



September 14, 2023

Ms. Lisa Dunning  
Task Order Contracting Officer's Representative  
U.S. Environmental Protection Agency, Region 7  
11201 Renner Boulevard  
Lenexa, Kansas 66219

**Subject: Contract No. 68HERH19D0018; Task Order No. 68E0719F0190  
Boys and Girls Home, 2101 Court Street, Sioux City, Woodbury County, Iowa  
Phase II Environmental Site Assessment**

Dear Ms. Dunning:

Toeroek Associates, Inc. (Toeroek) and our teaming subcontractor, Tetra Tech, Inc. (Tetra Tech), (hereafter "Toeroek Team") are pleased to present the Phase II Environmental Site Assessment (ESA) report regarding the Boys and Girls Home Site at 2101 Court Street in Sioux City, Woodbury County, Iowa. This deliverable has been reviewed internally as part of Tetra Tech's quality assurance program, as well as Toeroek's quality assurance program, and is consistent with Toeroek's Quality Management Plan for the Resource Conservation and Recovery Act (RCRA) Enforcement and Permitting Assistance (REPA) contract. Documentation of this review is retained in the Toeroek Team's project files.

If you have any questions or comments, please contact Greg Hanna at 720-898-4102 or Kaitlyn Mitchell at 816-412-1742.

Sincerely,

Greg Hanna  
Toeroek Team Program Manager

Kaitlyn Mitchell  
Toeroek Team Project Manager

Enclosure: Phase II ESA

cc: Leeanna Balsley, EPA Region 7  
Heather Wood, Tetra Tech  
Toeroek Team Project Files

300 Union Boulevard., Suite 520  
Lakewood, Colorado 80228  
Telephone: 303-420-7735  
Fax: 303-420-7658

**TARGETED BROWNFIELDS ASSESSMENT  
PHASE II ENVIRONMENTAL SITE ASSESSMENT**

**BOYS AND GIRLS HOME  
2101 COURT STREET  
SIOUX CITY, WOODBURY COUNTY, IOWA**



**Prepared for**

**U.S. ENVIRONMENTAL PROTECTION AGENCY  
REGION 7**

Task Order	:	68E0719F0190
Subtask	:	17.03
EPA Region	:	7
Date Prepared	:	September 14, 2023
Contract No.	:	68HERH19D0018
Prepared by	:	Toeroek Associates, Inc. and Tetra Tech, Inc.
Project Manager	:	Kaitlyn Mitchell
Telephone	:	816-412-1742
EPA TOCOR	:	Lisa Dunning
Telephone	:	913-551-7964

## CONTENTS

<u>Section</u>	<u>Page</u>
1.0 INTRODUCTION .....	1
1.1 PURPOSE.....	1
1.2 SPECIAL TERMS AND CONDITIONS .....	1
2.0 BACKGROUND AND SITE HISTORY .....	2
2.1 SITE DESCRIPTION AND FEATURES .....	2
2.2 PHYSICAL SETTING .....	2
2.2.1 Geologic Setting .....	2
2.2.2 Hydrogeology .....	3
2.2.3 Hydrology.....	4
2.2.4 Meteorology .....	4
2.3 SITE HISTORY AND LAND USE .....	4
2.4 ADJACENT PROPERTY USE.....	4
2.5 SUMMARY OF PREVIOUS ASSESSMENTS .....	4
3.0 PHASE II ENVIRONMENTAL SITE ASSESSMENT ACTIVITIES .....	6
3.1 SCOPE OF THE ASSESSMENT.....	6
3.1.1 Sampling Plan.....	6
3.1.2 Chemical Testing Plan.....	7
3.1.3 Deviations from the QAPP .....	7
3.2 FIELD EXPLORATION AND METHODS .....	7
3.2.1 Soil Sampling .....	8
3.2.2 Soil-gas Sampling.....	9
3.2.3 Quality Control Sampling.....	10
4.0 EVALUATION AND PRESENTATION OF RESULTS.....	12
4.1 SOIL SAMPLES.....	12
4.2 SOIL-GAS SAMPLES .....	19
4.3 QUALITY CONTROL SAMPLES .....	21
5.0 DISCUSSION OF SIGNIFICANT FINDINGS AND CONCLUSIONS .....	22
5.1 SURFACE AND SUBSURFACE SOIL .....	22
5.2 SOIL GAS.....	22
5.3 EVALUATION OF PREVIOUSLY IDENTIFIED RECS .....	22
5.4 CONCEPTUAL SITE MODEL .....	23
5.4.1 Chemical Release Scenario and Spatial Distribution .....	23
5.4.2 Current and Future Land Use and Groundwater Use .....	23
5.4.3 Land and Groundwater Use Restrictions .....	23
5.4.4 Physical Conditions .....	23
5.4.5 Remedial Activities at the Site .....	23

