	0			
Silver	5.245	0.04	0.30	6.024	0.002909	87	75-125	0			
Sodium	642.2	16	18	602.4	90.5	91.6	75-125	0			
Thallium	5.547	0.047	0.30	6.024	0.08036	90.7	75-125	0			
Vanadium	13.57	0.077	0.30	6.024	6.988	109	75-125	0			
Zinc	10.61	0.59	0.60	6.024	4.705	98	75-125	0			

MS Sample ID: 22120868-12BMS					Units: mg/Kg		Analysis Date: 12/19/2022 03:16 PM				
Client ID: SB-05 (23-25)			Run ID: ICPMS3_221219B		SeqNo: 9123281		Prep Date: 12/16/2022		DF: 100		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	2920	190	240	6.024	1551	22700	75-125	0			SO
Calcium	20080	1400	3,000	602.4	20900	-137	75-125	0			SO

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120868
 Project: Houston

QC BATCH REPORT

Batch ID: 208474 Instrument ID ICPMS3 Method: SW6020B

MSD					Sample ID: 22120868-12BMSD			Units: mg/Kg		Analysis Date: 12/16/2022 08:17 PM		
Client ID: SB-05 (23-25)			Run ID: ICPMS3_221216B			SeqNo: 9118217		Prep Date: 12/16/2022		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Antimony	4.876	0.081	0.30	6.039	0.05061	79.9	75-125	5.021	2.93	20		
Arsenic	6.473	0.036	0.30	6.039	1.523	82	75-125	6.774	4.55	20		
Barium	12.17	0.28	0.30	6.039	5.579	109	75-125	12.46	2.38	20		
Beryllium	5.611	0.021	0.12	6.039	0.1389	90.6	75-125	5.845	4.1	20		
Cadmium	4.996	0.018	0.12	6.039	-0.01048	82.9	75-125	5.177	3.56	20		
Chromium	12.47	0.13	0.30	6.039	3.969	141	75-125	11.11	11.5	20	S	
Cobalt	6.257	0.05	0.30	6.039	1.196	83.8	75-125	6.526	4.21	20		
Copper	6.538	0.3	0.30	6.039	1.571	82.3	75-125	6.819	4.21	20		
Iron	3946	9.7	12	603.9	3386	92.6	75-125	4147	4.98	20	O	
Lead	7.45	0.14	0.30	6.039	2.17	87.4	75-125	7.78	4.33	20		
Magnesium	1674	8.5	12	603.9	1061	102	75-125	1721	2.79	20		
Manganese	61.88	0.25	0.30	6.039	58.17	61.4	75-125	63.57	2.7	20	SO	
Nickel	7.875	0.16	0.30	6.039	2.833	83.5	75-125	8.191	3.93	20		
Potassium	963.4	5.1	12	603.9	259.5	117	75-125	1011	4.83	20		
Selenium	5.084	0.28	0.30	6.039	0.0417	83.5	75-125	5.281	3.8	20		
Silver	5.055	0.04	0.30	6.039	0.002909	83.7	75-125	5.245	3.7	20		
Sodium	612.9	16	18	603.9	90.5	86.5	75-125	642.2	4.66	20		
Thallium	5.356	0.047	0.30	6.039	0.08036	87.4	75-125	5.547	3.5	20		
Vanadium	13.12	0.077	0.30	6.039	6.988	102	75-125	13.57	3.4	20		
Zinc	10.15	0.59	0.60	6.039	4.705	90.2	75-125	10.61	4.43	20		

MSD					Sample ID: 22120868-12BMSD				Units: mg/Kg		Analysis Date: 12/19/2022 03:18 PM	
Client ID: SB-05 (23-25)			Run ID: ICPMS3_221219B			SeqNo: 9123283		Prep Date: 12/16/2022		DF: 100		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aluminum	3015	190	240	6.039	1551	24200	75-125	2920	3.19	20	SO	
Calcium	21190	1400	3,000	603.9	20900	47.2	75-125	20080	5.37	20	SO	

The following samples were analyzed in this batch: 22120868-12B 22120868-13B 22120868-14B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120868
 Project: Houston

QC BATCH REPORT

Batch ID: **208562** Instrument ID **SVMS9** Method: **SW8270E**

MBLK				Sample ID: SBLKS1-208562-208562				Units: µg/Kg		Analysis Date: 12/21/2022 10:58 A		
Client ID:		Run ID: SVMS9_221221A			SeqNo: 9138733		Prep Date: 12/19/2022		DF: 1			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1`-Biphenyl	U	23	33									
1,2,4,5-Tetrachlorobenzene	U	30	170									
1,4-Dioxane	U	78	170									
1-Methylnaphthalene	U	4.8	6.7									
2,2`-Oxybis(1-chloropropane)	U	23	33									
2,3,4,6-Tetrachlorophenol	U	24	67									
2,4,5-Trichlorophenol	U	20	33									
2,4,6-Trichlorophenol	U	8.9	33									
2,4-Dichlorophenol	U	18	33									
2,4-Dimethylphenol	U	17	33									
2,4-Dinitrophenol	U	59	670									
2,4-Dinitrotoluene	U	22	33									
2,6-Dinitrotoluene	U	22	33									
2-Chloronaphthalene	U	4.7	6.7									
2-Chlorophenol	U	22	33									
2-Methylnaphthalene	U	3.4	6.7									
2-Methylphenol	U	20	33									
2-Nitroaniline	U	19	33									
2-Nitrophenol	U	21	33									
3&4-Methylphenol	U	18	33									
3,3`-Dichlorobenzidine	U	16	170									
3-Nitroaniline	U	19	33									
4,6-Dinitro-2-methylphenol	U	28	33									
4-Bromophenyl phenyl ether	U	18	33									
4-Chloro-3-methylphenol	U	25	33									
4-Chloroaniline	U	17	67									
4-Chlorophenyl phenyl ether	U	22	33									
4-Nitroaniline	U	52	170									
4-Nitrophenol	U	16	170									
Acenaphthene	U	4.8	6.7									
Acenaphthylene	U	4.3	6.7									
Acetophenone	U	21	33									
Anthracene	U	4.7	6.7									
Atrazine	U	20	33									
Benzaldehyde	U	51	67									
Benzo(a)anthracene	U	5.8	6.7									
Benzo(a)pyrene	U	4.1	6.7									
Benzo(b)fluoranthene	U	5	6.7									
Benzo(g,h,i)perylene	U	5.1	6.7									
Benzo(k)fluoranthene	U	5	6.7									
Bis(2-chloroethoxy)methane	U	21	33									
Bis(2-chloroethyl)ether	U	24	33									
Bis(2-ethylhexyl)phthalate	U	28	33									

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 22120868
Project: Houston

QC BATCH REPORT

Batch ID: 208562		Instrument ID SVMS9		Method: SW8270E	
Butyl benzyl phthalate	U	42	67		
Caprolactam	U	51	67		
Carbazole	U	24	33		
Chrysene	U	5.4	6.7		
Dibenzo(a,h)anthracene	U	3.6	6.7		
Dibenzofuran	U	21	33		
Diethyl phthalate	U	26	33		
Dimethyl phthalate	U	25	33		
Di-n-butyl phthalate	U	20	33		
Di-n-octyl phthalate	U	29	33		
Fluoranthene	U	3.2	6.7		
Fluorene	U	4.8	6.7		
Hexachlorobenzene	U	21	33		
Hexachlorobutadiene	U	26	33		
Hexachlorocyclopentadiene	U	32	33		
Hexachloroethane	U	14	33		
Indeno(1,2,3-cd)pyrene	U	4.6	6.7		
Isophorone	U	24	170		
Naphthalene	U	4.3	6.7		
Nitrobenzene	U	25	170		
N-Nitrosodi-n-propylamine	U	32	33		
N-Nitrosodiphenylamine	U	19	33		
Pentachlorophenol	U	26	33		
Phenanthrene	U	3.1	6.7		
Phenol	U	17	33		
Pyrene	U	6.3	6.7		
<i>Surr: 2,4,6-Tribromophenol</i>	<i>2481</i>	0	0	3333	0 74.4 48-94 0
<i>Surr: 2-Fluorobiphenyl</i>	<i>2652</i>	0	0	3333	0 79.6 50-103 0
<i>Surr: 2-Fluorophenol</i>	<i>2518</i>	0	0	3333	0 75.5 43-105 0
<i>Surr: 4-Terphenyl-d14</i>	<i>2698</i>	0	0	3333	0 80.9 55-111 0
<i>Surr: Nitrobenzene-d5</i>	<i>2501</i>	0	0	3333	0 75 47-100 0
<i>Surr: Phenol-d6</i>	<i>2803</i>	0	0	3333	0 84.1 49-110 0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120868
 Project: Houston

QC BATCH REPORT

Batch ID: **208562** Instrument ID **SVMS9** Method: **SW8270E**

LCS Sample ID: SLCSS1-208562-208562					Units: µg/Kg		Analysis Date: 12/21/2022 11:21 A				
Client ID:		Run ID: SVMS9_221221A			SeqNo: 9138743		Prep Date: 12/19/2022		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	1119	23	33	1333	0	83.9	57-101	0			
1,2,4,5-Tetrachlorobenzene	1055	30	170	1333	0	79.2	54-98	0			
1-Methylnaphthalene	1096	4.8	6.7	1333	0	82.2	56-100	0			
2,2'-Oxybis(1-chloropropane)	1023	23	33	1333	0	76.7	50-101	0			
2,3,4,6-Tetrachlorophenol	1106	24	67	1333	0	83	48-103	0			
2,4,5-Trichlorophenol	1109	20	33	1333	0	83.2	54-98	0			
2,4,6-Trichlorophenol	1149	8.9	33	1333	0	86.2	56-97	0			
2,4-Dichlorophenol	1103	18	33	1333	0	82.7	54-99	0			
2,4-Dimethylphenol	1117	17	33	1333	0	83.8	47-102	0			
2,4-Dinitrophenol	772.7	59	670	1333	0	58	10-100	0			
2,4-Dinitrotoluene	1171	22	33	1333	0	87.9	62-105	0			
2,6-Dinitrotoluene	1143	22	33	1333	0	85.8	62-103	0			
2-Chloronaphthalene	1089	4.7	6.7	1333	0	81.7	57-101	0			
2-Chlorophenol	1159	22	33	1333	0	87	52-102	0			
2-Methylnaphthalene	1087	3.4	6.7	1333	0	81.5	55-102	0			
2-Methylphenol	1123	20	33	1333	0	84.2	54-103	0			
2-Nitroaniline	1186	19	33	1333	0	89	57-103	0			
2-Nitrophenol	1099	21	33	1333	0	82.5	52-102	0			
3&4-Methylphenol	1132	18	33	1333	0	84.9	56-103	0			
3,3'-Dichlorobenzidine	1082	16	170	1333	0	81.2	41-91	0			
3-Nitroaniline	1095	19	33	1333	0	82.2	35-107	0			
4,6-Dinitro-2-methylphenol	1103	28	33	1333	0	82.7	42-104	0			
4-Bromophenyl phenyl ether	1247	18	33	1333	0	93.5	63-104	0			
4-Chloro-3-methylphenol	1155	25	33	1333	0	86.7	57-103	0			
4-Chloroaniline	1044	17	67	1333	0	78.3	32-99	0			
4-Chlorophenyl phenyl ether	1153	22	33	1333	0	86.5	62-100	0			
4-Nitroaniline	1127	52	170	1333	0	84.5	19-124	0			
4-Nitrophenol	1097	16	170	1333	0	82.3	44-106	0			
Acenaphthene	1098	4.8	6.7	1333	0	82.4	60-101	0			
Acenaphthylene	1147	4.3	6.7	1333	0	86	59-101	0			
Acetophenone	1072	21	33	1333	0	80.4	54-102	0			
Anthracene	1161	4.7	6.7	1333	0	87.1	63-103	0			
Atrazine	1170	20	33	1333	0	87.8	60-110	0			
Benzaldehyde	1007	51	67	1333	0	75.6	10-143	0			
Benzo(a)anthracene	1186	5.8	6.7	1333	0	89	66-102	0			
Benzo(a)pyrene	1247	4.1	6.7	1333	0	93.6	66-105	0			
Benzo(b)fluoranthene	1223	5	6.7	1333	0	91.8	67-105	0			
Benzo(g,h,i)perylene	1207	5.1	6.7	1333	0	90.5	59-110	0			
Benzo(k)fluoranthene	1200	5	6.7	1333	0	90	68-106	0			
Bis(2-chloroethoxy)methane	1123	21	33	1333	0	84.2	54-102	0			
Bis(2-chloroethyl)ether	942.7	24	33	1333	0	70.7	51-101	0			
Bis(2-ethylhexyl)phthalate	1275	28	33	1333	0	95.6	63-114	0			
Butyl benzyl phthalate	1195	42	67	1333	0	89.6	59-107	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120868
 Project: Houston

QC BATCH REPORT

Batch ID: 208562		Instrument ID SVMS9		Method: SW8270E					
Caprolactam	1171	51	67	1333	0	87.9	49-103	0	
Carbazole	1151	24	33	1333	0	86.3	63-103	0	
Chrysene	1173	5.4	6.7	1333	0	88	66-105	0	
Dibenzo(a,h)anthracene	1191	3.6	6.7	1333	0	89.3	61-109	0	
Dibenzofuran	1133	21	33	1333	0	85	61-101	0	
Diethyl phthalate	1214	26	33	1333	0	91.1	63-105	0	
Dimethyl phthalate	1175	25	33	1333	0	88.1	64-104	0	
Di-n-butyl phthalate	1189	20	33	1333	0	89.2	66-108	0	
Di-n-octyl phthalate	1439	29	33	1333	0	108	53-126	0	
Fluoranthene	1154	3.2	6.7	1333	0	86.6	66-105	0	
Fluorene	1135	4.8	6.7	1333	0	85.2	62-101	0	
Hexachlorobenzene	1163	21	33	1333	0	87.2	61-104	0	
Hexachlorobutadiene	1076	26	33	1333	0	80.7	52-99	0	
Hexachlorocyclopentadiene	1027	32	33	1333	0	77.1	39-106	0	
Hexachloroethane	1039	14	33	1333	0	78	59-99	0	
Indeno(1,2,3-cd)pyrene	1225	4.6	6.7	1333	0	91.9	57-114	0	
Isophorone	1106	24	170	1333	0	83	55-101	0	
Naphthalene	1059	4.3	6.7	1333	0	79.4	54-99	0	
Nitrobenzene	1085	25	170	1333	0	81.4	53-100	0	
N-Nitrosodi-n-propylamine	1108	32	33	1333	0	83.1	52-104	0	
N-Nitrosodiphenylamine	1169	19	33	1333	0	87.7	61-104	0	
Pentachlorophenol	956.7	26	33	1333	0	71.8	35-100	0	
Phenanthrene	1138	3.1	6.7	1333	0	85.4	64-101	0	
Phenol	1261	17	33	1333	0	94.6	51-107	0	
Pyrene	1277	6.3	6.7	1333	0	95.8	62-114	0	
Surr: 2,4,6-Tribromophenol	2753	0	0	3333	0	82.6	48-94	0	
Surr: 2-Fluorobiphenyl	2601	0	0	3333	0	78	50-103	0	
Surr: 2-Fluorophenol	2593	0	0	3333	0	77.8	43-105	0	
Surr: 4-Terphenyl-d14	2704	0	0	3333	0	81.1	55-111	0	
Surr: Nitrobenzene-d5	2572	0	0	3333	0	77.2	47-100	0	
Surr: Phenol-d6	2813	0	0	3333	0	84.4	49-110	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120868
 Project: Houston

QC BATCH REPORT

Batch ID: 208562 Instrument ID SVM59 Method: SW8270E

MS Sample ID: 22120999-03B MS					Units: µg/Kg		Analysis Date: 12/21/2022 02:30 PM				
Client ID:		Run ID: SVM59_221221A			SeqNo: 9138747		Prep Date: 12/19/2022		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	1086	23	32	1310	0	82.9	57-101	0			
1,2,4,5-Tetrachlorobenzene	1028	29	160	1310	0	78.4	54-98	0			
1-Methylnaphthalene	1069	4.7	6.6	1310	0	81.6	56-100	0			
2,2'-Oxybis(1-chloropropane)	952.2	22	32	1310	0	72.7	50-101	0			
2,3,4,6-Tetrachlorophenol	998.7	24	66	1310	0	76.2	48-103	0			
2,4,5-Trichlorophenol	1062	19	32	1310	0	81.1	54-98	0			
2,4,6-Trichlorophenol	1085	8.7	32	1310	0	82.8	56-97	0			
2,4-Dichlorophenol	1102	18	32	1310	0	84.1	54-99	0			
2,4-Dimethylphenol	1001	17	32	1310	0	76.4	47-102	0			
2,4-Dinitrophenol	161.9	58	660	1310	0	12.4	10-100	0			J
2,4-Dinitrotoluene	1090	21	32	1310	0	83.2	62-105	0			
2,6-Dinitrotoluene	1096	21	32	1310	0	83.6	62-103	0			
2-Chloronaphthalene	1088	4.6	6.6	1310	0	83.1	57-101	0			
2-Chlorophenol	1150	22	32	1310	0	87.8	52-102	0			
2-Methylnaphthalene	1083	3.3	6.6	1310	0	82.7	55-102	0			
2-Methylphenol	1070	20	32	1310	0	81.7	54-103	0			
2-Nitroaniline	1105	18	32	1310	0	84.3	57-103	0			
2-Nitrophenol	1115	21	32	1310	0	85.1	52-102	0			
3&4-Methylphenol	1099	18	32	1310	0	83.9	56-103	0			
3,3'-Dichlorobenzidine	1078	15	160	1310	0	82.3	41-91	0			
3-Nitroaniline	1038	19	32	1310	0	79.2	35-107	0			
4,6-Dinitro-2-methylphenol	862.4	27	32	1310	0	65.8	42-104	0			
4-Bromophenyl phenyl ether	1181	18	32	1310	0	90.1	63-104	0			
4-Chloro-3-methylphenol	1088	24	32	1310	0	83	57-103	0			
4-Chloroaniline	1037	17	66	1310	0	79.1	32-99	0			
4-Chlorophenyl phenyl ether	1111	21	32	1310	0	84.8	62-100	0			
4-Nitroaniline	1033	51	160	1310	0	78.9	19-124	0			
4-Nitrophenol	1001	16	160	1310	0	76.4	44-106	0			
Acenaphthene	1047	4.7	6.6	1310	0	79.9	60-101	0			
Acenaphthylene	1101	4.2	6.6	1310	0	84	59-101	0			
Acetophenone	1056	21	32	1310	0	80.6	54-102	0			
Anthracene	1121	4.6	6.6	1310	0	85.5	63-103	0			
Atrazine	1094	19	32	1310	0	83.5	60-110	0			
Benzaldehyde	983.6	50	66	1310	0	75.1	10-143	0			
Benzo(a)anthracene	1147	5.7	6.6	1310	0	87.6	66-102	0			
Benzo(a)pyrene	1199	4	6.6	1310	0	91.5	66-105	0			
Benzo(b)fluoranthene	1121	4.9	6.6	1310	0	85.5	67-105	0			
Benzo(g,h,i)perylene	1276	5	6.6	1310	0	97.4	59-110	0			
Benzo(k)fluoranthene	1123	5	6.6	1310	0	85.7	68-106	0			
Bis(2-chloroethoxy)methane	1094	21	32	1310	0	83.5	54-102	0			
Bis(2-chloroethyl)ether	975.1	23	32	1310	0	74.4	51-101	0			
Bis(2-ethylhexyl)phthalate	1265	27	32	1310	0	96.5	63-114	0			
Butyl benzyl phthalate	1180	41	66	1310	0	90	59-107	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 22120868
Project: Houston

QC BATCH REPORT

Batch ID: 208562		Instrument ID SVMS9		Method: SW8270E					
Caprolactam	1172	50	66	1310	0	89.5	49-103	0	
Carbazole	1073	24	32	1310	0	81.9	63-103	0	
Chrysene	1145	5.3	6.6	1310	0	87.4	66-105	0	
Dibenzo(a,h)anthracene	1221	3.5	6.6	1310	0	93.2	61-109	0	
Dibenzofuran	1092	20	32	1310	0	83.4	61-101	0	
Diethyl phthalate	1138	26	32	1310	0	86.9	63-105	0	
Dimethyl phthalate	1126	25	32	1310	0	85.9	64-104	0	
Di-n-butyl phthalate	1146	20	32	1310	0	87.5	66-108	0	
Di-n-octyl phthalate	1345	28	32	1310	0	103	53-126	0	
Fluoranthene	1090	3.1	6.6	1310	0	83.2	66-105	0	
Fluorene	1086	4.8	6.6	1310	0	82.9	62-101	0	
Hexachlorobenzene	1124	20	32	1310	0	85.8	61-104	0	
Hexachlorobutadiene	1060	25	32	1310	0	80.9	52-99	0	
Hexachlorocyclopentadiene	848.6	31	32	1310	0	64.8	39-106	0	
Hexachloroethane	1025	14	32	1310	0	78.2	59-99	0	
Indeno(1,2,3-cd)pyrene	1305	4.6	6.6	1310	0	99.6	57-114	0	
Isophorone	1080	23	160	1310	0	82.4	55-101	0	
Naphthalene	1056	4.2	6.6	1310	0	80.6	54-99	0	
Nitrobenzene	1081	25	160	1310	0	82.5	53-100	0	
N-Nitrosodi-n-propylamine	1094	32	32	1310	0	83.5	52-104	0	
N-Nitrosodiphenylamine	1130	19	32	1310	0	86.2	61-104	0	
Pentachlorophenol	735.9	26	32	1310	0	56.2	35-100	0	
Phenanthrene	1107	3	6.6	1310	0	84.5	64-101	0	
Phenol	1226	16	32	1310	0	93.6	51-107	0	
Pyrene	1221	6.2	6.6	1310	0	93.2	62-114	0	
Surr: 2,4,6-Tribromophenol	2725	0	0	3276	0	83.2	48-94	0	
Surr: 2-Fluorobiphenyl	2701	0	0	3276	0	82.4	50-103	0	
Surr: 2-Fluorophenol	2683	0	0	3276	0	81.9	43-105	0	
Surr: 4-Terphenyl-d14	2751	0	0	3276	0	84	55-111	0	
Surr: Nitrobenzene-d5	2638	0	0	3276	0	80.5	47-100	0	
Surr: Phenol-d6	2886	0	0	3276	0	88.1	49-110	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120868
 Project: Houston

QC BATCH REPORT

Batch ID: 208562 Instrument ID SVM59 Method: SW8270E

MSD Sample ID: 22120999-03B MSD					Units: µg/Kg			Analysis Date: 12/21/2022 02:54 PM			
Client ID:		Run ID: SVM59_221221A			SeqNo: 9138748		Prep Date: 12/19/2022		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	1076	23	32	1304	0	82.5	57-101	1086	0.882	30	
1,2,4,5-Tetrachlorobenzene	981.1	29	160	1304	0	75.2	54-98	1028	4.62	30	
1-Methylnaphthalene	1036	4.7	6.5	1304	0	79.4	56-100	1069	3.19	30	
2,2'-Oxybis(1-chloropropane)	929.6	22	32	1304	0	71.3	50-101	952.2	2.4	30	
2,3,4,6-Tetrachlorophenol	965.4	24	66	1304	0	74	48-103	998.7	3.39	30	
2,4,5-Trichlorophenol	1052	19	32	1304	0	80.6	54-98	1062	1.01	30	
2,4,6-Trichlorophenol	1087	8.7	32	1304	0	83.3	56-97	1085	0.145	30	
2,4-Dichlorophenol	1079	18	32	1304	0	82.7	54-99	1102	2.14	30	
2,4-Dimethylphenol	990.9	17	32	1304	0	76	47-102	1001	0.983	30	
2,4-Dinitrophenol	123.3	58	650	1304	0	9.45	10-100	161.9	0	30	JS
2,4-Dinitrotoluene	1075	21	32	1304	0	82.4	62-105	1090	1.42	30	
2,6-Dinitrotoluene	1104	21	32	1304	0	84.6	62-103	1096	0.732	30	
2-Chloronaphthalene	1059	4.6	6.5	1304	0	81.2	57-101	1088	2.77	30	
2-Chlorophenol	1121	22	32	1304	0	85.9	52-102	1150	2.59	30	
2-Methylnaphthalene	1042	3.3	6.5	1304	0	79.9	55-102	1083	3.84	30	
2-Methylphenol	1044	20	32	1304	0	80	54-103	1070	2.5	30	
2-Nitroaniline	1080	18	32	1304	0	82.8	57-103	1105	2.31	30	
2-Nitrophenol	1087	21	32	1304	0	83.3	52-102	1115	2.59	30	
3&4-Methylphenol	1081	18	32	1304	0	82.9	56-103	1099	1.66	30	
3,3'-Dichlorobenzidine	1059	15	160	1304	0	81.2	41-91	1078	1.74	30	
3-Nitroaniline	1018	19	32	1304	0	78.1	35-107	1038	1.92	30	
4,6-Dinitro-2-methylphenol	798.4	27	32	1304	0	61.2	42-104	862.4	7.7	30	
4-Bromophenyl phenyl ether	1144	18	32	1304	0	87.7	63-104	1181	3.21	30	
4-Chloro-3-methylphenol	1074	24	32	1304	0	82.4	57-103	1088	1.24	30	
4-Chloroaniline	1002	17	66	1304	0	76.8	32-99	1037	3.41	30	
4-Chlorophenyl phenyl ether	1088	21	32	1304	0	83.4	62-100	1111	2.06	30	
4-Nitroaniline	1012	51	160	1304	0	77.6	19-124	1033	2.12	30	
4-Nitrophenol	968.7	16	160	1304	0	74.3	44-106	1001	3.31	30	
Acenaphthene	1012	4.7	6.5	1304	0	77.6	60-101	1047	3.32	30	
Acenaphthylene	1075	4.2	6.5	1304	0	82.4	59-101	1101	2.38	30	
Acetophenone	1026	21	32	1304	0	78.7	54-102	1056	2.91	30	
Anthracene	1097	4.6	6.5	1304	0	84.1	63-103	1121	2.17	30	
Atrazine	1068	19	32	1304	0	81.9	60-110	1094	2.33	30	
Benzaldehyde	952.4	50	66	1304	0	73	10-143	983.6	3.23	30	
Benzo(a)anthracene	1132	5.6	6.5	1304	0	86.8	66-102	1147	1.32	30	
Benzo(a)pyrene	1179	4	6.5	1304	0	90.4	66-105	1199	1.67	30	
Benzo(b)fluoranthene	1104	4.9	6.5	1304	0	84.7	67-105	1121	1.46	30	
Benzo(g,h,i)perylene	1256	5	6.5	1304	0	96.3	59-110	1276	1.59	30	
Benzo(k)fluoranthene	1074	4.9	6.5	1304	0	82.4	68-106	1123	4.39	30	
Bis(2-chloroethoxy)methane	1083	21	32	1304	0	83	54-102	1094	1.06	30	
Bis(2-chloroethyl)ether	1012	23	32	1304	0	77.6	51-101	975.1	3.75	30	
Bis(2-ethylhexyl)phthalate	1220	27	32	1304	0	93.5	63-114	1265	3.62	30	
Butyl benzyl phthalate	1157	41	66	1304	0	88.7	59-107	1180	1.97	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 22120868
Project: Houston

QC BATCH REPORT

Batch ID: 208562		Instrument ID SVMS9		Method: SW8270E						
Caprolactam	1122	50	66	1304	0	86	49-103	1172	4.39	30
Carbazole	1061	24	32	1304	0	81.3	63-103	1073	1.13	30
Chrysene	1113	5.3	6.5	1304	0	85.3	66-105	1145	2.83	30
Dibenzo(a,h)anthracene	1200	3.5	6.5	1304	0	92	61-109	1221	1.7	30
Dibenzofuran	1068	20	32	1304	0	81.9	61-101	1092	2.21	30
Diethyl phthalate	1130	26	32	1304	0	86.6	63-105	1138	0.746	30
Dimethyl phthalate	1110	25	32	1304	0	85.1	64-104	1126	1.39	30
Di-n-butyl phthalate	1123	20	32	1304	0	86.1	66-108	1146	2.01	30
Di-n-octyl phthalate	1309	28	32	1304	0	100	53-126	1345	2.67	30
Fluoranthene	1062	3.1	6.5	1304	0	81.4	66-105	1090	2.58	30
Fluorene	1070	4.7	6.5	1304	0	82.1	62-101	1086	1.49	30
Hexachlorobenzene	1094	20	32	1304	0	83.9	61-104	1124	2.7	30
Hexachlorobutadiene	1038	25	32	1304	0	79.6	52-99	1060	2.14	30
Hexachlorocyclopentadiene	821.3	31	32	1304	0	63	39-106	848.6	3.28	30
Hexachloroethane	1010	14	32	1304	0	77.5	59-99	1025	1.42	30
Indeno(1,2,3-cd)pyrene	1275	4.5	6.5	1304	0	97.8	57-114	1305	2.28	30
Isophorone	1055	23	160	1304	0	80.9	55-101	1080	2.36	30
Naphthalene	1009	4.2	6.5	1304	0	77.4	54-99	1056	4.51	30
Nitrobenzene	1046	25	160	1304	0	80.2	53-100	1081	3.35	30
N-Nitrosodi-n-propylamine	1074	32	32	1304	0	82.3	52-104	1094	1.9	30
N-Nitrosodiphenylamine	1098	19	32	1304	0	84.2	61-104	1130	2.86	30
Pentachlorophenol	778.9	26	32	1304	0	59.7	35-100	735.9	5.67	30
Phenanthrene	1076	3	6.5	1304	0	82.5	64-101	1107	2.91	30
Phenol	1190	16	32	1304	0	91.2	51-107	1226	3	30
Pyrene	1192	6.2	6.5	1304	0	91.4	62-114	1221	2.46	30
Surr: 2,4,6-Tribromophenol	2571	0	0	3261	0	78.8	48-94	2725	5.84	40
Surr: 2-Fluorobiphenyl	2534	0	0	3261	0	77.7	50-103	2701	6.38	40
Surr: 2-Fluorophenol	2507	0	0	3261	0	76.9	43-105	2683	6.81	40
Surr: 4-Terphenyl-d14	2575	0	0	3261	0	79	55-111	2751	6.6	40
Surr: Nitrobenzene-d5	2466	0	0	3261	0	75.6	47-100	2638	6.74	40
Surr: Phenol-d6	2731	0	0	3261	0	83.7	49-110	2886	5.53	40

The following samples were analyzed in this batch:

22120868-01B	22120868-02B	22120868-03B
22120868-04B	22120868-05B	22120868-06B
22120868-07B	22120868-08B	22120868-10B
22120868-11B	22120868-12B	22120868-13B
22120868-14B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120868
 Project: Houston

QC BATCH REPORT

Batch ID: 208061 Instrument ID VMS8 Method: SW8260C

MBLK		Sample ID: MBLK-208061-208061			Units: µg/Kg-dry		Analysis Date: 12/12/2022 10:39 PM				
Client ID:		Run ID: VMS8_221212B			SeqNo: 9143235		Prep Date: 12/9/2022		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	14	30								
1,1,2,2-Tetrachloroethane	U	13	30								
1,1,2-Trichloroethane	U	13	30								
1,1,2-Trichlorotrifluoroethane	U	19	30								
1,1-Dichloroethane	U	11	30								
1,1-Dichloroethene	U	9.7	30								
1,2,3-Trichlorobenzene	U	36	100								
1,2,3-Trichloropropane	U	13	30								
1,2,4-Trichlorobenzene	U	34	100								
1,2,4-Trimethylbenzene	U	22	30								
1,2-Dibromo-3-chloropropane	U	28	100								
1,2-Dibromoethane	U	8.4	30								
1,2-Dichlorobenzene	U	11	30								
1,2-Dichloroethane	U	45	100								
1,2-Dichloropropane	U	22	30								
1,3,5-Trimethylbenzene	U	35	100								
1,3-Dichlorobenzene	U	10	30								
1,4-Dichlorobenzene	U	7.2	30								
2-Butanone	U	25	200								
2-Hexanone	U	15	30								
4-Methyl-2-pentanone	U	28	30								
Acetone	U	89	100								
Benzene	U	15	30								
Bromochloromethane	U	15	30								
Bromodichloromethane	U	17	30								
Bromoform	U	13	30								
Bromomethane	U	57	100								
Carbon disulfide	U	16	30								
Carbon tetrachloride	U	12	30								
Chlorobenzene	U	10	30								
Chloroethane	U	30	100								
Chloroform	U	11	30								
Chloromethane	U	82	100								
cis-1,2-Dichloroethene	U	19	30								
cis-1,3-Dichloropropene	U	23	30								
Cyclohexane	U	27	100								
Dibromochloromethane	U	17	30								
Dichlorodifluoromethane	U	36	100								
Ethylbenzene	U	6.3	30								
Isopropylbenzene	U	9.2	30								
m,p-Xylene	U	40	60								
Methyl acetate	U	36	250								
Methyl tert-butyl ether	U	8.6	30								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 22120868
Project: Houston

QC BATCH REPORT

Batch ID: 208061		Instrument ID VMS8		Method: SW8260C	
Methylcyclohexane	U	11	30		
Methylene chloride	U	80	250		
o-Xylene	U	12	30		
Styrene	U	12	30		
Tetrachloroethene	U	18	30		
Toluene	U	8.2	30		
trans-1,2-Dichloroethene	U	11	30		
trans-1,3-Dichloropropene	U	17	30		
Trichloroethene	U	13	30		
Trichlorofluoromethane	U	15	30		
Vinyl chloride	U	20	30		
Xylenes, Total	U	40	90		
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1080</i>	0	0	<i>1000</i>	0
<i>Surr: 4-Bromofluorobenzene</i>	<i>1010</i>	0	0	<i>1000</i>	0
<i>Surr: Dibromofluoromethane</i>	<i>894.5</i>	0	0	<i>1000</i>	0
<i>Surr: Toluene-d8</i>	<i>1030</i>	0	0	<i>1000</i>	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120868
 Project: Houston

QC BATCH REPORT

Batch ID: 208061 Instrument ID VMS8 Method: SW8260C

LCS Sample ID: LCS-208061-208061					Units: µg/Kg-dry		Analysis Date: 12/12/2022 09:44 PM				
Client ID:		Run ID: VMS8_221212B			SeqNo: 9143234		Prep Date: 12/9/2022		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	906	14	30	1000	0	90.6	75-121	0			
1,1,2,2-Tetrachloroethane	1050	13	30	1000	0	105	79-125	0			
1,1,2-Trichloroethane	1017	13	30	1000	0	102	80-123	0			
1,1,2-Trichlorotrifluoroethane	903.5	19	30	1000	0	90.4	62-129	0			
1,1-Dichloroethane	941.5	11	30	1000	0	94.2	74-124	0			
1,1-Dichloroethene	979	9.7	30	1000	0	97.9	68-131	0			
1,2,3-Trichlorobenzene	982.5	36	100	1000	0	98.2	60-135	0			
1,2,3-Trichloropropane	1019	13	30	1000	0	102	77-121	0			
1,2,4-Trichlorobenzene	993	34	100	1000	0	99.3	63-130	0			
1,2,4-Trimethylbenzene	954	22	30	1000	0	95.4	64-126	0			
1,2-Dibromo-3-chloropropane	892	28	100	1000	0	89.2	55-135	0			
1,2-Dibromoethane	1040	8.4	30	1000	0	104	63-155	0			
1,2-Dichlorobenzene	1010	11	30	1000	0	101	77-122	0			
1,2-Dichloroethane	964	45	100	1000	0	96.4	70-130	0			
1,2-Dichloropropane	968	22	30	1000	0	96.8	71-130	0			
1,3,5-Trimethylbenzene	986.5	35	100	1000	0	98.6	66-130	0			
1,3-Dichlorobenzene	976.5	10	30	1000	0	97.6	78-121	0			
1,4-Dichlorobenzene	1002	7.2	30	1000	0	100	78-122	0			
2-Butanone	1010	25	200	1000	0	101	47-164	0			
2-Hexanone	969	15	30	1000	0	96.9	70-137	0			
4-Methyl-2-pentanone	1421	28	30	1000	0	142	57-200	0			
Acetone	1080	89	100	1000	0	108	52-190	0			
Benzene	988	15	30	1000	0	98.8	78-122	0			
Bromochloromethane	862	15	30	1000	0	86.2	68-130	0			
Bromodichloromethane	888	17	30	1000	0	88.8	75-125	0			
Bromoform	733	13	30	1000	0	73.3	59-120	0			
Bromomethane	817.5	57	100	1000	0	81.8	31-169	0			
Carbon disulfide	814	16	30	1000	0	81.4	60-163	0			
Carbon tetrachloride	907	12	30	1000	0	90.7	69-123	0			
Chlorobenzene	1008	10	30	1000	0	101	79-120	0			
Chloroethane	1594	30	100	1000	0	159	38-132	0			S
Chloroform	907.5	11	30	1000	0	90.8	72-122	0			
Chloromethane	859	82	100	1000	0	85.9	24-119	0			
cis-1,2-Dichloroethene	937	19	30	1000	0	93.7	74-125	0			
cis-1,3-Dichloropropene	899.5	23	30	1000	0	90	62-124	0			
Dibromochloromethane	808.5	17	30	1000	0	80.8	57-123	0			
Dichlorodifluoromethane	1376	36	100	1000	0	138	28-137	0			S
Ethylbenzene	972.5	6.3	30	1000	0	97.2	75-121	0			
Isopropylbenzene	1080	9.2	30	1000	0	108	74-121	0			
m,p-Xylene	1958	40	60	2000	0	97.9	67-129	0			
Methyl acetate	1155	36	250	1000	0	116	61-125	0			
Methyl tert-butyl ether	974	8.6	30	1000	0	97.4	79-139	0			
Methylene chloride	1056	80	250	1000	0	106	62-135	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120868
 Project: Houston

QC BATCH REPORT

Batch ID: 208061		Instrument ID VMS8			Method: SW8260C			
o-Xylene	953.5	12	30	1000	0	95.4	75-120	0
Styrene	947.5	12	30	1000	0	94.8	74-126	0
Tetrachloroethene	990.5	18	30	1000	0	99	76-128	0
Toluene	984	8.2	30	1000	0	98.4	76-120	0
trans-1,2-Dichloroethene	945.5	11	30	1000	0	94.6	72-127	0
trans-1,3-Dichloropropene	928	17	30	1000	0	92.8	66-120	0
Trichloroethene	875.5	13	30	1000	0	87.6	75-122	0
Trichlorofluoromethane	937.5	15	30	1000	0	93.8	51-115	0
Vinyl chloride	1188	20	30	1000	0	119	43-128	0
Xylenes, Total	2912	40	90	3000	0	97	67-129	0
Surr: 1,2-Dichloroethane-d4	1062	0	0	1000	0	106	80-120	0
Surr: 4-Bromofluorobenzene	1026	0	0	1000	0	103	80-120	0
Surr: Dibromofluoromethane	983.5	0	0	1000	0	98.4	80-120	0
Surr: Toluene-d8	1044	0	0	1000	0	104	80-120	0

The following samples were analyzed in this batch:

22120868-01A	22120868-02A	22120868-03A
22120868-04A	22120868-05A	22120868-06A
22120868-07A	22120868-08A	22120868-09A
22120868-10A	22120868-11A	22120868-12A
22120868-13A	22120868-14A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120868
 Project: Houston

QC BATCH REPORT

Batch ID: **R360491** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R360491				Units: % of sample			Analysis Date: 12/15/2022 11:57 A			
Client ID:		Run ID: MOIST_221215A				SeqNo: 9114576			Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	U	0.1	0.10									

LCS		Sample ID: LCS-R360491				Units: % of sample			Analysis Date: 12/15/2022 11:57 A			
Client ID:		Run ID: MOIST_221215A				SeqNo: 9114575			Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	100	0.1	0.10	100	0	100	98-102	0				

DUP		Sample ID: 22120868-01B DUP				Units: % of sample			Analysis Date: 12/15/2022 11:57 A			
Client ID: SB-03 (0-2)		Run ID: MOIST_221215A				SeqNo: 9114552			Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	16.83	0.1	0.10	0	0	0	0-0	18.07	7.11	10		

DUP		Sample ID: 22120934-01A DUP				Units: % of sample			Analysis Date: 12/15/2022 11:57 A			
Client ID:		Run ID: MOIST_221215A				SeqNo: 9114569			Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	7.26	0.1	0.10	0	0	0	0-0	8.09	10.8	10	R	

The following samples were analyzed in this batch:

22120868-01B	22120868-02B	22120868-03B
22120868-04B	22120868-05B	22120868-06B
22120868-07B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120868
 Project: Houston

QC BATCH REPORT

Batch ID: **R360495** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R360495				Units: % of sample			Analysis Date: 12/15/2022 01:10 PM			
Client ID:		Run ID: MOIST_221215B				SeqNo: 9114624			Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	U	0.1	0.10									

LCS		Sample ID: LCS-R360495				Units: % of sample			Analysis Date: 12/15/2022 01:10 PM			
Client ID:		Run ID: MOIST_221215B				SeqNo: 9114623			Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	100	0.1	0.10	100	0	100	98-102	0				

DUP		Sample ID: 22120868-08B DUP				Units: % of sample			Analysis Date: 12/15/2022 01:10 PM			
Client ID: SB-06 (23-25)		Run ID: MOIST_221215B				SeqNo: 9114602			Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	19.31	0.1	0.10	0	0	0	0-0	26.1	29.9	10	R	

DUP		Sample ID: 22121023-01A DUP				Units: % of sample			Analysis Date: 12/15/2022 01:10 PM			
Client ID:		Run ID: MOIST_221215B				SeqNo: 9114622			Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	6.71	0.1	0.10	0	0	0	0-0	7.26	7.87	10		

The following samples were analyzed in this batch:

22120868-08B	22120868-10B	22120868-11B
22120868-12B	22120868-13B	22120868-14B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120868
 Project: Houston

QC BATCH REPORT

Batch ID: **R360605** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R360605				Units: % of sample			Analysis Date: 12/16/2022 11:45 A			
Client ID:		Run ID: MOIST_221216A				SeqNo: 9118947			Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	U	0.1	0.10									

LCS		Sample ID: LCS-R360605				Units: % of sample			Analysis Date: 12/16/2022 11:45 A			
Client ID:		Run ID: MOIST_221216A				SeqNo: 9118946			Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	100	0.1	0.10	100	0	100	98-102	0				

DUP		Sample ID: 22120915-31A DUP				Units: % of sample			Analysis Date: 12/16/2022 11:45 A			
Client ID:		Run ID: MOIST_221216A				SeqNo: 9118924			Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	28.79	0.1	0.10	0	0	0	0-0	29.26	1.62	10	H	

DUP		Sample ID: 22121123-01A DUP				Units: % of sample			Analysis Date: 12/16/2022 11:45 A			
Client ID:		Run ID: MOIST_221216A				SeqNo: 9118937			Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	14.57	0.1	0.10	0	0	0	0-0	14.11	3.21	10		

The following samples were analyzed in this batch:

22120868-08B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Chain of Custody Form

ALS Group USA, Corp

Work Order

Company Name	Tetra Tech	Purchase Order		Parameter/Method Request for Analysis	
Send Report To	Stephen Knerr	Company Name	Tetra Tech	A	VOC and TPH-GRO SW-846 8260
Project Name	Houston Land Bank	Invoice Attn		B	SVOC and TPH-DRO SW-846 8270
Address	415 Oak Street	Project #	Z12C-HN-02098	C	TPH-GRO SW-846 8015
City/State/Zip	Kansas City, MO 64106	Address	415 Oak Street	D	PCB'S SW-846 8082
Phone	8164121755	City/State/Zip	Kansas City, MO 64106	E	TAL Metals SW-846 6010/7471
e-Mail Address		Phone	8164121755	F	
		e-Mail Address		G	
				H	
				I	
				J	

#	Sample Description	Date	Time	Matrix	Preservative	# Bottles	A	B	C	D	E	F	G	H	I	J	Sample Notes
1	SB-05 (0-2)	12.6.22	930	S	7	5	X	X	X	X	X						
2	SB-05 (23-25)		940	S	7	5	X	X	X	X	X						
3	SB-04 (0-2)		1100	S	7	5	X	X	X	X	X						
4	SB-04 (23-25)		1110	S	7	5	X	X	X	X	X						
5																	
6																	
7																	
8																	
9																	
10																	

22120868

TETRATECH - MO: Tetra Tech
Project:



Notes: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.						Required Turnaround Time:		Results Due:	
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NAOH 5-NA2S2O3 6-NAHSO4 7-Other 8-4 degrees C 9-5035						Std 10 Wk days 5 Wk days 2 Wk days 24 hr			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	NOTES:			
<i>[Signature]</i>	12/7/22	905	<i>[Signature]</i>	12/7/22	905	QC Reporting Level: (check box below) <input type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Std QC + Raw data <input type="checkbox"/> Level IV: SW846 CLP-Like Other:			
	12.7.22	18.00	<i>[Signature]</i>	12/8/22	1430				

44 803

3.8% IR 31
CFO.5

Sample Receipt Checklist

Client Name: **TETRATECH - MO**

Date/Time Received: **08-Dec-22 14:30**

Work Order: **22120868**

Received by: **KRW**

Checklist completed by *Keith Waringa*
eSignature

09-Dec-22
Date

Reviewed by: *Jodi Blauw*
eSignature

13-Dec-22
Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text" value="3.8/4.8 C"/>		<input type="text" value="IR3"/>
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="12/9/2022 1:18:50 PM"/>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



22-Dec-2022

Kaitlyn Mitchell
Tetra Tech
415 Oak Street
Kansas City, MO 64106

Re: **Houston**

Work Order: **22120870**

Dear Kaitlyn,

ALS Environmental received 10 samples on 08-Dec-2022 02:30 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 89.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Jodi Blouw

Jodi Blouw

Report of Laboratory Analysis

Certificate No: FL E871106

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Client: Tetra Tech
Project: Houston
Work Order: 22120870

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory case narrative, and the following reportable data:

- R1 Field chain-of-custody documentation:
- R2 Sample identification cross-reference
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies:
See Case Narrative.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached Case Narrative and QC Summaries. By my 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, and no information affecting the quality of the data has been knowingly withheld.



Jodi Blouw

SemiVolatile Data Assessment Checklist									
SVO, VOC, DRO, Metals, GRO			Batch Number SVMS9_221219A, GC8_221212B, GC9-221212B, HG4_221212B, ICPMS3_221216A, VMS9_221215B			Instrument ID: SVMS9, GC8, GC9, HG4, ICPMS3, VMS9			
Method: 8270, 8260, 8015, 6020,7470			Work order Number (s):- 22120870						
Analyst Name: EEW, MTB, KA, SP, ND			Date: 12/20/2022		Reviewer Name: various			Date: 12/12 – 12/20	
	A ¹	Description	Yes	No	N/A ²	NR ³	ER# ⁴		
R3	O	Test Reports							
		1) Were all samples prepared and analyzed within holding times?	X						
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X						
		3) Were calculations checked by a peer or supervisor?	X						
		4) Were all analyte identifications checked by a peer or supervisor?	X						
		5) Were sample quantitation limits reported for all analytes not detected?	X						
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X						
		7) Was % moisture (or solids) reported for all soil and sediment samples?	X						
		8) If required for the project, TICs reported?	X						
R4	O	SURROGATE RECOVERY DATA							
		1) Were surrogates added prior to extraction?	X						
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			1		
R5	O	TEST REPORTS/SUMMARY FORMS FOR BLANK SAMPLES							
		1) Were appropriate type(s) of blanks analyzed?	X						
		2) Were blanks analyzed at the appropriate frequency?	X						
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X						
		4) Were blank concentrations < ½ MQL?	X						
R6	O	LABORATORY CONTROL SAMPLES (LCS):							
		1) Were all COCs included in the LCS?	X						
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X						
		3) Were LCSs analyzed at the required frequency?	X						
		4) Were LCS and LCSD %Rs within the laboratory QC limits?	X						
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X						
		6) Was the LCSD RPD within QC limits?		X			1		
R7	O	MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA							
		1) Were the project or method specified analytes included in the MS and MSD?	X						
		2) Were MS/MSD analyzed at the appropriate frequency?		X			1		
		3) Were MS and MSD %Rs within the laboratory QC limits?	X						
		4) Were MS/MSD RPDs within laboratory QC limits?	X						
R8	O	ANALYTICAL DUPLICATE DATA (IF REQUIRED)							
		1) Were appropriate analytical duplicates analyzed for each matrix?	X						
		2) Were analytical duplicates analyzed at the appropriate frequency?	X						
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X						
R9	O	METHOD QUANTITATION LIMITS (MQLS):							
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X						
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X						
		3) Are unadjusted MQLs included in the laboratory data package?	X						
R10	O	OTHER PROBLEMS/ANOMALIES							
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X						
		2) Were all necessary corrective actions performed for the reported data?	X						
		3) If requested, is the justification for elevated SQLs documented?	X						

SemiVolatile Data Assessment Checklist						
		Batch Number:				
A ¹	Description	Yes	No	NA ²	NR ³	ER# ⁴

S1	O	INITIAL CALIBRATION (ICAL)					
		1) Were response factors (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	O	INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICCV AND CCV) AND					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?		X			1
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the organic CCB < MDL?	X				
S3	O	MASS SPECTRAL TUNING:					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	INTERNAL STANDARDS (IS):					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	O	RAW DATA					
		1) Were the raw data (e.g., chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S7	O	TENTATIVELY IDENTIFIED COMPOUNDS (TICS):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?	X				
S10	O	PROFICIENCY TEST REPORTS:					
		Are proficiency testing or inter-laboratory comparison results on file?	X				
S11	O	METHOD DETECTION LIMIT (MDL) STUDIES					
		1) Was a MDL study performed for each reported analyte?	X				
S11	O	2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S12	O	STANDARDS DOCUMENTATION					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	O	COMPOUND/ANALYTE IDENTIFICATION PROCEDURES					
		Are the procedures for compound/analyte identification documented?	X				
S14	O	DEMONSTRATION OF ANALYST COMPETENCY (DOC)					
		1) Was DOC conducted consistent with NELAC 5C or ISO/IEC 4.2.2?	X				
S14	O	2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	O	VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS					
		Are all the methods used to generate the data documented, verified, and validated, where applicable,	X				
S16	O	LABORATORY STANDARD OPERATING PROCEDURES (SOPS):					
		Are laboratory SOPs current and on file for each method performed?	X				

1 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

2 NA = Not applicable.

3 NR = Not Reviewed.

4 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

SemiVolatile Data Assessment Checklist	
	Batch Number:
ER # ¹	DESCRIPTION
1	See attached Case Narrative
2	.
3	
4	
5	
6	

- 1 ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked on the LRC)

Client: Tetra Tech
Project: Houston
Work Order: 22120870

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
22120870-01	FB-01	Water		12/6/2022 11:20	12/8/2022 14:30	<input type="checkbox"/>
22120870-02	TW-03	Water		12/6/2022 12:45	12/8/2022 14:30	<input type="checkbox"/>
22120870-03	TW-02	Water		12/6/2022 13:15	12/8/2022 14:30	<input type="checkbox"/>
22120870-04	TW-01	Water		12/6/2022 13:45	12/8/2022 14:30	<input type="checkbox"/>
22120870-05	TW-06	Water		12/6/2022 14:15	12/8/2022 14:30	<input type="checkbox"/>
22120870-06	TW-05	Water		12/6/2022 14:45	12/8/2022 14:30	<input type="checkbox"/>
22120870-07	TW-04	Water		12/6/2022 15:15	12/8/2022 14:30	<input type="checkbox"/>
22120870-08	EB-01	Water		12/6/2022 15:50	12/8/2022 14:30	<input type="checkbox"/>
22120870-09	DUP-02	Water		12/6/2022 08:00	12/8/2022 14:30	<input type="checkbox"/>
22120870-10	Trip Blank	Water		12/6/2022	12/8/2022 14:30	<input type="checkbox"/>

Client: Tetra Tech
Project: Houston
WorkOrder: 22120870

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

Client: Tetra Tech
Project: Houston
Work Order: 22120870

Case Narrative

Samples for the above noted Work Order were received on 12/8/2022. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:

Batch R360524a, Method SW8260C, Sample 22120870-09A MS: Internals out of control so the sample can't be used as QC

Batch R360524a, Method SW8260C, Samples (22120870-01A,-02A,-03A,-04A,-05A,-06A,-07A,-08A,-09A,-10A): The Continuing Calibration Verification did not meet acceptance criteria with low bias. Instrument sensitivity was verified as sufficient through the analysis of a low-level standard. The following non-detects are reported without qualification: Chloroethane, Dichlorodifluoromethane, Trichlorofluoromethane
No other deviations or anomalies were noted.

Extractable Organics:

Batch 208196, Method SW846 8270D, Sample TW-02 (22120870-03C): One or more surrogate recoveries were below the lower control limits. The sample results may be biased low.

Batch 208196, Method SW846 8270D, Sample TW-01 (22120870-04C): One or more surrogate recoveries were below the lower control limits. The sample results may be biased low.

Batch 208196, Method SW846 8270D, Sample SLCSDW1-208196: The RPD between the LCS and LCSD was outside of the control limit. The sample results should be considered estimated for this analyte: Hexachlorocyclopentadiene

Client: Tetra Tech
Project: Houston
Work Order: 22120870

Case Narrative

No other deviations or anomalies were noted.

Metals:

No deviations or anomalies were noted.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: FB-01
Collection Date: 12/6/2022 11:20 AM

Work Order: 22120870
Lab ID: 22120870-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW3511 / 12/12/22		Analyst: MTB
DRO (C10-C28)	U		0.082	0.10	mg/L	1	12/12/2022 19:21
ORO (C28-C40)	0.054	J	0.052	0.10	mg/L	1	12/12/2022 19:21
Surr: 4-Terphenyl-d14	82.7			30-121	%REC	1	12/12/2022 19:21
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D				Analyst: MTB
GRO (C6-C10)	U		76	200	µg/L	1	12/13/2022 01:56
Surr: Toluene-d8	93.8			73-116	%REC	1	12/13/2022 01:56
MERCURY BY CVAA (DISSOLVED)			Method: SW7470A		Prep: SW7470 / 12/12/22		Analyst: KRA
Mercury	U		0.00016	0.00020	mg/L	1	12/12/2022 16:28
METALS BY ICP-MS (DISSOLVED)			Method: SW6020B		Prep: SW3005A / 12/16/22		Analyst: STP
Aluminum	U		0.0057	0.010	mg/L	1	12/16/2022 14:41
Antimony	U		0.00042	0.0050	mg/L	1	12/16/2022 14:41
Arsenic	U		0.00019	0.0050	mg/L	1	12/16/2022 14:41
Barium	U		0.00057	0.0050	mg/L	1	12/16/2022 14:41
Beryllium	U		0.00013	0.0020	mg/L	1	12/16/2022 14:41
Cadmium	U		0.00014	0.0020	mg/L	1	12/16/2022 14:41
Calcium	U		0.22	0.50	mg/L	1	12/16/2022 14:41
Chromium	U		0.00061	0.0050	mg/L	1	12/16/2022 14:41
Copper	U		0.00099	0.0050	mg/L	1	12/16/2022 14:41
Iron	U		0.047	0.080	mg/L	1	12/16/2022 14:41
Lead	U		0.00022	0.0050	mg/L	1	12/16/2022 14:41
Magnesium	U		0.037	0.20	mg/L	1	12/16/2022 14:41
Manganese	U		0.0017	0.0050	mg/L	1	12/16/2022 14:41
Nickel	U		0.00085	0.0050	mg/L	1	12/16/2022 14:41
Potassium	0.11	J	0.034	0.20	mg/L	1	12/16/2022 14:41
Selenium	U		0.00048	0.0050	mg/L	1	12/16/2022 14:41
Silver	U		0.00026	0.0050	mg/L	1	12/16/2022 14:41
Sodium	0.83		0.13	0.20	mg/L	1	12/16/2022 14:41
Thallium	0.0026	J	0.00015	0.0050	mg/L	1	12/16/2022 14:41
Vanadium	U		0.00070	0.0050	mg/L	1	12/16/2022 14:41
Zinc	U		0.0022	0.010	mg/L	1	12/16/2022 14:41
SEMI-VOLATILE ORGANIC COMPOUNDS			Method: SW846 8270D		Prep: SW3510 / 12/13/22		Analyst: EEW
1,1'-Biphenyl	U		0.41	4.9	µg/L	1	12/19/2022 22:45
1,2,4,5-Tetrachlorobenzene	U		0.33	9.7	µg/L	1	12/19/2022 22:45
1,4-Dioxane	U		0.70	4.9	µg/L	1	12/19/2022 22:45
1-Methylnaphthalene	U		0.081	4.9	µg/L	1	12/19/2022 22:45
2,2'-Oxybis(1-chloropropane)	U		0.22	4.9	µg/L	1	12/19/2022 22:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: FB-01

Collection Date: 12/6/2022 11:20 AM

Work Order: 22120870

Lab ID: 22120870-01

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,3,4,6-Tetrachlorophenol	U		0.44	4.9	µg/L	1	12/19/2022 22:45
2,4,5-Trichlorophenol	U		0.17	4.9	µg/L	1	12/19/2022 22:45
2,4,6-Trichlorophenol	U		0.24	4.9	µg/L	1	12/19/2022 22:45
2,4-Dichlorophenol	U		0.34	4.9	µg/L	1	12/19/2022 22:45
2,4-Dimethylphenol	U		0.35	4.9	µg/L	1	12/19/2022 22:45
2,4-Dinitrophenol	U		2.5	4.9	µg/L	1	12/19/2022 22:45
2,4-Dinitrotoluene	U		0.41	4.9	µg/L	1	12/19/2022 22:45
2,6-Dinitrotoluene	U		0.11	4.9	µg/L	1	12/19/2022 22:45
2-Chloronaphthalene	U		0.073	4.9	µg/L	1	12/19/2022 22:45
2-Chlorophenol	U		0.22	4.9	µg/L	1	12/19/2022 22:45
2-Methylnaphthalene	U		0.063	4.9	µg/L	1	12/19/2022 22:45
2-Methylphenol	U		0.24	4.9	µg/L	1	12/19/2022 22:45
2-Nitroaniline	U		0.20	4.9	µg/L	1	12/19/2022 22:45
2-Nitrophenol	U		0.33	4.9	µg/L	1	12/19/2022 22:45
3&4-Methylphenol	U		0.20	4.9	µg/L	1	12/19/2022 22:45
3,3'-Dichlorobenzidine	U		0.45	4.9	µg/L	1	12/19/2022 22:45
3-Nitroaniline	U		0.62	4.9	µg/L	1	12/19/2022 22:45
4,6-Dinitro-2-methylphenol	U		0.26	4.9	µg/L	1	12/19/2022 22:45
4-Bromophenyl phenyl ether	U		0.32	4.9	µg/L	1	12/19/2022 22:45
4-Chloro-3-methylphenol	U		0.25	4.9	µg/L	1	12/19/2022 22:45
4-Chloroaniline	U		0.33	4.9	µg/L	1	12/19/2022 22:45
4-Chlorophenyl phenyl ether	U		0.30	4.9	µg/L	1	12/19/2022 22:45
4-Nitroaniline	U		0.56	4.9	µg/L	1	12/19/2022 22:45
4-Nitrophenol	U		0.23	4.9	µg/L	1	12/19/2022 22:45
Acenaphthene	U		0.079	4.9	µg/L	1	12/19/2022 22:45
Acenaphthylene	U		0.073	4.9	µg/L	1	12/19/2022 22:45
Acetophenone	U		0.36	0.97	µg/L	1	12/19/2022 22:45
Anthracene	U		0.027	4.9	µg/L	1	12/19/2022 22:45
Atrazine	U		0.34	0.97	µg/L	1	12/19/2022 22:45
Benzaldehyde	0.66	J	0.51	0.97	µg/L	1	12/19/2022 22:45
Benzo(a)anthracene	U		0.096	4.9	µg/L	1	12/19/2022 22:45
Benzo(a)pyrene	U		0.043	4.9	µg/L	1	12/19/2022 22:45
Benzo(b)fluoranthene	U		0.050	4.9	µg/L	1	12/19/2022 22:45
Benzo(g,h,i)perylene	U		0.087	4.9	µg/L	1	12/19/2022 22:45
Benzo(k)fluoranthene	U		0.047	4.9	µg/L	1	12/19/2022 22:45
Bis(2-chloroethoxy)methane	U		0.28	4.9	µg/L	1	12/19/2022 22:45
Bis(2-chloroethyl)ether	U		0.36	4.9	µg/L	1	12/19/2022 22:45
Bis(2-ethylhexyl)phthalate	0.67	J	0.39	4.9	µg/L	1	12/19/2022 22:45
Butyl benzyl phthalate	U		0.29	4.9	µg/L	1	12/19/2022 22:45
Caprolactam	U		0.94	9.7	µg/L	1	12/19/2022 22:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: FB-01
Collection Date: 12/6/2022 11:20 AM

Work Order: 22120870
Lab ID: 22120870-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Carbazole	U		0.23	4.9	µg/L	1	12/19/2022 22:45
Chrysene	U		0.047	4.9	µg/L	1	12/19/2022 22:45
Dibenzo(a,h)anthracene	U		0.071	4.9	µg/L	1	12/19/2022 22:45
Dibenzofuran	U		0.22	4.9	µg/L	1	12/19/2022 22:45
Diethyl phthalate	U		0.17	4.9	µg/L	1	12/19/2022 22:45
Dimethyl phthalate	U		0.18	4.9	µg/L	1	12/19/2022 22:45
Di-n-butyl phthalate	0.54	J	0.20	4.9	µg/L	1	12/19/2022 22:45
Di-n-octyl phthalate	U		0.52	4.9	µg/L	1	12/19/2022 22:45
Fluoranthene	U		0.037	4.9	µg/L	1	12/19/2022 22:45
Fluorene	U		0.050	4.9	µg/L	1	12/19/2022 22:45
Hexachlorobenzene	U		0.43	4.9	µg/L	1	12/19/2022 22:45
Hexachlorobutadiene	U		0.61	4.9	µg/L	1	12/19/2022 22:45
Hexachlorocyclopentadiene	U		1.1	4.9	µg/L	1	12/19/2022 22:45
Hexachloroethane	U		0.60	4.9	µg/L	1	12/19/2022 22:45
Indeno(1,2,3-cd)pyrene	U		0.065	4.9	µg/L	1	12/19/2022 22:45
Isophorone	U		0.33	4.9	µg/L	1	12/19/2022 22:45
Naphthalene	U		0.065	4.9	µg/L	1	12/19/2022 22:45
Nitrobenzene	U		0.25	4.9	µg/L	1	12/19/2022 22:45
N-Nitrosodi-n-propylamine	U		0.34	4.9	µg/L	1	12/19/2022 22:45
N-Nitrosodiphenylamine	U		0.48	4.9	µg/L	1	12/19/2022 22:45
Pentachlorophenol	U		0.95	4.9	µg/L	1	12/19/2022 22:45
Phenanthrene	U		0.079	4.9	µg/L	1	12/19/2022 22:45
Phenol	U		0.20	4.9	µg/L	1	12/19/2022 22:45
Pyrene	U		0.035	4.9	µg/L	1	12/19/2022 22:45
<i>Surr: 2,4,6-Tribromophenol</i>	<i>48.4</i>			<i>47-103</i>	<i>%REC</i>	<i>1</i>	<i>12/19/2022 22:45</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>42.3</i>			<i>41-96</i>	<i>%REC</i>	<i>1</i>	<i>12/19/2022 22:45</i>
<i>Surr: 2-Fluorophenol</i>	<i>29.8</i>			<i>28-66</i>	<i>%REC</i>	<i>1</i>	<i>12/19/2022 22:45</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>64.6</i>			<i>49-107</i>	<i>%REC</i>	<i>1</i>	<i>12/19/2022 22:45</i>
<i>Surr: Nitrobenzene-d5</i>	<i>46.9</i>			<i>41-95</i>	<i>%REC</i>	<i>1</i>	<i>12/19/2022 22:45</i>
<i>Surr: Phenol-d6</i>	<i>20.3</i>			<i>18-44</i>	<i>%REC</i>	<i>1</i>	<i>12/19/2022 22:45</i>
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: SBR	
1,1,1-Trichloroethane	U		0.46	1.0	µg/L	1	12/16/2022 16:36
1,1,1,2-Tetrachloroethane	U		0.40	1.0	µg/L	1	12/16/2022 16:36
1,1,2-Trichloroethane	U		0.46	1.0	µg/L	1	12/16/2022 16:36
1,1,2-Trichlorotrifluoroethane	U		0.52	1.0	µg/L	1	12/16/2022 16:36
1,1-Dichloroethane	U		0.44	1.0	µg/L	1	12/16/2022 16:36
1,1-Dichloroethene	U		0.40	1.0	µg/L	1	12/16/2022 16:36
1,2,3-Trichlorobenzene	U		0.42	1.0	µg/L	1	12/16/2022 16:36
1,2,3-Trichloropropane	U		0.40	1.0	µg/L	1	12/16/2022 16:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: FB-01

Collection Date: 12/6/2022 11:20 AM

Work Order: 22120870

Lab ID: 22120870-01

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	U		0.45	1.0	µg/L	1	12/16/2022 16:36
1,2,4-Trimethylbenzene	U		0.45	1.0	µg/L	1	12/16/2022 16:36
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	12/16/2022 16:36
1,2-Dibromoethane	U		0.41	1.0	µg/L	1	12/16/2022 16:36
1,2-Dichlorobenzene	U		0.32	1.0	µg/L	1	12/16/2022 16:36
1,2-Dichloroethane	U		0.44	1.0	µg/L	1	12/16/2022 16:36
1,2-Dichloropropane	U		0.48	1.0	µg/L	1	12/16/2022 16:36
1,3,5-Trimethylbenzene	U		0.65	1.0	µg/L	1	12/16/2022 16:36
1,3-Dichlorobenzene	U		0.33	1.0	µg/L	1	12/16/2022 16:36
1,4-Dichlorobenzene	U		0.35	1.0	µg/L	1	12/16/2022 16:36
2-Butanone	3.0	J	0.52	5.0	µg/L	1	12/16/2022 16:36
2-Hexanone	U		0.59	5.0	µg/L	1	12/16/2022 16:36
4-Methyl-2-pentanone	U		0.52	1.0	µg/L	1	12/16/2022 16:36
Acetone	12		6.2	10	µg/L	1	12/16/2022 16:36
Benzene	U		0.46	1.0	µg/L	1	12/16/2022 16:36
Bromochloromethane	U		0.45	1.0	µg/L	1	12/16/2022 16:36
Bromodichloromethane	U		0.49	1.0	µg/L	1	12/16/2022 16:36
Bromoform	U		0.56	1.0	µg/L	1	12/16/2022 16:36
Bromomethane	U		0.90	1.0	µg/L	1	12/16/2022 16:36
Carbon disulfide	U		0.49	1.0	µg/L	1	12/16/2022 16:36
Carbon tetrachloride	U		0.40	1.0	µg/L	1	12/16/2022 16:36
Chlorobenzene	U		0.40	1.0	µg/L	1	12/16/2022 16:36
Chloroethane	U		0.68	1.0	µg/L	1	12/16/2022 16:36
Chloroform	0.66	J	0.46	1.0	µg/L	1	12/16/2022 16:36
Chloromethane	U		0.83	1.0	µg/L	1	12/16/2022 16:36
cis-1,2-Dichloroethene	U		0.42	1.0	µg/L	1	12/16/2022 16:36
cis-1,3-Dichloropropene	U		0.57	1.0	µg/L	1	12/16/2022 16:36
Cyclohexane	U		0.63	2.0	µg/L	1	12/16/2022 16:36
Dibromochloromethane	U		0.40	1.0	µg/L	1	12/16/2022 16:36
Dichlorodifluoromethane	U		0.68	1.0	µg/L	1	12/16/2022 16:36
Ethylbenzene	U		0.34	1.0	µg/L	1	12/16/2022 16:36
Isopropylbenzene	U		0.35	1.0	µg/L	1	12/16/2022 16:36
m,p-Xylene	U		0.81	2.0	µg/L	1	12/16/2022 16:36
Methyl acetate	U		0.59	2.0	µg/L	1	12/16/2022 16:36
Methyl tert-butyl ether	U		0.45	1.0	µg/L	1	12/16/2022 16:36
Methylcyclohexane	U		0.35	1.0	µg/L	1	12/16/2022 16:36
Methylene chloride	U		0.86	5.0	µg/L	1	12/16/2022 16:36
o-Xylene	U		0.31	1.0	µg/L	1	12/16/2022 16:36
Styrene	U		0.33	1.0	µg/L	1	12/16/2022 16:36
Tetrachloroethene	U		0.39	1.0	µg/L	1	12/16/2022 16:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA**Date:** 22-Dec-22**Client:** Tetra Tech**Project:** Houston**Sample ID:** FB-01**Collection Date:** 12/6/2022 11:20 AM**Work Order:** 22120870**Lab ID:** 22120870-01**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	U		0.45	1.0	µg/L	1	12/16/2022 16:36
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	12/16/2022 16:36
trans-1,3-Dichloropropene	U		0.38	1.0	µg/L	1	12/16/2022 16:36
Trichloroethene	U		0.43	1.0	µg/L	1	12/16/2022 16:36
Trichlorofluoromethane	U		0.52	1.0	µg/L	1	12/16/2022 16:36
Vinyl chloride	U		0.53	1.0	µg/L	1	12/16/2022 16:36
Xylenes, Total	U		0.81	3.0	µg/L	1	12/16/2022 16:36
Surr: 1,2-Dichloroethane-d4	106			80-120	%REC	1	12/16/2022 16:36
Surr: 4-Bromofluorobenzene	96.4			80-120	%REC	1	12/16/2022 16:36
Surr: Dibromofluoromethane	95.0			80-120	%REC	1	12/16/2022 16:36
Surr: Toluene-d8	103			80-120	%REC	1	12/16/2022 16:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: TW-03
Collection Date: 12/6/2022 12:45 PM

Work Order: 22120870
Lab ID: 22120870-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW3511 / 12/12/22		Analyst: MTB
DRO (C10-C28)	U		0.082	0.10	mg/L	1	12/12/2022 19:59
ORO (C28-C40)	U		0.052	0.10	mg/L	1	12/12/2022 19:59
Surr: 4-Terphenyl-d14	79.5			30-121	%REC	1	12/12/2022 19:59
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D				Analyst: MTB
GRO (C6-C10)	U		76	200	µg/L	1	12/13/2022 02:18
Surr: Toluene-d8	93.8			73-116	%REC	1	12/13/2022 02:18
MERCURY BY CVAA (DISSOLVED)			Method: SW7470A		Prep: SW7470 / 12/12/22		Analyst: KRA
Mercury	U		0.00016	0.00020	mg/L	1	12/12/2022 16:30
METALS BY ICP-MS (DISSOLVED)			Method: SW6020B		Prep: SW3005A / 12/16/22		Analyst: STP
Aluminum	U		0.0057	0.010	mg/L	1	12/16/2022 14:42
Antimony	U		0.00042	0.0050	mg/L	1	12/16/2022 14:42
Arsenic	0.014		0.00019	0.0050	mg/L	1	12/16/2022 14:42
Barium	0.035		0.00057	0.0050	mg/L	1	12/16/2022 14:42
Beryllium	U		0.00013	0.0020	mg/L	1	12/16/2022 14:42
Cadmium	U		0.00014	0.0020	mg/L	1	12/16/2022 14:42
Calcium	44		0.22	0.50	mg/L	1	12/16/2022 14:42
Chromium	0.00061	J	0.00061	0.0050	mg/L	1	12/16/2022 14:42
Copper	U		0.00099	0.0050	mg/L	1	12/16/2022 14:42
Iron	0.20		0.047	0.080	mg/L	1	12/16/2022 14:42
Lead	U		0.00022	0.0050	mg/L	1	12/16/2022 14:42
Magnesium	30		0.037	0.20	mg/L	1	12/16/2022 14:42
Manganese	0.45		0.0017	0.0050	mg/L	1	12/16/2022 14:42
Nickel	0.0031	J	0.00085	0.0050	mg/L	1	12/16/2022 14:42
Potassium	0.37		0.034	0.20	mg/L	1	12/16/2022 14:42
Selenium	U		0.00048	0.0050	mg/L	1	12/16/2022 14:42
Silver	U		0.00026	0.0050	mg/L	1	12/16/2022 14:42
Sodium	300		1.3	2.0	mg/L	10	12/16/2022 15:48
Thallium	0.00046	J	0.00015	0.0050	mg/L	1	12/16/2022 14:42
Vanadium	0.0012	J	0.00070	0.0050	mg/L	1	12/16/2022 14:42
Zinc	0.0027	J	0.0022	0.010	mg/L	1	12/16/2022 14:42
SEMI-VOLATILE ORGANIC COMPOUNDS			Method: SW846 8270D		Prep: SW3510 / 12/13/22		Analyst: EEW
1,1'-Biphenyl	U		0.42	5.0	µg/L	1	12/19/2022 23:08
1,2,4,5-Tetrachlorobenzene	U		0.34	10	µg/L	1	12/19/2022 23:08
1,4-Dioxane	U		0.72	5.0	µg/L	1	12/19/2022 23:08
1-Methylnaphthalene	U		0.083	5.0	µg/L	1	12/19/2022 23:08
2,2'-Oxybis(1-chloropropane)	U		0.23	5.0	µg/L	1	12/19/2022 23:08

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: TW-03

Collection Date: 12/6/2022 12:45 PM

Work Order: 22120870

Lab ID: 22120870-02

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,3,4,6-Tetrachlorophenol	U		0.45	5.0	µg/L	1	12/19/2022 23:08
2,4,5-Trichlorophenol	U		0.17	5.0	µg/L	1	12/19/2022 23:08
2,4,6-Trichlorophenol	U		0.25	5.0	µg/L	1	12/19/2022 23:08
2,4-Dichlorophenol	U		0.35	5.0	µg/L	1	12/19/2022 23:08
2,4-Dimethylphenol	U		0.36	5.0	µg/L	1	12/19/2022 23:08
2,4-Dinitrophenol	U		2.6	5.0	µg/L	1	12/19/2022 23:08
2,4-Dinitrotoluene	U		0.42	5.0	µg/L	1	12/19/2022 23:08
2,6-Dinitrotoluene	U		0.11	5.0	µg/L	1	12/19/2022 23:08
2-Chloronaphthalene	U		0.075	5.0	µg/L	1	12/19/2022 23:08
2-Chlorophenol	U		0.23	5.0	µg/L	1	12/19/2022 23:08
2-Methylnaphthalene	U		0.065	5.0	µg/L	1	12/19/2022 23:08
2-Methylphenol	U		0.25	5.0	µg/L	1	12/19/2022 23:08
2-Nitroaniline	U		0.21	5.0	µg/L	1	12/19/2022 23:08
2-Nitrophenol	U		0.34	5.0	µg/L	1	12/19/2022 23:08
3&4-Methylphenol	U		0.21	5.0	µg/L	1	12/19/2022 23:08
3,3'-Dichlorobenzidine	U		0.46	5.0	µg/L	1	12/19/2022 23:08
3-Nitroaniline	U		0.64	5.0	µg/L	1	12/19/2022 23:08
4,6-Dinitro-2-methylphenol	U		0.27	5.0	µg/L	1	12/19/2022 23:08
4-Bromophenyl phenyl ether	U		0.33	5.0	µg/L	1	12/19/2022 23:08
4-Chloro-3-methylphenol	U		0.26	5.0	µg/L	1	12/19/2022 23:08
4-Chloroaniline	U		0.34	5.0	µg/L	1	12/19/2022 23:08
4-Chlorophenyl phenyl ether	U		0.31	5.0	µg/L	1	12/19/2022 23:08
4-Nitroaniline	U		0.57	5.0	µg/L	1	12/19/2022 23:08
4-Nitrophenol	U		0.24	5.0	µg/L	1	12/19/2022 23:08
Acenaphthene	U		0.081	5.0	µg/L	1	12/19/2022 23:08
Acenaphthylene	U		0.075	5.0	µg/L	1	12/19/2022 23:08
Acetophenone	U		0.37	1.0	µg/L	1	12/19/2022 23:08
Anthracene	U		0.028	5.0	µg/L	1	12/19/2022 23:08
Atrazine	U		0.35	1.0	µg/L	1	12/19/2022 23:08
Benzaldehyde	U		0.52	1.0	µg/L	1	12/19/2022 23:08
Benzo(a)anthracene	U		0.099	5.0	µg/L	1	12/19/2022 23:08
Benzo(a)pyrene	U		0.044	5.0	µg/L	1	12/19/2022 23:08
Benzo(b)fluoranthene	U		0.051	5.0	µg/L	1	12/19/2022 23:08
Benzo(g,h,i)perylene	U		0.089	5.0	µg/L	1	12/19/2022 23:08
Benzo(k)fluoranthene	U		0.048	5.0	µg/L	1	12/19/2022 23:08
Bis(2-chloroethoxy)methane	U		0.29	5.0	µg/L	1	12/19/2022 23:08
Bis(2-chloroethyl)ether	U		0.37	5.0	µg/L	1	12/19/2022 23:08
Bis(2-ethylhexyl)phthalate	0.74	J	0.40	5.0	µg/L	1	12/19/2022 23:08
Butyl benzyl phthalate	U		0.30	5.0	µg/L	1	12/19/2022 23:08
Caprolactam	U		0.96	10	µg/L	1	12/19/2022 23:08

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: TW-03
Collection Date: 12/6/2022 12:45 PM

Work Order: 22120870
Lab ID: 22120870-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Carbazole	U		0.24	5.0	µg/L	1	12/19/2022 23:08
Chrysene	U		0.048	5.0	µg/L	1	12/19/2022 23:08
Dibenzo(a,h)anthracene	U		0.073	5.0	µg/L	1	12/19/2022 23:08
Dibenzofuran	U		0.23	5.0	µg/L	1	12/19/2022 23:08
Diethyl phthalate	U		0.17	5.0	µg/L	1	12/19/2022 23:08
Dimethyl phthalate	U		0.18	5.0	µg/L	1	12/19/2022 23:08
Di-n-butyl phthalate	0.63	J	0.21	5.0	µg/L	1	12/19/2022 23:08
Di-n-octyl phthalate	U		0.53	5.0	µg/L	1	12/19/2022 23:08
Fluoranthene	U		0.038	5.0	µg/L	1	12/19/2022 23:08
Fluorene	U		0.051	5.0	µg/L	1	12/19/2022 23:08
Hexachlorobenzene	U		0.44	5.0	µg/L	1	12/19/2022 23:08
Hexachlorobutadiene	U		0.63	5.0	µg/L	1	12/19/2022 23:08
Hexachlorocyclopentadiene	U		1.1	5.0	µg/L	1	12/19/2022 23:08
Hexachloroethane	U		0.62	5.0	µg/L	1	12/19/2022 23:08
Indeno(1,2,3-cd)pyrene	U		0.067	5.0	µg/L	1	12/19/2022 23:08
Isophorone	U		0.34	5.0	µg/L	1	12/19/2022 23:08
Naphthalene	U		0.067	5.0	µg/L	1	12/19/2022 23:08
Nitrobenzene	U		0.26	5.0	µg/L	1	12/19/2022 23:08
N-Nitrosodi-n-propylamine	U		0.35	5.0	µg/L	1	12/19/2022 23:08
N-Nitrosodiphenylamine	U		0.49	5.0	µg/L	1	12/19/2022 23:08
Pentachlorophenol	U		0.97	5.0	µg/L	1	12/19/2022 23:08
Phenanthrene	U		0.081	5.0	µg/L	1	12/19/2022 23:08
Phenol	U		0.21	5.0	µg/L	1	12/19/2022 23:08
Pyrene	U		0.036	5.0	µg/L	1	12/19/2022 23:08
Surr: 2,4,6-Tribromophenol	61.7			47-103	%REC	1	12/19/2022 23:08
Surr: 2-Fluorobiphenyl	48.9			41-96	%REC	1	12/19/2022 23:08
Surr: 2-Fluorophenol	28.7			28-66	%REC	1	12/19/2022 23:08
Surr: 4-Terphenyl-d14	69.2			49-107	%REC	1	12/19/2022 23:08
Surr: Nitrobenzene-d5	49.1			41-95	%REC	1	12/19/2022 23:08
Surr: Phenol-d6	20.4			18-44	%REC	1	12/19/2022 23:08
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C				Analyst: NAD
1,1,1-Trichloroethane	U		0.46	1.0	µg/L	1	12/16/2022 05:07
1,1,1,2,2-Tetrachloroethane	U		0.40	1.0	µg/L	1	12/16/2022 05:07
1,1,2-Trichloroethane	U		0.46	1.0	µg/L	1	12/16/2022 05:07
1,1,2-Trichlorotrifluoroethane	U		0.52	1.0	µg/L	1	12/16/2022 05:07
1,1-Dichloroethane	U		0.44	1.0	µg/L	1	12/16/2022 05:07
1,1-Dichloroethene	U		0.40	1.0	µg/L	1	12/16/2022 05:07
1,2,3-Trichlorobenzene	U		0.42	1.0	µg/L	1	12/16/2022 05:07
1,2,3-Trichloropropane	U		0.40	1.0	µg/L	1	12/16/2022 05:07

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: TW-03

Collection Date: 12/6/2022 12:45 PM

Work Order: 22120870

Lab ID: 22120870-02

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	U		0.45	1.0	µg/L	1	12/16/2022 05:07
1,2,4-Trimethylbenzene	U		0.45	1.0	µg/L	1	12/16/2022 05:07
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	12/16/2022 05:07
1,2-Dibromoethane	U		0.41	1.0	µg/L	1	12/16/2022 05:07
1,2-Dichlorobenzene	U		0.32	1.0	µg/L	1	12/16/2022 05:07
1,2-Dichloroethane	U		0.44	1.0	µg/L	1	12/16/2022 05:07
1,2-Dichloropropane	U		0.48	1.0	µg/L	1	12/16/2022 05:07
1,3,5-Trimethylbenzene	U		0.65	1.0	µg/L	1	12/16/2022 05:07
1,3-Dichlorobenzene	U		0.33	1.0	µg/L	1	12/16/2022 05:07
1,4-Dichlorobenzene	U		0.35	1.0	µg/L	1	12/16/2022 05:07
2-Butanone	U		0.52	5.0	µg/L	1	12/16/2022 05:07
2-Hexanone	U		0.59	5.0	µg/L	1	12/16/2022 05:07
4-Methyl-2-pentanone	U		0.52	1.0	µg/L	1	12/16/2022 05:07
Acetone	U		6.2	10	µg/L	1	12/16/2022 05:07
Benzene	U		0.46	1.0	µg/L	1	12/16/2022 05:07
Bromochloromethane	U		0.45	1.0	µg/L	1	12/16/2022 05:07
Bromodichloromethane	U		0.49	1.0	µg/L	1	12/16/2022 05:07
Bromoform	U		0.56	1.0	µg/L	1	12/16/2022 05:07
Bromomethane	U		0.90	1.0	µg/L	1	12/16/2022 05:07
Carbon disulfide	U		0.49	1.0	µg/L	1	12/16/2022 05:07
Carbon tetrachloride	U		0.40	1.0	µg/L	1	12/16/2022 05:07
Chlorobenzene	U		0.40	1.0	µg/L	1	12/16/2022 05:07
Chloroethane	U		0.68	1.0	µg/L	1	12/16/2022 05:07
Chloroform	U		0.46	1.0	µg/L	1	12/16/2022 05:07
Chloromethane	U		0.83	1.0	µg/L	1	12/16/2022 05:07
cis-1,2-Dichloroethene	U		0.42	1.0	µg/L	1	12/16/2022 05:07
cis-1,3-Dichloropropene	U		0.57	1.0	µg/L	1	12/16/2022 05:07
Cyclohexane	U		0.63	2.0	µg/L	1	12/16/2022 05:07
Dibromochloromethane	U		0.40	1.0	µg/L	1	12/16/2022 05:07
Dichlorodifluoromethane	U		0.68	1.0	µg/L	1	12/16/2022 05:07
Ethylbenzene	U		0.34	1.0	µg/L	1	12/16/2022 05:07
Isopropylbenzene	U		0.35	1.0	µg/L	1	12/16/2022 05:07
m,p-Xylene	U		0.81	2.0	µg/L	1	12/16/2022 05:07
Methyl acetate	U		0.59	2.0	µg/L	1	12/16/2022 05:07
Methyl tert-butyl ether	1.9		0.45	1.0	µg/L	1	12/16/2022 05:07
Methylcyclohexane	U		0.35	1.0	µg/L	1	12/16/2022 05:07
Methylene chloride	U		0.86	5.0	µg/L	1	12/16/2022 05:07
o-Xylene	U		0.31	1.0	µg/L	1	12/16/2022 05:07
Styrene	U		0.33	1.0	µg/L	1	12/16/2022 05:07
Tetrachloroethene	U		0.39	1.0	µg/L	1	12/16/2022 05:07

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA**Date:** 22-Dec-22**Client:** Tetra Tech**Project:** Houston**Sample ID:** TW-03**Collection Date:** 12/6/2022 12:45 PM**Work Order:** 22120870**Lab ID:** 22120870-02**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	U		0.45	1.0	µg/L	1	12/16/2022 05:07
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	12/16/2022 05:07
trans-1,3-Dichloropropene	U		0.38	1.0	µg/L	1	12/16/2022 05:07
Trichloroethene	U		0.43	1.0	µg/L	1	12/16/2022 05:07
Trichlorofluoromethane	U		0.52	1.0	µg/L	1	12/16/2022 05:07
Vinyl chloride	U		0.53	1.0	µg/L	1	12/16/2022 05:07
Xylenes, Total	U		0.81	3.0	µg/L	1	12/16/2022 05:07
Surr: 1,2-Dichloroethane-d4	112			80-120	%REC	1	12/16/2022 05:07
Surr: 4-Bromofluorobenzene	98.5			80-120	%REC	1	12/16/2022 05:07
Surr: Dibromofluoromethane	113			80-120	%REC	1	12/16/2022 05:07
Surr: Toluene-d8	94.7			80-120	%REC	1	12/16/2022 05:07

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: TW-02
Collection Date: 12/6/2022 01:15 PM