## CONTENTS (Continued)

<b><u>Section</u></b>	<b><u>Page</u></b>
5.4.6 Exposure Model.....	24
5.5 AFFECTED MEDIA .....	25
6.0 REFERENCES .....	26

## TABLES

<b><u>Table</u></b>	<b><u>Page</u></b>
TABLE 1 SOIL SAMPLE SUMMARY .....	9
TABLE 2 SOIL-GAS SAMPLE SUMMARY .....	10
TABLE 3 DETECTED VOC RESULTS FROM SOIL SAMPLES .....	13
TABLE 4 DETECTED SVOC RESULTS FROM SOIL SAMPLES .....	15
TABLE 5 DETECTED TEH RESULTS FROM SOIL SAMPLES .....	16
TABLE 6 DETECTED METALS RESULTS FROM SOIL SAMPLES .....	18
TABLE 7 DETECTED VOC RESULTS FROM SOIL-GAS SAMPLES .....	20

## APPENDICES

### **Appendix**

APPENDIX A: FIGURES

APPENDIX B: PHOTOGRAPHIC DOCUMENTATION

APPENDIX C: LOGBOOK AND SOIL BORING LOGS

APPENDIX D: ANALYTICAL DATA PACKAGES AND DATA VALIDATION REPORTS

## FIGURES

### **Figure**

FIGURE 1 SITE LOCATION MAP

FIGURE 2 SITE LAYOUT MAP

FIGURE 3 SAMPLE LOCATION MAP



## 1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA) tasked Toeroek Associates, Inc. (Toeroek) and its teaming subcontractor, Tetra Tech, Inc. (Tetra Tech), (hereafter “Toeroek Team”) with providing technical support to the EPA Region 7 Brownfields Program under Contract Number (No.) 68HERH19D0018, Task Order (TO) No. 68E0719F0190. EPA Region 7 requested the Toeroek Team conduct a Phase II Environmental Site Assessment (ESA) as part of a Targeted Brownfields Assessment (TBA) of the Boys and Girls Home Site at 2101 Court Street in Sioux City, Woodbury County, Iowa (the subject property) ([Appendix A, Figure 1](#)). Boys and Girls Home Family Services currently owns the Site.

The Toeroek Team did not conduct a Phase I ESA of the Site. The Toeroek Team developed this Phase II ESA based on results of the 2022 Phase I ESA prepared for 2101 Court Street by HR Green, Inc. (HRG) (HRG 2022). According to the Brownfields Assessment Application (EPA 2022), the City of Sioux City has shown an interest in redeveloping the Site (currently used by a non-profit social services provider) for mixed density housing, contingent on findings from this Phase II ESA.

The scope of this Phase II ESA included collection of surface soil, subsurface soil, groundwater, and soil-gas samples in the area around the buildings to confirm or eliminate recognized environmental conditions (RECs) identified during the Phase I ESA (HRG 2022). Groundwater was not collected, as described in [Section 3.0](#).

This Phase II ESA report is consistent with ASTM International (ASTM) Standard E1903-19 for Phase II ESAs, and otherwise complies with EPA’s “All Appropriate Inquiries” Rule (Title 40 *Code of Federal Regulations* [40 CFR] Part 312).

### 1.1 PURPOSE

Purposes of this Phase II ESA were to: (1) confirm or eliminate RECs identified during the Phase I ESA; (2) acquire information regarding the nature of contamination (if present) and risks posed by that contamination that would support informed business decisions about the Site; and (3) where applicable, satisfy the innocent purchaser defense under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

### 1.2 SPECIAL TERMS AND CONDITIONS

No special terms or conditions were identified during this Phase II ESA.

## **2.0 BACKGROUND AND SITE HISTORY**

This section specifies the location of the Site and its features, conveys the physical setting, recounts the history of the Site, discusses land uses at the Site and adjacent properties, and describes the results of previous investigations.

### **2.1 SITE DESCRIPTION AND FEATURES**

A non-profit social services provider currently uses the Site, which is within a mixed-use commercial and residential area, with the nearest residence approximately 115 feet to the east. The Site includes:

- One approximately 298,100-square-foot, 5- to 7-story historical hospital building;
- One approximately 3,786-square-foot former power plant building;
- One 2,676-square-foot maintenance shop building;
- One 8,940-square-foot old library building;
- One 1,990-square-foot old garage building;
- One 200-square-foot shed; and
- One 29,300-square-foot chapel building.

The Site is depicted on the Sioux City North Iowa, U.S. Geological Survey (USGS) 7.5-minute topographic series map (USGS 1993) ([Appendix A, Figure 1](#)). Coordinates at the approximate center of the Site are 42.5134993 degrees north latitude and 96.3971124 degrees west longitude. The Site encompasses approximately 14.39 acres on one parcel of land. [Figure 2](#) in [Appendix A](#) illustrates the Site boundaries.

### **2.2 PHYSICAL SETTING**

The Site lies within the city limits of Sioux City, Iowa. It is bounded north by 24<sup>th</sup> Street, with residential properties beyond; east by Court Street, with commercial and residential properties beyond; south by 21<sup>st</sup> Street, with commercial and residential properties beyond; and west by Virginia Street, with residential properties beyond.

#### **2.2.1 Geologic Setting**

Soil at the Site has been classified according to the U.S. Department of Agriculture (USDA) Soil Conservation Services Web Soil Survey, reviewed in July 2023. The soil consists of Urban land,

Ida-Urban land complex with 14 to 20 percent slopes; Monona-Urban land complex with 5 to 9 percent slopes; and Napier-Urban land complex with 5 to 9 percent slopes. These soil types consist of silt loam that formed on loess and are well drained (USDA 2023). The Site generally slopes to the southwest; however, topography surrounding the Site is hilly, and generally slopes to the east toward the Floyd River.

### **2.2.2 Hydrogeology**

The Site lies over Cretaceous Dakota Formation bedrock, consisting of the upper Woodbury Member, dominated by mudstones, and the lower Nishnabotna Member, dominated by sandstones (Witzke 1997). Sandstone bedrock was encountered at depth of 350 feet below ground surface (bgs) at a 400-foot-deep irrigation well at the Site (Iowa Geological Survey [IGS] 2023). The Dakota Aquifer, the Mississippian Aquifer, the Silurian-Devonian Aquifer, and the Cambrian-Ordovician Aquifers are all present in Woodbury County; however, the deeper aquifers have poor water quality or limited use. Iowa's Source Water Assessment and Protection website and the City of Sioux City's drinking water consumer confidence report indicate that the City of Sioux City has 10 active wells producing from the Alluvial/Dakota Aquifer near the Missouri River. The City of Sioux City's wells closest to the Site are at the Riverfront Well Field, approximately 2 miles southwest of the Site. The Site is not within the groundwater source protection areas for these wells (Iowa Department of Natural Resources [IDNR] 2023a; Sioux City, Iowa 2022).

During the HRG Phase I ESA, Environmental Data Resources, Inc. (EDR) was unable to obtain data on groundwater flow and velocity. In the absence of site-specific data or other indicators, direction of groundwater flow may be inferred from the regional topographic gradient. Therefore, groundwater flow is inferred to the south toward the Missouri River, approximately 1.7 miles south-southwest of the Site.

Three wells are within 1,000 feet of the Site: the on-site irrigation well listed in the IGS GeoSam well database, one private well tracking system well, and one permitted private well (HRG 2022).

GeoSam lists the owner of the permitted irrigation well as "Boys & Girls Home" and identifies the well by well number 53482. Well number 53482 was constructed in 2000 and completed to 400 feet bgs (IGS 2023). The location of well number 53482 is shown on the GeoSam website map as within one of the Site structures; however, during Phase II fieldwork activities, the location of the irrigation well was determined to be near the basketball court on the Site ([Appendix A, Figure 3](#)). According to the Boys and Girls Home maintenance staff, this well is no longer in use.

### **2.2.3 Hydrology**

Most of the Site is flat; however, the southwestern portion slopes toward an ephemeral drainage. Surface water likely flows into the stormwater sewer system or south and southwest toward the Missouri River, approximately 1.7 miles southwest of the Site.

### **2.2.4 Meteorology**

Annual average rainfall in Sioux City, Iowa, is approximately 30 inches. Average summer temperature highs are around 82 degrees Fahrenheit (°F). Average winter lows are around 11°F (National Weather Service 2023).

## **2.3 SITE HISTORY AND LAND USE**

The HRG Phase I ESA report indicates construction of structures on the Site from as early as 1913 through 1957 (HRG 2022). HRG did not identify previous operations or occupants of the Site within the Phase I ESA report; however, St. Joseph's Mercy Hospital, as well as a nurses' home and school, are depicted on the Site in historical aerial photographs, city directories, and Sanborn maps (HRG 2022).

## **2.4 ADJACENT PROPERTY USE**

Properties surrounding the Site have been predominantly residential or commercial since the 1890s. Development of housing north of the Site began in approximately 1910, and commercial and residential development to the east began as early as 1924 (HRG 2022).

Currently, the Site is bounded north by 24<sup>th</sup> Street, with residential properties beyond; east by Court Street, with commercial and residential properties beyond; south by 21<sup>st</sup> Street, with commercial and residential properties beyond; and west by Virginia Street, with commercial and residential properties beyond.