Work Order: 22120870
Lab ID: 22120870-03
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW3511 / 12/12/22		Analyst: MTB
DRO (C10-C28)	U		0.082	0.10	mg/L	1	12/12/2022 20:36
ORO (C28-C40)	0.088	J	0.052	0.10	mg/L	1	12/12/2022 20:36
Surr: 4-Terphenyl-d14	62.4			30-121	%REC	1	12/12/2022 20:36
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D				Analyst: MTB
GRO (C6-C10)	U		76	200	µg/L	1	12/13/2022 02:40
Surr: Toluene-d8	96.1			73-116	%REC	1	12/13/2022 02:40
MERCURY BY CVAA (DISSOLVED)			Method: SW7470A		Prep: SW7470 / 12/12/22		Analyst: KRA
Mercury	U		0.00016	0.00020	mg/L	1	12/12/2022 16:32
METALS BY ICP-MS (DISSOLVED)			Method: SW6020B		Prep: SW3005A / 12/16/22		Analyst: STP
Aluminum	U		0.0057	0.010	mg/L	1	12/16/2022 14:47
Antimony	U		0.00042	0.0050	mg/L	1	12/16/2022 14:47
Arsenic	0.0011	J	0.00019	0.0050	mg/L	1	12/16/2022 14:47
Barium	0.030		0.00057	0.0050	mg/L	1	12/16/2022 14:47
Beryllium	U		0.00013	0.0020	mg/L	1	12/16/2022 14:47
Cadmium	U		0.00014	0.0020	mg/L	1	12/16/2022 14:47
Calcium	36		0.22	0.50	mg/L	1	12/16/2022 14:47
Chromium	U		0.00061	0.0050	mg/L	1	12/16/2022 14:47
Copper	U		0.00099	0.0050	mg/L	1	12/16/2022 14:47
Iron	U		0.047	0.080	mg/L	1	12/16/2022 14:47
Lead	U		0.00022	0.0050	mg/L	1	12/16/2022 14:47
Magnesium	30		0.037	0.20	mg/L	1	12/16/2022 14:47
Manganese	0.22		0.0017	0.0050	mg/L	1	12/16/2022 14:47
Nickel	0.0018	J	0.00085	0.0050	mg/L	1	12/16/2022 14:47
Potassium	0.49		0.034	0.20	mg/L	1	12/16/2022 14:47
Selenium	U		0.00048	0.0050	mg/L	1	12/16/2022 14:47
Silver	U		0.00026	0.0050	mg/L	1	12/16/2022 14:47
Sodium	370		1.3	2.0	mg/L	10	12/16/2022 15:50
Thallium	U		0.00015	0.0050	mg/L	1	12/16/2022 14:47
Vanadium	0.0031	J	0.00070	0.0050	mg/L	1	12/16/2022 14:47
Zinc	0.0024	J	0.0022	0.010	mg/L	1	12/16/2022 14:47
SEMI-VOLATILE ORGANIC COMPOUNDS			Method: SW846 8270D		Prep: SW3510 / 12/13/22		Analyst: EEW
1,1'-Biphenyl	U		0.40	4.8	µg/L	1	12/19/2022 23:32
1,2,4,5-Tetrachlorobenzene	U		0.32	9.5	µg/L	1	12/19/2022 23:32
1,4-Dioxane	U		0.68	4.8	µg/L	1	12/19/2022 23:32
1-Methylnaphthalene	U		0.079	4.8	µg/L	1	12/19/2022 23:32
2,2'-Oxybis(1-chloropropane)	U		0.22	4.8	µg/L	1	12/19/2022 23:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: TW-02

Collection Date: 12/6/2022 01:15 PM

Work Order: 22120870

Lab ID: 22120870-03

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,3,4,6-Tetrachlorophenol	U		0.43	4.8	µg/L	1	12/19/2022 23:32
2,4,5-Trichlorophenol	U		0.16	4.8	µg/L	1	12/19/2022 23:32
2,4,6-Trichlorophenol	U		0.24	4.8	µg/L	1	12/19/2022 23:32
2,4-Dichlorophenol	U		0.33	4.8	µg/L	1	12/19/2022 23:32
2,4-Dimethylphenol	U		0.34	4.8	µg/L	1	12/19/2022 23:32
2,4-Dinitrophenol	U		2.5	4.8	µg/L	1	12/19/2022 23:32
2,4-Dinitrotoluene	U		0.40	4.8	µg/L	1	12/19/2022 23:32
2,6-Dinitrotoluene	U		0.10	4.8	µg/L	1	12/19/2022 23:32
2-Chloronaphthalene	U		0.071	4.8	µg/L	1	12/19/2022 23:32
2-Chlorophenol	U		0.22	4.8	µg/L	1	12/19/2022 23:32
2-Methylnaphthalene	U		0.062	4.8	µg/L	1	12/19/2022 23:32
2-Methylphenol	U		0.24	4.8	µg/L	1	12/19/2022 23:32
2-Nitroaniline	U		0.20	4.8	µg/L	1	12/19/2022 23:32
2-Nitrophenol	U		0.32	4.8	µg/L	1	12/19/2022 23:32
3&4-Methylphenol	U		0.20	4.8	µg/L	1	12/19/2022 23:32
3,3'-Dichlorobenzidine	U		0.44	4.8	µg/L	1	12/19/2022 23:32
3-Nitroaniline	U		0.61	4.8	µg/L	1	12/19/2022 23:32
4,6-Dinitro-2-methylphenol	U		0.26	4.8	µg/L	1	12/19/2022 23:32
4-Bromophenyl phenyl ether	U		0.31	4.8	µg/L	1	12/19/2022 23:32
4-Chloro-3-methylphenol	U		0.25	4.8	µg/L	1	12/19/2022 23:32
4-Chloroaniline	U		0.32	4.8	µg/L	1	12/19/2022 23:32
4-Chlorophenyl phenyl ether	U		0.29	4.8	µg/L	1	12/19/2022 23:32
4-Nitroaniline	U		0.54	4.8	µg/L	1	12/19/2022 23:32
4-Nitrophenol	U		0.23	4.8	µg/L	1	12/19/2022 23:32
Acenaphthene	U		0.077	4.8	µg/L	1	12/19/2022 23:32
Acenaphthylene	U		0.071	4.8	µg/L	1	12/19/2022 23:32
Acetophenone	U		0.35	0.95	µg/L	1	12/19/2022 23:32
Anthracene	U		0.027	4.8	µg/L	1	12/19/2022 23:32
Atrazine	U		0.33	0.95	µg/L	1	12/19/2022 23:32
Benzaldehyde	U		0.49	0.95	µg/L	1	12/19/2022 23:32
Benzo(a)anthracene	U		0.094	4.8	µg/L	1	12/19/2022 23:32
Benzo(a)pyrene	U		0.042	4.8	µg/L	1	12/19/2022 23:32
Benzo(b)fluoranthene	U		0.048	4.8	µg/L	1	12/19/2022 23:32
Benzo(g,h,i)perylene	U		0.085	4.8	µg/L	1	12/19/2022 23:32
Benzo(k)fluoranthene	U		0.046	4.8	µg/L	1	12/19/2022 23:32
Bis(2-chloroethoxy)methane	U		0.28	4.8	µg/L	1	12/19/2022 23:32
Bis(2-chloroethyl)ether	U		0.35	4.8	µg/L	1	12/19/2022 23:32
Bis(2-ethylhexyl)phthalate	0.63	J	0.38	4.8	µg/L	1	12/19/2022 23:32
Butyl benzyl phthalate	0.49	J	0.29	4.8	µg/L	1	12/19/2022 23:32
Caprolactam	U		0.91	9.5	µg/L	1	12/19/2022 23:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: TW-02
Collection Date: 12/6/2022 01:15 PM

Work Order: 22120870
Lab ID: 22120870-03
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Carbazole	U		0.23	4.8	µg/L	1	12/19/2022 23:32
Chrysene	U		0.046	4.8	µg/L	1	12/19/2022 23:32
Dibenzo(a,h)anthracene	U		0.069	4.8	µg/L	1	12/19/2022 23:32
Dibenzofuran	U		0.22	4.8	µg/L	1	12/19/2022 23:32
Diethyl phthalate	U		0.16	4.8	µg/L	1	12/19/2022 23:32
Dimethyl phthalate	U		0.17	4.8	µg/L	1	12/19/2022 23:32
Di-n-butyl phthalate	0.48	J	0.20	4.8	µg/L	1	12/19/2022 23:32
Di-n-octyl phthalate	U		0.50	4.8	µg/L	1	12/19/2022 23:32
Fluoranthene	U		0.036	4.8	µg/L	1	12/19/2022 23:32
Fluorene	U		0.048	4.8	µg/L	1	12/19/2022 23:32
Hexachlorobenzene	U		0.42	4.8	µg/L	1	12/19/2022 23:32
Hexachlorobutadiene	U		0.60	4.8	µg/L	1	12/19/2022 23:32
Hexachlorocyclopentadiene	U		1.0	4.8	µg/L	1	12/19/2022 23:32
Hexachloroethane	U		0.59	4.8	µg/L	1	12/19/2022 23:32
Indeno(1,2,3-cd)pyrene	U		0.064	4.8	µg/L	1	12/19/2022 23:32
Isophorone	U		0.32	4.8	µg/L	1	12/19/2022 23:32
Naphthalene	U		0.064	4.8	µg/L	1	12/19/2022 23:32
Nitrobenzene	U		0.25	4.8	µg/L	1	12/19/2022 23:32
N-Nitrosodi-n-propylamine	U		0.33	4.8	µg/L	1	12/19/2022 23:32
N-Nitrosodiphenylamine	U		0.47	4.8	µg/L	1	12/19/2022 23:32
Pentachlorophenol	U		0.92	4.8	µg/L	1	12/19/2022 23:32
Phenanthrene	U		0.077	4.8	µg/L	1	12/19/2022 23:32
Phenol	U		0.20	4.8	µg/L	1	12/19/2022 23:32
Pyrene	U		0.034	4.8	µg/L	1	12/19/2022 23:32
<i>Surr: 2,4,6-Tribromophenol</i>	56.2			47-103	%REC	1	12/19/2022 23:32
<i>Surr: 2-Fluorobiphenyl</i>	39.6	S		41-96	%REC	1	12/19/2022 23:32
<i>Surr: 2-Fluorophenol</i>	24.1	S		28-66	%REC	1	12/19/2022 23:32
<i>Surr: 4-Terphenyl-d14</i>	65.9			49-107	%REC	1	12/19/2022 23:32
<i>Surr: Nitrobenzene-d5</i>	41.2			41-95	%REC	1	12/19/2022 23:32
<i>Surr: Phenol-d6</i>	16.3	S		18-44	%REC	1	12/19/2022 23:32
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: NAD	
1,1,1-Trichloroethane	U		0.46	1.0	µg/L	1	12/16/2022 05:22
1,1,1,2-Tetrachloroethane	U		0.40	1.0	µg/L	1	12/16/2022 05:22
1,1,2-Trichloroethane	U		0.46	1.0	µg/L	1	12/16/2022 05:22
1,1,2-Trichlorotrifluoroethane	U		0.52	1.0	µg/L	1	12/16/2022 05:22
1,1-Dichloroethane	U		0.44	1.0	µg/L	1	12/16/2022 05:22
1,1-Dichloroethene	U		0.40	1.0	µg/L	1	12/16/2022 05:22
1,2,3-Trichlorobenzene	U		0.42	1.0	µg/L	1	12/16/2022 05:22
1,2,3-Trichloropropane	U		0.40	1.0	µg/L	1	12/16/2022 05:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: TW-02

Collection Date: 12/6/2022 01:15 PM

Work Order: 22120870

Lab ID: 22120870-03

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	U		0.45	1.0	µg/L	1	12/16/2022 05:22
1,2,4-Trimethylbenzene	U		0.45	1.0	µg/L	1	12/16/2022 05:22
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	12/16/2022 05:22
1,2-Dibromoethane	U		0.41	1.0	µg/L	1	12/16/2022 05:22
1,2-Dichlorobenzene	U		0.32	1.0	µg/L	1	12/16/2022 05:22
1,2-Dichloroethane	U		0.44	1.0	µg/L	1	12/16/2022 05:22
1,2-Dichloropropane	U		0.48	1.0	µg/L	1	12/16/2022 05:22
1,3,5-Trimethylbenzene	U		0.65	1.0	µg/L	1	12/16/2022 05:22
1,3-Dichlorobenzene	U		0.33	1.0	µg/L	1	12/16/2022 05:22
1,4-Dichlorobenzene	U		0.35	1.0	µg/L	1	12/16/2022 05:22
2-Butanone	U		0.52	5.0	µg/L	1	12/16/2022 05:22
2-Hexanone	U		0.59	5.0	µg/L	1	12/16/2022 05:22
4-Methyl-2-pentanone	U		0.52	1.0	µg/L	1	12/16/2022 05:22
Acetone	U		6.2	10	µg/L	1	12/16/2022 05:22
Benzene	U		0.46	1.0	µg/L	1	12/16/2022 05:22
Bromochloromethane	U		0.45	1.0	µg/L	1	12/16/2022 05:22
Bromodichloromethane	U		0.49	1.0	µg/L	1	12/16/2022 05:22
Bromoform	U		0.56	1.0	µg/L	1	12/16/2022 05:22
Bromomethane	U		0.90	1.0	µg/L	1	12/16/2022 05:22
Carbon disulfide	U		0.49	1.0	µg/L	1	12/16/2022 05:22
Carbon tetrachloride	U		0.40	1.0	µg/L	1	12/16/2022 05:22
Chlorobenzene	U		0.40	1.0	µg/L	1	12/16/2022 05:22
Chloroethane	U		0.68	1.0	µg/L	1	12/16/2022 05:22
Chloroform	U		0.46	1.0	µg/L	1	12/16/2022 05:22
Chloromethane	U		0.83	1.0	µg/L	1	12/16/2022 05:22
cis-1,2-Dichloroethene	U		0.42	1.0	µg/L	1	12/16/2022 05:22
cis-1,3-Dichloropropene	U		0.57	1.0	µg/L	1	12/16/2022 05:22
Cyclohexane	U		0.63	2.0	µg/L	1	12/16/2022 05:22
Dibromochloromethane	U		0.40	1.0	µg/L	1	12/16/2022 05:22
Dichlorodifluoromethane	U		0.68	1.0	µg/L	1	12/16/2022 05:22
Ethylbenzene	U		0.34	1.0	µg/L	1	12/16/2022 05:22
Isopropylbenzene	U		0.35	1.0	µg/L	1	12/16/2022 05:22
m,p-Xylene	U		0.81	2.0	µg/L	1	12/16/2022 05:22
Methyl acetate	U		0.59	2.0	µg/L	1	12/16/2022 05:22
Methyl tert-butyl ether	U		0.45	1.0	µg/L	1	12/16/2022 05:22
Methylcyclohexane	U		0.35	1.0	µg/L	1	12/16/2022 05:22
Methylene chloride	U		0.86	5.0	µg/L	1	12/16/2022 05:22
o-Xylene	U		0.31	1.0	µg/L	1	12/16/2022 05:22
Styrene	U		0.33	1.0	µg/L	1	12/16/2022 05:22
Tetrachloroethene	U		0.39	1.0	µg/L	1	12/16/2022 05:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: TW-02

Collection Date: 12/6/2022 01:15 PM

Work Order: 22120870

Lab ID: 22120870-03

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	U		0.45	1.0	µg/L	1	12/16/2022 05:22
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	12/16/2022 05:22
trans-1,3-Dichloropropene	U		0.38	1.0	µg/L	1	12/16/2022 05:22
Trichloroethene	U		0.43	1.0	µg/L	1	12/16/2022 05:22
Trichlorofluoromethane	U		0.52	1.0	µg/L	1	12/16/2022 05:22
Vinyl chloride	U		0.53	1.0	µg/L	1	12/16/2022 05:22
Xylenes, Total	U		0.81	3.0	µg/L	1	12/16/2022 05:22
Surr: 1,2-Dichloroethane-d4	111			80-120	%REC	1	12/16/2022 05:22
Surr: 4-Bromofluorobenzene	96.8			80-120	%REC	1	12/16/2022 05:22
Surr: Dibromofluoromethane	110			80-120	%REC	1	12/16/2022 05:22
Surr: Toluene-d8	94.2			80-120	%REC	1	12/16/2022 05:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: TW-01
Collection Date: 12/6/2022 01:45 PM

Work Order: 22120870
Lab ID: 22120870-04
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW3511 / 12/12/22		Analyst: MTB
DRO (C10-C28)	0.19		0.083	0.10	mg/L	1	12/12/2022 21:13
ORO (C28-C40)	0.21		0.053	0.10	mg/L	1	12/12/2022 21:13
Surr: 4-Terphenyl-d14	75.1			30-121	%REC	1	12/12/2022 21:13
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D				Analyst: MTB
GRO (C6-C10)	U		76	200	µg/L	1	12/13/2022 03:03
Surr: Toluene-d8	91.2			73-116	%REC	1	12/13/2022 03:03
MERCURY BY CVAA (DISSOLVED)			Method: SW7470A		Prep: SW7470 / 12/12/22		Analyst: KRA
Mercury	U		0.00016	0.00020	mg/L	1	12/12/2022 16:33
METALS BY ICP-MS (DISSOLVED)			Method: SW6020B		Prep: SW3005A / 12/16/22		Analyst: STP
Aluminum	U		0.0057	0.010	mg/L	1	12/16/2022 14:49
Antimony	U		0.00042	0.0050	mg/L	1	12/16/2022 14:49
Arsenic	0.00047	J	0.00019	0.0050	mg/L	1	12/16/2022 14:49
Barium	0.016		0.00057	0.0050	mg/L	1	12/16/2022 14:49
Beryllium	U		0.00013	0.0020	mg/L	1	12/16/2022 14:49
Cadmium	U		0.00014	0.0020	mg/L	1	12/16/2022 14:49
Calcium	61		0.22	0.50	mg/L	1	12/16/2022 14:49
Chromium	U		0.00061	0.0050	mg/L	1	12/16/2022 14:49
Copper	U		0.00099	0.0050	mg/L	1	12/16/2022 14:49
Iron	U		0.047	0.080	mg/L	1	12/16/2022 14:49
Lead	U		0.00022	0.0050	mg/L	1	12/16/2022 14:49
Magnesium	43		0.037	0.20	mg/L	1	12/16/2022 14:49
Manganese	0.21		0.0017	0.0050	mg/L	1	12/16/2022 14:49
Nickel	0.0013	J	0.00085	0.0050	mg/L	1	12/16/2022 14:49
Potassium	0.48		0.034	0.20	mg/L	1	12/16/2022 14:49
Selenium	0.0028	J	0.00048	0.0050	mg/L	1	12/16/2022 14:49
Silver	U		0.00026	0.0050	mg/L	1	12/16/2022 14:49
Sodium	180		1.3	2.0	mg/L	10	12/16/2022 15:52
Thallium	U		0.00015	0.0050	mg/L	1	12/16/2022 14:49
Vanadium	0.0028	J	0.00070	0.0050	mg/L	1	12/16/2022 14:49
Zinc	U		0.0022	0.010	mg/L	1	12/16/2022 14:49
SEMI-VOLATILE ORGANIC COMPOUNDS			Method: SW846 8270D		Prep: SW3510 / 12/13/22		Analyst: EEW
1,1'-Biphenyl	U		0.42	5.0	µg/L	1	12/19/2022 23:55
1,2,4,5-Tetrachlorobenzene	U		0.34	10	µg/L	1	12/19/2022 23:55
1,4-Dioxane	U		0.72	5.0	µg/L	1	12/19/2022 23:55
1-Methylnaphthalene	U		0.083	5.0	µg/L	1	12/19/2022 23:55
2,2'-Oxybis(1-chloropropane)	U		0.23	5.0	µg/L	1	12/19/2022 23:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: TW-01

Collection Date: 12/6/2022 01:45 PM

Work Order: 22120870

Lab ID: 22120870-04

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,3,4,6-Tetrachlorophenol	U		0.45	5.0	µg/L	1	12/19/2022 23:55
2,4,5-Trichlorophenol	U		0.17	5.0	µg/L	1	12/19/2022 23:55
2,4,6-Trichlorophenol	U		0.25	5.0	µg/L	1	12/19/2022 23:55
2,4-Dichlorophenol	U		0.35	5.0	µg/L	1	12/19/2022 23:55
2,4-Dimethylphenol	U		0.36	5.0	µg/L	1	12/19/2022 23:55
2,4-Dinitrophenol	U		2.6	5.0	µg/L	1	12/19/2022 23:55
2,4-Dinitrotoluene	U		0.42	5.0	µg/L	1	12/19/2022 23:55
2,6-Dinitrotoluene	U		0.11	5.0	µg/L	1	12/19/2022 23:55
2-Chloronaphthalene	U		0.075	5.0	µg/L	1	12/19/2022 23:55
2-Chlorophenol	U		0.23	5.0	µg/L	1	12/19/2022 23:55
2-Methylnaphthalene	U		0.065	5.0	µg/L	1	12/19/2022 23:55
2-Methylphenol	U		0.25	5.0	µg/L	1	12/19/2022 23:55
2-Nitroaniline	U		0.21	5.0	µg/L	1	12/19/2022 23:55
2-Nitrophenol	U		0.34	5.0	µg/L	1	12/19/2022 23:55
3&4-Methylphenol	U		0.21	5.0	µg/L	1	12/19/2022 23:55
3,3'-Dichlorobenzidine	U		0.46	5.0	µg/L	1	12/19/2022 23:55
3-Nitroaniline	U		0.64	5.0	µg/L	1	12/19/2022 23:55
4,6-Dinitro-2-methylphenol	U		0.27	5.0	µg/L	1	12/19/2022 23:55
4-Bromophenyl phenyl ether	U		0.33	5.0	µg/L	1	12/19/2022 23:55
4-Chloro-3-methylphenol	U		0.26	5.0	µg/L	1	12/19/2022 23:55
4-Chloroaniline	U		0.34	5.0	µg/L	1	12/19/2022 23:55
4-Chlorophenyl phenyl ether	U		0.31	5.0	µg/L	1	12/19/2022 23:55
4-Nitroaniline	U		0.57	5.0	µg/L	1	12/19/2022 23:55
4-Nitrophenol	U		0.24	5.0	µg/L	1	12/19/2022 23:55
Acenaphthene	U		0.081	5.0	µg/L	1	12/19/2022 23:55
Acenaphthylene	U		0.075	5.0	µg/L	1	12/19/2022 23:55
Acetophenone	U		0.37	1.0	µg/L	1	12/19/2022 23:55
Anthracene	U		0.028	5.0	µg/L	1	12/19/2022 23:55
Atrazine	U		0.35	1.0	µg/L	1	12/19/2022 23:55
Benzaldehyde	U		0.52	1.0	µg/L	1	12/19/2022 23:55
Benzo(a)anthracene	U		0.099	5.0	µg/L	1	12/19/2022 23:55
Benzo(a)pyrene	U		0.044	5.0	µg/L	1	12/19/2022 23:55
Benzo(b)fluoranthene	U		0.051	5.0	µg/L	1	12/19/2022 23:55
Benzo(g,h,i)perylene	U		0.089	5.0	µg/L	1	12/19/2022 23:55
Benzo(k)fluoranthene	U		0.048	5.0	µg/L	1	12/19/2022 23:55
Bis(2-chloroethoxy)methane	U		0.29	5.0	µg/L	1	12/19/2022 23:55
Bis(2-chloroethyl)ether	U		0.37	5.0	µg/L	1	12/19/2022 23:55
Bis(2-ethylhexyl)phthalate	0.77	J	0.40	5.0	µg/L	1	12/19/2022 23:55
Butyl benzyl phthalate	U		0.30	5.0	µg/L	1	12/19/2022 23:55
Caprolactam	U		0.96	10	µg/L	1	12/19/2022 23:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: TW-01
Collection Date: 12/6/2022 01:45 PM

Work Order: 22120870
Lab ID: 22120870-04
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Carbazole	U		0.24	5.0	µg/L	1	12/19/2022 23:55
Chrysene	U		0.048	5.0	µg/L	1	12/19/2022 23:55
Dibenzo(a,h)anthracene	U		0.073	5.0	µg/L	1	12/19/2022 23:55
Dibenzofuran	U		0.23	5.0	µg/L	1	12/19/2022 23:55
Diethyl phthalate	U		0.17	5.0	µg/L	1	12/19/2022 23:55
Dimethyl phthalate	U		0.18	5.0	µg/L	1	12/19/2022 23:55
Di-n-butyl phthalate	U		0.21	5.0	µg/L	1	12/19/2022 23:55
Di-n-octyl phthalate	U		0.53	5.0	µg/L	1	12/19/2022 23:55
Fluoranthene	U		0.038	5.0	µg/L	1	12/19/2022 23:55
Fluorene	U		0.051	5.0	µg/L	1	12/19/2022 23:55
Hexachlorobenzene	U		0.44	5.0	µg/L	1	12/19/2022 23:55
Hexachlorobutadiene	U		0.63	5.0	µg/L	1	12/19/2022 23:55
Hexachlorocyclopentadiene	U		1.1	5.0	µg/L	1	12/19/2022 23:55
Hexachloroethane	U		0.62	5.0	µg/L	1	12/19/2022 23:55
Indeno(1,2,3-cd)pyrene	U		0.067	5.0	µg/L	1	12/19/2022 23:55
Isophorone	U		0.34	5.0	µg/L	1	12/19/2022 23:55
Naphthalene	U		0.067	5.0	µg/L	1	12/19/2022 23:55
Nitrobenzene	U		0.26	5.0	µg/L	1	12/19/2022 23:55
N-Nitrosodi-n-propylamine	U		0.35	5.0	µg/L	1	12/19/2022 23:55
N-Nitrosodiphenylamine	U		0.49	5.0	µg/L	1	12/19/2022 23:55
Pentachlorophenol	U		0.97	5.0	µg/L	1	12/19/2022 23:55
Phenanthrene	U		0.081	5.0	µg/L	1	12/19/2022 23:55
Phenol	U		0.21	5.0	µg/L	1	12/19/2022 23:55
Pyrene	U		0.036	5.0	µg/L	1	12/19/2022 23:55
Surr: 2,4,6-Tribromophenol	57.2			47-103	%REC	1	12/19/2022 23:55
Surr: 2-Fluorobiphenyl	37.8	S		41-96	%REC	1	12/19/2022 23:55
Surr: 2-Fluorophenol	26.7	S		28-66	%REC	1	12/19/2022 23:55
Surr: 4-Terphenyl-d14	70.2			49-107	%REC	1	12/19/2022 23:55
Surr: Nitrobenzene-d5	40.8	S		41-95	%REC	1	12/19/2022 23:55
Surr: Phenol-d6	18.2			18-44	%REC	1	12/19/2022 23:55
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C				Analyst: NAD
1,1,1-Trichloroethane	U		0.46	1.0	µg/L	1	12/16/2022 05:38
1,1,1,2-Tetrachloroethane	U		0.40	1.0	µg/L	1	12/16/2022 05:38
1,1,2-Trichloroethane	U		0.46	1.0	µg/L	1	12/16/2022 05:38
1,1,2-Trichlorotrifluoroethane	U		0.52	1.0	µg/L	1	12/16/2022 05:38
1,1-Dichloroethane	U		0.44	1.0	µg/L	1	12/16/2022 05:38
1,1-Dichloroethene	U		0.40	1.0	µg/L	1	12/16/2022 05:38
1,2,3-Trichlorobenzene	U		0.42	1.0	µg/L	1	12/16/2022 05:38
1,2,3-Trichloropropane	U		0.40	1.0	µg/L	1	12/16/2022 05:38

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: TW-01

Collection Date: 12/6/2022 01:45 PM

Work Order: 22120870

Lab ID: 22120870-04

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	U		0.45	1.0	µg/L	1	12/16/2022 05:38
1,2,4-Trimethylbenzene	U		0.45	1.0	µg/L	1	12/16/2022 05:38
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	12/16/2022 05:38
1,2-Dibromoethane	U		0.41	1.0	µg/L	1	12/16/2022 05:38
1,2-Dichlorobenzene	U		0.32	1.0	µg/L	1	12/16/2022 05:38
1,2-Dichloroethane	U		0.44	1.0	µg/L	1	12/16/2022 05:38
1,2-Dichloropropane	U		0.48	1.0	µg/L	1	12/16/2022 05:38
1,3,5-Trimethylbenzene	U		0.65	1.0	µg/L	1	12/16/2022 05:38
1,3-Dichlorobenzene	U		0.33	1.0	µg/L	1	12/16/2022 05:38
1,4-Dichlorobenzene	U		0.35	1.0	µg/L	1	12/16/2022 05:38
2-Butanone	U		0.52	5.0	µg/L	1	12/16/2022 05:38
2-Hexanone	U		0.59	5.0	µg/L	1	12/16/2022 05:38
4-Methyl-2-pentanone	U		0.52	1.0	µg/L	1	12/16/2022 05:38
Acetone	U		6.2	10	µg/L	1	12/16/2022 05:38
Benzene	U		0.46	1.0	µg/L	1	12/16/2022 05:38
Bromochloromethane	U		0.45	1.0	µg/L	1	12/16/2022 05:38
Bromodichloromethane	U		0.49	1.0	µg/L	1	12/16/2022 05:38
Bromoform	U		0.56	1.0	µg/L	1	12/16/2022 05:38
Bromomethane	U		0.90	1.0	µg/L	1	12/16/2022 05:38
Carbon disulfide	U		0.49	1.0	µg/L	1	12/16/2022 05:38
Carbon tetrachloride	U		0.40	1.0	µg/L	1	12/16/2022 05:38
Chlorobenzene	U		0.40	1.0	µg/L	1	12/16/2022 05:38
Chloroethane	U		0.68	1.0	µg/L	1	12/16/2022 05:38
Chloroform	U		0.46	1.0	µg/L	1	12/16/2022 05:38
Chloromethane	U		0.83	1.0	µg/L	1	12/16/2022 05:38
cis-1,2-Dichloroethene	U		0.42	1.0	µg/L	1	12/16/2022 05:38
cis-1,3-Dichloropropene	U		0.57	1.0	µg/L	1	12/16/2022 05:38
Cyclohexane	U		0.63	2.0	µg/L	1	12/16/2022 05:38
Dibromochloromethane	U		0.40	1.0	µg/L	1	12/16/2022 05:38
Dichlorodifluoromethane	U		0.68	1.0	µg/L	1	12/16/2022 05:38
Ethylbenzene	U		0.34	1.0	µg/L	1	12/16/2022 05:38
Isopropylbenzene	U		0.35	1.0	µg/L	1	12/16/2022 05:38
m,p-Xylene	U		0.81	2.0	µg/L	1	12/16/2022 05:38
Methyl acetate	U		0.59	2.0	µg/L	1	12/16/2022 05:38
Methyl tert-butyl ether	U		0.45	1.0	µg/L	1	12/16/2022 05:38
Methylcyclohexane	U		0.35	1.0	µg/L	1	12/16/2022 05:38
Methylene chloride	U		0.86	5.0	µg/L	1	12/16/2022 05:38
o-Xylene	U		0.31	1.0	µg/L	1	12/16/2022 05:38
Styrene	U		0.33	1.0	µg/L	1	12/16/2022 05:38
Tetrachloroethene	U		0.39	1.0	µg/L	1	12/16/2022 05:38

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: TW-01

Collection Date: 12/6/2022 01:45 PM

Work Order: 22120870

Lab ID: 22120870-04

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	U		0.45	1.0	µg/L	1	12/16/2022 05:38
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	12/16/2022 05:38
trans-1,3-Dichloropropene	U		0.38	1.0	µg/L	1	12/16/2022 05:38
Trichloroethene	U		0.43	1.0	µg/L	1	12/16/2022 05:38
Trichlorofluoromethane	U		0.52	1.0	µg/L	1	12/16/2022 05:38
Vinyl chloride	U		0.53	1.0	µg/L	1	12/16/2022 05:38
Xylenes, Total	U		0.81	3.0	µg/L	1	12/16/2022 05:38
Surr: 1,2-Dichloroethane-d4	113			80-120	%REC	1	12/16/2022 05:38
Surr: 4-Bromofluorobenzene	97.8			80-120	%REC	1	12/16/2022 05:38
Surr: Dibromofluoromethane	111			80-120	%REC	1	12/16/2022 05:38
Surr: Toluene-d8	95.6			80-120	%REC	1	12/16/2022 05:38

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: TW-06
Collection Date: 12/6/2022 02:15 PM

Work Order: 22120870
Lab ID: 22120870-05
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW3511 / 12/12/22		Analyst: MTB
DRO (C10-C28)	U		0.081	0.10	mg/L	1	12/12/2022 21:51
ORO (C28-C40)	0.094	J	0.051	0.10	mg/L	1	12/12/2022 21:51
Surr: 4-Terphenyl-d14	48.8			30-121	%REC	1	12/12/2022 21:51
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D				Analyst: MTB
GRO (C6-C10)	U		76	200	µg/L	1	12/13/2022 03:25
Surr: Toluene-d8	94.9			73-116	%REC	1	12/13/2022 03:25
MERCURY BY CVAA (DISSOLVED)			Method: SW7470A		Prep: SW7470 / 12/12/22		Analyst: KRA
Mercury	U		0.00016	0.00020	mg/L	1	12/12/2022 16:35
METALS BY ICP-MS (DISSOLVED)			Method: SW6020B		Prep: SW3005A / 12/16/22		Analyst: STP
Aluminum	U		0.0057	0.010	mg/L	1	12/16/2022 14:54
Antimony	U		0.00042	0.0050	mg/L	1	12/16/2022 14:54
Arsenic	0.00068	J	0.00019	0.0050	mg/L	1	12/16/2022 14:54
Barium	0.015		0.00057	0.0050	mg/L	1	12/16/2022 14:54
Beryllium	U		0.00013	0.0020	mg/L	1	12/16/2022 14:54
Cadmium	U		0.00014	0.0020	mg/L	1	12/16/2022 14:54
Calcium	41		0.22	0.50	mg/L	1	12/16/2022 14:54
Chromium	0.00072	J	0.00061	0.0050	mg/L	1	12/16/2022 14:54
Copper	U		0.00099	0.0050	mg/L	1	12/16/2022 14:54
Iron	U		0.047	0.080	mg/L	1	12/16/2022 14:54
Lead	U		0.00022	0.0050	mg/L	1	12/16/2022 14:54
Magnesium	35		0.037	0.20	mg/L	1	12/16/2022 14:54
Manganese	0.074		0.0017	0.0050	mg/L	1	12/16/2022 14:54
Nickel	0.0030	J	0.00085	0.0050	mg/L	1	12/16/2022 14:54
Potassium	0.65		0.034	0.20	mg/L	1	12/16/2022 14:54
Selenium	0.00050	J	0.00048	0.0050	mg/L	1	12/16/2022 14:54
Silver	U		0.00026	0.0050	mg/L	1	12/16/2022 14:54
Sodium	420		1.3	2.0	mg/L	10	12/16/2022 15:56
Thallium	0.0032	J	0.00015	0.0050	mg/L	1	12/16/2022 14:54
Vanadium	0.0055		0.00070	0.0050	mg/L	1	12/16/2022 14:54
Zinc	U		0.0022	0.010	mg/L	1	12/16/2022 14:54
SEMI-VOLATILE ORGANIC COMPOUNDS			Method: SW846 8270D		Prep: SW3510 / 12/13/22		Analyst: EEW
1,1'-Biphenyl	U		0.42	5.1	µg/L	1	12/20/2022 00:18
1,2,4,5-Tetrachlorobenzene	U		0.34	10	µg/L	1	12/20/2022 00:18
1,4-Dioxane	U		0.73	5.1	µg/L	1	12/20/2022 00:18
1-Methylnaphthalene	U		0.084	5.1	µg/L	1	12/20/2022 00:18
2,2'-Oxybis(1-chloropropane)	U		0.23	5.1	µg/L	1	12/20/2022 00:18

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: TW-06

Collection Date: 12/6/2022 02:15 PM

Work Order: 22120870

Lab ID: 22120870-05

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,3,4,6-Tetrachlorophenol	U		0.45	5.1	µg/L	1	12/20/2022 00:18
2,4,5-Trichlorophenol	U		0.17	5.1	µg/L	1	12/20/2022 00:18
2,4,6-Trichlorophenol	U		0.25	5.1	µg/L	1	12/20/2022 00:18
2,4-Dichlorophenol	U		0.35	5.1	µg/L	1	12/20/2022 00:18
2,4-Dimethylphenol	U		0.36	5.1	µg/L	1	12/20/2022 00:18
2,4-Dinitrophenol	U		2.6	5.1	µg/L	1	12/20/2022 00:18
2,4-Dinitrotoluene	U		0.42	5.1	µg/L	1	12/20/2022 00:18
2,6-Dinitrotoluene	U		0.11	5.1	µg/L	1	12/20/2022 00:18
2-Chloronaphthalene	U		0.076	5.1	µg/L	1	12/20/2022 00:18
2-Chlorophenol	U		0.23	5.1	µg/L	1	12/20/2022 00:18
2-Methylnaphthalene	U		0.066	5.1	µg/L	1	12/20/2022 00:18
2-Methylphenol	U		0.25	5.1	µg/L	1	12/20/2022 00:18
2-Nitroaniline	U		0.21	5.1	µg/L	1	12/20/2022 00:18
2-Nitrophenol	U		0.34	5.1	µg/L	1	12/20/2022 00:18
3&4-Methylphenol	U		0.21	5.1	µg/L	1	12/20/2022 00:18
3,3'-Dichlorobenzidine	U		0.46	5.1	µg/L	1	12/20/2022 00:18
3-Nitroaniline	U		0.65	5.1	µg/L	1	12/20/2022 00:18
4,6-Dinitro-2-methylphenol	U		0.27	5.1	µg/L	1	12/20/2022 00:18
4-Bromophenyl phenyl ether	U		0.33	5.1	µg/L	1	12/20/2022 00:18
4-Chloro-3-methylphenol	U		0.26	5.1	µg/L	1	12/20/2022 00:18
4-Chloroaniline	U		0.34	5.1	µg/L	1	12/20/2022 00:18
4-Chlorophenyl phenyl ether	U		0.31	5.1	µg/L	1	12/20/2022 00:18
4-Nitroaniline	U		0.58	5.1	µg/L	1	12/20/2022 00:18
4-Nitrophenol	U		0.24	5.1	µg/L	1	12/20/2022 00:18
Acenaphthene	U		0.082	5.1	µg/L	1	12/20/2022 00:18
Acenaphthylene	U		0.076	5.1	µg/L	1	12/20/2022 00:18
Acetophenone	U		0.37	1.0	µg/L	1	12/20/2022 00:18
Anthracene	U		0.028	5.1	µg/L	1	12/20/2022 00:18
Atrazine	U		0.35	1.0	µg/L	1	12/20/2022 00:18
Benzaldehyde	U		0.53	1.0	µg/L	1	12/20/2022 00:18
Benzo(a)anthracene	U		0.10	5.1	µg/L	1	12/20/2022 00:18
Benzo(a)pyrene	0.14	J	0.044	5.1	µg/L	1	12/20/2022 00:18
Benzo(b)fluoranthene	0.11	J	0.052	5.1	µg/L	1	12/20/2022 00:18
Benzo(g,h,i)perylene	0.14	J	0.090	5.1	µg/L	1	12/20/2022 00:18
Benzo(k)fluoranthene	0.12	J	0.048	5.1	µg/L	1	12/20/2022 00:18
Bis(2-chloroethoxy)methane	U		0.29	5.1	µg/L	1	12/20/2022 00:18
Bis(2-chloroethyl)ether	U		0.37	5.1	µg/L	1	12/20/2022 00:18
Bis(2-ethylhexyl)phthalate	0.79	J	0.40	5.1	µg/L	1	12/20/2022 00:18
Butyl benzyl phthalate	0.56	J	0.30	5.1	µg/L	1	12/20/2022 00:18
Caprolactam	U		0.97	10	µg/L	1	12/20/2022 00:18

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: TW-06
Collection Date: 12/6/2022 02:15 PM

Work Order: 22120870
Lab ID: 22120870-05
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Carbazole	U		0.24	5.1	µg/L	1	12/20/2022 00:18
Chrysene	U		0.048	5.1	µg/L	1	12/20/2022 00:18
Dibenzo(a,h)anthracene	0.13	J	0.074	5.1	µg/L	1	12/20/2022 00:18
Dibenzofuran	U		0.23	5.1	µg/L	1	12/20/2022 00:18
Diethyl phthalate	U		0.17	5.1	µg/L	1	12/20/2022 00:18
Dimethyl phthalate	U		0.18	5.1	µg/L	1	12/20/2022 00:18
Di-n-butyl phthalate	0.71	J	0.21	5.1	µg/L	1	12/20/2022 00:18
Di-n-octyl phthalate	U		0.54	5.1	µg/L	1	12/20/2022 00:18
Fluoranthene	U		0.038	5.1	µg/L	1	12/20/2022 00:18
Fluorene	U		0.052	5.1	µg/L	1	12/20/2022 00:18
Hexachlorobenzene	U		0.44	5.1	µg/L	1	12/20/2022 00:18
Hexachlorobutadiene	U		0.64	5.1	µg/L	1	12/20/2022 00:18
Hexachlorocyclopentadiene	U		1.1	5.1	µg/L	1	12/20/2022 00:18
Hexachloroethane	U		0.63	5.1	µg/L	1	12/20/2022 00:18
Indeno(1,2,3-cd)pyrene	0.14	J	0.068	5.1	µg/L	1	12/20/2022 00:18
Isophorone	U		0.34	5.1	µg/L	1	12/20/2022 00:18
Naphthalene	U		0.068	5.1	µg/L	1	12/20/2022 00:18
Nitrobenzene	U		0.26	5.1	µg/L	1	12/20/2022 00:18
N-Nitrosodi-n-propylamine	U		0.35	5.1	µg/L	1	12/20/2022 00:18
N-Nitrosodiphenylamine	U		0.49	5.1	µg/L	1	12/20/2022 00:18
Pentachlorophenol	U		0.98	5.1	µg/L	1	12/20/2022 00:18
Phenanthrene	U		0.082	5.1	µg/L	1	12/20/2022 00:18
Phenol	U		0.21	5.1	µg/L	1	12/20/2022 00:18
Pyrene	0.061	J	0.036	5.1	µg/L	1	12/20/2022 00:18
Surr: 2,4,6-Tribromophenol	73.0			47-103	%REC	1	12/20/2022 00:18
Surr: 2-Fluorobiphenyl	59.3			41-96	%REC	1	12/20/2022 00:18
Surr: 2-Fluorophenol	35.5			28-66	%REC	1	12/20/2022 00:18
Surr: 4-Terphenyl-d14	76.1			49-107	%REC	1	12/20/2022 00:18
Surr: Nitrobenzene-d5	59.9			41-95	%REC	1	12/20/2022 00:18
Surr: Phenol-d6	24.8			18-44	%REC	1	12/20/2022 00:18
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: NAD	
1,1,1-Trichloroethane	U		0.46	1.0	µg/L	1	12/16/2022 05:54
1,1,1,2-Tetrachloroethane	U		0.40	1.0	µg/L	1	12/16/2022 05:54
1,1,2-Trichloroethane	U		0.46	1.0	µg/L	1	12/16/2022 05:54
1,1,2-Trichlorotrifluoroethane	U		0.52	1.0	µg/L	1	12/16/2022 05:54
1,1-Dichloroethane	U		0.44	1.0	µg/L	1	12/16/2022 05:54
1,1-Dichloroethene	U		0.40	1.0	µg/L	1	12/16/2022 05:54
1,2,3-Trichlorobenzene	U		0.42	1.0	µg/L	1	12/16/2022 05:54
1,2,3-Trichloropropane	U		0.40	1.0	µg/L	1	12/16/2022 05:54