## **2.5 SUMMARY OF PREVIOUS ASSESSMENTS**

In July 2022, HRG conducted a Phase I ESA of the Boys and Girls Home at 2101 Court Street in Sioux City, Iowa, on behalf of the City of Sioux City. The Phase I ESA identified several RECs associated with historical use of the Site, including the former power plant structure on the Site, heating oil underground storage tanks (USTs), and a mercury spill that occurred in 2009 (HRG 2022).

The Phase I ESA also identified two off-site historical RECs relating to historical uses of adjacent properties at 2118 and 2100 Court Street. 2118 Court Street is adjacent to and east of the Site. Sanborn maps depict an associated gasoline tank in the right-of-way (ROW) east of the subject property and west of the 2118 Court Street property in 1924 and 1949. 2100 Court Street is adjacent to and east of the Site, a Sanborn map dated 1924 depicts this parcel as hosting a garage with a gasoline tank in the Court Street ROW, while a 1949 Sanborn map depicts a gas station on the parcel with two gasoline tanks in the 21<sup>st</sup> Street ROW.

No other assessments are known to have occurred at the Site.

### 3.0 PHASE II ENVIRONMENTAL SITE ASSESSMENT ACTIVITIES

The following subsections describe the scope, field exploration, and methods implemented during this Phase II ESA. From June 27 through 29, 2023, Toeroek Team members Macy La Masney and Thomas Kaley conducted soil and soil-gas sampling. Photographs taken to document Phase II fieldwork are in [Appendix B](#). Phase II fieldwork activities, including boring logs and field notes, were documented in a site logbook; a copy is in [Appendix C](#).

#### 3.1 SCOPE OF THE ASSESSMENT

The Toeroek Team performed environmental sampling to determine if soils or soil gas at the Site are contaminated by current and/or historical activities. Sampling was consistent with the Quality Assurance Project Plan (QAPP) approved by EPA on April 13, 2023 (Toeroek Team 2023).

##### 3.1.1 Sampling Plan

The proposed sampling scheme for this project incorporated a combination of biased/judgmental sampling with definitive laboratory analysis, in accordance with procedures included in the *Guidance for Performing Site Inspections Under CERCLA* (Office of Solid Waste and Emergency Response [OSWER] Directive #9345.1-05, September 1992). All samples were submitted for analysis to an off-site laboratory subcontracted by the Toeroek Team. The objective of soil, groundwater, and soil-gas sampling was to characterize possible previous releases to the environment. [Figure 3](#) in [Appendix A](#) depicts the sampling locations at the Site. Sampling at the Site occurred as follows:

- Thirteen surface soil samples were collected, one at each of 12 direct-push technology (DPT) boring locations; the surface soil sample from soil boring (SB)-4 was collected as a duplicate pair. Each sample identification (ID) included the boring location (SB-1 through SB-12), followed by the sampling interval in parentheses; for example, the ID of a sample collected within 0 to 3 feet bgs at SB-2 would be SB-2 (0-3).
- Twelve subsurface soil samples were collected, one at each of 12 DPT boring locations (SB-1 through SB-12). Format of each sample ID was similar to that for a surface soil sample; for example, the ID of a sample collected within 32 to 35 feet bgs at SB-4 would be SB-4 (32-35).
- Twelve soil-gas samples were collected, one at each of 12 DPT boring locations (SG-1 through SG-12). At each boring location, one soil-gas sample was collected within a 6-inch interval at depth of approximately 6 feet bgs.
- The irrigation well on the Site was dry, and could not be sampled.

- Groundwater was not encountered above 35 feet in any DPT boring; therefore, no groundwater samples were collected.

### **3.1.2 Chemical Testing Plan**

Laboratory analyses for chemical parameters were selected based on possibly present contaminants associated with historical uses of the Site. Samples were submitted to ALS Analytical Services, LLC (ALS) of Holland, Michigan, to be analyzed for the following parameters: volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), total extractable hydrocarbons (TEH), and Target Analyte List (TAL) metals.

### **3.1.3 Deviations from the QAPP**

The following deviations from the QAPP occurred during Phase II fieldwork activities:

- Groundwater was not encountered above 35 feet in any DPT boring; therefore, no groundwater samples were collected.
- The irrigation well on-site was dry, and could not produce water. No samples were collected from the irrigation well.
- No water quality control (QC) samples were submitted due to lack of groundwater or irrigation well samples.
- Because of poor recovery, the surface soil sample from SB-8 was collected from an interval of 0 to 10 feet bgs rather than 0 to 3 feet bgs.
- Because of poor recovery, the subsurface sample from SB-10 was collected from a 10-foot interval (25 to 35 feet bgs) rather than a 2-foot interval.

## **3.2 FIELD EXPLORATION AND METHODS**

Phase II fieldwork activities at the Site occurred from June 27 through 29, 2023. Field staff shipped soil samples for VOCs, SVOCs, and TAL metals analyses to ALS in Holland, Michigan. Soil samples for TEH analysis went to Eurofins in Cedar Falls, Iowa. Field staff shipped soil-gas samples for VOCs analysis to ALS in Cincinnati, Ohio. The following sections summarize soil and soil-gas sample collections. Sampling locations are depicted on [Figure 3](#) in [Appendix A](#).

### 3.2.1 Soil Sampling

Twelve surface soil and 12 subsurface soil samples were collected during Phase II fieldwork activities to assess presence of contamination from historical activities at the Site. One surface soil sample (SB-4 [0-3]) was collected as a duplicate pair.

Sampling proceeded with a DPT rig. The Toeroek Team obtained soil cores using DPT sampler rods with disposable polyvinyl chloride (PVC) liners. The soil cores were screened with a hand-held photoionization detector (PID) for presence of elevated concentrations of organic vapors indicating likely presence of VOCs. Soil borings were to be advanced to maximum depth of 35 feet bgs, to groundwater, or to refusal, whichever occurred first. Surface soil samples were collected from the 0- to 3-foot bgs interval. Subsurface soil samples were collected at biased intervals based on presence of staining or odor or of elevated PID readings (obvious contamination). If no obvious contamination was noted within the subsurface interval, the sample was collected from the bottom 2-foot interval of the soil core, or just above groundwater (if encountered). After completion of sampling at each location, each piece of non-disposable sampling equipment that encountered the soil sample was decontaminated with a non-phosphate detergent and tap water wash, followed by a tap water rinse. The PVC liners were discarded with other investigation-derived waste (IDW), such as disposable gloves. Boring logs are in [Appendix A](#).

Each soil sample for VOCs analysis consisted of a grab sample, collected in accordance with EPA SW-846 Method 5035, and consisting of the following: two 40-milliliter (mL) vials, each preserved with sodium bisulfate and containing approximately 5 grams of soil; one 40-mL vial preserved with methanol and containing approximately 5 grams of soil; and one unpreserved 40-mL vial or other appropriate container packed with soil for determination of moisture content. Soil samples were analyzed for VOCs via EPA SW-846 Method 8260. Each soil sample for TEH analyses (via Method OA-2) consisted of a grab sample collected into one 4-ounce unpreserved jar. Remaining soil from each sample interval was homogenized and placed into 8-ounce jars for SVOCs analysis (via EPA SW-846 Method 8270) and TAL metals analysis (via EPA SW-846 Method 6020/7471). [Section 5.1](#) summarizes soil samples collected during this Phase II ESA.



**TABLE 1**  
**SOIL SAMPLE SUMMARY**  
**BOYS AND GIRLS HOME, SIOUX CITY, IOWA**

Sample Identification	Latitude (°N)	Longitude (°W)	Analyses Performed
SB-1 (0-3)	42.5145044	96.3978034	VOCs (EPA Method 8260); SVOCs (EPA Method 8270); TEH (Method OA-2); and TAL metals (EPA Methods 6020/7471).
SB-1 (32-35)			
SB-2 (0-3)	42.5144426	96.3964452	
SB-2 (32-35)			
SB-3 (0-3)	42.5138181	96.3970366	
SB-3 (32-35)			
SB-4 (0-3)	42.5132282	96.3974822	
SB-4 (0-3) DUP			
SB-4 (32-35)			
SB-5 (0-3)	42.5133127	96.3977763	
SB-5 (15-18)			
SB-6 (0-3)	42.5131776	96.3977759	
SB-6 (30-35)			
SB-7 (0-3)	42.5129519	96.3977059	
SB-7 (12-15)			
SB-8 (0-10)	42.5123271	96.3979573	
SB-8 (32-35)			
SB-9 (2-5)	42.5127493	96.3970970	
SB-9 (32-35)			
SB-10 (0-3)	42.5125021	96.3962481	
SB-10 (25-25)			
SB-11 (0-3)	42.5123447	96.3966001	
SB-11 (27-30)			
SB-12 (0-3)	42.5123108	96.3968455	
SB-12 (32-35)			

Notes:

DUP Field duplicate  
EPA U.S. Environmental Protection Agency  
N North  
SB Soil Boring  
SVOC Semivolatile organic compound  
TAL Target Analyte List  
TEH Total extractable hydrocarbons  
VOC Volatile organic compound  
W West

### 3.2.2 Soil-gas Sampling

The Toeroek Team collected 12 soil-gas samples during Phase II fieldwork activities, co-located with 12 soil samples (SB-1 through SB-12), to investigate potential vapor contamination from historical activities at the Site.