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: TW-06

Collection Date: 12/6/2022 02:15 PM

Work Order: 22120870

Lab ID: 22120870-05

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	U		0.45	1.0	µg/L	1	12/16/2022 05:54
1,2,4-Trimethylbenzene	U		0.45	1.0	µg/L	1	12/16/2022 05:54
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	12/16/2022 05:54
1,2-Dibromoethane	U		0.41	1.0	µg/L	1	12/16/2022 05:54
1,2-Dichlorobenzene	U		0.32	1.0	µg/L	1	12/16/2022 05:54
1,2-Dichloroethane	U		0.44	1.0	µg/L	1	12/16/2022 05:54
1,2-Dichloropropane	U		0.48	1.0	µg/L	1	12/16/2022 05:54
1,3,5-Trimethylbenzene	U		0.65	1.0	µg/L	1	12/16/2022 05:54
1,3-Dichlorobenzene	U		0.33	1.0	µg/L	1	12/16/2022 05:54
1,4-Dichlorobenzene	U		0.35	1.0	µg/L	1	12/16/2022 05:54
2-Butanone	U		0.52	5.0	µg/L	1	12/16/2022 05:54
2-Hexanone	U		0.59	5.0	µg/L	1	12/16/2022 05:54
4-Methyl-2-pentanone	U		0.52	1.0	µg/L	1	12/16/2022 05:54
Acetone	U		6.2	10	µg/L	1	12/16/2022 05:54
Benzene	U		0.46	1.0	µg/L	1	12/16/2022 05:54
Bromochloromethane	U		0.45	1.0	µg/L	1	12/16/2022 05:54
Bromodichloromethane	U		0.49	1.0	µg/L	1	12/16/2022 05:54
Bromoform	U		0.56	1.0	µg/L	1	12/16/2022 05:54
Bromomethane	U		0.90	1.0	µg/L	1	12/16/2022 05:54
Carbon disulfide	U		0.49	1.0	µg/L	1	12/16/2022 05:54
Carbon tetrachloride	U		0.40	1.0	µg/L	1	12/16/2022 05:54
Chlorobenzene	U		0.40	1.0	µg/L	1	12/16/2022 05:54
Chloroethane	U		0.68	1.0	µg/L	1	12/16/2022 05:54
Chloroform	U		0.46	1.0	µg/L	1	12/16/2022 05:54
Chloromethane	U		0.83	1.0	µg/L	1	12/16/2022 05:54
cis-1,2-Dichloroethene	U		0.42	1.0	µg/L	1	12/16/2022 05:54
cis-1,3-Dichloropropene	U		0.57	1.0	µg/L	1	12/16/2022 05:54
Cyclohexane	U		0.63	2.0	µg/L	1	12/16/2022 05:54
Dibromochloromethane	U		0.40	1.0	µg/L	1	12/16/2022 05:54
Dichlorodifluoromethane	U		0.68	1.0	µg/L	1	12/16/2022 05:54
Ethylbenzene	U		0.34	1.0	µg/L	1	12/16/2022 05:54
Isopropylbenzene	U		0.35	1.0	µg/L	1	12/16/2022 05:54
m,p-Xylene	U		0.81	2.0	µg/L	1	12/16/2022 05:54
Methyl acetate	U		0.59	2.0	µg/L	1	12/16/2022 05:54
Methyl tert-butyl ether	U		0.45	1.0	µg/L	1	12/16/2022 05:54
Methylcyclohexane	U		0.35	1.0	µg/L	1	12/16/2022 05:54
Methylene chloride	U		0.86	5.0	µg/L	1	12/16/2022 05:54
o-Xylene	U		0.31	1.0	µg/L	1	12/16/2022 05:54
Styrene	U		0.33	1.0	µg/L	1	12/16/2022 05:54
Tetrachloroethene	U		0.39	1.0	µg/L	1	12/16/2022 05:54

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: TW-06

Collection Date: 12/6/2022 02:15 PM

Work Order: 22120870

Lab ID: 22120870-05

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	U		0.45	1.0	µg/L	1	12/16/2022 05:54
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	12/16/2022 05:54
trans-1,3-Dichloropropene	U		0.38	1.0	µg/L	1	12/16/2022 05:54
Trichloroethene	U		0.43	1.0	µg/L	1	12/16/2022 05:54
Trichlorofluoromethane	U		0.52	1.0	µg/L	1	12/16/2022 05:54
Vinyl chloride	U		0.53	1.0	µg/L	1	12/16/2022 05:54
Xylenes, Total	U		0.81	3.0	µg/L	1	12/16/2022 05:54
Surr: 1,2-Dichloroethane-d4	111			80-120	%REC	1	12/16/2022 05:54
Surr: 4-Bromofluorobenzene	99.0			80-120	%REC	1	12/16/2022 05:54
Surr: Dibromofluoromethane	109			80-120	%REC	1	12/16/2022 05:54
Surr: Toluene-d8	94.6			80-120	%REC	1	12/16/2022 05:54

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: TW-05
Collection Date: 12/6/2022 02:45 PM

Work Order: 22120870
Lab ID: 22120870-06
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW3511 / 12/12/22		Analyst: MTB
DRO (C10-C28)	U		0.082	0.10	mg/L	1	12/12/2022 23:43
ORO (C28-C40)	0.067	J	0.051	0.10	mg/L	1	12/12/2022 23:43
Surr: 4-Terphenyl-d14	58.4			30-121	%REC	1	12/12/2022 23:43
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D				Analyst: MTB
GRO (C6-C10)	U		76	200	µg/L	1	12/13/2022 05:59
Surr: Toluene-d8	97.7			73-116	%REC	1	12/13/2022 05:59
MERCURY BY CVAA (DISSOLVED)			Method: SW7470A		Prep: SW7470 / 12/12/22		Analyst: KRA
Mercury	U		0.00016	0.00020	mg/L	1	12/12/2022 16:37
METALS BY ICP-MS (DISSOLVED)			Method: SW6020B		Prep: SW3005A / 12/16/22		Analyst: STP
Aluminum	U		0.0057	0.010	mg/L	1	12/16/2022 14:56
Antimony	U		0.00042	0.0050	mg/L	1	12/16/2022 14:56
Arsenic	0.00041	J	0.00019	0.0050	mg/L	1	12/16/2022 14:56
Barium	0.017		0.00057	0.0050	mg/L	1	12/16/2022 14:56
Beryllium	U		0.00013	0.0020	mg/L	1	12/16/2022 14:56
Cadmium	U		0.00014	0.0020	mg/L	1	12/16/2022 14:56
Calcium	40		0.22	0.50	mg/L	1	12/16/2022 14:56
Chromium	U		0.00061	0.0050	mg/L	1	12/16/2022 14:56
Copper	U		0.00099	0.0050	mg/L	1	12/16/2022 14:56
Iron	U		0.047	0.080	mg/L	1	12/16/2022 14:56
Lead	U		0.00022	0.0050	mg/L	1	12/16/2022 14:56
Magnesium	25		0.037	0.20	mg/L	1	12/16/2022 14:56
Manganese	0.16		0.0017	0.0050	mg/L	1	12/16/2022 14:56
Nickel	0.038		0.00085	0.0050	mg/L	1	12/16/2022 14:56
Potassium	0.41		0.034	0.20	mg/L	1	12/16/2022 14:56
Selenium	U		0.00048	0.0050	mg/L	1	12/16/2022 14:56
Silver	U		0.00026	0.0050	mg/L	1	12/16/2022 14:56
Sodium	150		0.13	0.20	mg/L	1	12/16/2022 14:56
Thallium	0.00052	J	0.00015	0.0050	mg/L	1	12/16/2022 14:56
Vanadium	0.0026	J	0.00070	0.0050	mg/L	1	12/16/2022 14:56
Zinc	0.0061	J	0.0022	0.010	mg/L	1	12/16/2022 14:56
SEMI-VOLATILE ORGANIC COMPOUNDS			Method: SW846 8270D		Prep: SW3510 / 12/13/22		Analyst: EEW
1,1'-Biphenyl	U		0.40	4.8	µg/L	1	12/20/2022 00:42
1,2,4,5-Tetrachlorobenzene	U		0.33	9.6	µg/L	1	12/20/2022 00:42
1,4-Dioxane	U		0.69	4.8	µg/L	1	12/20/2022 00:42
1-Methylnaphthalene	U		0.079	4.8	µg/L	1	12/20/2022 00:42
2,2'-Oxybis(1-chloropropane)	U		0.22	4.8	µg/L	1	12/20/2022 00:42

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: TW-05

Collection Date: 12/6/2022 02:45 PM

Work Order: 22120870

Lab ID: 22120870-06

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,3,4,6-Tetrachlorophenol	U		0.43	4.8	µg/L	1	12/20/2022 00:42
2,4,5-Trichlorophenol	U		0.16	4.8	µg/L	1	12/20/2022 00:42
2,4,6-Trichlorophenol	U		0.24	4.8	µg/L	1	12/20/2022 00:42
2,4-Dichlorophenol	U		0.33	4.8	µg/L	1	12/20/2022 00:42
2,4-Dimethylphenol	U		0.34	4.8	µg/L	1	12/20/2022 00:42
2,4-Dinitrophenol	U		2.5	4.8	µg/L	1	12/20/2022 00:42
2,4-Dinitrotoluene	U		0.40	4.8	µg/L	1	12/20/2022 00:42
2,6-Dinitrotoluene	U		0.11	4.8	µg/L	1	12/20/2022 00:42
2-Chloronaphthalene	U		0.072	4.8	µg/L	1	12/20/2022 00:42
2-Chlorophenol	U		0.22	4.8	µg/L	1	12/20/2022 00:42
2-Methylnaphthalene	U		0.062	4.8	µg/L	1	12/20/2022 00:42
2-Methylphenol	U		0.24	4.8	µg/L	1	12/20/2022 00:42
2-Nitroaniline	U		0.20	4.8	µg/L	1	12/20/2022 00:42
2-Nitrophenol	U		0.33	4.8	µg/L	1	12/20/2022 00:42
3&4-Methylphenol	U		0.20	4.8	µg/L	1	12/20/2022 00:42
3,3'-Dichlorobenzidine	U		0.44	4.8	µg/L	1	12/20/2022 00:42
3-Nitroaniline	U		0.61	4.8	µg/L	1	12/20/2022 00:42
4,6-Dinitro-2-methylphenol	U		0.26	4.8	µg/L	1	12/20/2022 00:42
4-Bromophenyl phenyl ether	U		0.32	4.8	µg/L	1	12/20/2022 00:42
4-Chloro-3-methylphenol	U		0.25	4.8	µg/L	1	12/20/2022 00:42
4-Chloroaniline	U		0.33	4.8	µg/L	1	12/20/2022 00:42
4-Chlorophenyl phenyl ether	U		0.30	4.8	µg/L	1	12/20/2022 00:42
4-Nitroaniline	U		0.55	4.8	µg/L	1	12/20/2022 00:42
4-Nitrophenol	U		0.23	4.8	µg/L	1	12/20/2022 00:42
Acenaphthene	U		0.078	4.8	µg/L	1	12/20/2022 00:42
Acenaphthylene	U		0.072	4.8	µg/L	1	12/20/2022 00:42
Acetophenone	U		0.35	0.96	µg/L	1	12/20/2022 00:42
Anthracene	U		0.027	4.8	µg/L	1	12/20/2022 00:42
Atrazine	U		0.33	0.96	µg/L	1	12/20/2022 00:42
Benzaldehyde	U		0.50	0.96	µg/L	1	12/20/2022 00:42
Benzo(a)anthracene	U		0.095	4.8	µg/L	1	12/20/2022 00:42
Benzo(a)pyrene	U		0.042	4.8	µg/L	1	12/20/2022 00:42
Benzo(b)fluoranthene	U		0.049	4.8	µg/L	1	12/20/2022 00:42
Benzo(g,h,i)perylene	U		0.085	4.8	µg/L	1	12/20/2022 00:42
Benzo(k)fluoranthene	U		0.046	4.8	µg/L	1	12/20/2022 00:42
Bis(2-chloroethoxy)methane	U		0.28	4.8	µg/L	1	12/20/2022 00:42
Bis(2-chloroethyl)ether	U		0.35	4.8	µg/L	1	12/20/2022 00:42
Bis(2-ethylhexyl)phthalate	U		0.38	4.8	µg/L	1	12/20/2022 00:42
Butyl benzyl phthalate	U		0.29	4.8	µg/L	1	12/20/2022 00:42
Caprolactam	U		0.92	9.6	µg/L	1	12/20/2022 00:42

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: TW-05

Collection Date: 12/6/2022 02:45 PM

Work Order: 22120870

Lab ID: 22120870-06

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Carbazole	U		0.23	4.8	µg/L	1	12/20/2022 00:42
Chrysene	U		0.046	4.8	µg/L	1	12/20/2022 00:42
Dibenzo(a,h)anthracene	U		0.070	4.8	µg/L	1	12/20/2022 00:42
Dibenzofuran	U		0.22	4.8	µg/L	1	12/20/2022 00:42
Diethyl phthalate	U		0.16	4.8	µg/L	1	12/20/2022 00:42
Dimethyl phthalate	U		0.17	4.8	µg/L	1	12/20/2022 00:42
Di-n-butyl phthalate	U		0.20	4.8	µg/L	1	12/20/2022 00:42
Di-n-octyl phthalate	U		0.51	4.8	µg/L	1	12/20/2022 00:42
Fluoranthene	U		0.036	4.8	µg/L	1	12/20/2022 00:42
Fluorene	U		0.049	4.8	µg/L	1	12/20/2022 00:42
Hexachlorobenzene	U		0.42	4.8	µg/L	1	12/20/2022 00:42
Hexachlorobutadiene	U		0.60	4.8	µg/L	1	12/20/2022 00:42
Hexachlorocyclopentadiene	U		1.0	4.8	µg/L	1	12/20/2022 00:42
Hexachloroethane	U		0.59	4.8	µg/L	1	12/20/2022 00:42
Indeno(1,2,3-cd)pyrene	U		0.064	4.8	µg/L	1	12/20/2022 00:42
Isophorone	U		0.33	4.8	µg/L	1	12/20/2022 00:42
Naphthalene	U		0.064	4.8	µg/L	1	12/20/2022 00:42
Nitrobenzene	U		0.25	4.8	µg/L	1	12/20/2022 00:42
N-Nitrosodi-n-propylamine	U		0.33	4.8	µg/L	1	12/20/2022 00:42
N-Nitrosodiphenylamine	U		0.47	4.8	µg/L	1	12/20/2022 00:42
Pentachlorophenol	U		0.93	4.8	µg/L	1	12/20/2022 00:42
Phenanthrene	U		0.078	4.8	µg/L	1	12/20/2022 00:42
Phenol	U		0.20	4.8	µg/L	1	12/20/2022 00:42
Pyrene	U		0.034	4.8	µg/L	1	12/20/2022 00:42
Surr: 2,4,6-Tribromophenol	64.6			47-103	%REC	1	12/20/2022 00:42
Surr: 2-Fluorobiphenyl	48.7			41-96	%REC	1	12/20/2022 00:42
Surr: 2-Fluorophenol	28.3			28-66	%REC	1	12/20/2022 00:42
Surr: 4-Terphenyl-d14	70.3			49-107	%REC	1	12/20/2022 00:42
Surr: Nitrobenzene-d5	48.8			41-95	%REC	1	12/20/2022 00:42
Surr: Phenol-d6	19.9			18-44	%REC	1	12/20/2022 00:42
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: NAD	
1,1,1-Trichloroethane	U		0.46	1.0	µg/L	1	12/16/2022 06:09
1,1,1,2-Tetrachloroethane	U		0.40	1.0	µg/L	1	12/16/2022 06:09
1,1,2-Trichloroethane	U		0.46	1.0	µg/L	1	12/16/2022 06:09
1,1,2-Trichlorotrifluoroethane	U		0.52	1.0	µg/L	1	12/16/2022 06:09
1,1-Dichloroethane	U		0.44	1.0	µg/L	1	12/16/2022 06:09
1,1-Dichloroethene	U		0.40	1.0	µg/L	1	12/16/2022 06:09
1,2,3-Trichlorobenzene	U		0.42	1.0	µg/L	1	12/16/2022 06:09
1,2,3-Trichloropropane	U		0.40	1.0	µg/L	1	12/16/2022 06:09

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: TW-05

Collection Date: 12/6/2022 02:45 PM

Work Order: 22120870

Lab ID: 22120870-06

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	U		0.45	1.0	µg/L	1	12/16/2022 06:09
1,2,4-Trimethylbenzene	U		0.45	1.0	µg/L	1	12/16/2022 06:09
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	12/16/2022 06:09
1,2-Dibromoethane	U		0.41	1.0	µg/L	1	12/16/2022 06:09
1,2-Dichlorobenzene	U		0.32	1.0	µg/L	1	12/16/2022 06:09
1,2-Dichloroethane	U		0.44	1.0	µg/L	1	12/16/2022 06:09
1,2-Dichloropropane	U		0.48	1.0	µg/L	1	12/16/2022 06:09
1,3,5-Trimethylbenzene	U		0.65	1.0	µg/L	1	12/16/2022 06:09
1,3-Dichlorobenzene	U		0.33	1.0	µg/L	1	12/16/2022 06:09
1,4-Dichlorobenzene	U		0.35	1.0	µg/L	1	12/16/2022 06:09
2-Butanone	U		0.52	5.0	µg/L	1	12/16/2022 06:09
2-Hexanone	U		0.59	5.0	µg/L	1	12/16/2022 06:09
4-Methyl-2-pentanone	U		0.52	1.0	µg/L	1	12/16/2022 06:09
Acetone	U		6.2	10	µg/L	1	12/16/2022 06:09
Benzene	U		0.46	1.0	µg/L	1	12/16/2022 06:09
Bromochloromethane	U		0.45	1.0	µg/L	1	12/16/2022 06:09
Bromodichloromethane	U		0.49	1.0	µg/L	1	12/16/2022 06:09
Bromoform	U		0.56	1.0	µg/L	1	12/16/2022 06:09
Bromomethane	U		0.90	1.0	µg/L	1	12/16/2022 06:09
Carbon disulfide	U		0.49	1.0	µg/L	1	12/16/2022 06:09
Carbon tetrachloride	U		0.40	1.0	µg/L	1	12/16/2022 06:09
Chlorobenzene	U		0.40	1.0	µg/L	1	12/16/2022 06:09
Chloroethane	U		0.68	1.0	µg/L	1	12/16/2022 06:09
Chloroform	U		0.46	1.0	µg/L	1	12/16/2022 06:09
Chloromethane	U		0.83	1.0	µg/L	1	12/16/2022 06:09
cis-1,2-Dichloroethene	U		0.42	1.0	µg/L	1	12/16/2022 06:09
cis-1,3-Dichloropropene	U		0.57	1.0	µg/L	1	12/16/2022 06:09
Cyclohexane	U		0.63	2.0	µg/L	1	12/16/2022 06:09
Dibromochloromethane	U		0.40	1.0	µg/L	1	12/16/2022 06:09
Dichlorodifluoromethane	U		0.68	1.0	µg/L	1	12/16/2022 06:09
Ethylbenzene	U		0.34	1.0	µg/L	1	12/16/2022 06:09
Isopropylbenzene	U		0.35	1.0	µg/L	1	12/16/2022 06:09
m,p-Xylene	U		0.81	2.0	µg/L	1	12/16/2022 06:09
Methyl acetate	U		0.59	2.0	µg/L	1	12/16/2022 06:09
Methyl tert-butyl ether	U		0.45	1.0	µg/L	1	12/16/2022 06:09
Methylcyclohexane	U		0.35	1.0	µg/L	1	12/16/2022 06:09
Methylene chloride	U		0.86	5.0	µg/L	1	12/16/2022 06:09
o-Xylene	U		0.31	1.0	µg/L	1	12/16/2022 06:09
Styrene	U		0.33	1.0	µg/L	1	12/16/2022 06:09
Tetrachloroethene	U		0.39	1.0	µg/L	1	12/16/2022 06:09

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: TW-05

Collection Date: 12/6/2022 02:45 PM

Work Order: 22120870

Lab ID: 22120870-06

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	U		0.45	1.0	µg/L	1	12/16/2022 06:09
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	12/16/2022 06:09
trans-1,3-Dichloropropene	U		0.38	1.0	µg/L	1	12/16/2022 06:09
Trichloroethene	U		0.43	1.0	µg/L	1	12/16/2022 06:09
Trichlorofluoromethane	U		0.52	1.0	µg/L	1	12/16/2022 06:09
Vinyl chloride	U		0.53	1.0	µg/L	1	12/16/2022 06:09
Xylenes, Total	U		0.81	3.0	µg/L	1	12/16/2022 06:09
Surr: 1,2-Dichloroethane-d4	109			80-120	%REC	1	12/16/2022 06:09
Surr: 4-Bromofluorobenzene	96.4			80-120	%REC	1	12/16/2022 06:09
Surr: Dibromofluoromethane	107			80-120	%REC	1	12/16/2022 06:09
Surr: Toluene-d8	94.3			80-120	%REC	1	12/16/2022 06:09

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: TW-04

Collection Date: 12/6/2022 03:15 PM

Work Order: 22120870

Lab ID: 22120870-07

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW3511 / 12/12/22		Analyst: MTB
DRO (C10-C28)	U		0.082	0.10	mg/L	1	12/13/2022 00:20
ORO (C28-C40)	U		0.052	0.10	mg/L	1	12/13/2022 00:20
Surr: 4-Terphenyl-d14	55.6			30-121	%REC	1	12/13/2022 00:20
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D				Analyst: MTB
GRO (C6-C10)	U		76	200	µg/L	1	12/13/2022 06:21
Surr: Toluene-d8	95.1			73-116	%REC	1	12/13/2022 06:21
MERCURY BY CVAA (DISSOLVED)			Method: SW7470A		Prep: SW7470 / 12/12/22		Analyst: KRA
Mercury	U		0.00016	0.00020	mg/L	1	12/12/2022 16:44
METALS BY ICP-MS (DISSOLVED)			Method: SW6020B		Prep: SW3005A / 12/16/22		Analyst: STP
Aluminum	U		0.0057	0.010	mg/L	1	12/16/2022 14:58
Antimony	U		0.00042	0.0050	mg/L	1	12/16/2022 14:58
Arsenic	0.00070	J	0.00019	0.0050	mg/L	1	12/16/2022 14:58
Barium	0.017		0.00057	0.0050	mg/L	1	12/16/2022 14:58
Beryllium	U		0.00013	0.0020	mg/L	1	12/16/2022 14:58
Cadmium	U		0.00014	0.0020	mg/L	1	12/16/2022 14:58
Calcium	39		0.22	0.50	mg/L	1	12/16/2022 14:58
Chromium	U		0.00061	0.0050	mg/L	1	12/16/2022 14:58
Copper	0.012		0.00099	0.0050	mg/L	1	12/16/2022 14:58
Iron	U		0.047	0.080	mg/L	1	12/16/2022 14:58
Lead	0.0016	J	0.00022	0.0050	mg/L	1	12/16/2022 14:58
Magnesium	30		0.037	0.20	mg/L	1	12/16/2022 14:58
Manganese	0.14		0.0017	0.0050	mg/L	1	12/16/2022 14:58
Nickel	0.0049	J	0.00085	0.0050	mg/L	1	12/16/2022 14:58
Potassium	0.34		0.034	0.20	mg/L	1	12/16/2022 14:58
Selenium	U		0.00048	0.0050	mg/L	1	12/16/2022 14:58
Silver	U		0.00026	0.0050	mg/L	1	12/16/2022 14:58
Sodium	380		1.3	2.0	mg/L	10	12/16/2022 15:58
Thallium	U		0.00015	0.0050	mg/L	1	12/16/2022 14:58
Vanadium	0.0037	J	0.00070	0.0050	mg/L	1	12/16/2022 14:58
Zinc	0.020		0.0022	0.010	mg/L	1	12/16/2022 14:58
SEMI-VOLATILE ORGANIC COMPOUNDS			Method: SW846 8270D		Prep: SW3510 / 12/13/22		Analyst: EEW
1,1'-Biphenyl	U		0.40	4.7	µg/L	1	12/20/2022 01:05
1,2,4,5-Tetrachlorobenzene	U		0.32	9.5	µg/L	1	12/20/2022 01:05
1,4-Dioxane	U		0.68	4.7	µg/L	1	12/20/2022 01:05
1-Methylnaphthalene	U		0.078	4.7	µg/L	1	12/20/2022 01:05
2,2'-Oxybis(1-chloropropane)	U		0.22	4.7	µg/L	1	12/20/2022 01:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: TW-04

Collection Date: 12/6/2022 03:15 PM

Work Order: 22120870

Lab ID: 22120870-07

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,3,4,6-Tetrachlorophenol	U		0.43	4.7	µg/L	1	12/20/2022 01:05
2,4,5-Trichlorophenol	U		0.16	4.7	µg/L	1	12/20/2022 01:05
2,4,6-Trichlorophenol	U		0.24	4.7	µg/L	1	12/20/2022 01:05
2,4-Dichlorophenol	U		0.33	4.7	µg/L	1	12/20/2022 01:05
2,4-Dimethylphenol	U		0.34	4.7	µg/L	1	12/20/2022 01:05
2,4-Dinitrophenol	U		2.5	4.7	µg/L	1	12/20/2022 01:05
2,4-Dinitrotoluene	U		0.40	4.7	µg/L	1	12/20/2022 01:05
2,6-Dinitrotoluene	U		0.10	4.7	µg/L	1	12/20/2022 01:05
2-Chloronaphthalene	U		0.071	4.7	µg/L	1	12/20/2022 01:05
2-Chlorophenol	U		0.22	4.7	µg/L	1	12/20/2022 01:05
2-Methylnaphthalene	U		0.061	4.7	µg/L	1	12/20/2022 01:05
2-Methylphenol	U		0.24	4.7	µg/L	1	12/20/2022 01:05
2-Nitroaniline	U		0.20	4.7	µg/L	1	12/20/2022 01:05
2-Nitrophenol	U		0.32	4.7	µg/L	1	12/20/2022 01:05
3&4-Methylphenol	U		0.20	4.7	µg/L	1	12/20/2022 01:05
3,3'-Dichlorobenzidine	U		0.43	4.7	µg/L	1	12/20/2022 01:05
3-Nitroaniline	U		0.61	4.7	µg/L	1	12/20/2022 01:05
4,6-Dinitro-2-methylphenol	U		0.26	4.7	µg/L	1	12/20/2022 01:05
4-Bromophenyl phenyl ether	U		0.31	4.7	µg/L	1	12/20/2022 01:05
4-Chloro-3-methylphenol	U		0.25	4.7	µg/L	1	12/20/2022 01:05
4-Chloroaniline	U		0.32	4.7	µg/L	1	12/20/2022 01:05
4-Chlorophenyl phenyl ether	U		0.29	4.7	µg/L	1	12/20/2022 01:05
4-Nitroaniline	U		0.54	4.7	µg/L	1	12/20/2022 01:05
4-Nitrophenol	U		0.23	4.7	µg/L	1	12/20/2022 01:05
Acenaphthene	U		0.077	4.7	µg/L	1	12/20/2022 01:05
Acenaphthylene	U		0.071	4.7	µg/L	1	12/20/2022 01:05
Acetophenone	U		0.35	0.95	µg/L	1	12/20/2022 01:05
Anthracene	U		0.026	4.7	µg/L	1	12/20/2022 01:05
Atrazine	U		0.33	0.95	µg/L	1	12/20/2022 01:05
Benzaldehyde	U		0.49	0.95	µg/L	1	12/20/2022 01:05
Benzo(a)anthracene	U		0.094	4.7	µg/L	1	12/20/2022 01:05
Benzo(a)pyrene	U		0.042	4.7	µg/L	1	12/20/2022 01:05
Benzo(b)fluoranthene	U		0.048	4.7	µg/L	1	12/20/2022 01:05
Benzo(g,h,i)perylene	U		0.084	4.7	µg/L	1	12/20/2022 01:05
Benzo(k)fluoranthene	U		0.045	4.7	µg/L	1	12/20/2022 01:05
Bis(2-chloroethoxy)methane	U		0.27	4.7	µg/L	1	12/20/2022 01:05
Bis(2-chloroethyl)ether	U		0.35	4.7	µg/L	1	12/20/2022 01:05
Bis(2-ethylhexyl)phthalate	0.83	J	0.38	4.7	µg/L	1	12/20/2022 01:05
Butyl benzyl phthalate	U		0.28	4.7	µg/L	1	12/20/2022 01:05
Caprolactam	U		0.91	9.5	µg/L	1	12/20/2022 01:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: TW-04
Collection Date: 12/6/2022 03:15 PM

Work Order: 22120870
Lab ID: 22120870-07
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Carbazole	U		0.23	4.7	µg/L	1	12/20/2022 01:05
Chrysene	U		0.045	4.7	µg/L	1	12/20/2022 01:05
Dibenzo(a,h)anthracene	U		0.069	4.7	µg/L	1	12/20/2022 01:05
Dibenzofuran	U		0.22	4.7	µg/L	1	12/20/2022 01:05
Diethyl phthalate	U		0.16	4.7	µg/L	1	12/20/2022 01:05
Dimethyl phthalate	U		0.17	4.7	µg/L	1	12/20/2022 01:05
Di-n-butyl phthalate	U		0.20	4.7	µg/L	1	12/20/2022 01:05
Di-n-octyl phthalate	U		0.50	4.7	µg/L	1	12/20/2022 01:05
Fluoranthene	U		0.036	4.7	µg/L	1	12/20/2022 01:05
Fluorene	U		0.048	4.7	µg/L	1	12/20/2022 01:05
Hexachlorobenzene	U		0.42	4.7	µg/L	1	12/20/2022 01:05
Hexachlorobutadiene	U		0.60	4.7	µg/L	1	12/20/2022 01:05
Hexachlorocyclopentadiene	U		1.0	4.7	µg/L	1	12/20/2022 01:05
Hexachloroethane	U		0.59	4.7	µg/L	1	12/20/2022 01:05
Indeno(1,2,3-cd)pyrene	U		0.063	4.7	µg/L	1	12/20/2022 01:05
Isophorone	U		0.32	4.7	µg/L	1	12/20/2022 01:05
Naphthalene	U		0.063	4.7	µg/L	1	12/20/2022 01:05
Nitrobenzene	U		0.25	4.7	µg/L	1	12/20/2022 01:05
N-Nitrosodi-n-propylamine	U		0.33	4.7	µg/L	1	12/20/2022 01:05
N-Nitrosodiphenylamine	U		0.46	4.7	µg/L	1	12/20/2022 01:05
Pentachlorophenol	U		0.92	4.7	µg/L	1	12/20/2022 01:05
Phenanthrene	U		0.077	4.7	µg/L	1	12/20/2022 01:05
Phenol	U		0.20	4.7	µg/L	1	12/20/2022 01:05
Pyrene	U		0.034	4.7	µg/L	1	12/20/2022 01:05
Surr: 2,4,6-Tribromophenol	71.6			47-103	%REC	1	12/20/2022 01:05
Surr: 2-Fluorobiphenyl	54.9			41-96	%REC	1	12/20/2022 01:05
Surr: 2-Fluorophenol	30.4			28-66	%REC	1	12/20/2022 01:05
Surr: 4-Terphenyl-d14	71.2			49-107	%REC	1	12/20/2022 01:05
Surr: Nitrobenzene-d5	51.5			41-95	%REC	1	12/20/2022 01:05
Surr: Phenol-d6	21.4			18-44	%REC	1	12/20/2022 01:05

VOLATILE ORGANIC COMPOUNDS

Method: SW8260C

Analyst: NAD

1,1,1-Trichloroethane	U		0.46	1.0	µg/L	1	12/16/2022 06:25
1,1,1,2-Tetrachloroethane	U		0.40	1.0	µg/L	1	12/16/2022 06:25
1,1,2-Trichloroethane	U		0.46	1.0	µg/L	1	12/16/2022 06:25
1,1,2-Trichlorotrifluoroethane	U		0.52	1.0	µg/L	1	12/16/2022 06:25
1,1-Dichloroethane	U		0.44	1.0	µg/L	1	12/16/2022 06:25
1,1-Dichloroethene	U		0.40	1.0	µg/L	1	12/16/2022 06:25
1,2,3-Trichlorobenzene	U		0.42	1.0	µg/L	1	12/16/2022 06:25
1,2,3-Trichloropropane	U		0.40	1.0	µg/L	1	12/16/2022 06:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: TW-04

Collection Date: 12/6/2022 03:15 PM

Work Order: 22120870

Lab ID: 22120870-07

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	U		0.45	1.0	µg/L	1	12/16/2022 06:25
1,2,4-Trimethylbenzene	U		0.45	1.0	µg/L	1	12/16/2022 06:25
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	12/16/2022 06:25
1,2-Dibromoethane	U		0.41	1.0	µg/L	1	12/16/2022 06:25
1,2-Dichlorobenzene	U		0.32	1.0	µg/L	1	12/16/2022 06:25
1,2-Dichloroethane	U		0.44	1.0	µg/L	1	12/16/2022 06:25
1,2-Dichloropropane	U		0.48	1.0	µg/L	1	12/16/2022 06:25
1,3,5-Trimethylbenzene	U		0.65	1.0	µg/L	1	12/16/2022 06:25
1,3-Dichlorobenzene	U		0.33	1.0	µg/L	1	12/16/2022 06:25
1,4-Dichlorobenzene	U		0.35	1.0	µg/L	1	12/16/2022 06:25
2-Butanone	U		0.52	5.0	µg/L	1	12/16/2022 06:25
2-Hexanone	U		0.59	5.0	µg/L	1	12/16/2022 06:25
4-Methyl-2-pentanone	U		0.52	1.0	µg/L	1	12/16/2022 06:25
Acetone	U		6.2	10	µg/L	1	12/16/2022 06:25
Benzene	U		0.46	1.0	µg/L	1	12/16/2022 06:25
Bromochloromethane	U		0.45	1.0	µg/L	1	12/16/2022 06:25
Bromodichloromethane	U		0.49	1.0	µg/L	1	12/16/2022 06:25
Bromoform	U		0.56	1.0	µg/L	1	12/16/2022 06:25
Bromomethane	U		0.90	1.0	µg/L	1	12/16/2022 06:25
Carbon disulfide	U		0.49	1.0	µg/L	1	12/16/2022 06:25
Carbon tetrachloride	U		0.40	1.0	µg/L	1	12/16/2022 06:25
Chlorobenzene	U		0.40	1.0	µg/L	1	12/16/2022 06:25
Chloroethane	U		0.68	1.0	µg/L	1	12/16/2022 06:25
Chloroform	U		0.46	1.0	µg/L	1	12/16/2022 06:25
Chloromethane	U		0.83	1.0	µg/L	1	12/16/2022 06:25
cis-1,2-Dichloroethene	U		0.42	1.0	µg/L	1	12/16/2022 06:25
cis-1,3-Dichloropropene	U		0.57	1.0	µg/L	1	12/16/2022 06:25
Cyclohexane	U		0.63	2.0	µg/L	1	12/16/2022 06:25
Dibromochloromethane	U		0.40	1.0	µg/L	1	12/16/2022 06:25
Dichlorodifluoromethane	U		0.68	1.0	µg/L	1	12/16/2022 06:25
Ethylbenzene	U		0.34	1.0	µg/L	1	12/16/2022 06:25
Isopropylbenzene	U		0.35	1.0	µg/L	1	12/16/2022 06:25
m,p-Xylene	U		0.81	2.0	µg/L	1	12/16/2022 06:25
Methyl acetate	U		0.59	2.0	µg/L	1	12/16/2022 06:25
Methyl tert-butyl ether	U		0.45	1.0	µg/L	1	12/16/2022 06:25
Methylcyclohexane	U		0.35	1.0	µg/L	1	12/16/2022 06:25
Methylene chloride	U		0.86	5.0	µg/L	1	12/16/2022 06:25
o-Xylene	U		0.31	1.0	µg/L	1	12/16/2022 06:25
Styrene	U		0.33	1.0	µg/L	1	12/16/2022 06:25
Tetrachloroethene	U		0.39	1.0	µg/L	1	12/16/2022 06:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: TW-04

Collection Date: 12/6/2022 03:15 PM

Work Order: 22120870

Lab ID: 22120870-07

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	U		0.45	1.0	µg/L	1	12/16/2022 06:25
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	12/16/2022 06:25
trans-1,3-Dichloropropene	U		0.38	1.0	µg/L	1	12/16/2022 06:25
Trichloroethene	U		0.43	1.0	µg/L	1	12/16/2022 06:25
Trichlorofluoromethane	U		0.52	1.0	µg/L	1	12/16/2022 06:25
Vinyl chloride	U		0.53	1.0	µg/L	1	12/16/2022 06:25
Xylenes, Total	U		0.81	3.0	µg/L	1	12/16/2022 06:25
Surr: 1,2-Dichloroethane-d4	112			80-120	%REC	1	12/16/2022 06:25
Surr: 4-Bromofluorobenzene	96.8			80-120	%REC	1	12/16/2022 06:25
Surr: Dibromofluoromethane	107			80-120	%REC	1	12/16/2022 06:25
Surr: Toluene-d8	93.4			80-120	%REC	1	12/16/2022 06:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: EB-01
Collection Date: 12/6/2022 03:50 PM

Work Order: 22120870
Lab ID: 22120870-08
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW3511 / 12/12/22		Analyst: MTB
DRO (C10-C28)	U		0.081	0.10	mg/L	1	12/13/2022 00:58
ORO (C28-C40)	U		0.051	0.10	mg/L	1	12/13/2022 00:58
Surr: 4-Terphenyl-d14	76.3			30-121	%REC	1	12/13/2022 00:58
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D				Analyst: MTB
GRO (C6-C10)	U		76	200	µg/L	1	12/13/2022 03:47
Surr: Toluene-d8	92.4			73-116	%REC	1	12/13/2022 03:47
MERCURY BY CVAA (DISSOLVED)			Method: SW7470A		Prep: SW7470 / 12/12/22		Analyst: KRA
Mercury	U		0.00016	0.00020	mg/L	1	12/12/2022 16:46
METALS BY ICP-MS (DISSOLVED)			Method: SW6020B		Prep: SW3005A / 12/16/22		Analyst: STP
Aluminum	U		0.0057	0.010	mg/L	1	12/16/2022 14:59
Antimony	U		0.00042	0.0050	mg/L	1	12/16/2022 14:59
Arsenic	U		0.00019	0.0050	mg/L	1	12/16/2022 14:59
Barium	U		0.00057	0.0050	mg/L	1	12/16/2022 14:59
Beryllium	U		0.00013	0.0020	mg/L	1	12/16/2022 14:59
Cadmium	U		0.00014	0.0020	mg/L	1	12/16/2022 14:59
Calcium	U		0.22	0.50	mg/L	1	12/16/2022 14:59
Chromium	U		0.00061	0.0050	mg/L	1	12/16/2022 14:59
Copper	U		0.00099	0.0050	mg/L	1	12/16/2022 14:59
Iron	U		0.047	0.080	mg/L	1	12/16/2022 14:59
Lead	U		0.00022	0.0050	mg/L	1	12/16/2022 14:59
Magnesium	U		0.037	0.20	mg/L	1	12/16/2022 14:59
Manganese	U		0.0017	0.0050	mg/L	1	12/16/2022 14:59
Nickel	U		0.00085	0.0050	mg/L	1	12/16/2022 14:59
Potassium	U		0.034	0.20	mg/L	1	12/16/2022 14:59
Selenium	U		0.00048	0.0050	mg/L	1	12/16/2022 14:59
Silver	U		0.00026	0.0050	mg/L	1	12/16/2022 14:59
Sodium	U		0.13	0.20	mg/L	1	12/16/2022 14:59
Thallium	U		0.00015	0.0050	mg/L	1	12/16/2022 14:59
Vanadium	U		0.00070	0.0050	mg/L	1	12/16/2022 14:59
Zinc	0.0035	J	0.0022	0.010	mg/L	1	12/16/2022 14:59
SEMI-VOLATILE ORGANIC COMPOUNDS			Method: SW846 8270D		Prep: SW3510 / 12/13/22		Analyst: EEW
1,1'-Biphenyl	U		0.40	4.8	µg/L	1	12/20/2022 01:28
1,2,4,5-Tetrachlorobenzene	U		0.33	9.6	µg/L	1	12/20/2022 01:28
1,4-Dioxane	U		0.69	4.8	µg/L	1	12/20/2022 01:28
1-Methylnaphthalene	U		0.080	4.8	µg/L	1	12/20/2022 01:28
2,2'-Oxybis(1-chloropropane)	U		0.22	4.8	µg/L	1	12/20/2022 01:28

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: EB-01

Collection Date: 12/6/2022 03:50 PM

Work Order: 22120870

Lab ID: 22120870-08

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,3,4,6-Tetrachlorophenol	U		0.43	4.8	µg/L	1	12/20/2022 01:28
2,4,5-Trichlorophenol	U		0.16	4.8	µg/L	1	12/20/2022 01:28
2,4,6-Trichlorophenol	U		0.24	4.8	µg/L	1	12/20/2022 01:28
2,4-Dichlorophenol	U		0.34	4.8	µg/L	1	12/20/2022 01:28
2,4-Dimethylphenol	U		0.35	4.8	µg/L	1	12/20/2022 01:28
2,4-Dinitrophenol	U		2.5	4.8	µg/L	1	12/20/2022 01:28
2,4-Dinitrotoluene	U		0.40	4.8	µg/L	1	12/20/2022 01:28
2,6-Dinitrotoluene	U		0.11	4.8	µg/L	1	12/20/2022 01:28
2-Chloronaphthalene	U		0.072	4.8	µg/L	1	12/20/2022 01:28
2-Chlorophenol	U		0.22	4.8	µg/L	1	12/20/2022 01:28
2-Methylnaphthalene	U		0.062	4.8	µg/L	1	12/20/2022 01:28
2-Methylphenol	U		0.24	4.8	µg/L	1	12/20/2022 01:28
2-Nitroaniline	U		0.20	4.8	µg/L	1	12/20/2022 01:28
2-Nitrophenol	U		0.33	4.8	µg/L	1	12/20/2022 01:28
3&4-Methylphenol	U		0.20	4.8	µg/L	1	12/20/2022 01:28
3,3'-Dichlorobenzidine	U		0.44	4.8	µg/L	1	12/20/2022 01:28
3-Nitroaniline	U		0.62	4.8	µg/L	1	12/20/2022 01:28
4,6-Dinitro-2-methylphenol	U		0.26	4.8	µg/L	1	12/20/2022 01:28
4-Bromophenyl phenyl ether	U		0.32	4.8	µg/L	1	12/20/2022 01:28
4-Chloro-3-methylphenol	U		0.25	4.8	µg/L	1	12/20/2022 01:28
4-Chloroaniline	U		0.33	4.8	µg/L	1	12/20/2022 01:28
4-Chlorophenyl phenyl ether	U		0.30	4.8	µg/L	1	12/20/2022 01:28
4-Nitroaniline	U		0.55	4.8	µg/L	1	12/20/2022 01:28
4-Nitrophenol	U		0.23	4.8	µg/L	1	12/20/2022 01:28
Acenaphthene	U		0.078	4.8	µg/L	1	12/20/2022 01:28
Acenaphthylene	U		0.072	4.8	µg/L	1	12/20/2022 01:28
Acetophenone	U		0.36	0.96	µg/L	1	12/20/2022 01:28
Anthracene	U		0.027	4.8	µg/L	1	12/20/2022 01:28
Atrazine	U		0.34	0.96	µg/L	1	12/20/2022 01:28
Benzaldehyde	1.4		0.50	0.96	µg/L	1	12/20/2022 01:28
Benzo(a)anthracene	U		0.095	4.8	µg/L	1	12/20/2022 01:28
Benzo(a)pyrene	U		0.042	4.8	µg/L	1	12/20/2022 01:28
Benzo(b)fluoranthene	U		0.049	4.8	µg/L	1	12/20/2022 01:28
Benzo(g,h,i)perylene	U		0.086	4.8	µg/L	1	12/20/2022 01:28
Benzo(k)fluoranthene	U		0.046	4.8	µg/L	1	12/20/2022 01:28
Bis(2-chloroethoxy)methane	U		0.28	4.8	µg/L	1	12/20/2022 01:28
Bis(2-chloroethyl)ether	U		0.36	4.8	µg/L	1	12/20/2022 01:28
Bis(2-ethylhexyl)phthalate	U		0.38	4.8	µg/L	1	12/20/2022 01:28
Butyl benzyl phthalate	U		0.29	4.8	µg/L	1	12/20/2022 01:28
Caprolactam	U		0.92	9.6	µg/L	1	12/20/2022 01:28