At each sampling location, steel rods were advanced by the DPT rig to approximately 6 feet bgs and then retracted approximately 6 inches to create a void space to allow for collection of soil gas. The soil-gas

samples were collected through the steel rods with disposable polyethylene tubing connected to the bottom of the rod string, and to an evacuated vacuum canister on the ground surface. Air in the tubing was evacuated with a vacuum pump prior to connection of the tubing to the canister. After connection of the canister 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 inches of mercury (“Hg) in the canister.

After completion of sampling at each location, each non-disposable piece of sampling equipment that encountered the soil-gas sample was decontaminated with a non-phosphate detergent and tap water wash, followed by a tap water rinse. Vacuum canisters were submitted to ALS for analysis for VOCs via EPA Method Toxic Organics (TO)-15. [Table 2](#) summarizes soil-gas samples collected during this Phase II ESA.

**TABLE 2**  
**SOIL-GAS SAMPLE SUMMARY**  
**BOYS AND GIRLS HOME, SIOUX CITY, IOWA**

Sample Identification	Latitude (°N)	Longitude (°W)	Analyses Performed
SG-1	42.5145044	96.3978034	VOCs (EPA Method TO-15)
SG-2	42.5144426	96.3964452	
SG-3	42.5138181	96.3970366	
SG-4	42.5132282	96.3974822	
SG-5	42.5133127	96.3977763	
SG-6	42.5131776	96.3977759	
SG-7	42.5129519	96.3977059	
SG-8	42.5123271	96.3979573	
SG-9	42.5127493	96.3970970	
SG-10	42.5125021	96.3962481	
SG-11	42.5123447	96.3966001	
SG-12	42.5123108	96.3968455	

Notes:

EPA    U.S. Environmental Protection Agency  
N       North  
SG      Soil gas  
TO      Toxic organics  
VOC    Volatile organic compound  
W       West

### 3.2.3 Quality Control Sampling

Field QC sampling for this investigation included one soil field duplicate and two trip blanks. ALS analyzed trip blanks for VOCs. Analytical data from the trip blanks were referenced to determine whether contamination had been introduced in the field and/or during transportation of containers and samples.

The soil field duplicate was collected to determine total method precision. Analytical results from the field duplicate sample were used to calculate the relative percent difference (RPD) between each set of duplicate pair results for each reported analyte. The RPDs were used for informational purposes only; however, the higher concentration of each analyte in each duplicate sample pair was to be used at the discretion of the EPA Project Manager. Calculated RPDs are included in the applicable data validation reports in [Appendix D](#). Analytical accuracy was determined by analyses of laboratory-prepared spikes and duplicates.

## 4.0 EVALUATION AND PRESENTATION OF RESULTS

The following sections present analytical data from subsurface soil, groundwater, and soil-gas samples collected during this Phase II ESA. Copies of analytical data packages and data validation reports are in [Appendix D](#).

Soil sample results from this Phase II ESA were compared to IDNR Statewide Standards (SWSs) and EPA Regional Screening Levels (RSLs) for residential and industrial land uses (IDNR 2023b; EPA 2023a). Metals results from soil samples also were compared to average background concentrations in Woodbury County, Iowa, to determine if those metals results were consistent with naturally occurring concentrations (USGS 2023). A detected concentration of a metal is considered naturally occurring if it is at or below the average county background concentration (within one standard deviation of the mean). RSLs for soil assumed a total hazard quotient (THQ) of 1.0.

Soil-gas sample results were compared to EPA Vapor Intrusion Screening Levels (VISLs), with an assumed THQ of 1.0 (EPA 2023b).

### 4.1 SOIL SAMPLES

One surface soil sample and one subsurface soil sample were collected at each of 12 pre-selected locations to assess presence of contamination from historical activities at the Site. Soil samples were submitted to ALS or Eurofins for analyses for VOCs, SVOCs, TEH, and TAL metals.

#### VOCs

VOCs were detected in all soil samples except SB-12 (32-35). No detected concentration of a VOC in any soil sample exceeded an EPA RSL or IDNR SWS. Most of the detected VOCs were either common laboratory contaminants (acetone, 2-butanone, and methylene chloride) or are fuel-related (benzene, ethylbenzene, and toluene). [Table 3](#) lists VOC detections in surface and subsurface soils for constituents for which an EPA RSL or an IDNR SWS for soil has been established.

TABLE 3

DETECTED VOC RESULTS FROM SOIL SAMPLES  
BOYS AND GIRLS HOME, SIOUX CITY, IOWA

Sample Identification	Acetone	2-Butanone	Benzene	Carbon disulfide	Cyclohexane	Ethylbenzene	Methyl acetate	Methylene Chloride	Toluene
	EPA RSL (TR=1E-06 THQ=1.0) Residential Soil								
	70,000,000	27,000,000	1,200	770,000	6,500,000	5,800	78,000,000	57,000	4,900,000
	EPA RSL (TR=1E-06 THQ=1.0) Industrial Soil								
	1,100,000,000	190,000,000	5,100	3,500,000	27,000,000	25,000	1,200,000,000	100,000	47,000,000
	IDNR SWS for Soil								
	68,000,000	NE	56,000	7,600,000	NE	7,600,000	NE	1,500,000	6,100,000
SB-1 (0-3)	ND	ND	ND	ND	ND	ND	ND	470	ND
SB-1 (32-35)	ND	ND	ND	ND	ND	ND	ND	560	ND
SB-2 (0-3)	ND	ND	ND	ND	ND	ND	ND	680	ND
SB-2 (32-35)	ND	ND	ND	ND	ND	ND	ND	540	ND
SB-3 (0-3)	ND	ND	ND	ND	ND	ND	ND	660	ND
SB-3 (32-35)	ND	ND	ND	ND	ND	ND	ND	520	ND
SB-4 (0-3)	ND	ND	ND	ND	ND	ND	ND	450	ND
SB-4 (0-3) DUP	ND	ND	ND	ND	ND	ND	ND	410	ND
SB-4 (32-35)	ND	ND	ND	ND	ND	ND	ND	790	ND
SB-5 (0-3)	ND	ND	ND	ND	ND	ND	ND	360 J	ND
SB-5 (15-18)	ND	ND	ND	ND	ND	ND	ND	250 J	ND
SB-6 (0-3)	23	ND	0.83 J	2.3 J	3.4 J	ND	ND	ND	ND
SB-6 (30-35)	14 J	ND	2.5 J	1.4 J	4.9 J	1.7 J	ND	ND	5.2 J
SB-7 (0-3)	19	ND	ND	0.94 J	2.5 J	ND	ND	ND	ND
SB-7 (12-15)	33	ND	ND	ND	ND	ND	ND	ND	ND
SB-8 (0-10)	22	ND	ND	2.3 J	2.6 J	ND	ND	ND	ND
SB-8 (32-35)	12 J	ND	2.1 J	ND	4.0 J	1.4 J	ND	ND	4.0 J
SB-9 (2-5)	ND	31	ND	ND	ND	ND	ND	ND	ND
SB-9 (32-35)	16	ND	2.6 J	ND	5.7 J	1.2 J	ND	ND	4.9 J
SB-10 (0-3)	ND	41	0.93 J	ND	ND	ND	ND	ND	ND
SB-10 (25-25)	32	ND	2.2 J	3.3 J	4.2 J	1.2 J	ND	ND	4.2 J
SB-11 (0-3)	ND	26	ND	ND	ND	ND	ND	ND	ND
SB-11 (27-30)	11 J	ND	2.2 J	ND	4.5 J	6.6 J	ND	ND	3.8 J
SB-12 (0-3)	ND	ND	ND	ND	ND	ND	55 J	ND	ND

Notes:

All values are in micrograms per kilogram.

Italic font indicates concentration exceeds EPA RSL for industrial soil.

- DUP
- Field duplicate
- EPA
- U.S. Environmental Protection Agency
- IDNR
- Iowa Department of Natural Resources
- J
- Qualified as estimated
- ND
- Not detected at the associated reporting limit
- NE
- Not established
- RSL
- Regional Screening Level (EPA 2022a)
- SB
- Soil boring
- SWS
- Statewide Standard (IDNR 2023b)
- THQ
- Total hazard quotient
- TR
- Total cancer risk
- VOC
- Volatile organic compound

## SVOCs

SVOCs were detected in 16 of 24 soil samples. Concentrations of benzo(a)pyrene exceeded the EPA RSL for residential soil in surface soil samples SB-6 (0-3), SB-7 (0-3), SB-8 (0-10), and SB-10 (0-3); none had a concentration that exceeded the EPA RSL for industrial soil or an IDNR SWS. No other SVOC was present at a concentration exceeding any other regulatory benchmark in surface or subsurface soil.

[Table 4](#) lists SVOC detections in soil for constituents for which an EPA RSL or IDNR SWS for soil has been established.