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: EB-01

Collection Date: 12/6/2022 03:50 PM

Work Order: 22120870

Lab ID: 22120870-08

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Carbazole	U		0.23	4.8	µg/L	1	12/20/2022 01:28
Chrysene	U		0.046	4.8	µg/L	1	12/20/2022 01:28
Dibenzo(a,h)anthracene	U		0.070	4.8	µg/L	1	12/20/2022 01:28
Dibenzofuran	U		0.22	4.8	µg/L	1	12/20/2022 01:28
Diethyl phthalate	U		0.16	4.8	µg/L	1	12/20/2022 01:28
Dimethyl phthalate	U		0.17	4.8	µg/L	1	12/20/2022 01:28
Di-n-butyl phthalate	0.54	J	0.20	4.8	µg/L	1	12/20/2022 01:28
Di-n-octyl phthalate	U		0.51	4.8	µg/L	1	12/20/2022 01:28
Fluoranthene	U		0.037	4.8	µg/L	1	12/20/2022 01:28
Fluorene	U		0.049	4.8	µg/L	1	12/20/2022 01:28
Hexachlorobenzene	U		0.42	4.8	µg/L	1	12/20/2022 01:28
Hexachlorobutadiene	U		0.61	4.8	µg/L	1	12/20/2022 01:28
Hexachlorocyclopentadiene	U		1.0	4.8	µg/L	1	12/20/2022 01:28
Hexachloroethane	U		0.60	4.8	µg/L	1	12/20/2022 01:28
Indeno(1,2,3-cd)pyrene	U		0.064	4.8	µg/L	1	12/20/2022 01:28
Isophorone	U		0.33	4.8	µg/L	1	12/20/2022 01:28
Naphthalene	U		0.064	4.8	µg/L	1	12/20/2022 01:28
Nitrobenzene	U		0.25	4.8	µg/L	1	12/20/2022 01:28
N-Nitrosodi-n-propylamine	U		0.34	4.8	µg/L	1	12/20/2022 01:28
N-Nitrosodiphenylamine	U		0.47	4.8	µg/L	1	12/20/2022 01:28
Pentachlorophenol	U		0.93	4.8	µg/L	1	12/20/2022 01:28
Phenanthrene	U		0.078	4.8	µg/L	1	12/20/2022 01:28
Phenol	U		0.20	4.8	µg/L	1	12/20/2022 01:28
Pyrene	U		0.035	4.8	µg/L	1	12/20/2022 01:28
Surr: 2,4,6-Tribromophenol	63.2			47-103	%REC	1	12/20/2022 01:28
Surr: 2-Fluorobiphenyl	51.7			41-96	%REC	1	12/20/2022 01:28
Surr: 2-Fluorophenol	33.2			28-66	%REC	1	12/20/2022 01:28
Surr: 4-Terphenyl-d14	79.8			49-107	%REC	1	12/20/2022 01:28
Surr: Nitrobenzene-d5	54.6			41-95	%REC	1	12/20/2022 01:28
Surr: Phenol-d6	22.1			18-44	%REC	1	12/20/2022 01:28
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: NAD	
1,1,1-Trichloroethane	U		0.46	1.0	µg/L	1	12/16/2022 01:59
1,1,1,2-Tetrachloroethane	U		0.40	1.0	µg/L	1	12/16/2022 01:59
1,1,2-Trichloroethane	U		0.46	1.0	µg/L	1	12/16/2022 01:59
1,1,2-Trichlorotrifluoroethane	U		0.52	1.0	µg/L	1	12/16/2022 01:59
1,1-Dichloroethane	U		0.44	1.0	µg/L	1	12/16/2022 01:59
1,1-Dichloroethene	U		0.40	1.0	µg/L	1	12/16/2022 01:59
1,2,3-Trichlorobenzene	U		0.42	1.0	µg/L	1	12/16/2022 01:59
1,2,3-Trichloropropane	U		0.40	1.0	µg/L	1	12/16/2022 01:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: EB-01

Collection Date: 12/6/2022 03:50 PM

Work Order: 22120870

Lab ID: 22120870-08

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	U		0.45	1.0	µg/L	1	12/16/2022 01:59
1,2,4-Trimethylbenzene	U		0.45	1.0	µg/L	1	12/16/2022 01:59
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	12/16/2022 01:59
1,2-Dibromoethane	U		0.41	1.0	µg/L	1	12/16/2022 01:59
1,2-Dichlorobenzene	U		0.32	1.0	µg/L	1	12/16/2022 01:59
1,2-Dichloroethane	U		0.44	1.0	µg/L	1	12/16/2022 01:59
1,2-Dichloropropane	U		0.48	1.0	µg/L	1	12/16/2022 01:59
1,3,5-Trimethylbenzene	U		0.65	1.0	µg/L	1	12/16/2022 01:59
1,3-Dichlorobenzene	U		0.33	1.0	µg/L	1	12/16/2022 01:59
1,4-Dichlorobenzene	U		0.35	1.0	µg/L	1	12/16/2022 01:59
2-Butanone	U		0.52	5.0	µg/L	1	12/16/2022 01:59
2-Hexanone	U		0.59	5.0	µg/L	1	12/16/2022 01:59
4-Methyl-2-pentanone	U		0.52	1.0	µg/L	1	12/16/2022 01:59
Acetone	U		6.2	10	µg/L	1	12/16/2022 01:59
Benzene	U		0.46	1.0	µg/L	1	12/16/2022 01:59
Bromochloromethane	U		0.45	1.0	µg/L	1	12/16/2022 01:59
Bromodichloromethane	U		0.49	1.0	µg/L	1	12/16/2022 01:59
Bromoform	U		0.56	1.0	µg/L	1	12/16/2022 01:59
Bromomethane	U		0.90	1.0	µg/L	1	12/16/2022 01:59
Carbon disulfide	U		0.49	1.0	µg/L	1	12/16/2022 01:59
Carbon tetrachloride	U		0.40	1.0	µg/L	1	12/16/2022 01:59
Chlorobenzene	U		0.40	1.0	µg/L	1	12/16/2022 01:59
Chloroethane	U		0.68	1.0	µg/L	1	12/16/2022 01:59
Chloroform	U		0.46	1.0	µg/L	1	12/16/2022 01:59
Chloromethane	U		0.83	1.0	µg/L	1	12/16/2022 01:59
cis-1,2-Dichloroethene	U		0.42	1.0	µg/L	1	12/16/2022 01:59
cis-1,3-Dichloropropene	U		0.57	1.0	µg/L	1	12/16/2022 01:59
Cyclohexane	U		0.63	2.0	µg/L	1	12/16/2022 01:59
Dibromochloromethane	U		0.40	1.0	µg/L	1	12/16/2022 01:59
Dichlorodifluoromethane	U		0.68	1.0	µg/L	1	12/16/2022 01:59
Ethylbenzene	U		0.34	1.0	µg/L	1	12/16/2022 01:59
Isopropylbenzene	U		0.35	1.0	µg/L	1	12/16/2022 01:59
m,p-Xylene	U		0.81	2.0	µg/L	1	12/16/2022 01:59
Methyl acetate	U		0.59	2.0	µg/L	1	12/16/2022 01:59
Methyl tert-butyl ether	U		0.45	1.0	µg/L	1	12/16/2022 01:59
Methylcyclohexane	U		0.35	1.0	µg/L	1	12/16/2022 01:59
Methylene chloride	U		0.86	5.0	µg/L	1	12/16/2022 01:59
o-Xylene	U		0.31	1.0	µg/L	1	12/16/2022 01:59
Styrene	U		0.33	1.0	µg/L	1	12/16/2022 01:59
Tetrachloroethene	U		0.39	1.0	µg/L	1	12/16/2022 01:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: EB-01

Collection Date: 12/6/2022 03:50 PM

Work Order: 22120870

Lab ID: 22120870-08

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	U		0.45	1.0	µg/L	1	12/16/2022 01:59
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	12/16/2022 01:59
trans-1,3-Dichloropropene	U		0.38	1.0	µg/L	1	12/16/2022 01:59
Trichloroethene	U		0.43	1.0	µg/L	1	12/16/2022 01:59
Trichlorofluoromethane	U		0.52	1.0	µg/L	1	12/16/2022 01:59
Vinyl chloride	U		0.53	1.0	µg/L	1	12/16/2022 01:59
Xylenes, Total	U		0.81	3.0	µg/L	1	12/16/2022 01:59
Surr: 1,2-Dichloroethane-d4	110			80-120	%REC	1	12/16/2022 01:59
Surr: 4-Bromofluorobenzene	100			80-120	%REC	1	12/16/2022 01:59
Surr: Dibromofluoromethane	108			80-120	%REC	1	12/16/2022 01:59
Surr: Toluene-d8	97.4			80-120	%REC	1	12/16/2022 01:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: DUP-02
Collection Date: 12/6/2022 08:00 AM

Work Order: 22120870
Lab ID: 22120870-09
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW3511 / 12/12/22		Analyst: MTB
DRO (C10-C28)	U		0.081	0.10	mg/L	1	12/13/2022 01:35
ORO (C28-C40)	0.064	J	0.051	0.10	mg/L	1	12/13/2022 01:35
Surr: 4-Terphenyl-d14	55.2			30-121	%REC	1	12/13/2022 01:35
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D				Analyst: MTB
GRO (C6-C10)	U		76	200	µg/L	1	12/13/2022 06:42
Surr: Toluene-d8	94.4			73-116	%REC	1	12/13/2022 06:42
MERCURY BY CVAA (DISSOLVED)			Method: SW7470A		Prep: SW7470 / 12/12/22		Analyst: KRA
Mercury	U		0.00016	0.00020	mg/L	1	12/12/2022 16:48
METALS BY ICP-MS (DISSOLVED)			Method: SW6020B		Prep: SW3005A / 12/16/22		Analyst: STP
Aluminum	U		0.0057	0.010	mg/L	1	12/16/2022 15:01
Antimony	U		0.00042	0.0050	mg/L	1	12/16/2022 15:01
Arsenic	0.00038	J	0.00019	0.0050	mg/L	1	12/16/2022 15:01
Barium	0.016		0.00057	0.0050	mg/L	1	12/16/2022 15:01
Beryllium	U		0.00013	0.0020	mg/L	1	12/16/2022 15:01
Cadmium	U		0.00014	0.0020	mg/L	1	12/16/2022 15:01
Calcium	42		0.22	0.50	mg/L	1	12/16/2022 15:01
Chromium	0.00066	J	0.00061	0.0050	mg/L	1	12/16/2022 15:01
Copper	0.0016	J	0.00099	0.0050	mg/L	1	12/16/2022 15:01
Iron	U		0.047	0.080	mg/L	1	12/16/2022 15:01
Lead	U		0.00022	0.0050	mg/L	1	12/16/2022 15:01
Magnesium	25		0.037	0.20	mg/L	1	12/16/2022 15:01
Manganese	0.16		0.0017	0.0050	mg/L	1	12/16/2022 15:01
Nickel	0.036		0.00085	0.0050	mg/L	1	12/16/2022 15:01
Potassium	0.47		0.034	0.20	mg/L	1	12/16/2022 15:01
Selenium	U		0.00048	0.0050	mg/L	1	12/16/2022 15:01
Silver	U		0.00026	0.0050	mg/L	1	12/16/2022 15:01
Sodium	160		0.13	0.20	mg/L	1	12/16/2022 15:01
Thallium	U		0.00015	0.0050	mg/L	1	12/16/2022 15:01
Vanadium	0.0026	J	0.00070	0.0050	mg/L	1	12/16/2022 15:01
Zinc	0.0046	J	0.0022	0.010	mg/L	1	12/16/2022 15:01
SEMI-VOLATILE ORGANIC COMPOUNDS			Method: SW846 8270D		Prep: SW3510 / 12/13/22		Analyst: EEW
1,1'-Biphenyl	U		0.41	4.9	µg/L	1	12/20/2022 01:52
1,2,4,5-Tetrachlorobenzene	U		0.34	9.9	µg/L	1	12/20/2022 01:52
1,4-Dioxane	U		0.71	4.9	µg/L	1	12/20/2022 01:52
1-Methylnaphthalene	U		0.082	4.9	µg/L	1	12/20/2022 01:52
2,2'-Oxybis(1-chloropropane)	U		0.23	4.9	µg/L	1	12/20/2022 01:52

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: DUP-02

Collection Date: 12/6/2022 08:00 AM

Work Order: 22120870

Lab ID: 22120870-09

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,3,4,6-Tetrachlorophenol	U		0.44	4.9	µg/L	1	12/20/2022 01:52
2,4,5-Trichlorophenol	U		0.17	4.9	µg/L	1	12/20/2022 01:52
2,4,6-Trichlorophenol	U		0.25	4.9	µg/L	1	12/20/2022 01:52
2,4-Dichlorophenol	U		0.35	4.9	µg/L	1	12/20/2022 01:52
2,4-Dimethylphenol	U		0.36	4.9	µg/L	1	12/20/2022 01:52
2,4-Dinitrophenol	U		2.6	4.9	µg/L	1	12/20/2022 01:52
2,4-Dinitrotoluene	U		0.41	4.9	µg/L	1	12/20/2022 01:52
2,6-Dinitrotoluene	U		0.11	4.9	µg/L	1	12/20/2022 01:52
2-Chloronaphthalene	U		0.074	4.9	µg/L	1	12/20/2022 01:52
2-Chlorophenol	U		0.23	4.9	µg/L	1	12/20/2022 01:52
2-Methylnaphthalene	U		0.064	4.9	µg/L	1	12/20/2022 01:52
2-Methylphenol	U		0.25	4.9	µg/L	1	12/20/2022 01:52
2-Nitroaniline	U		0.21	4.9	µg/L	1	12/20/2022 01:52
2-Nitrophenol	U		0.34	4.9	µg/L	1	12/20/2022 01:52
3&4-Methylphenol	U		0.21	4.9	µg/L	1	12/20/2022 01:52
3,3'-Dichlorobenzidine	U		0.45	4.9	µg/L	1	12/20/2022 01:52
3-Nitroaniline	U		0.63	4.9	µg/L	1	12/20/2022 01:52
4,6-Dinitro-2-methylphenol	U		0.27	4.9	µg/L	1	12/20/2022 01:52
4-Bromophenyl phenyl ether	U		0.33	4.9	µg/L	1	12/20/2022 01:52
4-Chloro-3-methylphenol	U		0.26	4.9	µg/L	1	12/20/2022 01:52
4-Chloroaniline	U		0.34	4.9	µg/L	1	12/20/2022 01:52
4-Chlorophenyl phenyl ether	U		0.31	4.9	µg/L	1	12/20/2022 01:52
4-Nitroaniline	U		0.56	4.9	µg/L	1	12/20/2022 01:52
4-Nitrophenol	U		0.24	4.9	µg/L	1	12/20/2022 01:52
Acenaphthene	U		0.080	4.9	µg/L	1	12/20/2022 01:52
Acenaphthylene	U		0.074	4.9	µg/L	1	12/20/2022 01:52
Acetophenone	U		0.37	0.99	µg/L	1	12/20/2022 01:52
Anthracene	U		0.028	4.9	µg/L	1	12/20/2022 01:52
Atrazine	U		0.35	0.99	µg/L	1	12/20/2022 01:52
Benzaldehyde	U		0.51	0.99	µg/L	1	12/20/2022 01:52
Benzo(a)anthracene	U		0.098	4.9	µg/L	1	12/20/2022 01:52
Benzo(a)pyrene	U		0.043	4.9	µg/L	1	12/20/2022 01:52
Benzo(b)fluoranthene	U		0.050	4.9	µg/L	1	12/20/2022 01:52
Benzo(g,h,i)perylene	U		0.088	4.9	µg/L	1	12/20/2022 01:52
Benzo(k)fluoranthene	U		0.047	4.9	µg/L	1	12/20/2022 01:52
Bis(2-chloroethoxy)methane	U		0.29	4.9	µg/L	1	12/20/2022 01:52
Bis(2-chloroethyl)ether	U		0.37	4.9	µg/L	1	12/20/2022 01:52
Bis(2-ethylhexyl)phthalate	0.61	J	0.39	4.9	µg/L	1	12/20/2022 01:52
Butyl benzyl phthalate	U		0.30	4.9	µg/L	1	12/20/2022 01:52
Caprolactam	U		0.95	9.9	µg/L	1	12/20/2022 01:52

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: DUP-02
Collection Date: 12/6/2022 08:00 AM

Work Order: 22120870
Lab ID: 22120870-09
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Carbazole	U		0.24	4.9	µg/L	1	12/20/2022 01:52
Chrysene	U		0.047	4.9	µg/L	1	12/20/2022 01:52
Dibenzo(a,h)anthracene	U		0.072	4.9	µg/L	1	12/20/2022 01:52
Dibenzofuran	U		0.23	4.9	µg/L	1	12/20/2022 01:52
Diethyl phthalate	U		0.17	4.9	µg/L	1	12/20/2022 01:52
Dimethyl phthalate	U		0.18	4.9	µg/L	1	12/20/2022 01:52
Di-n-butyl phthalate	U		0.21	4.9	µg/L	1	12/20/2022 01:52
Di-n-octyl phthalate	U		0.52	4.9	µg/L	1	12/20/2022 01:52
Fluoranthene	U		0.038	4.9	µg/L	1	12/20/2022 01:52
Fluorene	U		0.050	4.9	µg/L	1	12/20/2022 01:52
Hexachlorobenzene	U		0.43	4.9	µg/L	1	12/20/2022 01:52
Hexachlorobutadiene	U		0.62	4.9	µg/L	1	12/20/2022 01:52
Hexachlorocyclopentadiene	U		1.1	4.9	µg/L	1	12/20/2022 01:52
Hexachloroethane	U		0.61	4.9	µg/L	1	12/20/2022 01:52
Indeno(1,2,3-cd)pyrene	U		0.066	4.9	µg/L	1	12/20/2022 01:52
Isophorone	U		0.34	4.9	µg/L	1	12/20/2022 01:52
Naphthalene	U		0.066	4.9	µg/L	1	12/20/2022 01:52
Nitrobenzene	U		0.26	4.9	µg/L	1	12/20/2022 01:52
N-Nitrosodi-n-propylamine	U		0.35	4.9	µg/L	1	12/20/2022 01:52
N-Nitrosodiphenylamine	U		0.48	4.9	µg/L	1	12/20/2022 01:52
Pentachlorophenol	U		0.96	4.9	µg/L	1	12/20/2022 01:52
Phenanthrene	U		0.080	4.9	µg/L	1	12/20/2022 01:52
Phenol	U		0.21	4.9	µg/L	1	12/20/2022 01:52
Pyrene	U		0.036	4.9	µg/L	1	12/20/2022 01:52
Surr: 2,4,6-Tribromophenol	78.6			47-103	%REC	1	12/20/2022 01:52
Surr: 2-Fluorobiphenyl	60.4			41-96	%REC	1	12/20/2022 01:52
Surr: 2-Fluorophenol	30.5			28-66	%REC	1	12/20/2022 01:52
Surr: 4-Terphenyl-d14	79.5			49-107	%REC	1	12/20/2022 01:52
Surr: Nitrobenzene-d5	55.4			41-95	%REC	1	12/20/2022 01:52
Surr: Phenol-d6	21.1			18-44	%REC	1	12/20/2022 01:52
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: NAD	
1,1,1-Trichloroethane	U		0.46	1.0	µg/L	1	12/16/2022 06:41
1,1,1,2-Tetrachloroethane	U		0.40	1.0	µg/L	1	12/16/2022 06:41
1,1,2-Trichloroethane	U		0.46	1.0	µg/L	1	12/16/2022 06:41
1,1,2-Trichlorotrifluoroethane	U		0.52	1.0	µg/L	1	12/16/2022 06:41
1,1-Dichloroethane	U		0.44	1.0	µg/L	1	12/16/2022 06:41
1,1-Dichloroethene	U		0.40	1.0	µg/L	1	12/16/2022 06:41
1,2,3-Trichlorobenzene	U		0.42	1.0	µg/L	1	12/16/2022 06:41
1,2,3-Trichloropropane	U		0.40	1.0	µg/L	1	12/16/2022 06:41

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: DUP-02

Collection Date: 12/6/2022 08:00 AM

Work Order: 22120870

Lab ID: 22120870-09

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	U		0.45	1.0	µg/L	1	12/16/2022 06:41
1,2,4-Trimethylbenzene	U		0.45	1.0	µg/L	1	12/16/2022 06:41
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	12/16/2022 06:41
1,2-Dibromoethane	U		0.41	1.0	µg/L	1	12/16/2022 06:41
1,2-Dichlorobenzene	U		0.32	1.0	µg/L	1	12/16/2022 06:41
1,2-Dichloroethane	U		0.44	1.0	µg/L	1	12/16/2022 06:41
1,2-Dichloropropane	U		0.48	1.0	µg/L	1	12/16/2022 06:41
1,3,5-Trimethylbenzene	U		0.65	1.0	µg/L	1	12/16/2022 06:41
1,3-Dichlorobenzene	U		0.33	1.0	µg/L	1	12/16/2022 06:41
1,4-Dichlorobenzene	U		0.35	1.0	µg/L	1	12/16/2022 06:41
2-Butanone	U		0.52	5.0	µg/L	1	12/16/2022 06:41
2-Hexanone	U		0.59	5.0	µg/L	1	12/16/2022 06:41
4-Methyl-2-pentanone	U		0.52	1.0	µg/L	1	12/16/2022 06:41
Acetone	U		6.2	10	µg/L	1	12/16/2022 06:41
Benzene	U		0.46	1.0	µg/L	1	12/16/2022 06:41
Bromochloromethane	U		0.45	1.0	µg/L	1	12/16/2022 06:41
Bromodichloromethane	U		0.49	1.0	µg/L	1	12/16/2022 06:41
Bromoform	U		0.56	1.0	µg/L	1	12/16/2022 06:41
Bromomethane	U		0.90	1.0	µg/L	1	12/16/2022 06:41
Carbon disulfide	U		0.49	1.0	µg/L	1	12/16/2022 06:41
Carbon tetrachloride	U		0.40	1.0	µg/L	1	12/16/2022 06:41
Chlorobenzene	U		0.40	1.0	µg/L	1	12/16/2022 06:41
Chloroethane	U		0.68	1.0	µg/L	1	12/16/2022 06:41
Chloroform	U		0.46	1.0	µg/L	1	12/16/2022 06:41
Chloromethane	U		0.83	1.0	µg/L	1	12/16/2022 06:41
cis-1,2-Dichloroethene	U		0.42	1.0	µg/L	1	12/16/2022 06:41
cis-1,3-Dichloropropene	U		0.57	1.0	µg/L	1	12/16/2022 06:41
Cyclohexane	U		0.63	2.0	µg/L	1	12/16/2022 06:41
Dibromochloromethane	U		0.40	1.0	µg/L	1	12/16/2022 06:41
Dichlorodifluoromethane	U		0.68	1.0	µg/L	1	12/16/2022 06:41
Ethylbenzene	U		0.34	1.0	µg/L	1	12/16/2022 06:41
Isopropylbenzene	U		0.35	1.0	µg/L	1	12/16/2022 06:41
m,p-Xylene	U		0.81	2.0	µg/L	1	12/16/2022 06:41
Methyl acetate	U		0.59	2.0	µg/L	1	12/16/2022 06:41
Methyl tert-butyl ether	U		0.45	1.0	µg/L	1	12/16/2022 06:41
Methylcyclohexane	U		0.35	1.0	µg/L	1	12/16/2022 06:41
Methylene chloride	U		0.86	5.0	µg/L	1	12/16/2022 06:41
o-Xylene	U		0.31	1.0	µg/L	1	12/16/2022 06:41
Styrene	U		0.33	1.0	µg/L	1	12/16/2022 06:41
Tetrachloroethene	U		0.39	1.0	µg/L	1	12/16/2022 06:41

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Project: Houston

Sample ID: DUP-02

Collection Date: 12/6/2022 08:00 AM

Work Order: 22120870

Lab ID: 22120870-09

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	U		0.45	1.0	µg/L	1	12/16/2022 06:41
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	12/16/2022 06:41
trans-1,3-Dichloropropene	U		0.38	1.0	µg/L	1	12/16/2022 06:41
Trichloroethene	U		0.43	1.0	µg/L	1	12/16/2022 06:41
Trichlorofluoromethane	U		0.52	1.0	µg/L	1	12/16/2022 06:41
Vinyl chloride	U		0.53	1.0	µg/L	1	12/16/2022 06:41
Xylenes, Total	U		0.81	3.0	µg/L	1	12/16/2022 06:41
Surr: 1,2-Dichloroethane-d4	108			80-120	%REC	1	12/16/2022 06:41
Surr: 4-Bromofluorobenzene	94.2			80-120	%REC	1	12/16/2022 06:41
Surr: Dibromofluoromethane	108			80-120	%REC	1	12/16/2022 06:41
Surr: Toluene-d8	92.9			80-120	%REC	1	12/16/2022 06:41

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: Trip Blank
Collection Date: 12/6/2022

Work Order: 22120870
Lab ID: 22120870-10
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: NAD	
1,1,1-Trichloroethane	U		0.46	1.0	µg/L	1	12/16/2022 02:15
1,1,2,2-Tetrachloroethane	U		0.40	1.0	µg/L	1	12/16/2022 02:15
1,1,2-Trichloroethane	U		0.46	1.0	µg/L	1	12/16/2022 02:15
1,1,2-Trichlorotrifluoroethane	U		0.52	1.0	µg/L	1	12/16/2022 02:15
1,1-Dichloroethane	U		0.44	1.0	µg/L	1	12/16/2022 02:15
1,1-Dichloroethene	U		0.40	1.0	µg/L	1	12/16/2022 02:15
1,2,3-Trichlorobenzene	U		0.42	1.0	µg/L	1	12/16/2022 02:15
1,2,3-Trichloropropane	U		0.40	1.0	µg/L	1	12/16/2022 02:15
1,2,4-Trichlorobenzene	U		0.45	1.0	µg/L	1	12/16/2022 02:15
1,2,4-Trimethylbenzene	U		0.45	1.0	µg/L	1	12/16/2022 02:15
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	12/16/2022 02:15
1,2-Dibromoethane	U		0.41	1.0	µg/L	1	12/16/2022 02:15
1,2-Dichlorobenzene	U		0.32	1.0	µg/L	1	12/16/2022 02:15
1,2-Dichloroethane	U		0.44	1.0	µg/L	1	12/16/2022 02:15
1,2-Dichloropropane	U		0.48	1.0	µg/L	1	12/16/2022 02:15
1,3,5-Trimethylbenzene	U		0.65	1.0	µg/L	1	12/16/2022 02:15
1,3-Dichlorobenzene	U		0.33	1.0	µg/L	1	12/16/2022 02:15
1,4-Dichlorobenzene	U		0.35	1.0	µg/L	1	12/16/2022 02:15
2-Butanone	U		0.52	5.0	µg/L	1	12/16/2022 02:15
2-Hexanone	U		0.59	5.0	µg/L	1	12/16/2022 02:15
4-Methyl-2-pentanone	U		0.52	1.0	µg/L	1	12/16/2022 02:15
Acetone	U		6.2	10	µg/L	1	12/16/2022 02:15
Benzene	U		0.46	1.0	µg/L	1	12/16/2022 02:15
Bromochloromethane	U		0.45	1.0	µg/L	1	12/16/2022 02:15
Bromodichloromethane	U		0.49	1.0	µg/L	1	12/16/2022 02:15
Bromoform	U		0.56	1.0	µg/L	1	12/16/2022 02:15
Bromomethane	U		0.90	1.0	µg/L	1	12/16/2022 02:15
Carbon disulfide	U		0.49	1.0	µg/L	1	12/16/2022 02:15
Carbon tetrachloride	U		0.40	1.0	µg/L	1	12/16/2022 02:15
Chlorobenzene	U		0.40	1.0	µg/L	1	12/16/2022 02:15
Chloroethane	U		0.68	1.0	µg/L	1	12/16/2022 02:15
Chloroform	U		0.46	1.0	µg/L	1	12/16/2022 02:15
Chloromethane	U		0.83	1.0	µg/L	1	12/16/2022 02:15
cis-1,2-Dichloroethene	U		0.42	1.0	µg/L	1	12/16/2022 02:15
cis-1,3-Dichloropropene	U		0.57	1.0	µg/L	1	12/16/2022 02:15
Cyclohexane	U		0.63	2.0	µg/L	1	12/16/2022 02:15
Dibromochloromethane	U		0.40	1.0	µg/L	1	12/16/2022 02:15
Dichlorodifluoromethane	U		0.68	1.0	µg/L	1	12/16/2022 02:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech
Project: Houston
Sample ID: Trip Blank
Collection Date: 12/6/2022

Work Order: 22120870
Lab ID: 22120870-10
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	U		0.34	1.0	µg/L	1	12/16/2022 02:15
Isopropylbenzene	U		0.35	1.0	µg/L	1	12/16/2022 02:15
m,p-Xylene	U		0.81	2.0	µg/L	1	12/16/2022 02:15
Methyl acetate	U		0.59	2.0	µg/L	1	12/16/2022 02:15
Methyl tert-butyl ether	2.0		0.45	1.0	µg/L	1	12/16/2022 02:15
Methylcyclohexane	U		0.35	1.0	µg/L	1	12/16/2022 02:15
Methylene chloride	U		0.86	5.0	µg/L	1	12/16/2022 02:15
o-Xylene	U		0.31	1.0	µg/L	1	12/16/2022 02:15
Styrene	U		0.33	1.0	µg/L	1	12/16/2022 02:15
Tetrachloroethene	U		0.39	1.0	µg/L	1	12/16/2022 02:15
Toluene	U		0.45	1.0	µg/L	1	12/16/2022 02:15
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	12/16/2022 02:15
trans-1,3-Dichloropropene	U		0.38	1.0	µg/L	1	12/16/2022 02:15
Trichloroethene	U		0.43	1.0	µg/L	1	12/16/2022 02:15
Trichlorofluoromethane	U		0.52	1.0	µg/L	1	12/16/2022 02:15
Vinyl chloride	U		0.53	1.0	µg/L	1	12/16/2022 02:15
Xylenes, Total	U		0.81	3.0	µg/L	1	12/16/2022 02:15
Surr: 1,2-Dichloroethane-d4	112			80-120	%REC	1	12/16/2022 02:15
Surr: 4-Bromofluorobenzene	98.8			80-120	%REC	1	12/16/2022 02:15
Surr: Dibromofluoromethane	104			80-120	%REC	1	12/16/2022 02:15
Surr: Toluene-d8	93.5			80-120	%REC	1	12/16/2022 02:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

Work Order: 22120870
Client: Tetra Tech
Project: Houston

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
<u>Batch ID</u> 208118 <u>Test Name:</u> Diesel Range Organics by GC-FID						
22120870-01B	FB-01	Water	12/6/2022 11:20:00 AM		12/12/2022 02:16 PM	12/12/2022 07:21 PM
22120870-02B	TW-03		12/6/2022 12:45:00 PM		12/12/2022 02:16 PM	12/12/2022 07:59 PM
22120870-03B	TW-02		12/6/2022 1:15:00 PM		12/12/2022 02:16 PM	12/12/2022 08:36 PM
22120870-04B	TW-01		12/6/2022 1:45:00 PM		12/12/2022 02:16 PM	12/12/2022 09:13 PM
22120870-05B	TW-06		12/6/2022 2:15:00 PM		12/12/2022 02:16 PM	12/12/2022 09:51 PM
22120870-06B	TW-05		12/6/2022 2:45:00 PM		12/12/2022 02:16 PM	12/12/2022 11:43 PM
22120870-07B	TW-04		12/6/2022 3:15:00 PM		12/12/2022 02:16 PM	12/13/2022 12:20 AM
22120870-08B	EB-01		12/6/2022 3:50:00 PM		12/12/2022 02:16 PM	12/13/2022 12:58 AM
22120870-09B	DUP-02		12/6/2022 8:00:00 AM		12/12/2022 02:16 PM	12/13/2022 01:35 AM
<u>Batch ID</u> 208136 <u>Test Name:</u> Mercury by CVAA (dissolved)						
22120870-01	FB-01	Water	12/6/2022 11:20:00 AM		12/12/2022 02:51 PM	12/12/2022 04:28 PM
22120870-02	TW-03		12/6/2022 12:45:00 PM		12/12/2022 02:51 PM	12/12/2022 04:30 PM
22120870-03	TW-02		12/6/2022 1:15:00 PM		12/12/2022 02:51 PM	12/12/2022 04:32 PM
22120870-04	TW-01		12/6/2022 1:45:00 PM		12/12/2022 02:51 PM	12/12/2022 04:33 PM
22120870-05	TW-06		12/6/2022 2:15:00 PM		12/12/2022 02:51 PM	12/12/2022 04:35 PM
22120870-06	TW-05		12/6/2022 2:45:00 PM		12/12/2022 02:51 PM	12/12/2022 04:37 PM
22120870-07	TW-04		12/6/2022 3:15:00 PM		12/12/2022 02:51 PM	12/12/2022 04:44 PM
22120870-08	EB-01		12/6/2022 3:50:00 PM		12/12/2022 02:51 PM	12/12/2022 04:46 PM
22120870-09	DUP-02		12/6/2022 8:00:00 AM		12/12/2022 02:51 PM	12/12/2022 04:48 PM

Work Order: 22120870
Client: Tetra Tech
Project: Houston

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
Batch ID 208196		Test Name: Semi-Volatile Organic Compounds				
22120870-01C	FB-01	Water	12/6/2022 11:20:00 AM		12/13/2022 04:26 PM	12/19/2022 10:45 PM
22120870-02C	TW-03		12/6/2022 12:45:00 PM		12/13/2022 04:26 PM	12/19/2022 11:08 PM
22120870-03C	TW-02		12/6/2022 1:15:00 PM		12/13/2022 04:26 PM	12/19/2022 11:32 PM
22120870-04C	TW-01		12/6/2022 1:45:00 PM		12/13/2022 04:26 PM	12/19/2022 11:55 PM
22120870-05C	TW-06		12/6/2022 2:15:00 PM		12/13/2022 04:26 PM	12/20/2022 12:18 AM
22120870-06C	TW-05		12/6/2022 2:45:00 PM		12/13/2022 04:26 PM	12/20/2022 12:42 AM
22120870-07C	TW-04		12/6/2022 3:15:00 PM		12/13/2022 04:26 PM	12/20/2022 01:05 AM
22120870-08C	EB-01		12/6/2022 3:50:00 PM		12/13/2022 04:26 PM	12/20/2022 01:28 AM
22120870-09C	DUP-02		12/6/2022 8:00:00 AM		12/13/2022 04:26 PM	12/20/2022 01:52 AM
Batch ID 208426		Test Name: Metals by ICP-MS (dissolved)				
22120870-01	FB-01	Water	12/6/2022 11:20:00 AM		12/16/2022 08:53 AM	12/16/2022 02:41 PM
22120870-02	TW-03		12/6/2022 12:45:00 PM		12/16/2022 08:53 AM	12/16/2022 02:42 PM
22120870-03	TW-02		12/6/2022 1:15:00 PM		12/16/2022 08:53 AM	12/16/2022 03:48 PM
22120870-04	TW-01		12/6/2022 1:45:00 PM		12/16/2022 08:53 AM	12/16/2022 02:49 PM
22120870-05	TW-06		12/6/2022 2:15:00 PM		12/16/2022 08:53 AM	12/16/2022 03:52 PM
22120870-06	TW-05		12/6/2022 2:45:00 PM		12/16/2022 08:53 AM	12/16/2022 02:56 PM
22120870-07	TW-04		12/6/2022 3:15:00 PM		12/16/2022 08:53 AM	12/16/2022 02:58 PM
22120870-08	EB-01		12/6/2022 3:50:00 PM		12/16/2022 08:53 AM	12/16/2022 03:58 PM
22120870-09	DUP-02		12/6/2022 8:00:00 AM		12/16/2022 08:53 AM	12/16/2022 03:01 PM

Work Order: 22120870
Client: Tetra Tech
Project: Houston

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
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Batch ID R360382 **Test Name:** Gasoline Range Organics by GC-FID

22120870-01	FB-01	Water	12/6/2022 11:20:00 AM			12/13/2022 01:56 AM
^A						
22120870-02	TW-03		12/6/2022 12:45:00 PM			12/13/2022 02:18 AM
^A						
22120870-03	TW-02		12/6/2022 1:15:00 PM			12/13/2022 02:40 AM
^A						
22120870-04	TW-01		12/6/2022 1:45:00 PM			12/13/2022 03:03 AM
^A						
22120870-05	TW-06		12/6/2022 2:15:00 PM			12/13/2022 03:25 AM
^A						
22120870-06	TW-05		12/6/2022 2:45:00 PM			12/13/2022 05:59 AM
^A						
22120870-07	TW-04		12/6/2022 3:15:00 PM			12/13/2022 06:21 AM
^A						
22120870-08	EB-01		12/6/2022 3:50:00 PM			12/13/2022 03:47 AM
^A						
22120870-09	DUP-02		12/6/2022 8:00:00 AM			12/13/2022 06:42 AM
^A						

Batch ID R360524 **Test Name:** Volatile Organic Compounds

22120870-02	TW-03	Water	12/6/2022 12:45:00 PM			12/16/2022 05:07 AM
^A						
22120870-03	TW-02		12/6/2022 1:15:00 PM			12/16/2022 05:22 AM
^A						
22120870-04	TW-01		12/6/2022 1:45:00 PM			12/16/2022 05:38 AM
^A						
22120870-05	TW-06		12/6/2022 2:15:00 PM			12/16/2022 05:54 AM
^A						
22120870-06	TW-05		12/6/2022 2:45:00 PM			12/16/2022 06:09 AM
^A						
22120870-07	TW-04		12/6/2022 3:15:00 PM			12/16/2022 06:25 AM
^A						
22120870-08	EB-01		12/6/2022 3:50:00 PM			12/16/2022 01:59 AM
^A						
22120870-09	DUP-02		12/6/2022 8:00:00 AM			12/16/2022 06:41 AM
^A						
22120870-10	Trip Blank		12/6/2022			12/16/2022 02:15 AM
^A						

Batch ID R360603 **Test Name:** Volatile Organic Compounds

22120870-01	FB-01	Water	12/6/2022 11:20:00 AM			12/16/2022 04:36 PM
^A						

ALS Group, USA

Date: 22-Dec-22

Client: Tetra Tech

Work Order: 22120870

Project: Houston

QC BATCH REPORT

Batch ID: 208118 Instrument ID GC8 Method: SW8015D

MBLK		Sample ID: DBLKW1-208118-208118				Units: mg/L		Analysis Date: 12/12/2022 04:51 PM			
Client ID:		Run ID: GC8_221212B				SeqNo: 9099848		Prep Date: 12/12/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	U	0.081	0.10								
ORO (C28-C40)	0.06217	0.051	0.10								J
Surr: 4-Terphenyl-d14	0.0315	0	0	0.042	0	75.5	30-121	0			

LCS		Sample ID: DLCSW1-208118-208118				Units: mg/L		Analysis Date: 12/12/2022 06:06 PM			
Client ID:		Run ID: GC8_221212B				SeqNo: 9099850		Prep Date: 12/12/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	4.047	0.081	0.10	4.17	0	97	64-143	0			
ORO (C28-C40)	3.778	0.051	0.10	4.17	0	90.6	58-141	0			
Surr: 4-Terphenyl-d14	0.03183	0	0	0.042	0	76.3	30-121	0			

LCSD		Sample ID: DLCSDW1-208118-208118				Units: mg/L		Analysis Date: 12/12/2022 06:44 PM			
Client ID:		Run ID: GC8_221212B				SeqNo: 9099851		Prep Date: 12/12/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	4.019	0.081	0.10	4.17	0	96.4	64-143	4.047	0.686	20	
ORO (C28-C40)	3.817	0.051	0.10	4.17	0	91.5	58-141	3.778	1.03	20	
Surr: 4-Terphenyl-d14	0.0345	0	0	0.042	0	82.7	30-121	0.03183	8.04	20	

The following samples were analyzed in this batch:

22120870-01B	22120870-02B	22120870-03B
22120870-04B	22120870-05B	22120870-06B
22120870-07B	22120870-08B	22120870-09B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 1 of 27

Client: Tetra Tech
 Work Order: 22120870
 Project: Houston

QC BATCH REPORT

Batch ID: **R360382** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: 9G-MBLK-221212-R360382				Units: µg/L		Analysis Date: 12/13/2022 01:34 A			
Client ID:		Run ID: GC9_221212B				SeqNo: 9110058		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	76	200								
Surr: Toluene-d8	91.6	0	0	100	0	91.6	73-116	0			

LCS		Sample ID: 9G-LCS-221212-R360382				Units: µg/L		Analysis Date: 12/13/2022 05:15 A			
Client ID:		Run ID: GC9_221212B				SeqNo: 9110069		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	4034	76	200	5000	0	80.7	70-132	0			
Surr: Toluene-d8	95.1	0	0	100	0	95.1	73-116	0			

MS		Sample ID: 22120870-08A MS				Units: µg/L		Analysis Date: 12/13/2022 04:09 A			
Client ID: EB-01		Run ID: GC9_221212B				SeqNo: 9110065		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	3858	76	200	5000	0	77.2	70-132	0			
Surr: Toluene-d8	95.76	0	0	100	0	95.8	73-116	0			

MSD		Sample ID: 22120870-08A MSD				Units: µg/L		Analysis Date: 12/13/2022 04:31 A			
Client ID: EB-01		Run ID: GC9_221212B				SeqNo: 9110066		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	3644	76	200	5000	0	72.9	70-132	3858	5.7	30	
Surr: Toluene-d8	94.18	0	0	100	0	94.2	73-116	95.76	1.66	30	

The following samples were analyzed in this batch:

22120870-01A	22120870-02A	22120870-03A
22120870-04A	22120870-05A	22120870-06A
22120870-07A	22120870-08A	22120870-09A
22120870-10A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120870
 Project: Houston

QC BATCH REPORT

Batch ID: **208136** Instrument ID **HG4** Method: **SW7470A**

MBLK		Sample ID: MBLK-208136-208136				Units: mg/L		Analysis Date: 12/12/2022 04:05 PM			
Client ID:		Run ID: HG4_221212B				SeqNo: 9097847		Prep Date: 12/12/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00016	0.00020								

LCS		Sample ID: LCS-208136-208136				Units: mg/L		Analysis Date: 12/12/2022 04:07 PM			
Client ID:		Run ID: HG4_221212B				SeqNo: 9097848		Prep Date: 12/12/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.002085	0.00016	0.00020	0.002	0	104	80-120	0			

MS		Sample ID: 22120737-01BMS				Units: mg/L		Analysis Date: 12/12/2022 04:10 PM			
Client ID:		Run ID: HG4_221212B				SeqNo: 9097850		Prep Date: 12/12/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00225	0.00016	0.00020	0.002	-0.0000315	114	75-125	0			

MSD		Sample ID: 22120737-01BMSD				Units: mg/L		Analysis Date: 12/12/2022 04:12 PM			
Client ID:		Run ID: HG4_221212B				SeqNo: 9097851		Prep Date: 12/12/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.002025	0.00016	0.00020	0.002	-0.0000315	103	75-125	0.00225	10.5	20	

The following samples were analyzed in this batch:

22120870-01D	22120870-02D	22120870-03D
22120870-04D	22120870-05D	22120870-06D
22120870-07D	22120870-08D	22120870-09D

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 22120870
Project: Houston

QC BATCH REPORT

Batch ID: **208426** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK		Sample ID: MBLK-208426-208426				Units: mg/L		Analysis Date: 12/16/2022 02:37 PM			
Client ID:		Run ID: ICPMS3_221216A				SeqNo: 9116890		Prep Date: 12/16/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	U	0.0057	0.010								
Antimony	U	0.00042	0.0050								
Arsenic	U	0.00019	0.0050								
Barium	U	0.00057	0.0050								
Beryllium	U	0.00013	0.0020								
Cadmium	U	0.00014	0.0020								
Calcium	U	0.22	0.50								
Chromium	U	0.00061	0.0050								
Copper	U	0.00099	0.0050								
Iron	U	0.047	0.080								
Lead	U	0.00022	0.0050								
Magnesium	U	0.037	0.20								
Manganese	U	0.0017	0.0050								
Nickel	U	0.00085	0.0050								
Potassium	U	0.034	0.20								
Selenium	U	0.00048	0.0050								
Silver	U	0.00026	0.0050								
Sodium	U	0.13	0.20								
Thallium	U	0.00015	0.0050								
Vanadium	U	0.0007	0.0050								
Zinc	U	0.0022	0.010								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120870
 Project: Houston

QC BATCH REPORT

Batch ID: **208426** Instrument ID **ICPMS3** Method: **SW6020B**

LCS		Sample ID: LCS-208426-208426				Units: mg/L		Analysis Date: 12/16/2022 02:39 PM			
Client ID:		Run ID: ICPMS3_221216A				SeqNo: 9116891		Prep Date: 12/16/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1025	0.0057	0.010	0.1	0	103	80-120	0			
Antimony	0.1023	0.00042	0.0050	0.1	0	102	80-120	0			
Arsenic	0.1017	0.00019	0.0050	0.1	0	102	80-120	0			
Barium	0.1025	0.00057	0.0050	0.1	0	103	80-120	0			
Beryllium	0.1008	0.00013	0.0020	0.1	0	101	80-120	0			
Cadmium	0.1035	0.00014	0.0020	0.1	0	104	80-120	0			
Calcium	10.11	0.22	0.50	10	0	101	80-120	0			
Chromium	0.1028	0.00061	0.0050	0.1	0	103	80-120	0			
Copper	0.1039	0.00099	0.0050	0.1	0	104	80-120	0			
Iron	10.01	0.047	0.080	10	0	100	80-120	0			
Lead	0.1032	0.00022	0.0050	0.1	0	103	80-120	0			
Magnesium	10.18	0.037	0.20	10	0	102	80-120	0			
Manganese	0.1003	0.0017	0.0050	0.1	0	100	80-120	0			
Nickel	0.1024	0.00085	0.0050	0.1	0	102	80-120	0			
Potassium	10.05	0.034	0.20	10	0	100	80-120	0			
Selenium	0.09996	0.00048	0.0050	0.1	0	100	80-120	0			
Silver	0.1036	0.00026	0.0050	0.1	0	104	80-120	0			
Sodium	10.09	0.13	0.20	10	0	101	80-120	0			
Thallium	0.09148	0.00015	0.0050	0.1	0	91.5	80-120	0			
Vanadium	0.1035	0.0007	0.0050	0.1	0	104	80-120	0			
Zinc	0.1064	0.0022	0.010	0.1	0	106	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120870
 Project: Houston

QC BATCH REPORT

Batch ID: 208426 Instrument ID ICPMS3 Method: SW6020B

MS Sample ID: 22120870-04DMS					Units: mg/L		Analysis Date: 12/16/2022 02:51 PM				
Client ID: TW-01			Run ID: ICPMS3_221216A			SeqNo: 9116898		Prep Date: 12/16/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1017	0.0057	0.010	0.1	0.002638	99	75-125	0			
Antimony	0.1015	0.00042	0.0050	0.1	0.000129	101	75-125	0			
Arsenic	0.1049	0.00019	0.0050	0.1	0.000473	104	75-125	0			
Barium	0.1202	0.00057	0.0050	0.1	0.01614	104	75-125	0			
Beryllium	0.09961	0.00013	0.0020	0.1	0.000013	99.6	75-125	0			
Cadmium	0.1009	0.00014	0.0020	0.1	0	101	75-125	0			
Calcium	70.94	0.22	0.50	10	61.27	96.8	75-125	0			O
Chromium	0.1031	0.00061	0.0050	0.1	0.000434	103	75-125	0			
Copper	0.1007	0.00099	0.0050	0.1	0.000523	100	75-125	0			
Iron	9.978	0.047	0.080	10	-0.00242	99.8	75-125	0			
Lead	0.1044	0.00022	0.0050	0.1	0.000033	104	75-125	0			
Magnesium	53.54	0.037	0.20	10	42.64	109	75-125	0			O
Manganese	0.3149	0.0017	0.0050	0.1	0.2117	103	75-125	0			
Nickel	0.1007	0.00085	0.0050	0.1	0.00131	99.4	75-125	0			
Potassium	10.43	0.034	0.20	10	0.4754	99.6	75-125	0			
Selenium	0.09784	0.00048	0.0050	0.1	0.002809	95	75-125	0			
Silver	0.09906	0.00026	0.0050	0.1	0.000039	99	75-125	0			
Thallium	0.09314	0.00015	0.0050	0.1	0.00003	93.1	75-125	0			
Vanadium	0.1071	0.0007	0.0050	0.1	0.002821	104	75-125	0			
Zinc	0.1036	0.0022	0.010	0.1	0.00128	102	75-125	0			

MS Sample ID: 22120870-04DMS					Units: mg/L		Analysis Date: 12/16/2022 03:53 PM				
Client ID: TW-01			Run ID: ICPMS3_221216A			SeqNo: 9117417		Prep Date: 12/16/2022		DF: 10	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium	196.6	1.3	2.0	10	184.9	118	75-125	0			O

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120870
 Project: Houston

QC BATCH REPORT

Batch ID: 208426 Instrument ID ICPMS3 Method: SW6020B

MSD					Sample ID: 22120870-04DMSD			Units: mg/L		Analysis Date: 12/16/2022 02:52 PM		
Client ID: TW-01			Run ID: ICPMS3_221216A			SeqNo: 9116899		Prep Date: 12/16/2022		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aluminum	0.1049	0.0057	0.010	0.1	0.002638	102	75-125	0.1017	3.15	20		
Antimony	0.1026	0.00042	0.0050	0.1	0.000129	102	75-125	0.1015	0.991	20		
Arsenic	0.1054	0.00019	0.0050	0.1	0.000473	105	75-125	0.1049	0.412	20		
Barium	0.1201	0.00057	0.0050	0.1	0.01614	104	75-125	0.1202	0.0924	20		
Beryllium	0.09998	0.00013	0.0020	0.1	0.000013	100	75-125	0.09961	0.365	20		
Cadmium	0.1004	0.00014	0.0020	0.1	0	100	75-125	0.1009	0.478	20		
Calcium	70.23	0.22	0.50	10	61.27	89.7	75-125	70.94	1	20	O	
Chromium	0.1044	0.00061	0.0050	0.1	0.000434	104	75-125	0.1031	1.3	20		
Copper	0.1026	0.00099	0.0050	0.1	0.000523	102	75-125	0.1007	1.85	20		
Iron	10.12	0.047	0.080	10	-0.00242	101	75-125	9.978	1.38	20		
Lead	0.1045	0.00022	0.0050	0.1	0.000033	104	75-125	0.1044	0.121	20		
Magnesium	52.73	0.037	0.20	10	42.64	101	75-125	53.54	1.52	20	O	
Manganese	0.3143	0.0017	0.0050	0.1	0.2117	103	75-125	0.3149	0.201	20		
Nickel	0.1018	0.00085	0.0050	0.1	0.00131	100	75-125	0.1007	1.07	20		
Potassium	10.4	0.034	0.20	10	0.4754	99.2	75-125	10.43	0.36	20		
Selenium	0.1031	0.00048	0.0050	0.1	0.002809	100	75-125	0.09784	5.27	20		
Silver	0.09985	0.00026	0.0050	0.1	0.000039	99.8	75-125	0.09906	0.793	20		
Thallium	0.09564	0.00015	0.0050	0.1	0.00003	95.6	75-125	0.09314	2.64	20		
Vanadium	0.1067	0.0007	0.0050	0.1	0.002821	104	75-125	0.1071	0.411	20		
Zinc	0.1054	0.0022	0.010	0.1	0.00128	104	75-125	0.1036	1.65	20		

MSD					Sample ID: 22120870-04DMSD			Units: mg/L		Analysis Date: 12/16/2022 03:55 PM		
Client ID: TW-01			Run ID: ICPMS3_221216A			SeqNo: 9117418		Prep Date: 12/16/2022		DF: 10		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Sodium	195.2	1.3	2.0	10	184.9	104	75-125	196.6	0.715	20	O	

The following samples were analyzed in this batch:

22120870-01D	22120870-02D	22120870-03D
22120870-04D	22120870-05D	22120870-06D
22120870-07D	22120870-08D	22120870-09D

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120870
 Project: Houston

QC BATCH REPORT

Batch ID: 208196 Instrument ID SVM9 Method: SW846 8270D

MBLK Sample ID: SBLKW1-208196-208196				Units: µg/L			Analysis Date: 12/19/2022 06:28 PM				
Client ID:		Run ID: SVM9_221219A			SeqNo: 9128580		Prep Date: 12/13/2022		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	U	0.42	5.0								
1,2,4,5-Tetrachlorobenzene	U	0.34	10								
1,4-Dioxane	U	0.72	5.0								
1-Methylnaphthalene	U	0.083	5.0								
2,2`-Oxybis(1-chloropropane)	U	0.23	5.0								
2,3,4,6-Tetrachlorophenol	U	0.45	5.0								
2,4,5-Trichlorophenol	U	0.17	5.0								
2,4,6-Trichlorophenol	U	0.25	5.0								
2,4-Dichlorophenol	U	0.35	5.0								
2,4-Dimethylphenol	U	0.36	5.0								
2,4-Dinitrophenol	U	2.6	5.0								
2,4-Dinitrotoluene	U	0.42	5.0								
2,6-Dinitrotoluene	U	0.11	5.0								
2-Chloronaphthalene	U	0.075	5.0								
2-Chlorophenol	U	0.23	5.0								
2-Methylnaphthalene	U	0.065	5.0								
2-Methylphenol	U	0.25	5.0								
2-Nitroaniline	U	0.21	5.0								
2-Nitrophenol	U	0.34	5.0								
3&4-Methylphenol	U	0.21	5.0								
3,3`-Dichlorobenzidine	U	0.46	5.0								
3-Nitroaniline	U	0.64	5.0								
4,6-Dinitro-2-methylphenol	U	0.27	5.0								
4-Bromophenyl phenyl ether	U	0.33	5.0								
4-Chloro-3-methylphenol	U	0.26	5.0								
4-Chloroaniline	U	0.34	5.0								
4-Chlorophenyl phenyl ether	U	0.31	5.0								
4-Nitroaniline	U	0.57	5.0								
4-Nitrophenol	U	0.24	5.0								
Acenaphthene	U	0.081	5.0								
Acenaphthylene	U	0.075	5.0								
Acetophenone	U	0.37	1.0								
Anthracene	U	0.028	5.0								
Atrazine	U	0.35	1.0								
Benzaldehyde	U	0.52	1.0								
Benzo(a)anthracene	U	0.099	5.0								
Benzo(a)pyrene	U	0.044	5.0								
Benzo(b)fluoranthene	U	0.051	5.0								
Benzo(g,h,i)perylene	U	0.089	5.0								
Benzo(k)fluoranthene	U	0.048	5.0								
Bis(2-chloroethoxy)methane	U	0.29	5.0								
Bis(2-chloroethyl)ether	U	0.37	5.0								
Bis(2-ethylhexyl)phthalate	U	0.4	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 22120870
Project: Houston

QC BATCH REPORT

Batch ID: 208196		Instrument ID SVMS9		Method: SW846 8270D	
Butyl benzyl phthalate	U	0.3	5.0		
Caprolactam	U	0.96	10		
Carbazole	U	0.24	5.0		
Chrysene	U	0.048	5.0		
Dibenzo(a,h)anthracene	U	0.073	5.0		
Dibenzofuran	U	0.23	5.0		
Diethyl phthalate	U	0.17	5.0		
Dimethyl phthalate	U	0.18	5.0		
Di-n-butyl phthalate	U	0.21	5.0		
Di-n-octyl phthalate	U	0.53	5.0		
Fluoranthene	U	0.038	5.0		
Fluorene	U	0.051	5.0		
Hexachlorobenzene	U	0.44	5.0		
Hexachlorobutadiene	U	0.63	5.0		
Hexachlorocyclopentadiene	U	1.1	5.0		
Hexachloroethane	U	0.62	5.0		
Indeno(1,2,3-cd)pyrene	U	0.067	5.0		
Isophorone	U	0.34	5.0		
Naphthalene	U	0.067	5.0		
Nitrobenzene	U	0.26	5.0		
N-Nitrosodi-n-propylamine	U	0.35	5.0		
N-Nitrosodiphenylamine	U	0.49	5.0		
Pentachlorophenol	U	0.97	5.0		
Phenanthrene	U	0.081	5.0		
Phenol	U	0.21	5.0		
Pyrene	U	0.036	5.0		
<i>Surr: 2,4,6-Tribromophenol</i>	29.3	0	0	50	0 58.6 47-103 0
<i>Surr: 2-Fluorobiphenyl</i>	27.6	0	0	50	0 55.2 41-96 0
<i>Surr: 2-Fluorophenol</i>	22.12	0	0	50	0 44.2 28-66 0
<i>Surr: 4-Terphenyl-d14</i>	36.52	0	0	50	0 73 49-107 0
<i>Surr: Nitrobenzene-d5</i>	28.71	0	0	50	0 57.4 41-95 0
<i>Surr: Phenol-d6</i>	15.77	0	0	50	0 31.5 18-44 0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120870
 Project: Houston

QC BATCH REPORT

Batch ID: 208196 Instrument ID SVM9 Method: SW846 8270D

LCS		Sample ID: SLCSW1-208196-208196				Units: µg/L		Analysis Date: 12/19/2022 06:52 PM			
Client ID:		Run ID: SVM9_221219A				SeqNo: 9128581		Prep Date: 12/13/2022		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	9.36	0.42	5.0	20	0	46.8	35-103	0			
1,2,4,5-Tetrachlorobenzene	7.07	0.34	10	20	0	35.4	22-105	0			J
1-Methylnaphthalene	8.06	0.083	5.0	20	0	40.3	29-103	0			
2,2'-Oxybis(1-chloropropane)	12.07	0.23	5.0	20	0	60.4	40-99	0			
2,3,4,6-Tetrachlorophenol	13.93	0.45	5.0	20	0	69.6	38-110	0			
2,4,5-Trichlorophenol	13.21	0.17	5.0	20	0	66	49-102	0			
2,4,6-Trichlorophenol	13.23	0.25	5.0	20	0	66.2	47-100	0			
2,4-Dichlorophenol	13.1	0.35	5.0	20	0	65.5	47-99	0			
2,4-Dimethylphenol	12.14	0.36	5.0	20	0	60.7	42-98	0			
2,4-Dinitrophenol	11.76	2.6	5.0	20	0	58.8	10-109	0			
2,4-Dinitrotoluene	13.85	0.42	5.0	20	0	69.2	50-102	0			
2,6-Dinitrotoluene	13.68	0.11	5.0	20	0	68.4	52-100	0			
2-Chloronaphthalene	8.08	0.075	5.0	20	0	40.4	32-104	0			
2-Chlorophenol	14.05	0.23	5.0	20	0	70.2	44-99	0			
2-Methylnaphthalene	7.79	0.065	5.0	20	0	39	26-108	0			
2-Methylphenol	12.18	0.25	5.0	20	0	60.9	42-90	0			
2-Nitroaniline	13.68	0.21	5.0	20	0	68.4	50-101	0			
2-Nitrophenol	12.81	0.34	5.0	20	0	64	33-107	0			
3&4-Methylphenol	11.67	0.21	5.0	20	0	58.4	38-83	0			
3,3'-Dichlorobenzidine	15.7	0.46	5.0	20	0	78.5	40-102	0			
3-Nitroaniline	13.73	0.64	5.0	20	0	68.6	56-98	0			
4,6-Dinitro-2-methylphenol	13.6	0.27	5.0	20	0	68	34-110	0			
4-Bromophenyl phenyl ether	13.19	0.33	5.0	20	0	66	49-103	0			
4-Chloro-3-methylphenol	13.92	0.26	5.0	20	0	69.6	51-99	0			
4-Chloroaniline	14.09	0.34	5.0	20	0	70.4	43-101	0			
4-Chlorophenyl phenyl ether	11.95	0.31	5.0	20	0	59.8	45-100	0			
4-Nitroaniline	14.49	0.57	5.0	20	0	72.4	52-101	0			
4-Nitrophenol	6.35	0.24	5.0	20	0	31.8	12-56	0			
Acenaphthene	9.91	0.081	5.0	20	0	49.6	40-100	0			
Acenaphthylene	10.27	0.075	5.0	20	0	51.4	41-100	0			
Acetophenone	13.47	0.37	1.0	20	0	67.4	49-98	0			
Anthracene	13.33	0.028	5.0	20	0	66.6	52-102	0			
Atrazine	15.13	0.35	1.0	20	0	75.6	54-104	0			
Benzaldehyde	12.82	0.52	1.0	20	0	64.1	42-99	0			
Benzo(a)anthracene	15.45	0.099	5.0	20	0	77.2	55-99	0			
Benzo(a)pyrene	16.58	0.044	5.0	20	0	82.9	53-103	0			
Benzo(b)fluoranthene	15.66	0.051	5.0	20	0	78.3	53-103	0			
Benzo(g,h,i)perylene	16.07	0.089	5.0	20	0	80.4	53-105	0			
Benzo(k)fluoranthene	15.48	0.048	5.0	20	0	77.4	53-104	0			
Bis(2-chloroethoxy)methane	13.5	0.29	5.0	20	0	67.5	50-97	0			
Bis(2-chloroethyl)ether	12.49	0.37	5.0	20	0	62.4	45-96	0			
Bis(2-ethylhexyl)phthalate	17.53	0.4	5.0	20	0	87.6	52-110	0			
Butyl benzyl phthalate	15.73	0.3	5.0	20	0	78.6	42-106	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120870
 Project: Houston

QC BATCH REPORT

Batch ID: 208196		Instrument ID SVMS9		Method: SW846 8270D					
Carbazole	13.88	0.24	5.0	20	0	69.4	54-103	0	
Chrysene	15.19	0.048	5.0	20	0	76	63-104	0	
Dibenzo(a,h)anthracene	15.87	0.073	5.0	20	0	79.4	54-104	0	
Dibenzofuran	10.76	0.23	5.0	20	0	53.8	45-100	0	
Diethyl phthalate	14.8	0.17	5.0	20	0	74	13-133	0	
Dimethyl phthalate	14.06	0.18	5.0	20	0	70.3	25-125	0	
Di-n-butyl phthalate	15.09	0.21	5.0	20	0	75.4	49-109	0	
Di-n-octyl phthalate	20.13	0.53	5.0	20	0	101	45-117	0	
Fluoranthene	13.96	0.038	5.0	20	0	69.8	53-103	0	
Fluorene	11.73	0.051	5.0	20	0	58.6	47-101	0	
Hexachlorobenzene	12.86	0.44	5.0	20	0	64.3	50-103	0	
Hexachlorobutadiene	5.5	0.63	5.0	20	0	27.5	10-112	0	
Hexachlorocyclopentadiene	3.36	1.1	5.0	20	0	16.8	10-102	0	J
Hexachloroethane	5.71	0.62	5.0	20	0	28.6	10-109	0	
Indeno(1,2,3-cd)pyrene	16.55	0.067	5.0	20	0	82.8	51-109	0	
Isophorone	13.53	0.34	5.0	20	0	67.6	52-97	0	
Naphthalene	8.11	0.067	5.0	20	0	40.6	32-100	0	
Nitrobenzene	12.28	0.26	5.0	20	0	61.4	47-95	0	
N-Nitrosodi-n-propylamine	14.23	0.35	5.0	20	0	71.2	48-101	0	
N-Nitrosodiphenylamine	13.08	0.49	5.0	20	0	65.4	49-105	0	
Pentachlorophenol	11.07	0.97	5.0	20	0	55.4	17-108	0	
Phenanthrene	12.88	0.081	5.0	20	0	64.4	51-103	0	
Phenol	6.25	0.21	5.0	20	0	31.2	15-52	0	
Pyrene	15.11	0.036	5.0	20	0	75.6	50-105	0	
Surr: 2,4,6-Tribromophenol	34.07	0	0	50	0	68.1	47-103	0	
Surr: 2-Fluorobiphenyl	29.33	0	0	50	0	58.7	41-96	0	
Surr: 2-Fluorophenol	21.65	0	0	50	0	43.3	28-66	0	
Surr: 4-Terphenyl-d14	37.58	0	0	50	0	75.2	49-107	0	
Surr: Nitrobenzene-d5	30.8	0	0	50	0	61.6	41-95	0	
Surr: Phenol-d6	14.25	0	0	50	0	28.5	18-44	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120870
 Project: Houston

QC BATCH REPORT

Batch ID: 208196 Instrument ID SVM59 Method: SW846 8270D

LCSD Sample ID: SLCDW1-208196-208196					Units: µg/L			Analysis Date: 12/19/2022 07:15 PM			
Client ID:		Run ID: SVM9_221219A			SeqNo: 9128594		Prep Date: 12/13/2022		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	11.19	0.42	5.0	20	0	56	35-103	9.36	17.8	30	
1,2,4,5-Tetrachlorobenzene	9.43	0.34	10	20	0	47.2	22-105	7.07	0	30	J
1-Methylnaphthalene	9.93	0.083	5.0	20	0	49.6	29-103	8.06	20.8	30	
2,2`-Oxybis(1-chloropropane)	11.82	0.23	5.0	20	0	59.1	40-99	12.07	2.09	30	
2,3,4,6-Tetrachlorophenol	13.69	0.45	5.0	20	0	68.4	38-110	13.93	1.74	30	
2,4,5-Trichlorophenol	12.88	0.17	5.0	20	0	64.4	49-102	13.21	2.53	30	
2,4,6-Trichlorophenol	12.9	0.25	5.0	20	0	64.5	47-100	13.23	2.53	30	
2,4-Dichlorophenol	12.35	0.35	5.0	20	0	61.8	47-99	13.1	5.89	30	
2,4-Dimethylphenol	11.62	0.36	5.0	20	0	58.1	42-98	12.14	4.38	30	
2,4-Dinitrophenol	11.53	2.6	5.0	20	0	57.6	10-109	11.76	1.98	30	
2,4-Dinitrotoluene	13.5	0.42	5.0	20	0	67.5	50-102	13.85	2.56	30	
2,6-Dinitrotoluene	13.38	0.11	5.0	20	0	66.9	52-100	13.68	2.22	30	
2-Chloronaphthalene	10.23	0.075	5.0	20	0	51.2	32-104	8.08	23.5	30	
2-Chlorophenol	13.48	0.23	5.0	20	0	67.4	44-99	14.05	4.14	30	
2-Methylnaphthalene	9.65	0.065	5.0	20	0	48.2	26-108	7.79	21.3	30	
2-Methylphenol	11.8	0.25	5.0	20	0	59	42-90	12.18	3.17	30	
2-Nitroaniline	13.63	0.21	5.0	20	0	68.2	50-101	13.68	0.366	30	
2-Nitrophenol	12.53	0.34	5.0	20	0	62.6	33-107	12.81	2.21	30	
3&4-Methylphenol	11.08	0.21	5.0	20	0	55.4	38-83	11.67	5.19	30	
3,3`-Dichlorobenzidine	15.64	0.46	5.0	20	0	78.2	40-102	15.7	0.383	30	
3-Nitroaniline	13.7	0.64	5.0	20	0	68.5	56-98	13.73	0.219	30	
4,6-Dinitro-2-methylphenol	13.63	0.27	5.0	20	0	68.2	34-110	13.6	0.22	30	
4-Bromophenyl phenyl ether	13.8	0.33	5.0	20	0	69	49-103	13.19	4.52	30	
4-Chloro-3-methylphenol	13.27	0.26	5.0	20	0	66.4	51-99	13.92	4.78	30	
4-Chloroaniline	14.02	0.34	5.0	20	0	70.1	43-101	14.09	0.498	30	
4-Chlorophenyl phenyl ether	12.9	0.31	5.0	20	0	64.5	45-100	11.95	7.65	30	
4-Nitroaniline	14.16	0.57	5.0	20	0	70.8	52-101	14.49	2.3	30	
4-Nitrophenol	6.81	0.24	5.0	20	0	34	12-56	6.35	6.99	30	
Acenaphthene	11.44	0.081	5.0	20	0	57.2	40-100	9.91	14.3	30	
Acenaphthylene	11.54	0.075	5.0	20	0	57.7	41-100	10.27	11.6	30	
Acetophenone	12.73	0.37	1.0	20	0	63.6	49-98	13.47	5.65	30	
Anthracene	13.36	0.028	5.0	20	0	66.8	52-102	13.33	0.225	30	
Atrazine	14.57	0.35	1.0	20	0	72.8	54-104	15.13	3.77	30	
Benzaldehyde	12.04	0.52	1.0	20	0	60.2	42-99	12.82	6.28	30	
Benzo(a)anthracene	15.23	0.099	5.0	20	0	76.2	55-99	15.45	1.43	30	
Benzo(a)pyrene	16.36	0.044	5.0	20	0	81.8	53-103	16.58	1.34	30	
Benzo(b)fluoranthene	15.7	0.051	5.0	20	0	78.5	53-103	15.66	0.255	30	
Benzo(g,h,i)perylene	16.46	0.089	5.0	20	0	82.3	53-105	16.07	2.4	30	
Benzo(k)fluoranthene	15.26	0.048	5.0	20	0	76.3	53-104	15.48	1.43	30	
Bis(2-chloroethoxy)methane	12.74	0.29	5.0	20	0	63.7	50-97	13.5	5.79	30	
Bis(2-chloroethyl)ether	11.64	0.37	5.0	20	0	58.2	45-96	12.49	7.05	30	
Bis(2-ethylhexyl)phthalate	16.89	0.4	5.0	20	0	84.4	52-110	17.53	3.72	30	
Butyl benzyl phthalate	15.22	0.3	5.0	20	0	76.1	42-106	15.73	3.3	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
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QC BATCH REPORT

Batch ID: 208196			Instrument ID SVMS9			Method: SW846 8270D				
Carbazole	13.67	0.24	5.0	20	0	68.4	54-103	13.88	1.52	30
Chrysene	14.99	0.048	5.0	20	0	75	63-104	15.19	1.33	30
Dibenzo(a,h)anthracene	16.11	0.073	5.0	20	0	80.6	54-104	15.87	1.5	30
Dibenzofuran	12.02	0.23	5.0	20	0	60.1	45-100	10.76	11.1	30
Diethyl phthalate	14.61	0.17	5.0	20	0	73	13-133	14.8	1.29	30
Dimethyl phthalate	13.89	0.18	5.0	20	0	69.4	25-125	14.06	1.22	30
Di-n-butyl phthalate	14.55	0.21	5.0	20	0	72.8	49-109	15.09	3.64	30
Di-n-octyl phthalate	19.08	0.53	5.0	20	0	95.4	45-117	20.13	5.36	30
Fluoranthene	13.9	0.038	5.0	20	0	69.5	53-103	13.96	0.431	30
Fluorene	12.53	0.051	5.0	20	0	62.6	47-101	11.73	6.6	30
Hexachlorobenzene	13.25	0.44	5.0	20	0	66.2	50-103	12.86	2.99	30
Hexachlorobutadiene	6.47	0.63	5.0	20	0	32.4	10-112	5.5	16.2	30
Hexachlorocyclopentadiene	5.07	1.1	5.0	20	0	25.4	10-102	3.36	40.6	30
Hexachloroethane	6.58	0.62	5.0	20	0	32.9	10-109	5.71	14.2	30
Indeno(1,2,3-cd)pyrene	16.93	0.067	5.0	20	0	84.6	51-109	16.55	2.27	30
Isophorone	12.85	0.34	5.0	20	0	64.2	52-97	13.53	5.16	30
Naphthalene	9.25	0.067	5.0	20	0	46.2	32-100	8.11	13.1	30
Nitrobenzene	12.12	0.26	5.0	20	0	60.6	47-95	12.28	1.31	30
N-Nitrosodi-n-propylamine	13.34	0.35	5.0	20	0	66.7	48-101	14.23	6.46	30
N-Nitrosodiphenylamine	12.91	0.49	5.0	20	0	64.6	49-105	13.08	1.31	30
Pentachlorophenol	11.01	0.97	5.0	20	0	55	17-108	11.07	0.543	30
Phenanthrene	13.04	0.081	5.0	20	0	65.2	51-103	12.88	1.23	30
Phenol	6.3	0.21	5.0	20	0	31.5	15-52	6.25	0.797	30
Pyrene	14.96	0.036	5.0	20	0	74.8	50-105	15.11	0.998	30
Surr: 2,4,6-Tribromophenol	34.05	0	0	50	0	68.1	47-103	34.07	0.0587	40
Surr: 2-Fluorobiphenyl	28.57	0	0	50	0	57.1	41-96	29.33	2.63	40
Surr: 2-Fluorophenol	21.41	0	0	50	0	42.8	28-66	21.65	1.11	40
Surr: 4-Terphenyl-d14	36.15	0	0	50	0	72.3	49-107	37.58	3.88	40
Surr: Nitrobenzene-d5	29.33	0	0	50	0	58.7	41-95	30.8	4.89	40
Surr: Phenol-d6	14.04	0	0	50	0	28.1	18-44	14.25	1.48	40

The following samples were analyzed in this batch:

22120870-01C	22120870-02C	22120870-03C
22120870-04C	22120870-05C	22120870-06C
22120870-07C	22120870-08C	22120870-09C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120870
 Project: Houston

QC BATCH REPORT

Batch ID: **R360524a** Instrument ID **VMS9** Method: **SW8260C**

MBLK		Sample ID: 9V-BLKW1-221215-R360524a				Units: µg/L		Analysis Date: 12/16/2022 01:12 A			
Client ID:		Run ID: VMS9_221215B				SeqNo: 9115693		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	0.46	1.0								
1,1,2,2-Tetrachloroethane	U	0.4	1.0								
1,1,2-Trichloroethane	U	0.46	1.0								
1,1,2-Trichlorotrifluoroethane	U	0.52	1.0								
1,1-Dichloroethane	U	0.44	1.0								
1,1-Dichloroethene	U	0.4	1.0								
1,2,3-Trichlorobenzene	U	0.42	1.0								
1,2,3-Trichloropropane	U	0.4	1.0								
1,2,4-Trichlorobenzene	U	0.45	1.0								
1,2,4-Trimethylbenzene	U	0.45	1.0								
1,2-Dibromo-3-chloropropane	U	0.43	1.0								
1,2-Dibromoethane	U	0.41	1.0								
1,2-Dichlorobenzene	U	0.32	1.0								
1,2-Dichloroethane	U	0.44	1.0								
1,2-Dichloropropane	U	0.48	1.0								
1,3,5-Trimethylbenzene	U	0.65	1.0								
1,3-Dichlorobenzene	U	0.33	1.0								
1,4-Dichlorobenzene	U	0.35	1.0								
2-Butanone	U	0.52	5.0								
2-Hexanone	U	0.59	5.0								
4-Methyl-2-pentanone	U	0.52	1.0								
Acetone	U	6.2	10								
Benzene	U	0.46	1.0								
Bromochloromethane	U	0.45	1.0								
Bromodichloromethane	U	0.49	1.0								
Bromoform	U	0.56	1.0								
Bromomethane	U	0.9	1.0								
Carbon disulfide	U	0.49	1.0								
Carbon tetrachloride	U	0.4	1.0								
Chlorobenzene	U	0.4	1.0								
Chloroethane	U	0.68	1.0								
Chloroform	U	0.46	1.0								
Chloromethane	U	0.83	1.0								
cis-1,2-Dichloroethene	U	0.42	1.0								
cis-1,3-Dichloropropene	U	0.57	1.0								
Cyclohexane	U	0.63	2.0								
Dibromochloromethane	U	0.4	1.0								
Dichlorodifluoromethane	U	0.68	1.0								
Ethylbenzene	U	0.34	1.0								
Isopropylbenzene	U	0.35	1.0								
m,p-Xylene	U	0.81	2.0								
Methyl acetate	U	0.59	2.0								
Methyl tert-butyl ether	U	0.45	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 22120870
Project: Houston

QC BATCH REPORT

Batch ID: R360524a		Instrument ID VMS9		Method: SW8260C	
Methylcyclohexane	U	0.35	1.0		
Methylene chloride	U	0.86	5.0		
o-Xylene	U	0.31	1.0		
Styrene	U	0.33	1.0		
Tetrachloroethene	U	0.39	1.0		
Toluene	U	0.45	1.0		
trans-1,2-Dichloroethene	U	0.48	1.0		
trans-1,3-Dichloropropene	U	0.38	1.0		
Trichloroethene	U	0.43	1.0		
Trichlorofluoromethane	U	0.52	1.0		
Vinyl chloride	U	0.53	1.0		
Xylenes, Total	U	0.81	3.0		
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>21.47</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0 107 80-120 0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.05</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0 100 80-120 0</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.83</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0 99.2 80-120 0</i>
<i>Surr: Toluene-d8</i>	<i>18.92</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0 94.6 80-120 0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120870
 Project: Houston

QC BATCH REPORT

Batch ID: **R360524a** Instrument ID **VMS9** Method: **SW8260C**

LCS Sample ID: 9V-LCSW1-221215-R360524a					Units: µg/L		Analysis Date: 12/16/2022 12:25 A				
Client ID:		Run ID: VMS9_221215B			SeqNo: 9115691		Prep Date:		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.53	0.46	1.0	20	0	103	75-119	0			
1,1,2,2-Tetrachloroethane	19	0.4	1.0	20	0	95	80-123	0			
1,1,2-Trichloroethane	20.56	0.46	1.0	20	0	103	83-118	0			
1,1,2-Trichlorotrifluoroethane	22.28	0.52	1.0	20	0	111	64-133	0			
1,1-Dichloroethane	22.42	0.44	1.0	20	0	112	73-122	0			
1,1-Dichloroethene	22.85	0.4	1.0	20	0	114	66-131	0			
1,2,3-Trichlorobenzene	19.86	0.42	1.0	20	0	99.3	65-140	0			
1,2,3-Trichloropropane	21.4	0.4	1.0	20	0	107	78-119	0			
1,2,4-Trichlorobenzene	19.58	0.45	1.0	20	0	97.9	73-127	0			
1,2,4-Trimethylbenzene	21.12	0.45	1.0	20	0	106	74-118	0			
1,2-Dibromo-3-chloropropane	20.36	0.43	1.0	20	0	102	52-141	0			
1,2-Dibromoethane	20.01	0.41	1.0	20	0	100	60-159	0			
1,2-Dichlorobenzene	18.65	0.32	1.0	20	0	93.2	80-119	0			
1,2-Dichloroethane	19.85	0.44	1.0	20	0	99.2	78-121	0			
1,2-Dichloropropane	19.64	0.48	1.0	20	0	98.2	78-120	0			
1,3,5-Trimethylbenzene	20.77	0.65	1.0	20	0	104	76-120	0			
1,3-Dichlorobenzene	18.65	0.33	1.0	20	0	93.2	80-120	0			
1,4-Dichlorobenzene	18.2	0.35	1.0	20	0	91	81-119	0			
2-Butanone	21.16	0.52	5.0	20	0	106	69-147	0			
2-Hexanone	19.99	0.59	5.0	20	0	100	67-140	0			
4-Methyl-2-pentanone	27.58	0.52	1.0	20	0	138	68-199	0			
Acetone	26.96	6.2	10	20	0	135	70-166	0			
Benzene	19.59	0.46	1.0	20	0	98	78-120	0			
Bromochloromethane	24.48	0.45	1.0	20	0	122	70-125	0			
Bromodichloromethane	19.94	0.49	1.0	20	0	99.7	73-126	0			
Bromoform	19.43	0.56	1.0	20	0	97.2	60-124	0			
Bromomethane	24.14	0.9	1.0	20	0	121	20-183	0			
Carbon disulfide	22.57	0.49	1.0	20	0	113	67-159	0			
Carbon tetrachloride	20.33	0.4	1.0	20	0	102	69-124	0			
Chlorobenzene	20.89	0.4	1.0	20	0	104	80-118	0			
Chloroethane	14.02	0.68	1.0	20	0	70.1	35-136	0			
Chloroform	21.39	0.46	1.0	20	0	107	75-119	0			
Chloromethane	17.55	0.83	1.0	20	0	87.8	26-117	0			
cis-1,2-Dichloroethene	22.05	0.42	1.0	20	0	110	75-123	0			
cis-1,3-Dichloropropene	18.76	0.57	1.0	20	0	93.8	69-120	0			
Cyclohexane	20.13	0.63	2.0	20	0	101	66-128	0			
Dibromochloromethane	17.08	0.4	1.0	20	0	85.4	63-117	0			
Dichlorodifluoromethane	19.6	0.68	1.0	20	0	98	36-133	0			
Ethylbenzene	19.83	0.34	1.0	20	0	99.2	76-116	0			
Isopropylbenzene	21.8	0.35	1.0	20	0	109	77-118	0			
m,p-Xylene	40.86	0.81	2.0	40	0	102	76-119	0			
Methyl tert-butyl ether	20.13	0.45	1.0	20	0	101	77-137	0			
Methylcyclohexane	18.23	0.35	1.0	20	0	91.2	66-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 22120870
Project: Houston

QC BATCH REPORT

Batch ID: R360524a		Instrument ID VMS9		Method: SW8260C					
Methylene chloride	21.79	0.86	5.0	20	0	109	68-125	0	
o-Xylene	21.1	0.31	1.0	20	0	106	77-116	0	
Styrene	20.64	0.33	1.0	20	0	103	76-123	0	
Tetrachloroethene	20.33	0.39	1.0	20	0	102	80-124	0	
Toluene	20.98	0.45	1.0	20	0	105	78-116	0	
trans-1,2-Dichloroethene	22.56	0.48	1.0	20	0	113	73-124	0	
trans-1,3-Dichloropropene	20.92	0.38	1.0	20	0	105	67-118	0	
Trichloroethene	21.14	0.43	1.0	20	0	106	75-122	0	
Trichlorofluoromethane	11.17	0.52	1.0	20	0	55.8	52-115	0	
Vinyl chloride	16.59	0.53	1.0	20	0	83	49-122	0	
Xylenes, Total	61.96	0.81	3.0	60	0	103	77-119	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>20.82</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>104</i>	<i>80-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>22.1</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>110</i>	<i>80-120</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>20.15</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>80-120</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>20.05</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>80-120</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120870
 Project: Houston

QC BATCH REPORT

Batch ID: **R360524a** Instrument ID **VMS9** Method: **SW8260C**

DUP Sample ID: 22120870-07A DUP					Units: µg/L		Analysis Date: 12/16/2022 06:56 A				
Client ID: TW-04			Run ID: VMS9_221215B		SeqNo: 9115738		Prep Date:		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	0.46	1.0	0	0	0		0	0	30	
1,1,2,2-Tetrachloroethane	U	0.4	1.0	0	0	0		0	0	30	
1,1,2-Trichloroethane	U	0.46	1.0	0	0	0		0	0	30	
1,1,2-Trichlorotrifluoroethane	U	0.52	1.0	0	0	0		0	0	30	
1,1-Dichloroethane	U	0.44	1.0	0	0	0		0	0	30	
1,1-Dichloroethene	U	0.4	1.0	0	0	0		0	0	30	
1,2,3-Trichlorobenzene	U	0.42	1.0	0	0	0		0	0	30	
1,2,3-Trichloropropane	U	0.4	1.0	0	0	0		0	0	30	
1,2,4-Trichlorobenzene	U	0.45	1.0	0	0	0		0	0	30	
1,2,4-Trimethylbenzene	U	0.45	1.0	0	0	0		0	0	30	
1,2-Dibromo-3-chloropropane	U	0.43	1.0	0	0	0		0	0	30	
1,2-Dibromoethane	U	0.41	1.0	0	0	0		0	0	30	
1,2-Dichlorobenzene	U	0.32	1.0	0	0	0		0	0	30	
1,2-Dichloroethane	U	0.44	1.0	0	0	0		0	0	30	
1,2-Dichloropropane	U	0.48	1.0	0	0	0		0	0	30	
1,3,5-Trimethylbenzene	U	0.65	1.0	0	0	0		0	0	30	
1,3-Dichlorobenzene	U	0.33	1.0	0	0	0		0	0	30	
1,4-Dichlorobenzene	U	0.35	1.0	0	0	0		0	0	30	
2-Butanone	U	0.52	5.0	0	0	0		0	0	30	
2-Hexanone	U	0.59	5.0	0	0	0		0	0	30	
4-Methyl-2-pentanone	U	0.52	1.0	0	0	0		0	0	30	
Acetone	U	6.2	10	0	0	0		0	0	30	
Benzene	U	0.46	1.0	0	0	0		0	0	30	
Bromochloromethane	U	0.45	1.0	0	0	0		0	0	30	
Bromodichloromethane	U	0.49	1.0	0	0	0		0	0	30	
Bromoform	U	0.56	1.0	0	0	0		0	0	30	
Bromomethane	U	0.9	1.0	0	0	0		0	0	30	
Carbon disulfide	U	0.49	1.0	0	0	0		0	0	30	
Carbon tetrachloride	U	0.4	1.0	0	0	0		0	0	30	
Chlorobenzene	U	0.4	1.0	0	0	0		0	0	30	
Chloroethane	U	0.68	1.0	0	0	0		0	0	30	
Chloroform	U	0.46	1.0	0	0	0		0	0	30	
Chloromethane	U	0.83	1.0	0	0	0		0	0	30	
cis-1,2-Dichloroethene	U	0.42	1.0	0	0	0		0	0	30	
cis-1,3-Dichloropropene	U	0.57	1.0	0	0	0		0	0	30	
Cyclohexane	U	0.63	2.0	0	0	0		0	0	30	
Dibromochloromethane	U	0.4	1.0	0	0	0		0	0	30	
Dichlorodifluoromethane	U	0.68	1.0	0	0	0		0	0	30	
Ethylbenzene	U	0.34	1.0	0	0	0		0	0	30	
Isopropylbenzene	U	0.35	1.0	0	0	0		0	0	30	
m,p-Xylene	U	0.81	2.0	0	0	0		0	0	30	
Methyl acetate	U	0.59	2.0	0	0	0		0	0	30	
Methyl tert-butyl ether	U	0.45	1.0	0	0	0		0	0	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120870
 Project: Houston

QC BATCH REPORT

Batch ID: R360524a		Instrument ID VMS9		Method: SW8260C						
Methylcyclohexane	U	0.35	1.0	0	0	0	0	0	0	30
Methylene chloride	U	0.86	5.0	0	0	0	0	0	0	30
o-Xylene	U	0.31	1.0	0	0	0	0	0	0	30
Styrene	U	0.33	1.0	0	0	0	0	0	0	30
Tetrachloroethene	U	0.39	1.0	0	0	0	0	0	0	30
Toluene	U	0.45	1.0	0	0	0	0	0	0	30
trans-1,2-Dichloroethene	U	0.48	1.0	0	0	0	0	0	0	30
trans-1,3-Dichloropropene	U	0.38	1.0	0	0	0	0	0	0	30
Trichloroethene	U	0.43	1.0	0	0	0	0	0	0	30
Trichlorofluoromethane	U	0.52	1.0	0	0	0	0	0	0	30
Vinyl chloride	U	0.53	1.0	0	0	0	0	0	0	30
Xylenes, Total	U	0.81	3.0	0	0	0	0	0	0	30
Surr: 1,2-Dichloroethane-d4	20.04	0	0	20	0	100	80-120	22.49	11.5	30
Surr: 4-Bromofluorobenzene	18.79	0	0	20	0	94	80-120	19.35	2.94	30
Surr: Dibromofluoromethane	21.19	0	0	20	0	106	80-120	21.42	1.08	30
Surr: Toluene-d8	18.4	0	0	20	0	92	80-120	18.67	1.46	30

The following samples were analyzed in this batch:

22120870-01A	22120870-02A	22120870-03A
22120870-04A	22120870-05A	22120870-06A
22120870-07A	22120870-08A	22120870-09A
22120870-10A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120870
 Project: Houston

QC BATCH REPORT

Batch ID: **R360603a** Instrument ID **VMS12** Method: **SW8260C**

MBLK				Sample ID: 12V-BLKW1-221216-R360603a				Units: µg/L		Analysis Date: 12/16/2022 02:07 PM		
Client ID:				Run ID: VMS12_221216A				SeqNo: 9118869		Prep Date:		DF: 1
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	U	0.46	1.0									
1,1,2,2-Tetrachloroethane	U	0.4	1.0									
1,1,2-Trichloroethane	U	0.46	1.0									
1,1,2-Trichlorotrifluoroethane	U	0.52	1.0									
1,1-Dichloroethane	U	0.44	1.0									
1,1-Dichloroethene	U	0.4	1.0									
1,2,3-Trichlorobenzene	U	0.42	1.0									
1,2,3-Trichloropropane	U	0.4	1.0									
1,2,4-Trichlorobenzene	U	0.45	1.0									
1,2,4-Trimethylbenzene	U	0.45	1.0									
1,2-Dibromo-3-chloropropane	U	0.43	1.0									
1,2-Dibromoethane	U	0.41	1.0									
1,2-Dichlorobenzene	U	0.32	1.0									
1,2-Dichloroethane	U	0.44	1.0									
1,2-Dichloropropane	U	0.48	1.0									
1,3,5-Trimethylbenzene	U	0.65	1.0									
1,3-Dichlorobenzene	U	0.33	1.0									
1,4-Dichlorobenzene	U	0.35	1.0									
2-Butanone	U	0.52	5.0									
2-Hexanone	U	0.59	5.0									
4-Methyl-2-pentanone	U	0.52	1.0									
Acetone	U	6.2	10									
Benzene	U	0.46	1.0									
Bromochloromethane	U	0.45	1.0									
Bromodichloromethane	U	0.49	1.0									
Bromoform	U	0.56	1.0									
Bromomethane	U	0.9	1.0									
Carbon disulfide	U	0.49	1.0									
Carbon tetrachloride	U	0.4	1.0									
Chlorobenzene	U	0.4	1.0									
Chloroethane	U	0.68	1.0									
Chloroform	U	0.46	1.0									
Chloromethane	U	0.83	1.0									
cis-1,2-Dichloroethene	U	0.42	1.0									
cis-1,3-Dichloropropene	U	0.57	1.0									
Cyclohexane	U	0.63	2.0									
Dibromochloromethane	U	0.4	1.0									
Dichlorodifluoromethane	U	0.68	1.0									
Ethylbenzene	U	0.34	1.0									
Isopropylbenzene	U	0.35	1.0									
m,p-Xylene	U	0.81	2.0									
Methyl acetate	U	0.59	2.0									
Methyl tert-butyl ether	U	0.45	1.0									

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 22120870
Project: Houston

QC BATCH REPORT

Batch ID: R360603a		Instrument ID VMS12		Method: SW8260C	
Methylcyclohexane	U	0.35	1.0		
Methylene chloride	U	0.86	5.0		
o-Xylene	U	0.31	1.0		
Styrene	U	0.33	1.0		
Tetrachloroethene	U	0.39	1.0		
Toluene	U	0.45	1.0		
trans-1,2-Dichloroethene	U	0.48	1.0		
trans-1,3-Dichloropropene	U	0.38	1.0		
Trichloroethene	U	0.43	1.0		
Trichlorofluoromethane	U	0.52	1.0		
Vinyl chloride	U	0.53	1.0		
Xylenes, Total	U	0.81	3.0		
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>21.34</i>	0	0	20	0 107 80-120 0
<i>Surr: 4-Bromofluorobenzene</i>	<i>18.64</i>	0	0	20	0 93.2 80-120 0
<i>Surr: Dibromofluoromethane</i>	<i>19.82</i>	0	0	20	0 99.1 80-120 0
<i>Surr: Toluene-d8</i>	<i>20.38</i>	0	0	20	0 102 80-120 0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120870
 Project: Houston

QC BATCH REPORT

Batch ID: **R360603a** Instrument ID **VMS12** Method: **SW8260C**

LCS		Sample ID: 12V-LCSW1-221216-R360603a				Units: µg/L		Analysis Date: 12/16/2022 12:55 PM			
Client ID:		Run ID: VMS12_221216A				SeqNo: 9118867		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	18.8	0.46	1.0	20	0	94	75-119	0			
1,1,2,2-Tetrachloroethane	20.58	0.4	1.0	20	0	103	80-123	0			
1,1,2-Trichloroethane	21.74	0.46	1.0	20	0	109	83-118	0			
1,1,2-Trichlorotrifluoroethane	22.37	0.52	1.0	20	0	112	64-133	0			
1,1-Dichloroethane	22.34	0.44	1.0	20	0	112	73-122	0			
1,1-Dichloroethene	24.79	0.4	1.0	20	0	124	66-131	0			
1,2,3-Trichlorobenzene	20.71	0.42	1.0	20	0	104	65-140	0			
1,2,3-Trichloropropane	21.18	0.4	1.0	20	0	106	78-119	0			
1,2,4-Trichlorobenzene	21.77	0.45	1.0	20	0	109	73-127	0			
1,2,4-Trimethylbenzene	21.62	0.45	1.0	20	0	108	74-118	0			
1,2-Dibromo-3-chloropropane	17.63	0.43	1.0	20	0	88.2	52-141	0			
1,2-Dibromoethane	20.55	0.41	1.0	20	0	103	60-159	0			
1,2-Dichlorobenzene	20.55	0.32	1.0	20	0	103	80-119	0			
1,2-Dichloroethane	20.38	0.44	1.0	20	0	102	78-121	0			
1,2-Dichloropropane	21.23	0.48	1.0	20	0	106	78-120	0			
1,3,5-Trimethylbenzene	21.88	0.65	1.0	20	0	109	76-120	0			
1,3-Dichlorobenzene	20.78	0.33	1.0	20	0	104	80-120	0			
1,4-Dichlorobenzene	21.09	0.35	1.0	20	0	105	81-119	0			
2-Butanone	24.18	0.52	5.0	20	0	121	69-147	0			
2-Hexanone	20.98	0.59	5.0	20	0	105	67-140	0			
4-Methyl-2-pentanone	26.22	0.52	1.0	20	0	131	68-199	0			
Acetone	23.27	6.2	10	20	0	116	70-166	0			
Benzene	21.33	0.46	1.0	20	0	107	78-120	0			
Bromochloromethane	23.88	0.45	1.0	20	0	119	70-125	0			
Bromodichloromethane	21.58	0.49	1.0	20	0	108	73-126	0			
Bromoform	17.69	0.56	1.0	20	0	88.4	60-124	0			
Bromomethane	24.77	0.9	1.0	20	0	124	20-183	0			
Carbon disulfide	23.05	0.49	1.0	20	0	115	67-159	0			
Carbon tetrachloride	19.49	0.4	1.0	20	0	97.4	69-124	0			
Chlorobenzene	21.49	0.4	1.0	20	0	107	80-118	0			
Chloroethane	23.3	0.68	1.0	20	0	116	35-136	0			
Chloroform	22.53	0.46	1.0	20	0	113	75-119	0			
Chloromethane	15.69	0.83	1.0	20	0	78.4	26-117	0			
cis-1,2-Dichloroethene	23.33	0.42	1.0	20	0	117	75-123	0			
cis-1,3-Dichloropropene	19.98	0.57	1.0	20	0	99.9	69-120	0			
Cyclohexane	20.42	0.63	2.0	20	0	102	66-128	0			
Dibromochloromethane	17.66	0.4	1.0	20	0	88.3	63-117	0			
Dichlorodifluoromethane	21.56	0.68	1.0	20	0	108	36-133	0			
Ethylbenzene	21.96	0.34	1.0	20	0	110	76-116	0			
Isopropylbenzene	21.29	0.35	1.0	20	0	106	77-118	0			
m,p-Xylene	44.1	0.81	2.0	40	0	110	76-119	0			
Methyl tert-butyl ether	21.87	0.45	1.0	20	0	109	77-137	0			
Methylcyclohexane	20.83	0.35	1.0	20	0	104	66-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 22120870
Project: Houston

QC BATCH REPORT

Batch ID: R360603a		Instrument ID VMS12		Method: SW8260C					
Methylene chloride	19.15	0.86	5.0	20	0	95.8	68-125	0	
o-Xylene	21.68	0.31	1.0	20	0	108	77-116	0	
Styrene	21.17	0.33	1.0	20	0	106	76-123	0	
Tetrachloroethene	22.81	0.39	1.0	20	0	114	80-124	0	
Toluene	21.79	0.45	1.0	20	0	109	78-116	0	
trans-1,2-Dichloroethene	22.39	0.48	1.0	20	0	112	73-124	0	
trans-1,3-Dichloropropene	18.77	0.38	1.0	20	0	93.8	67-118	0	
Trichloroethene	20.76	0.43	1.0	20	0	104	75-122	0	
Trichlorofluoromethane	22.53	0.52	1.0	20	0	113	52-115	0	
Vinyl chloride	21.79	0.53	1.0	20	0	109	49-122	0	
Xylenes, Total	65.78	0.81	3.0	60	0	110	77-119	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>21.34</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>107</i>	<i>80-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.78</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.9</i>	<i>80-120</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>20.97</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>105</i>	<i>80-120</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>20.5</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>102</i>	<i>80-120</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120870
 Project: Houston

QC BATCH REPORT

Batch ID: **R360603a** Instrument ID **VMS12** Method: **SW8260C**

MS Sample ID: 22121067-04A MS					Units: µg/L		Analysis Date: 12/16/2022 11:20 PM				
Client ID:		Run ID: VMS12_221216A			SeqNo: 9118891		Prep Date:		DF: 5		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	96.35	2.3	5.0	100	0	96.4	75-119	0			
1,1,2,2-Tetrachloroethane	104.4	2	5.0	100	0	104	80-123	0			
1,1,2-Trichloroethane	110.8	2.3	5.0	100	0	111	83-118	0			
1,1,2-Trichlorotrifluoroethane	120	2.6	5.0	100	0	120	64-133	0			
1,1-Dichloroethane	117.6	2.2	5.0	100	0	118	73-122	0			
1,1-Dichloroethene	127.6	2	5.0	100	0	128	66-131	0			
1,2,3-Trichlorobenzene	101	2.1	5.0	100	0	101	65-140	0			
1,2,3-Trichloropropane	104	2	5.0	100	0	104	78-119	0			
1,2,4-Trichlorobenzene	106	2.2	5.0	100	0	106	73-127	0			
1,2,4-Trimethylbenzene	194.7	2.2	5.0	100	1190	-995	74-118	0			SO
1,2-Dibromo-3-chloropropane	85.15	2.2	5.0	100	0	85.2	52-141	0			
1,2-Dibromoethane	102.2	2	5.0	100	0	102	60-159	0			
1,2-Dichlorobenzene	110.9	1.6	5.0	100	0	111	80-119	0			
1,2-Dichloroethane	109.8	2.2	5.0	100	0	110	78-121	0			
1,2-Dichloropropane	111	2.4	5.0	100	0	111	78-120	0			
1,3,5-Trimethylbenzene	184.8	3.2	5.0	100	0	185	76-120	0			S
1,3-Dichlorobenzene	110.2	1.6	5.0	100	0	110	80-120	0			
1,4-Dichlorobenzene	114	1.8	5.0	100	0	114	81-119	0			
2-Butanone	159.2	2.6	25	100	0	159	69-147	0			S
2-Hexanone	147.6	3	25	100	0	148	67-140	0			S
4-Methyl-2-pentanone	153	2.6	5.0	100	0	153	68-199	0			
Acetone	683.6	31	50	100	0	684	70-166	0			SE
Benzene	1549	2.3	5.0	100	1300	249	78-120	0			SEO
Bromochloromethane	131.8	2.2	5.0	100	0	132	70-125	0			S
Bromodichloromethane	110.2	2.4	5.0	100	0	110	73-126	0			
Bromoform	86.05	2.8	5.0	100	0	86	60-124	0			
Bromomethane	112.4	4.5	5.0	100	0	112	20-183	0			
Carbon disulfide	121.4	2.4	5.0	100	0	121	67-159	0			
Carbon tetrachloride	88.55	2	5.0	100	0	88.6	69-124	0			
Chlorobenzene	112.8	2	5.0	100	0	113	80-118	0			
Chloroethane	123	3.4	5.0	100	0	123	35-136	0			
Chloroform	122.7	2.3	5.0	100	0	123	75-119	0			S
Chloromethane	79.05	4.2	5.0	100	0	79	26-117	0			
cis-1,2-Dichloroethene	121	2.1	5.0	100	0	121	75-123	0			
cis-1,3-Dichloropropene	116.2	2.8	5.0	100	0	116	69-120	0			
Cyclohexane	1330	3.2	10	100	0	1330	66-128	0			SE
Dibromochloromethane	85.7	2	5.0	100	0	85.7	63-117	0			
Dichlorodifluoromethane	93.4	3.4	5.0	100	0	93.4	36-133	0			
Ethylbenzene	266.2	1.7	5.0	100	0	266	76-116	0			S
Isopropylbenzene	117.7	1.8	5.0	100	0	118	77-118	0			
m,p-Xylene	1667	4	10	200	3380	-857	76-119	0			SEO
Methyl tert-butyl ether	111.8	2.2	5.0	100	0	112	77-137	0			
Methylcyclohexane	955.8	1.8	5.0	100	0	956	66-125	0			SE

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 22120870
Project: Houston

QC BATCH REPORT

Batch ID: R360603a		Instrument ID VMS12		Method: SW8260C					
Methylene chloride	107.2	4.3	25	100	0	107	68-125	0	
o-Xylene	765.8	1.6	5.0	100	1240	-474	77-116	0	SEO
Styrene	136.7	1.6	5.0	100	0	137	76-123	0	S
Tetrachloroethene	125.9	2	5.0	100	0	126	80-124	0	S
Toluene	3917	2.2	5.0	100	8280	-4360	78-116	0	SEO
trans-1,2-Dichloroethene	117	2.4	5.0	100	0	117	73-124	0	
trans-1,3-Dichloropropene	86.65	1.9	5.0	100	0	86.6	67-118	0	
Trichloroethene	115.1	2.2	5.0	100	0	115	75-122	0	
Trichlorofluoromethane	112.9	2.6	5.0	100	0	113	52-115	0	
Vinyl chloride	109	2.6	5.0	100	0	109	49-122	0	
Xylenes, Total	2432	4	15	300	4620	-729	77-119	0	SO
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>104.3</i>	0	0	<i>100</i>	0	<i>104</i>	<i>80-120</i>	0	
<i>Surr: 4-Bromofluorobenzene</i>	<i>98.55</i>	0	0	<i>100</i>	0	<i>98.6</i>	<i>80-120</i>	0	
<i>Surr: Dibromofluoromethane</i>	<i>102.6</i>	0	0	<i>100</i>	0	<i>103</i>	<i>80-120</i>	0	
<i>Surr: Toluene-d8</i>	<i>99.1</i>	0	0	<i>100</i>	0	<i>99.1</i>	<i>80-120</i>	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
 Work Order: 22120870
 Project: Houston

QC BATCH REPORT

Batch ID: **R360603a** Instrument ID **VMS12** Method: **SW8260C**

MSD Sample ID: 22121067-04A MSD					Units: µg/L		Analysis Date: 12/16/2022 11:44 PM				
Client ID:		Run ID: VMS12_221216A			SeqNo: 9118892		Prep Date:		DF: 5		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	104.4	2.3	5.0	100	0	104	75-119	96.35	8.07	30	
1,1,2,2-Tetrachloroethane	108.4	2	5.0	100	0	108	80-123	104.4	3.71	30	
1,1,2-Trichloroethane	116.6	2.3	5.0	100	0	117	83-118	110.8	5.06	30	
1,1,2-Trichlorotrifluoroethane	123.6	2.6	5.0	100	0	124	64-133	120	2.95	30	
1,1-Dichloroethane	116.5	2.2	5.0	100	0	116	73-122	117.6	0.982	30	
1,1-Dichloroethene	127	2	5.0	100	0	127	66-131	127.6	0.55	30	
1,2,3-Trichlorobenzene	99.35	2.1	5.0	100	0	99.4	65-140	101	1.65	30	
1,2,3-Trichloropropane	110.3	2	5.0	100	0	110	78-119	104	5.93	30	
1,2,4-Trichlorobenzene	106	2.2	5.0	100	0	106	73-127	106	0.0943	30	
1,2,4-Trimethylbenzene	208.2	2.2	5.0	100	1190	-982	74-118	194.7	6.73	30	SO
1,2-Dibromo-3-chloropropane	97.5	2.2	5.0	100	0	97.5	52-141	85.15	13.5	30	
1,2-Dibromoethane	110	2	5.0	100	0	110	60-159	102.2	7.26	30	
1,2-Dichlorobenzene	113.8	1.6	5.0	100	0	114	80-119	110.9	2.63	30	
1,2-Dichloroethane	109.4	2.2	5.0	100	0	109	78-121	109.8	0.274	30	
1,2-Dichloropropane	115	2.4	5.0	100	0	115	78-120	111	3.58	30	
1,3,5-Trimethylbenzene	195.6	3.2	5.0	100	0	196	76-120	184.8	5.65	30	S
1,3-Dichlorobenzene	113.3	1.6	5.0	100	0	113	80-120	110.2	2.73	30	
1,4-Dichlorobenzene	116.4	1.8	5.0	100	0	116	81-119	114	2.08	30	
2-Butanone	146.3	2.6	25	100	0	146	69-147	159.2	8.48	30	
2-Hexanone	158	3	25	100	0	158	67-140	147.6	6.84	30	S
4-Methyl-2-pentanone	161.4	2.6	5.0	100	0	161	68-199	153	5.41	30	
Acetone	706.2	31	50	100	0	706	70-166	683.6	3.24	30	SE
Benzene	1600	2.3	5.0	100	1300	300	78-120	1549	3.25	30	SEO
Bromochloromethane	124.6	2.2	5.0	100	0	125	70-125	131.8	5.66	30	
Bromodichloromethane	116.6	2.4	5.0	100	0	117	73-126	110.2	5.6	30	
Bromoform	90.7	2.8	5.0	100	0	90.7	60-124	86.05	5.26	30	
Bromomethane	112.8	4.5	5.0	100	0	113	20-183	112.4	0.4	30	
Carbon disulfide	125	2.4	5.0	100	0	125	67-159	121.4	2.84	30	
Carbon tetrachloride	93.25	2	5.0	100	0	93.2	69-124	88.55	5.17	30	
Chlorobenzene	119.6	2	5.0	100	0	120	80-118	112.8	5.9	30	S
Chloroethane	114.8	3.4	5.0	100	0	115	35-136	123	6.94	30	
Chloroform	124.6	2.3	5.0	100	0	125	75-119	122.7	1.5	30	S
Chloromethane	77.4	4.2	5.0	100	0	77.4	26-117	79.05	2.11	30	
cis-1,2-Dichloroethene	119.8	2.1	5.0	100	0	120	75-123	121	0.996	30	
cis-1,3-Dichloropropene	122.1	2.8	5.0	100	0	122	69-120	116.2	4.99	30	S
Cyclohexane	1404	3.2	10	100	0	1400	66-128	1330	5.39	30	SE
Dibromochloromethane	95.5	2	5.0	100	0	95.5	63-117	85.7	10.8	30	
Dichlorodifluoromethane	90.7	3.4	5.0	100	0	90.7	36-133	93.4	2.93	30	
Ethylbenzene	288.7	1.7	5.0	100	0	289	76-116	266.2	8.09	30	S
Isopropylbenzene	127	1.8	5.0	100	0	127	77-118	117.7	7.6	30	S
m,p-Xylene	1789	4	10	200	3380	-795	76-119	1667	7.11	30	SEO
Methyl tert-butyl ether	109	2.2	5.0	100	0	109	77-137	111.8	2.49	30	
Methylcyclohexane	1055	1.8	5.0	100	0	1050	66-125	955.8	9.83	30	SE

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 22120870
Project: Houston

QC BATCH REPORT

Batch ID: R360603a		Instrument ID VMS12			Method: SW8260C						
Methylene chloride	102.4	4.3	25	100	0	102	68-125	107.2	4.68	30	
o-Xylene	822.3	1.6	5.0	100	1240	-418	77-116	765.8	7.12	30	SEO
Styrene	144.3	1.6	5.0	100	0	144	76-123	136.7	5.41	30	S
Tetrachloroethene	132.8	2	5.0	100	0	133	80-124	125.9	5.33	30	S
Toluene	4043	2.2	5.0	100	8280	-4240	78-116	3917	3.18	30	SEO
trans-1,2-Dichloroethene	117	2.4	5.0	100	0	117	73-124	117	0	30	
trans-1,3-Dichloropropene	91.45	1.9	5.0	100	0	91.4	67-118	86.65	5.39	30	
Trichloroethene	116.6	2.2	5.0	100	0	117	75-122	115.1	1.29	30	
Trichlorofluoromethane	117.4	2.6	5.0	100	0	117	52-115	112.9	3.87	30	S
Vinyl chloride	105.6	2.6	5.0	100	0	106	49-122	109	3.17	30	
Xylenes, Total	2612	4	15	300	4620	-669	77-119	2432	7.11	30	SO
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>102.8</i>	<i>0</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>103</i>	<i>80-120</i>	<i>104.3</i>	<i>1.4</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>103.4</i>	<i>0</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>103</i>	<i>80-120</i>	<i>98.55</i>	<i>4.85</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>101.2</i>	<i>0</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>101</i>	<i>80-120</i>	<i>102.6</i>	<i>1.42</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>103</i>	<i>0</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>103</i>	<i>80-120</i>	<i>99.1</i>	<i>3.91</i>	<i>30</i>	

The following samples were analyzed in this batch:

22120870-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



22120870

TETRATECH - MO: Tetra Tech
Project:

Custody Form

Group USA, Corp

Work Order

Company Name	Tetra Tech	Company Name	Tetra Tech	Parameter/Method Request for Analysis	
Send Report To	Stephen Knerr	Invoice Attn		A	VOL and TPH-GRO SW-846 8260
Project Name		Project #		B	SVOC and TPH-DRO 846 8270
Address	415 Oak Street	Address	415 Oak Street	C	TPH-ORO SW 846 8015
City State Zip	Kansas City, MO 64106	City State Zip	Kansas City, MO 64106	D	PCB's SW-846 8082
Phone	8164121755	Phone	8164121755	E	TAL Metals - SW-846 6010/7470 (Dissolved)
e-Mail Address		e-Mail Address		F	
				G	
				H	
				I	
				J	

#	Sample Description	Date	Time	Matrix	Preservative	# Bottles	A	B	C	D	E	F	G	H	I	J	Sample Notes
1	FB-01	12-6-22	1120	W	1,2,8	13	X	X	X	X	X						
2	FW-01 TW-03		1245	W	1,2,8	13	X	X	X	X	X						
3	TW-02		1315	W	1,2,8	13	X	X	X	X	X						
4	TW-01		1345	W	1,2,8	13	X	X	X	X	X						
5	TW-06		1415	W	1,2,8	13	X	X	X	X	X						
6	TW-05		1445	W	1,2,8	13	X	X	X	X	X						
7	TW-04		1515	W	1,2,8	13	X	X	X	X	X						
8	EB-01		1550	W	1,2,8	13	X	X	X	X	X						
9	DUP-02		800	W	1,2,8	11	X	X	X	X	X						
10	TRIP BLANK		-	W	1	2											

Notes: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

Required Turnaround Time: _____
Std 10 Wk days 5 Wk days 2 Wk days 24 hr

Results Due:

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

Relinquished by	Date	Time	Received by	Date	Time
	12/7/22	905	DW	12/7/22	905
NA	12-7-22	18.00			

NOTES:

QC Reporting Level: (check box below)

Level II: Standard QC

Level III: Std QC + Raw data

Level IV: SW846 CLP-Like

Other:

44803 3.2° 50132 3.2° 46623 4.3°
IR 31 CF 0.5

Sample Receipt Checklist

Client Name: **TETRATECH - MO**

Date/Time Received: **08-Dec-22 14:30**

Work Order: **22120870**

Received by: **KRW**

Checklist completed by Keith Waringa
eSignature

09-Dec-22
Date

Reviewed by: Jodi Blauw
eSignature

13-Dec-22
Date

Matrices: Water

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.2/4.2, 2.9/3.9, 3.2/4.2 C</u>		<u>IR3</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>12/9/2022 2:30:49 PM</u>		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:	<u></u>		

Login Notes: pH Check <2

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



LABORATORY REPORT

December 18, 2022

Kaitlyn Mitchell
Tetra Tech, Incorporated
415 Oak Street
Kansas City, MO 64106

RE: Houston Land Bank / 212C-HN-02098

Dear Kaitlyn:

Enclosed are the results of the samples submitted to our laboratory on December 7, 2022. For your reference, these analyses have been assigned our service request number P2205496.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

ALS | Environmental

4:33 pm, Dec 18, 2022

For Denise Posada
Project Manager



Client: Tetra Tech, Incorporated
Project: Houston Land Bank / 212C-HN-02098

Service Request No: P2205496

CASE NARRATIVE

The samples were received intact under chain of custody on December 7, 2022 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

The analysis for sample SV-03 (P2205496-001) was cancelled due to the presence of liquid in the canister.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph/mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The analyte Vinyl Acetate could not be reported for this data set due to a vendor anomaly found in the new standard being used. Once the issue has been resolved subsequent reports will include the compound in question.

The lower control criterion was exceeded for Benzyl Chloride in the Duplicate Laboratory Control Sample (DLCS) analyzed on December 15, 2022. The error associated with the reduced recovery equates to a potential low bias. However, a Method Reporting Limit (MRL) check standard containing the analyte of concern was analyzed and verified that instrument sensitivity was adequate to detect the analyte at the MRL on the day of analysis. Additionally, the Laboratory Control Sample (LCS) was within acceptance. Therefore, the data has not been significantly affected. No corrective action was taken.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.4 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	http://dec.alaska.gov/eh/lab.aspx	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/page/la-lab-accreditation	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml	2018027
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1776326
New Jersey DEP (NELAP)	http://www.nj.gov/dep/enforcement/oqa.html	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-008
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413-19-10
Utah DOH (NELAP)	http://health.utah.gov/lab/lab_cert_env	CA016272019-10
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946
<p>Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.</p> <p>Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.</p>		

Laboratory Data Package Cover Page - Page 1 of 4

This data package is for Job No. P2205496 and laboratory batch no(s). MS16121522 and consists of:

☐ This signature page, the laboratory review checklist, and the following reportable data:

☒ R1 - Field chain-of-custody documentation;

☒ R2 - Sample identification cross-reference;

☒ R3 - Test reports (analytical data sheets) for each environmental sample that includes:

- a. Items consistent with NELAC Chapter 5,
- b. dilution factors,
- c. preparation methods,
- d. cleanup methods, and
- e. if required for the project, tentatively identified compounds (TICs).

☒ ☐ R4 - Surrogate recovery data including:

- a. Calculated recovery (%R), and
- b. The laboratory's surrogate QC limits.

☒ R5 - Test reports/summary forms for blank samples;

☒ R6 - Test reports/summary forms for laboratory control samples (LCSs) including:

- a. LCS spiking amounts,
- b. Calculated %R for each analyte, and
- c. The laboratory's LCS QC limits.

☐ R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

- a. Samples associated with the MS/MSD clearly identified,
- b. MS/MSD spiking amounts,
- c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d. Calculated %Rs and relative percent differences (RPDs), and
- e. The laboratory's MS/MSD QC limits

☒ ☐ R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

- a. The amount of analyte measured in the duplicate,
- b. The calculated RPD, and
- c. The laboratory's QC limits for analytical duplicates.


☒ R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

☒ R10 - Other problems or anomalies.

The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: ☐ This laboratory meets an exception under 30 TAC §25.6 and was last inspection by ☐ TCEQ or ☐ _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Name (Printed)	Signature	Official Title (printed)	Date
Sue Anderson	 4:33 pm, Dec 18, 2022	Project Manager	12/18/2022

Laboratory Review Checklist: Reportable Data - Page 2 of 4

Laboratory Name: ALS Environmental		LRC Date: 12/18/2022					
Project Name: Houston Land Bank		Laboratory Job Number: P2205496					
Reviewer Name: Sue Anderson		Prep Batch Number(s): MS16121522					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				

Laboratory Name: ALS Environmental			LRC Date: 12/18/2022				
Project Name: Houston Land Bank			Laboratory Job Number: P2205496				
Reviewer Name: Sue Anderson			Prep Batch Number(s): MS16121522				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data			X		
		Were the project/method specified analytes included in the MS and MSD?					
		Were MS/MSD analyzed at the appropriate frequency?					
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?					
		Were MS/MSD RPDs within laboratory QC limits?					
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				
<p>1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period;</p> <p>2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);</p> <p>3. NA = Not applicable;</p> <p>4. NR = Not reviewed;</p> <p>5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p>							

Laboratory Review checklist: Supporting Data - Page 3 of 4

Laboratory Name: ALS Environmental		LRC Date: 12/18/2022					
Project Name: Houston Land Bank		Laboratory Job Number: P2205496					
Reviewer Name: Sue Anderson		Prep Batch Number(s): MS16121522					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation			X		
		Did dual column confirmation results meet the method-required QC?					
S7	O	Tentatively identified compounds (TICs)			X		
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?					
S8	I	Interference Check Sample (ICS) results			X		
		Were percent recoveries within method QC limits?					
S9	I	Serial dilutions, post digestion spikes, and method of standard additions			X		
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?					
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				

Laboratory Name: ALS Environmental			LRC Date: 12/18/2022				
Project Name: Houston Land Bank			Laboratory Job Number: P2205496				
Reviewer Name: Sue Anderson			Prep Batch Number(s): MS16121522				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
<p>1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.</p> <p>2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);</p> <p>3. NA = Not applicable;</p> <p>4. NR = Not reviewed;</p> <p>5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p>							

Laboratory Review Checklist: Exception Reports - Page 4 of 4

Laboratory Name: ALS Environmental		LRC Date: P2205496	
Project Name: Houston Land Bank		Laboratory Job Number: P2205496	
Reviewer Name: Sue Anderson		Prep Batch Number(s): MS16121522	
ER #¹	DESCRIPTION		
R6	The lower control criterion was exceeded for Benzyl Chloride in the Duplicate Laboratory Control Sample (DLCS) analyzed on December 15, 2022. The error associated with the reduced recovery equates to a potential low bias. However, a Method Reporting Limit (MRL) check standard containing the analyte of concern was analyzed and verified that instrument sensitivity was adequate to detect the analyte at the MRL on the day of analysis. Additionally, the Laboratory Control Sample (LCS) was within acceptance. Therefore, the data has not been significantly affected. No corrective action was taken.		
R10	The analyte Vinyl Acetate could not be reported for this data set due to a vendor anomaly found in the new standard being used. Once the issue has been resolved subsequent reports will include the compound in question.		
<ol style="list-style-type: none"> 1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked). 			

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Tetra Tech, Incorporated
 Project ID: Houston Land Bank / 212C-HN-02098

Service Request: P2205496

Date Received: 12/7/2022
 Time Received: 09:40

TO-15 Modified - VOC Cans 62

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	
SV-02	P2205496-002	Air	12/5/2022	12:05	1SC00114	-0.30	5.86	X
SV-01	P2205496-003	Air	12/5/2022	14:05	1SC00496	-0.30	6.00	X
SV-06	P2205496-004	Air	12/5/2022	16:00	1SC00697	-0.36	6.19	X



Page _____ of _____

0450 @ 22/4/21 70010

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Tetra Tech, Incorporated
Client Sample ID: SV-02
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205496
 ALS Sample ID: P2205496-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 1.0 L Summa Canister
Test Notes:
Container ID: 1SC00114

Date Collected: 12/5/22
Date Received: 12/7/22
Date Analyzed: 12/15/22
Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.30 **Final Pressure (psig):** 5.86

Canister Dilution Factor: 1.43

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	260	1.9	150	1.1	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	1.9	0.57	0.38	
74-87-3	Chloromethane	ND	1.8	ND	0.88	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.9	ND	0.28	
75-01-4	Vinyl Chloride	ND	1.9	ND	0.73	
106-99-0	1,3-Butadiene	8.4	1.9	3.8	0.84	
74-83-9	Bromomethane	ND	1.8	ND	0.47	
75-00-3	Chloroethane	ND	1.8	ND	0.69	
67-64-1	Acetone	180	19	74	7.8	
75-69-4	Trichlorofluoromethane (CFC 11)	8.6	1.9	1.5	0.33	
67-63-0	2-Propanol (Isopropyl Alcohol)	88	3.6	36	1.5	
75-35-4	1,1-Dichloroethene	ND	1.9	ND	0.49	
75-09-2	Methylene Chloride	ND	1.9	ND	0.54	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	1.9	ND	0.25	
75-15-0	Carbon Disulfide	30	3.9	9.8	1.3	
156-60-5	trans-1,2-Dichloroethene	ND	1.9	ND	0.48	
75-34-3	1,1-Dichloroethane	ND	1.9	ND	0.47	
1634-04-4	Methyl tert-Butyl Ether	ND	1.9	ND	0.53	
78-93-3	2-Butanone (MEK)	20	3.6	6.7	1.2	
156-59-2	cis-1,2-Dichloroethene	ND	1.9	ND	0.47	
141-78-6	Ethyl Acetate	100	7.5	28	2.1	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Tetra Tech, Incorporated
Client Sample ID: SV-02
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205496
 ALS Sample ID: P2205496-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 1.0 L Summa Canister
Test Notes:
Container ID: 1SC00114

Date Collected: 12/5/22
Date Received: 12/7/22
Date Analyzed: 12/15/22
Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.30 **Final Pressure (psig):** 5.86

Canister Dilution Factor: 1.43

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
110-54-3	n-Hexane	14	1.9	4.0	0.54	
67-66-3	Chloroform	ND	1.9	ND	0.40	
109-99-9	Tetrahydrofuran (THF)	ND	3.6	ND	1.2	
107-06-2	1,2-Dichloroethane	ND	1.9	ND	0.47	
71-55-6	1,1,1-Trichloroethane	ND	1.9	ND	0.34	
71-43-2	Benzene	5.9	1.8	1.9	0.56	
56-23-5	Carbon Tetrachloride	ND	1.8	ND	0.28	
110-82-7	Cyclohexane	ND	3.9	ND	1.1	
78-87-5	1,2-Dichloropropane	ND	1.8	ND	0.39	
75-27-4	Bromodichloromethane	ND	1.9	ND	0.28	
79-01-6	Trichloroethene	ND	1.9	ND	0.35	
123-91-1	1,4-Dioxane	ND	1.9	ND	0.52	
142-82-5	n-Heptane	11	1.9	2.8	0.46	
10061-01-5	cis-1,3-Dichloropropene	ND	1.8	ND	0.39	
108-10-1	4-Methyl-2-pentanone	ND	3.9	ND	0.96	
10061-02-6	trans-1,3-Dichloropropene	ND	1.8	ND	0.40	
79-00-5	1,1,2-Trichloroethane	ND	1.9	ND	0.34	
108-88-3	Toluene	35	1.9	9.3	0.49	
591-78-6	2-Hexanone	ND	3.9	ND	0.96	
124-48-1	Dibromochloromethane	ND	1.9	ND	0.22	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Tetra Tech, Incorporated
Client Sample ID: SV-02
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205496
 ALS Sample ID: P2205496-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 1.0 L Summa Canister
Test Notes:
Container ID: 1SC00114

Date Collected: 12/5/22
Date Received: 12/7/22
Date Analyzed: 12/15/22
Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.30 **Final Pressure (psig):** 5.86

Canister Dilution Factor: 1.43

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
106-93-4	1,2-Dibromoethane	ND	1.9	ND	0.24	
127-18-4	Tetrachloroethene	ND	1.9	ND	0.27	
108-90-7	Chlorobenzene	ND	1.9	ND	0.40	
100-41-4	Ethylbenzene	ND	1.9	ND	0.43	
179601-23-1	m,p-Xylenes	ND	3.9	ND	0.91	
75-25-2	Bromoform	ND	1.9	ND	0.18	
100-42-5	Styrene	ND	1.8	ND	0.42	
95-47-6	o-Xylene	ND	1.9	ND	0.43	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.9	ND	0.27	
98-82-8	Cumene	ND	1.9	ND	0.38	
622-96-8	4-Ethyltoluene	ND	1.9	ND	0.39	
108-67-8	1,3,5-Trimethylbenzene	ND	1.9	ND	0.38	
95-63-6	1,2,4-Trimethylbenzene	ND	1.9	ND	0.38	
100-44-7	Benzyl Chloride	ND	3.9	ND	0.76	
541-73-1	1,3-Dichlorobenzene	ND	1.9	ND	0.31	
106-46-7	1,4-Dichlorobenzene	ND	1.9	ND	0.31	
95-50-1	1,2-Dichlorobenzene	ND	1.9	ND	0.32	
120-82-1	1,2,4-Trichlorobenzene	ND	3.9	ND	0.53	
91-20-3	Naphthalene	ND	1.9	ND	0.35	
87-68-3	Hexachlorobutadiene	ND	1.9	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Tetra Tech, Incorporated
Client Sample ID: SV-01
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205496
 ALS Sample ID: P2205496-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 1.0 L Summa Canister
Test Notes:
Container ID: 1SC00496

Date Collected: 12/5/22
Date Received: 12/7/22
Date Analyzed: 12/15/22
Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.30 **Final Pressure (psig):** 6.00

Canister Dilution Factor: 1.44

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	130	1.9	75	1.1	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	1.9	0.58	0.39	
74-87-3	Chloromethane	ND	1.8	ND	0.89	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.9	ND	0.28	
75-01-4	Vinyl Chloride	ND	1.9	ND	0.73	
106-99-0	1,3-Butadiene	5.5	1.9	2.5	0.85	
74-83-9	Bromomethane	ND	1.8	ND	0.47	
75-00-3	Chloroethane	ND	1.8	ND	0.70	
67-64-1	Acetone	230	19	97	7.9	
75-69-4	Trichlorofluoromethane (CFC 11)	4.0	1.9	0.71	0.33	
67-63-0	2-Propanol (Isopropyl Alcohol)	37	3.6	15	1.5	
75-35-4	1,1-Dichloroethene	ND	1.9	ND	0.49	
75-09-2	Methylene Chloride	ND	1.9	ND	0.54	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	1.9	ND	0.25	
75-15-0	Carbon Disulfide	28	4.0	9.0	1.3	
156-60-5	trans-1,2-Dichloroethene	ND	1.9	ND	0.48	
75-34-3	1,1-Dichloroethane	ND	1.9	ND	0.47	
1634-04-4	Methyl tert-Butyl Ether	ND	1.9	ND	0.53	
78-93-3	2-Butanone (MEK)	37	3.6	13	1.2	
156-59-2	cis-1,2-Dichloroethene	ND	1.9	ND	0.47	
141-78-6	Ethyl Acetate	11	7.6	3.2	2.1	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Tetra Tech, Incorporated
Client Sample ID: SV-01
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205496
 ALS Sample ID: P2205496-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 1.0 L Summa Canister
Test Notes:
Container ID: 1SC00496

Date Collected: 12/5/22
Date Received: 12/7/22
Date Analyzed: 12/15/22
Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.30 **Final Pressure (psig):** 6.00

Canister Dilution Factor: 1.44

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
110-54-3	n-Hexane	3.7	1.9	1.1	0.54	
67-66-3	Chloroform	ND	1.9	ND	0.40	
109-99-9	Tetrahydrofuran (THF)	ND	3.6	ND	1.2	
107-06-2	1,2-Dichloroethane	ND	1.9	ND	0.47	
71-55-6	1,1,1-Trichloroethane	ND	1.9	ND	0.34	
71-43-2	Benzene	3.0	1.8	0.93	0.56	
56-23-5	Carbon Tetrachloride	ND	1.8	ND	0.29	
110-82-7	Cyclohexane	ND	4.0	ND	1.2	
78-87-5	1,2-Dichloropropane	ND	1.8	ND	0.39	
75-27-4	Bromodichloromethane	ND	1.9	ND	0.28	
79-01-6	Trichloroethene	ND	1.9	ND	0.35	
123-91-1	1,4-Dioxane	1.9	1.9	0.52	0.52	
142-82-5	n-Heptane	3.0	1.9	0.72	0.47	
10061-01-5	cis-1,3-Dichloropropene	ND	1.8	ND	0.40	
108-10-1	4-Methyl-2-pentanone	ND	4.0	ND	0.97	
10061-02-6	trans-1,3-Dichloropropene	ND	1.8	ND	0.40	
79-00-5	1,1,2-Trichloroethane	ND	1.9	ND	0.34	
108-88-3	Toluene	10	1.9	2.7	0.50	
591-78-6	2-Hexanone	ND	4.0	ND	0.97	
124-48-1	Dibromochloromethane	ND	1.9	ND	0.22	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Tetra Tech, Incorporated

Client Sample ID: SV-01

Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205496

ALS Sample ID: P2205496-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00496

Date Collected: 12/5/22

Date Received: 12/7/22

Date Analyzed: 12/15/22

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.30 Final Pressure (psig): 6.00

Canister Dilution Factor: 1.44

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-93-4	1,2-Dibromoethane	ND	1.9	ND	0.24	
127-18-4	Tetrachloroethene	ND	1.9	ND	0.28	
108-90-7	Chlorobenzene	ND	1.9	ND	0.41	
100-41-4	Ethylbenzene	ND	1.9	ND	0.43	
179601-23-1	m,p-Xylenes	ND	4.0	ND	0.91	
75-25-2	Bromoform	ND	1.9	ND	0.18	
100-42-5	Styrene	ND	1.8	ND	0.42	
95-47-6	o-Xylene	ND	1.9	ND	0.43	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.9	ND	0.27	
98-82-8	Cumene	ND	1.9	ND	0.38	
622-96-8	4-Ethyltoluene	ND	1.9	ND	0.39	
108-67-8	1,3,5-Trimethylbenzene	ND	1.9	ND	0.38	
95-63-6	1,2,4-Trimethylbenzene	ND	1.9	ND	0.38	
100-44-7	Benzyl Chloride	ND	4.0	ND	0.77	
541-73-1	1,3-Dichlorobenzene	ND	1.9	ND	0.31	
106-46-7	1,4-Dichlorobenzene	ND	1.9	ND	0.31	
95-50-1	1,2-Dichlorobenzene	ND	1.9	ND	0.32	
120-82-1	1,2,4-Trichlorobenzene	ND	4.0	ND	0.53	
91-20-3	Naphthalene	ND	1.9	ND	0.36	
87-68-3	Hexachlorobutadiene	ND	1.9	ND	0.18	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Tetra Tech, Incorporated
Client Sample ID: SV-06
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205496
 ALS Sample ID: P2205496-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 1.0 L Summa Canister
Test Notes:
Container ID: 1SC00697

Date Collected: 12/5/22
Date Received: 12/7/22
Date Analyzed: 12/15/22
Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.36 **Final Pressure (psig):** 6.19

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	370	1.9	210	1.1	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	1.9	0.56	0.39	
74-87-3	Chloromethane	ND	1.9	ND	0.90	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.0	ND	0.28	
75-01-4	Vinyl Chloride	ND	1.9	ND	0.74	
106-99-0	1,3-Butadiene	15	1.9	6.8	0.86	
74-83-9	Bromomethane	ND	1.9	ND	0.48	
75-00-3	Chloroethane	ND	1.9	ND	0.71	
67-64-1	Acetone	210	19	89	8.0	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	1.9	ND	0.34	
67-63-0	2-Propanol (Isopropyl Alcohol)	7.1	3.7	2.9	1.5	
75-35-4	1,1-Dichloroethene	ND	2.0	ND	0.50	
75-09-2	Methylene Chloride	ND	1.9	ND	0.55	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	2.0	ND	0.26	
75-15-0	Carbon Disulfide	47	4.0	15	1.3	
156-60-5	trans-1,2-Dichloroethene	ND	1.9	ND	0.49	
75-34-3	1,1-Dichloroethane	ND	1.9	ND	0.48	
1634-04-4	Methyl tert-Butyl Ether	ND	1.9	ND	0.54	
78-93-3	2-Butanone (MEK)	30	3.7	10	1.2	
156-59-2	cis-1,2-Dichloroethene	ND	1.9	ND	0.48	
141-78-6	Ethyl Acetate	ND	7.7	ND	2.1	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Tetra Tech, Incorporated
Client Sample ID: SV-06
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205496
 ALS Sample ID: P2205496-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 1.0 L Summa Canister
Test Notes:
Container ID: 1SC00697

Date Collected: 12/5/22
Date Received: 12/7/22
Date Analyzed: 12/15/22
Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.36 **Final Pressure (psig):** 6.19

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
110-54-3	n-Hexane	21	1.9	6.1	0.55	
67-66-3	Chloroform	ND	2.0	ND	0.40	
109-99-9	Tetrahydrofuran (THF)	9.6	3.7	3.3	1.2	
107-06-2	1,2-Dichloroethane	ND	1.9	ND	0.48	
71-55-6	1,1,1-Trichloroethane	ND	1.9	ND	0.35	
71-43-2	Benzene	7.3	1.8	2.3	0.57	
56-23-5	Carbon Tetrachloride	ND	1.8	ND	0.29	
110-82-7	Cyclohexane	ND	4.0	ND	1.2	
78-87-5	1,2-Dichloropropane	ND	1.8	ND	0.40	
75-27-4	Bromodichloromethane	ND	1.9	ND	0.29	
79-01-6	Trichloroethene	ND	1.9	ND	0.35	
123-91-1	1,4-Dioxane	ND	1.9	ND	0.53	
142-82-5	n-Heptane	6.3	1.9	1.5	0.47	
10061-01-5	cis-1,3-Dichloropropene	ND	1.8	ND	0.40	
108-10-1	4-Methyl-2-pentanone	ND	4.0	ND	0.98	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	ND	0.41	
79-00-5	1,1,2-Trichloroethane	ND	1.9	ND	0.35	
108-88-3	Toluene	5.7	1.9	1.5	0.50	
591-78-6	2-Hexanone	ND	4.0	ND	0.98	
124-48-1	Dibromochloromethane	ND	1.9	ND	0.23	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Tetra Tech, Incorporated
Client Sample ID: SV-06
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205496
 ALS Sample ID: P2205496-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 1.0 L Summa Canister
Test Notes:
Container ID: 1SC00697

Date Collected: 12/5/22
Date Received: 12/7/22
Date Analyzed: 12/15/22
Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.36 **Final Pressure (psig):** 6.19

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
106-93-4	1,2-Dibromoethane	ND	1.9	ND	0.25	
127-18-4	Tetrachloroethene	ND	1.9	ND	0.28	
108-90-7	Chlorobenzene	ND	1.9	ND	0.41	
100-41-4	Ethylbenzene	ND	1.9	ND	0.44	
179601-23-1	m,p-Xylenes	ND	4.0	ND	0.92	
75-25-2	Bromoform	ND	1.9	ND	0.18	
100-42-5	Styrene	ND	1.8	ND	0.43	
95-47-6	o-Xylene	ND	1.9	ND	0.44	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.9	ND	0.28	
98-82-8	Cumene	ND	1.9	ND	0.39	
622-96-8	4-Ethyltoluene	ND	1.9	ND	0.39	
108-67-8	1,3,5-Trimethylbenzene	ND	1.9	ND	0.39	
95-63-6	1,2,4-Trimethylbenzene	ND	1.9	ND	0.39	
100-44-7	Benzyl Chloride	ND	4.0	ND	0.78	
541-73-1	1,3-Dichlorobenzene	ND	1.9	ND	0.32	
106-46-7	1,4-Dichlorobenzene	ND	1.9	ND	0.32	
95-50-1	1,2-Dichlorobenzene	ND	1.9	ND	0.32	
120-82-1	1,2,4-Trichlorobenzene	ND	4.0	ND	0.54	
91-20-3	Naphthalene	ND	1.9	ND	0.36	
87-68-3	Hexachlorobutadiene	ND	1.9	ND	0.18	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Tetra Tech, Incorporated
Client Sample ID: Method Blank
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205496
 ALS Sample ID: P221215-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 1.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 12/15/22
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.52	ND	0.30	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	ND	0.11	
74-87-3	Chloromethane	ND	0.51	ND	0.25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.54	ND	0.077	
75-01-4	Vinyl Chloride	ND	0.52	ND	0.20	
106-99-0	1,3-Butadiene	ND	0.52	ND	0.24	
74-83-9	Bromomethane	ND	0.51	ND	0.13	
75-00-3	Chloroethane	ND	0.51	ND	0.19	
67-64-1	Acetone	ND	5.2	ND	2.2	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	ND	0.093	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	ND	0.41	
75-35-4	1,1-Dichloroethene	ND	0.54	ND	0.14	
75-09-2	Methylene Chloride	ND	0.52	ND	0.15	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	ND	0.070	
75-15-0	Carbon Disulfide	ND	1.1	ND	0.35	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	ND	0.13	
75-34-3	1,1-Dichloroethane	ND	0.53	ND	0.13	
1634-04-4	Methyl tert-Butyl Ether	ND	0.53	ND	0.15	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	0.52	ND	0.13	
141-78-6	Ethyl Acetate	ND	2.1	ND	0.58	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Tetra Tech, Incorporated
Client Sample ID: Method Blank
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205496
 ALS Sample ID: P221215-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 1.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 12/15/22
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
110-54-3	n-Hexane	ND	0.53	ND	0.15	
67-66-3	Chloroform	ND	0.54	ND	0.11	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	ND	0.34	
107-06-2	1,2-Dichloroethane	ND	0.53	ND	0.13	
71-55-6	1,1,1-Trichloroethane	ND	0.52	ND	0.095	
71-43-2	Benzene	ND	0.50	ND	0.16	
56-23-5	Carbon Tetrachloride	ND	0.50	ND	0.080	
110-82-7	Cyclohexane	ND	1.1	ND	0.32	
78-87-5	1,2-Dichloropropane	ND	0.50	ND	0.11	
75-27-4	Bromodichloromethane	ND	0.53	ND	0.079	
79-01-6	Trichloroethene	ND	0.52	ND	0.097	
123-91-1	1,4-Dioxane	ND	0.52	ND	0.14	
142-82-5	n-Heptane	ND	0.53	ND	0.13	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	1.1	ND	0.27	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.52	ND	0.095	
108-88-3	Toluene	ND	0.52	ND	0.14	
591-78-6	2-Hexanone	ND	1.1	ND	0.27	
124-48-1	Dibromochloromethane	ND	0.53	ND	0.062	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Tetra Tech, Incorporated
Client Sample ID: Method Blank
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205496
 ALS Sample ID: P221215-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 1.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 12/15/22
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-93-4	1,2-Dibromoethane	ND	0.52	ND	0.068	
127-18-4	Tetrachloroethene	ND	0.52	ND	0.077	
108-90-7	Chlorobenzene	ND	0.52	ND	0.11	
100-41-4	Ethylbenzene	ND	0.52	ND	0.12	
179601-23-1	m,p-Xylenes	ND	1.1	ND	0.25	
75-25-2	Bromoform	ND	0.52	ND	0.050	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.52	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	ND	0.076	
98-82-8	Cumene	ND	0.52	ND	0.11	
622-96-8	4-Ethyltoluene	ND	0.53	ND	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	ND	0.11	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	ND	0.11	
100-44-7	Benzyl Chloride	ND	1.1	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	0.52	ND	0.087	
106-46-7	1,4-Dichlorobenzene	ND	0.52	ND	0.087	
95-50-1	1,2-Dichlorobenzene	ND	0.53	ND	0.088	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	ND	0.15	
91-20-3	Naphthalene	ND	0.52	ND	0.099	
87-68-3	Hexachlorobutadiene	ND	0.52	ND	0.049	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Tetra Tech, Incorporated
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205496

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 1.0 L Summa Canister(s)
Test Notes:

Date(s) Collected: 12/5/22
Date(s) Received: 12/7/22
Date(s) Analyzed: 12/15/22

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P221215-MB	118	83	82	70-130	
Lab Control Sample	P221215-LCS	120	79	88	70-130	
Duplicate Lab Control Sample	P221215-DLCS	124	77	93	70-130	
SV-02	P2205496-002	124	76	88	70-130	
SV-01	P2205496-003	123	78	90	70-130	
SV-06	P2205496-004	124	77	93	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Tetra Tech, Incorporated
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205496
 ALS Sample ID: P221215-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 1.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 12/15/22
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
115-07-1	Propene	212	255	247	120	117	56-128	3	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	212	222	216	105	102	71-112	3	25	
74-87-3	Chloromethane	206	232	222	113	108	53-126	5	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	206	202	196	98	95	62-121	3	25	
75-01-4	Vinyl Chloride	204	193	189	95	93	63-123	2	25	
106-99-0	1,3-Butadiene	212	243	234	115	110	63-135	4	25	
74-83-9	Bromomethane	206	188	186	91	90	71-112	1	25	
75-00-3	Chloroethane	208	194	192	93	92	66-117	1	25	
67-64-1	Acetone	1,060	1030	1000	97	94	60-117	3	25	
75-69-4	Trichlorofluoromethane (CFC 11)	210	234	230	111	110	71-114	0.9	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	412	497	487	121	118	61-124	3	25	
75-35-4	1,1-Dichloroethene	216	211	205	98	95	74-114	3	25	
75-09-2	Methylene Chloride	212	180	176	85	83	75-112	2	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	212	205	98	95	73-114	3	25	
75-15-0	Carbon Disulfide	426	361	351	85	82	70-113	4	25	
156-60-5	trans-1,2-Dichloroethene	216	239	234	111	108	76-119	3	25	
75-34-3	1,1-Dichloroethane	216	209	206	97	95	70-114	2	25	
1634-04-4	Methyl tert-Butyl Ether	214	220	218	103	102	72-118	1	25	
78-93-3	2-Butanone (MEK)	418	419	409	100	98	74-121	2	25	
156-59-2	cis-1,2-Dichloroethene	214	229	227	107	106	73-117	0.9	25	
141-78-6	Ethyl Acetate	856	602	601	70	70	59-161	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Tetra Tech, Incorporated
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205496
 ALS Sample ID: P221215-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 1.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 12/15/22
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
110-54-3	n-Hexane	212	232	229	109	108	55-130	0.9	25	
67-66-3	Chloroform	212	212	210	100	99	71-114	1	25	
109-99-9	Tetrahydrofuran (THF)	412	402	394	98	96	73-114	2	25	
107-06-2	1,2-Dichloroethane	216	257	253	119	117	71-119	2	25	
71-55-6	1,1,1-Trichloroethane	210	231	227	110	108	73-119	2	25	
71-43-2	Benzene	216	193	192	89	89	72-113	0	25	
56-23-5	Carbon Tetrachloride	206	235	231	114	112	67-123	2	25	
110-82-7	Cyclohexane	422	416	407	99	96	70-119	3	25	
78-87-5	1,2-Dichloropropane	212	191	188	90	89	70-118	1	25	
75-27-4	Bromodichloromethane	216	223	222	103	103	74-119	0	25	
79-01-6	Trichloroethene	212	223	215	105	101	74-115	4	25	
123-91-1	1,4-Dioxane	212	197	193	93	91	77-124	2	25	
142-82-5	n-Heptane	212	202	200	95	94	70-119	1	25	
10061-01-5	cis-1,3-Dichloropropene	216	236	232	109	107	81-126	2	25	
108-10-1	4-Methyl-2-pentanone	432	477	474	110	110	73-129	0	25	
10061-02-6	trans-1,3-Dichloropropene	206	213	210	103	102	80-127	1	25	
79-00-5	1,1,2-Trichloroethane	212	201	199	95	94	78-117	1	25	
108-88-3	Toluene	212	163	154	77	73	70-118	5	25	
591-78-6	2-Hexanone	426	413	401	97	94	74-132	3	25	
124-48-1	Dibromochloromethane	216	190	177	88	82	69-137	7	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Tetra Tech, Incorporated
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205496
 ALS Sample ID: P221215-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 1.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 12/15/22
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
106-93-4	1,2-Dibromoethane	208	174	163	84	78	76-128	7	25	
127-18-4	Tetrachloroethene	212	183	171	86	81	63-130	6	25	
108-90-7	Chlorobenzene	212	168	157	79	74	70-118	7	25	
100-41-4	Ethylbenzene	210	190	177	90	84	71-123	7	25	
179601-23-1	m,p-Xylenes	420	386	359	92	85	67-127	8	25	
75-25-2	Bromoform	214	204	190	95	89	65-149	7	25	
100-42-5	Styrene	212	195	181	92	85	76-132	8	25	
95-47-6	o-Xylene	212	201	187	95	88	69-124	8	25	
79-34-5	1,1,2,2-Tetrachloroethane	212	162	151	76	71	69-128	7	25	
98-82-8	Cumene	212	193	180	91	85	69-125	7	25	
622-96-8	4-Ethyltoluene	216	212	199	98	92	69-127	6	25	
108-67-8	1,3,5-Trimethylbenzene	210	203	191	97	91	66-129	6	25	
95-63-6	1,2,4-Trimethylbenzene	208	222	208	107	100	63-142	7	25	
100-44-7	Benzyl Chloride	420	312	286	74	68	73-145	8	25	L
541-73-1	1,3-Dichlorobenzene	210	206	193	98	92	67-136	6	25	
106-46-7	1,4-Dichlorobenzene	212	198	188	93	89	63-134	4	25	
95-50-1	1,2-Dichlorobenzene	212	207	195	98	92	64-139	6	25	
120-82-1	1,2,4-Trichlorobenzene	412	420	402	102	98	62-154	4	25	
91-20-3	Naphthalene	216	204	196	94	91	62-156	3	25	
87-68-3	Hexachlorobutadiene	210	204	194	97	92	55-142	5	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.
 L = Laboratory control sample recovery outside the specified limits, results may be biased low.



LABORATORY REPORT

December 16, 2022

Kaitlyn Mitchell
Tetra Tech, Incorporated
415 Oak Street
Kansas City, MO 64106

RE: Houston Land Bank / 212C-HN-02098

Dear Kaitlyn:

Enclosed are the results of the samples submitted to our laboratory on December 8, 2022. For your reference, these analyses have been assigned our service request number P2205530.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

ALS | Environmental

3:31 pm, Dec 16, 2022

Denise Posada
Project Manager



Client: Tetra Tech, Incorporated
Project: Houston Land Bank / 212C-HN-02098

Service Request No: P2205530

CASE NARRATIVE

The samples were received intact under chain of custody on December 8, 2022 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph/mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The analyte Vinyl Acetate could not be reported for this data set, due to a vendor anomaly found in the new standard being used. Once the issue has been resolved subsequent reports will include the compound in question.

The minimum criterion for Naphthalene was not met in the Continuing Calibration Verification (CCV) analyzed on December 15, 2022. In accordance with ALS Environmental standard operating procedures, a Method Reporting Limit (MRL) check standard containing the analyte of concern was analyzed each day of analysis. The MRL check standard verified that instrument sensitivity was adequate to detect the analyte at the MRL on the day of analysis. Because the sensitivity was shown to be adequate to detect the compound in question and the compound was not detected in the field samples, the data quality is not significantly affected. This procedure is a quantitative confirmation of non-detect results at or below the MRL. No further corrective action was necessary.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.4 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	http://dec.alaska.gov/eh/lab.aspx	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/page/la-lab-accreditation	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml	2018027
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1776326
New Jersey DEP (NELAP)	http://www.nj.gov/dep/enforcement/oqa.html	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-008
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413-19-10
Utah DOH (NELAP)	http://health.utah.gov/lab/lab_cert_env	CA016272019-10
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946
<p>Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.</p> <p>Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.</p>		

Laboratory Data Package Cover Page - Page 1 of 4

This data package is for Job No. P2205530 and laboratory batch no(s). MS13121522 and consists of:

☐ This signature page, the laboratory review checklist, and the following reportable data:

- ☒ R1 - Field chain-of-custody documentation;
- ☒ R2 - Sample identification cross-reference;
- ☒ R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- ☒ R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- ☒ R5 - Test reports/summary forms for blank samples;
- ☒ R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- ☐ R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- ☒ R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- ☒ R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- ☐ R10 - Other problems or anomalies.

The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: ☐ This laboratory meets an exception under 30 TAC §25.6 and was last inspection by ☐ TCEQ or ☐ _____ on (**enter date of last inspection**). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Name (Printed)	Signature	Official Title (printed)	Date
Denise Posada		Project Manager	12/16/2022

Laboratory Review Checklist: Reportable Data - Page 2 of 4

Laboratory Name: ALS Environmental		LRC Date: 12/16/2022					
Project Name: Houston Land Bank		Laboratory Job Number: P2205530					
Reviewer Name: Denise Posada		Prep Batch Number(s): MS13121522					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				
		Were all departures from standard conditions described in an exception report?			✓		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	✓				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	✓				
		Were calculations checked by a peer or supervisor?	✓				
		Were all analyte identifications checked by a peer or supervisor?	✓				
		Were sample detection limits reported for all analytes not detected?	✓				
		Were all results for soil and sediment samples reported on a dry weight basis?			✓		
		Were % moisture (or solids) reported for all soil and sediment samples?			✓		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			✓		
		If required for the project, are TICs reported?			✓		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	✓				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	✓				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	✓				
		Were blanks analyzed at the appropriate frequency?	✓				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
		Were blank concentrations < MQL?	✓				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	✓				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
		Were LCSs analyzed at the required frequency?	✓				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	✓				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	✓				

Laboratory Name: ALS Environmental		LRC Date: 12/16/2022					
Project Name: Houston Land Bank		Laboratory Job Number: P2205530					
Reviewer Name: Denise Posada		Prep Batch Number(s): MS13121522					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
		Was the LCSD RPD within QC limits?	✓				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data			✓		
		Were the project/method specified analytes included in the MS and MSD?					
		Were MS/MSD analyzed at the appropriate frequency?					
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?					
		Were MS/MSD RPDs within laboratory QC limits?					
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?	✓				
		Were analytical duplicates analyzed at the appropriate frequency?	✓				
		Were RPDs or relative standard deviations within the laboratory QC limits?	✓				
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	✓				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	✓				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	✓				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	✓				
<p>1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period;</p> <p>2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);</p> <p>3. NA = Not applicable;</p> <p>4. NR = Not reviewed;</p> <p>5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p>							

Laboratory Review checklist: Supporting Data - Page 3 of 4

Laboratory Name: ALS Environmental			LRC Date: 12/16/2022				
Project Name: Houston Land Bank			Laboratory Job Number: P2205530				
Reviewer Name: Denise Posada			Prep Batch Number(s): MS13121522				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	✓				
		Were percent RSDs or correlation coefficient criteria met?	✓				
		Was the number of standards recommended in the method used for all analytes?	✓				
		Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
		Are ICAL data available for all instruments used?	✓				
		Has the initial calibration curve been verified using an appropriate second source standard?	✓				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	✓				
		Were percent differences for each analyte within the method-required QC limits?		✓			
		Was the ICAL curve verified for each analyte?	✓				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	✓				
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	✓				
		Were ion abundance data within the method-required QC limits?	✓				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	✓				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
		Were data associated with manual integrations flagged on the raw data?	✓				
S6	O	Dual column confirmation			✓		
		Did dual column confirmation results meet the method-required QC?					
S7	O	Tentatively identified compounds (TICs)			✓		
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?					
S8	I	Interference Check Sample (ICS) results			✓		
		Were percent recoveries within method QC limits?					
S9	I	Serial dilutions, post digestion spikes, and method of standard additions			✓		
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?					
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	✓				
		Is the MDL either adjusted or supported by the analysis of DCSs?	✓				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				

Laboratory Name: ALS Environmental			LRC Date: 12/16/2022				
Project Name: Houston Land Bank			Laboratory Job Number: P2205530				
Reviewer Name: Denise Posada			Prep Batch Number(s): MS13121522				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	✓				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	✓				
		Is documentation of the analyst's competency up-to-date and on file?	✓				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	✓				
<ol style="list-style-type: none"> Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); NA = Not applicable; NR = Not reviewed; ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked). 							

Laboratory Review Checklist: Exception Reports - Page 4 of 4

Laboratory Name: ALS Environmental	LRC Date: 12/16/22
Project Name: Houston Land Bank	Laboratory Job Number: P2205530
Reviewer Name: Denise Posada	Prep Batch Number(s): MS13121522
ER #¹	DESCRIPTION
R10	The analyte Vinyl Acetate could not be reported for this data set, due to a vendor anomaly found in the new standard being used. Once the issue has been resolved subsequent reports will include the compound in question.
S2	The minimum criterion for Naphthalene was not met in the Continuing Calibration Verification (CCV) analyzed on December 15, 2022. In accordance with ALS Environmental standard operating procedures, a Method Reporting Limit (MRL) check standard containing the analyte of concern was analyzed each day of analysis. The MRL check standard verified that instrument sensitivity was adequate to detect the analyte at the MRL on the day of analysis. Because the sensitivity was shown to be adequate to detect the compound in question and the compound was not detected in the field samples, the data quality has not been significantly affected. This procedure is a quantitative confirmation of non-detect results at or below the MRL. No further corrective action was necessary.
<ol style="list-style-type: none"> 1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked). 	

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Tetra Tech, Incorporated
Project ID: Houston Land Bank / 212C-HN-02098

Service Request: P2205530

Date Received: 12/8/2022
Time Received: 10:00

TO-15 Modified - VOC Cans 62

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	
SV-05	P2205530-001	Air	12/6/2022	09:45	1SS00869	0.09	5.66	X
SV-04	P2205530-002	Air	12/6/2022	11:15	1SC01128	-0.07	7.01	X



Page ____ of ____

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Client: Tetra Tech, Incorporated	Work order: P2205530
Project: Houston Land Bank / 212C-HN-02098	
Sample(s) received on: 12/8/22	Date opened: 12/8/22 by: ADAVID

		Yes	No	N/A
1	Were sample containers properly marked with client sample ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Did sample containers arrive in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Were chain-of-custody papers used and filled out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Did sample container labels and/or tags agree with custody papers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Was sample volume received adequate for analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Are samples within specified holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Was proper temperature (thermal preservation) of cooler at receipt adhered to?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8	Were custody seals on outside of cooler/Box/Container?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Location of seal(s) _____ Sealing Lid?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were signature and date included?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9	Do containers have appropriate preservation , according to method/SOP or Client specified information?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Is there a client indication that the submitted samples are pH preserved?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were VOA vials checked for presence/absence of air bubbles?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10	Tubes: Are the tubes capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11	Badges: Are the badges properly capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Are dual bed badges separated and individually capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

[illegible]

Explain any discrepancies: (include lab sample ID numbers):

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Tetra Tech, Incorporated
Client Sample ID: SV-05
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205530
 ALS Sample ID: P2205530-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 1.0 L Silonite Summa Canister
Test Notes:
Container ID: 1SS00869

Date Collected: 12/6/22
Date Received: 12/8/22
Date Analyzed: 12/15/22
Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): 0.09 Final Pressure (psig): 5.66

Canister Dilution Factor: 1.38

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	75	1.8	44	1.0	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	1.8	0.51	0.37	
74-87-3	Chloromethane	ND	1.8	ND	0.85	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.9	ND	0.27	
75-01-4	Vinyl Chloride	ND	1.8	ND	0.70	
106-99-0	1,3-Butadiene	4.1	1.8	1.8	0.81	
74-83-9	Bromomethane	ND	1.8	ND	0.45	
75-00-3	Chloroethane	ND	1.8	ND	0.67	
67-64-1	Acetone	64	18	27	7.6	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	1.8	ND	0.32	
67-63-0	2-Propanol (Isopropyl Alcohol)	4.3	3.5	1.8	1.4	
75-35-4	1,1-Dichloroethene	ND	1.9	ND	0.47	
75-09-2	Methylene Chloride	ND	1.8	ND	0.52	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	1.9	ND	0.24	
75-15-0	Carbon Disulfide	25	3.8	8.1	1.2	
156-60-5	trans-1,2-Dichloroethene	ND	1.8	ND	0.46	
75-34-3	1,1-Dichloroethane	ND	1.8	ND	0.45	
1634-04-4	Methyl tert-Butyl Ether	ND	1.8	ND	0.51	
78-93-3	2-Butanone (MEK)	9.6	3.5	3.3	1.2	
156-59-2	cis-1,2-Dichloroethene	ND	1.8	ND	0.45	
141-78-6	Ethyl Acetate	ND	7.2	ND	2.0	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Tetra Tech, Incorporated
Client Sample ID: SV-05
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205530
 ALS Sample ID: P2205530-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 1.0 L Silonite Summa Canister
Test Notes:
Container ID: 1SS00869

Date Collected: 12/6/22
Date Received: 12/8/22
Date Analyzed: 12/15/22
Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): 0.09 **Final Pressure (psig):** 5.66

Canister Dilution Factor: 1.38

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
110-54-3	n-Hexane	140	1.8	41	0.52	
67-66-3	Chloroform	ND	1.9	ND	0.38	
109-99-9	Tetrahydrofuran (THF)	ND	3.5	ND	1.2	
107-06-2	1,2-Dichloroethane	ND	1.8	ND	0.45	
71-55-6	1,1,1-Trichloroethane	ND	1.8	ND	0.33	
71-43-2	Benzene	4.5	1.7	1.4	0.54	
56-23-5	Carbon Tetrachloride	ND	1.7	ND	0.27	
110-82-7	Cyclohexane	ND	3.8	ND	1.1	
78-87-5	1,2-Dichloropropane	ND	1.7	ND	0.37	
75-27-4	Bromodichloromethane	ND	1.8	ND	0.27	
79-01-6	Trichloroethene	ND	1.8	ND	0.33	
123-91-1	1,4-Dioxane	ND	1.8	ND	0.50	
142-82-5	n-Heptane	70	1.8	17	0.45	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	ND	0.38	
108-10-1	4-Methyl-2-pentanone	ND	3.8	ND	0.93	
10061-02-6	trans-1,3-Dichloropropene	ND	1.8	ND	0.39	
79-00-5	1,1,2-Trichloroethane	ND	1.8	ND	0.33	
108-88-3	Toluene	4.6	1.8	1.2	0.48	
591-78-6	2-Hexanone	ND	3.8	ND	0.93	
124-48-1	Dibromochloromethane	ND	1.8	ND	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Tetra Tech, Incorporated
Client Sample ID: SV-05
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205530
 ALS Sample ID: P2205530-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 1.0 L Silonite Summa Canister
Test Notes:
Container ID: 1SS00869

Date Collected: 12/6/22
Date Received: 12/8/22
Date Analyzed: 12/15/22
Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): 0.09 **Final Pressure (psig):** 5.66

Canister Dilution Factor: 1.38

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
106-93-4	1,2-Dibromoethane	ND	1.8	ND	0.23	
127-18-4	Tetrachloroethene	ND	1.8	ND	0.26	
108-90-7	Chlorobenzene	ND	1.8	ND	0.39	
100-41-4	Ethylbenzene	ND	1.8	ND	0.41	
179601-23-1	m,p-Xylenes	ND	3.8	ND	0.87	
75-25-2	Bromoform	ND	1.8	ND	0.17	
100-42-5	Styrene	ND	1.7	ND	0.41	
95-47-6	o-Xylene	ND	1.8	ND	0.41	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.8	ND	0.26	
98-82-8	Cumene	ND	1.8	ND	0.37	
622-96-8	4-Ethyltoluene	ND	1.8	ND	0.37	
108-67-8	1,3,5-Trimethylbenzene	ND	1.8	ND	0.37	
95-63-6	1,2,4-Trimethylbenzene	ND	1.8	ND	0.37	
100-44-7	Benzyl Chloride	ND	3.8	ND	0.73	
541-73-1	1,3-Dichlorobenzene	ND	1.8	ND	0.30	
106-46-7	1,4-Dichlorobenzene	ND	1.8	ND	0.30	
95-50-1	1,2-Dichlorobenzene	ND	1.8	ND	0.30	
120-82-1	1,2,4-Trichlorobenzene	ND	3.8	ND	0.51	
91-20-3	Naphthalene	ND	1.8	ND	0.34	V
87-68-3	Hexachlorobutadiene	ND	1.8	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Tetra Tech, Incorporated
Client Sample ID: SV-04
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205530
 ALS Sample ID: P2205530-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 1.0 L Summa Canister
Test Notes:
Container ID: 1SC01128

Date Collected: 12/6/22
Date Received: 12/8/22
Date Analyzed: 12/15/22
Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.07 **Final Pressure (psig):** 7.01

Canister Dilution Factor: 1.48

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	60	1.9	35	1.1	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	2.0	0.51	0.40	
74-87-3	Chloromethane	ND	1.9	ND	0.91	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.0	ND	0.29	
75-01-4	Vinyl Chloride	ND	1.9	ND	0.75	
106-99-0	1,3-Butadiene	ND	1.9	ND	0.87	
74-83-9	Bromomethane	ND	1.9	ND	0.49	
75-00-3	Chloroethane	ND	1.9	ND	0.72	
67-64-1	Acetone	110	19	45	8.1	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	1.9	ND	0.34	
67-63-0	2-Propanol (Isopropyl Alcohol)	5.5	3.7	2.3	1.5	
75-35-4	1,1-Dichloroethene	ND	2.0	ND	0.50	
75-09-2	Methylene Chloride	ND	1.9	ND	0.55	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	2.0	ND	0.26	
75-15-0	Carbon Disulfide	8.1	4.1	2.6	1.3	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	ND	0.49	
75-34-3	1,1-Dichloroethane	ND	2.0	ND	0.48	
1634-04-4	Methyl tert-Butyl Ether	ND	2.0	ND	0.54	
78-93-3	2-Butanone (MEK)	11	3.7	3.6	1.3	
156-59-2	cis-1,2-Dichloroethene	ND	1.9	ND	0.49	
141-78-6	Ethyl Acetate	ND	7.8	ND	2.2	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Tetra Tech, Incorporated
Client Sample ID: SV-04
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205530
 ALS Sample ID: P2205530-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 1.0 L Summa Canister
Test Notes:
Container ID: 1SC01128

Date Collected: 12/6/22
Date Received: 12/8/22
Date Analyzed: 12/15/22
Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.07 **Final Pressure (psig):** 7.01

Canister Dilution Factor: 1.48

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
110-54-3	n-Hexane	2.2	2.0	0.61	0.56	
67-66-3	Chloroform	ND	2.0	ND	0.41	
109-99-9	Tetrahydrofuran (THF)	ND	3.7	ND	1.3	
107-06-2	1,2-Dichloroethane	ND	2.0	ND	0.48	
71-55-6	1,1,1-Trichloroethane	ND	1.9	ND	0.35	
71-43-2	Benzene	2.3	1.9	0.71	0.58	
56-23-5	Carbon Tetrachloride	ND	1.9	ND	0.29	
110-82-7	Cyclohexane	ND	4.1	ND	1.2	
78-87-5	1,2-Dichloropropane	ND	1.9	ND	0.40	
75-27-4	Bromodichloromethane	ND	2.0	ND	0.29	
79-01-6	Trichloroethene	ND	1.9	ND	0.36	
123-91-1	1,4-Dioxane	ND	1.9	ND	0.53	
142-82-5	n-Heptane	ND	2.0	ND	0.48	
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	ND	0.41	
108-10-1	4-Methyl-2-pentanone	ND	4.1	ND	0.99	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	ND	0.42	
79-00-5	1,1,2-Trichloroethane	ND	1.9	ND	0.35	
108-88-3	Toluene	4.5	1.9	1.2	0.51	
591-78-6	2-Hexanone	ND	4.1	ND	0.99	
124-48-1	Dibromochloromethane	ND	2.0	ND	0.23	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Tetra Tech, Incorporated
Client Sample ID: SV-04
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205530
 ALS Sample ID: P2205530-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 1.0 L Summa Canister
Test Notes:
Container ID: 1SC01128

Date Collected: 12/6/22
Date Received: 12/8/22
Date Analyzed: 12/15/22
Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.07 **Final Pressure (psig):** 7.01

Canister Dilution Factor: 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
106-93-4	1,2-Dibromoethane	ND	1.9	ND	0.25	
127-18-4	Tetrachloroethene	ND	1.9	ND	0.28	
108-90-7	Chlorobenzene	ND	1.9	ND	0.42	
100-41-4	Ethylbenzene	ND	1.9	ND	0.44	
179601-23-1	m,p-Xylenes	ND	4.1	ND	0.94	
75-25-2	Bromoform	ND	1.9	ND	0.19	
100-42-5	Styrene	ND	1.9	ND	0.43	
95-47-6	o-Xylene	ND	1.9	ND	0.44	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.9	ND	0.28	
98-82-8	Cumene	ND	1.9	ND	0.39	
622-96-8	4-Ethyltoluene	ND	2.0	ND	0.40	
108-67-8	1,3,5-Trimethylbenzene	ND	1.9	ND	0.39	
95-63-6	1,2,4-Trimethylbenzene	ND	1.9	ND	0.39	
100-44-7	Benzyl Chloride	ND	4.1	ND	0.79	
541-73-1	1,3-Dichlorobenzene	ND	1.9	ND	0.32	
106-46-7	1,4-Dichlorobenzene	ND	1.9	ND	0.32	
95-50-1	1,2-Dichlorobenzene	ND	2.0	ND	0.33	
120-82-1	1,2,4-Trichlorobenzene	ND	4.1	ND	0.55	
91-20-3	Naphthalene	ND	1.9	ND	0.37	V
87-68-3	Hexachlorobutadiene	ND	1.9	ND	0.18	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Tetra Tech, Incorporated
Client Sample ID: Method Blank
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205530
 ALS Sample ID: P221215-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 1.0 L Silonite Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 12/15/22
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.52	ND	0.30	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	ND	0.11	
74-87-3	Chloromethane	ND	0.51	ND	0.25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.54	ND	0.077	
75-01-4	Vinyl Chloride	ND	0.52	ND	0.20	
106-99-0	1,3-Butadiene	ND	0.52	ND	0.24	
74-83-9	Bromomethane	ND	0.51	ND	0.13	
75-00-3	Chloroethane	ND	0.51	ND	0.19	
67-64-1	Acetone	ND	5.2	ND	2.2	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	ND	0.093	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	ND	0.41	
75-35-4	1,1-Dichloroethene	ND	0.54	ND	0.14	
75-09-2	Methylene Chloride	ND	0.52	ND	0.15	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	ND	0.070	
75-15-0	Carbon Disulfide	ND	1.1	ND	0.35	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	ND	0.13	
75-34-3	1,1-Dichloroethane	ND	0.53	ND	0.13	
1634-04-4	Methyl tert-Butyl Ether	ND	0.53	ND	0.15	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	0.52	ND	0.13	
141-78-6	Ethyl Acetate	ND	2.1	ND	0.58	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Tetra Tech, Incorporated
Client Sample ID: Method Blank
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205530
 ALS Sample ID: P221215-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 1.0 L Silonite Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 12/15/22
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
110-54-3	n-Hexane	ND	0.53	ND	0.15	
67-66-3	Chloroform	ND	0.54	ND	0.11	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	ND	0.34	
107-06-2	1,2-Dichloroethane	ND	0.53	ND	0.13	
71-55-6	1,1,1-Trichloroethane	ND	0.52	ND	0.095	
71-43-2	Benzene	ND	0.50	ND	0.16	
56-23-5	Carbon Tetrachloride	ND	0.50	ND	0.080	
110-82-7	Cyclohexane	ND	1.1	ND	0.32	
78-87-5	1,2-Dichloropropane	ND	0.50	ND	0.11	
75-27-4	Bromodichloromethane	ND	0.53	ND	0.079	
79-01-6	Trichloroethene	ND	0.52	ND	0.097	
123-91-1	1,4-Dioxane	ND	0.52	ND	0.14	
142-82-5	n-Heptane	ND	0.53	ND	0.13	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	1.1	ND	0.27	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.52	ND	0.095	
108-88-3	Toluene	ND	0.52	ND	0.14	
591-78-6	2-Hexanone	ND	1.1	ND	0.27	
124-48-1	Dibromochloromethane	ND	0.53	ND	0.062	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Tetra Tech, Incorporated
Client Sample ID: Method Blank
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205530
 ALS Sample ID: P221215-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 1.0 L Silonite Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 12/15/22
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-93-4	1,2-Dibromoethane	ND	0.52	ND	0.068	
127-18-4	Tetrachloroethene	ND	0.52	ND	0.077	
108-90-7	Chlorobenzene	ND	0.52	ND	0.11	
100-41-4	Ethylbenzene	ND	0.52	ND	0.12	
179601-23-1	m,p-Xylenes	ND	1.1	ND	0.25	
75-25-2	Bromoform	ND	0.52	ND	0.050	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.52	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	ND	0.076	
98-82-8	Cumene	ND	0.52	ND	0.11	
622-96-8	4-Ethyltoluene	ND	0.53	ND	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	ND	0.11	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	ND	0.11	
100-44-7	Benzyl Chloride	ND	1.1	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	0.52	ND	0.087	
106-46-7	1,4-Dichlorobenzene	ND	0.52	ND	0.087	
95-50-1	1,2-Dichlorobenzene	ND	0.53	ND	0.088	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	ND	0.15	
91-20-3	Naphthalene	ND	0.52	ND	0.099	V
87-68-3	Hexachlorobutadiene	ND	0.52	ND	0.049	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Tetra Tech, Incorporated
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205530

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 1.0 L Silonite Summa Canister(s) / 1.0 L Summa Cansiter(s)
Test Notes:

Date(s) Collected: 12/6/22
Date(s) Received: 12/8/22
Date(s) Analyzed: 12/15/22

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P221215-MB	110	95	85	70-130	
Lab Control Sample	P221215-LCS	112	91	94	70-130	
Duplicate Lab Control Sample	P221215-DLCS	113	89	90	70-130	
SV-05	P2205530-001	110	88	90	70-130	
SV-04	P2205530-002	110	88	93	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Tetra Tech, Incorporated
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205530
 ALS Sample ID: P221215-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 1.0 L Silonite Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 12/15/22
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
115-07-1	Propene	212	197	204	93	96	56-128	3	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	212	215	223	101	105	71-112	4	25	
74-87-3	Chloromethane	206	240	248	117	120	53-126	3	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	206	210	216	102	105	62-121	3	25	
75-01-4	Vinyl Chloride	204	224	225	110	110	63-123	0	25	
106-99-0	1,3-Butadiene	212	244	250	115	118	63-135	3	25	
74-83-9	Bromomethane	206	203	208	99	101	71-112	2	25	
75-00-3	Chloroethane	208	221	226	106	109	66-117	3	25	
67-64-1	Acetone	1,060	1030	1070	97	101	60-117	4	25	
75-69-4	Trichlorofluoromethane (CFC 11)	210	204	214	97	102	71-114	5	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	412	443	462	108	112	61-124	4	25	
75-35-4	1,1-Dichloroethene	216	210	222	97	103	74-114	6	25	
75-09-2	Methylene Chloride	212	202	210	95	99	75-112	4	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	199	201	92	93	73-114	1	25	
75-15-0	Carbon Disulfide	426	384	397	90	93	70-113	3	25	
156-60-5	trans-1,2-Dichloroethene	216	224	229	104	106	76-119	2	25	
75-34-3	1,1-Dichloroethane	216	219	224	101	104	70-114	3	25	
1634-04-4	Methyl tert-Butyl Ether	214	196	202	92	94	72-118	2	25	
78-93-3	2-Butanone (MEK)	418	404	407	97	97	74-121	0	25	
156-59-2	cis-1,2-Dichloroethene	214	209	214	98	100	73-117	2	25	
141-78-6	Ethyl Acetate	856	607	630	71	74	59-161	4	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Tetra Tech, Incorporated
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205530
 ALS Sample ID: P221215-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 1.0 L Silonite Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 12/15/22
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
110-54-3	n-Hexane	212	205	212	97	100	55-130	3	25	
67-66-3	Chloroform	212	211	217	100	102	71-114	2	25	
109-99-9	Tetrahydrofuran (THF)	412	397	426	96	103	73-114	7	25	
107-06-2	1,2-Dichloroethane	216	239	239	111	111	71-119	0	25	
71-55-6	1,1,1-Trichloroethane	210	215	224	102	107	73-119	5	25	
71-43-2	Benzene	216	208	213	96	99	72-113	3	25	
56-23-5	Carbon Tetrachloride	206	204	208	99	101	67-123	2	25	
110-82-7	Cyclohexane	422	406	406	96	96	70-119	0	25	
78-87-5	1,2-Dichloropropane	212	240	242	113	114	70-118	0.9	25	
75-27-4	Bromodichloromethane	216	218	224	101	104	74-119	3	25	
79-01-6	Trichloroethene	212	193	198	91	93	74-115	2	25	
123-91-1	1,4-Dioxane	212	230	235	108	111	77-124	3	25	
142-82-5	n-Heptane	212	208	215	98	101	70-119	3	25	
10061-01-5	cis-1,3-Dichloropropene	216	213	218	99	101	81-126	2	25	
108-10-1	4-Methyl-2-pentanone	432	461	459	107	106	73-129	0.9	25	
10061-02-6	trans-1,3-Dichloropropene	206	211	211	102	102	80-127	0	25	
79-00-5	1,1,2-Trichloroethane	212	199	201	94	95	78-117	1	25	
108-88-3	Toluene	212	185	184	87	87	70-118	0	25	
591-78-6	2-Hexanone	426	428	425	100	100	74-132	0	25	
124-48-1	Dibromochloromethane	216	190	188	88	87	69-137	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Tetra Tech, Incorporated
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Houston Land Bank / 212C-HN-02098

ALS Project ID: P2205530
 ALS Sample ID: P221215-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 1.0 L Silonite Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 12/15/22
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
106-93-4	1,2-Dibromoethane	208	174	171	84	82	76-128	2	25	
127-18-4	Tetrachloroethene	212	176	175	83	83	63-130	0	25	
108-90-7	Chlorobenzene	212	180	177	85	83	70-118	2	25	
100-41-4	Ethylbenzene	210	192	189	91	90	71-123	1	25	
179601-23-1	m,p-Xylenes	420	390	385	93	92	67-127	1	25	
75-25-2	Bromoform	214	188	184	88	86	65-149	2	25	
100-42-5	Styrene	212	209	207	99	98	76-132	1	25	
95-47-6	o-Xylene	212	209	207	99	98	69-124	1	25	
79-34-5	1,1,2,2-Tetrachloroethane	212	189	189	89	89	69-128	0	25	
98-82-8	Cumene	212	200	198	94	93	69-125	1	25	
622-96-8	4-Ethyltoluene	216	222	219	103	101	69-127	2	25	
108-67-8	1,3,5-Trimethylbenzene	210	241	234	115	111	66-129	4	25	
95-63-6	1,2,4-Trimethylbenzene	208	250	249	120	120	63-142	0	25	
100-44-7	Benzyl Chloride	420	429	423	102	101	73-145	1	25	
541-73-1	1,3-Dichlorobenzene	210	207	203	99	97	67-136	2	25	
106-46-7	1,4-Dichlorobenzene	212	209	205	99	97	63-134	2	25	
95-50-1	1,2-Dichlorobenzene	212	209	205	99	97	64-139	2	25	
120-82-1	1,2,4-Trichlorobenzene	412	408	402	99	98	62-154	1	25	
91-20-3	Naphthalene	216	200	201	93	93	62-156	0	25	
87-68-3	Hexachlorobutadiene	210	192	190	91	90	55-142	1	25	

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