TABLE 4

DETECTED SVOC RESULTS FROM SOIL SAMPLES  
BOYS AND GIRLS HOME, SIOUX CITY, IOWA

Sample Identification	Acenaphthene	Acenaphthylene	Anthracene	1,1`-Biphenyl	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Caprolactam	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Pyrene
	EPA RSL (TR=1E-06 THQ=1.0) Residential Soil																	
	3,600,000	360,000	18,000,000	47,000	1,100	110	1,100	11,000	31,000,000	11,000	110	2,400,000	2,400,000	1,100	18,000	240,000	2,000	1800,000
	EPA RSL (TR=1E-06 THQ=1.0) Industrial Soil																	
	45,000,000	4,500,000	230,000,000	200,000	21,000	2,100	21,000	210,000	400,000,000	210,000	2,100	30,000,000	30,000,000	210,000	73,000	300,000	8,600	23,000,000
	IDNR SWS for Soil																	
	3,400,000	1,700,000	17,000,000	NE	3,100	2,300	3,100	31,000	NE	310,000	NE	2,300,000	2,300,000	3,100	NE	230,000	1,100,000	1,700,000
SB-3 (0-3)	ND	ND	ND	ND	18	18	18	12	ND	14	7.1 J	25	ND	12	ND	ND	ND	28
SB-3 (32-35)	ND	ND	ND	ND	ND	ND	ND	ND	110	ND	ND	4.5 J	ND	ND	ND	ND	ND	ND
SB-4 (0-3)	ND	ND	ND	ND	8.4 J	10 J	ND UJ	ND	ND	ND	ND	6.9 J	ND	ND	ND	ND	ND	7.7 J
SB-4 (0-3) DUP	ND	ND	ND	ND	13 J	15 J	14 J	7.9 J	ND	ND	ND	12	ND	8.7	ND	ND	ND	14 J
SB-4 (32-35)	ND	5.3 J	15	ND	64	55	82	29	ND	51	9.8	140	ND	29	ND	ND	ND	100
SB-5 (0-3)	ND	ND	6.1 J	ND	11	11	11	7.6 J	ND	ND	ND	13	ND	6.9 J	12	15	7.6 J	14
SB-5 (15-18)	ND	ND	5.7 J	ND	15	18	16	9.9	ND	11	ND	20	ND	9.2	ND	4.2 J	ND	18
SB-6 (0-3)	ND	ND	87	ND	160	<b>170</b>	170	100	ND	87	ND	220	ND	80	94	94	ND	210
SB-6 (30-35)	ND	ND	ND	ND	ND	ND	ND	ND	180	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-7 (0-3)	ND	ND	56	100	89	<b>110</b>	120	32	ND	180	14	190	ND	26	1,400	1,700	540	160
SB-7 (12-15)	8.6	ND	25	ND	51	55	78	28	ND	53	11	100	11	31	33	36	17	83
SB-8 (0-10)	ND	ND	71	ND	160	<b>160</b>	170	99	ND	110	ND	250	ND	78	57 J	57 J	ND	230
SB-8 (32-35)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.0 J	ND	ND	ND	ND	ND	ND
SB-10 (0-3)	ND	11	20	ND	160	<b>150</b>	180	70	ND	150	20	300	ND	75	7.8	8.5	5.7 J	260
SB-10 (25-25)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.2 J	ND	ND	ND	ND	ND	ND
SB-11 (0-3)	ND	ND	ND	ND	ND	ND	ND	ND	170	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-12 (0-3)	ND	ND	5.7 J	ND	13	18	18	11	ND	8.5	ND	21	ND	ND	ND	4.3 J	ND	20

Notes:

All values are in micrograms per kilogram.  
Bold font indicates concentration exceeds EPA RSL for residential soil.

- DUPDuplicate sample
- EPAU.S. Environmental Protection Agency
- IDNRIowa Department of Natural Resources
- JQualified as estimated
- NDNot detected at the associated reporting limit
- ND UJQualified as non-detect at an estimated reporting limit
- NENot established
- RSLRegional Screening Level (EPA 2022a)
- SBSoil boring
- SWSStatewide Standard (IDNR 2023b)
- THQTotal hazard quotient
- TRTotal cancer risk

## TEH

TEH were detected in 13 of 24 soil samples: SB-1 (0-3), SB-3 (0-3), SB-4 (0-3), SB-5 (0-3), SB-5 (15-18), SB-6 (0-3), SB-6 (32-35), SB-7 (0-3), SB-7 (12-15), SB-8 (0-10), SB-10 (0-3), and SB-10 (25-35), SB-12 (0-3). No concentration of TEH exceeded the IDNR SWS. [Table 5](#) lists all TEH detections in soil.

**TABLE 5**  
**DETECTED TEH RESULTS FROM SOIL SAMPLES**  
**BOYS AND GIRLS HOME, SIOUX CITY, IOWA**

Sample Identification	TEH-Gasoline	TEH-Diesel	TEH-Waste Oil	TEH-Other
	IDNR SWS for Soil			
	NE	28,000	9,400	NE
SB-1 (0-3)	ND	ND	ND	9.2 JZ
SB-3 (0-3)	ND	ND	ND	4.4 JZ
SB-4 (0-3)	ND	ND	48	ND
SB-4 (0-3) DUP	ND	ND	41	ND
SB-5 (0-3)	ND	ND	ND	8.4 JZ
SB-5 (15-18)	ND	ND	ND	9.9 JZ
SB-6 (0-3)	ND	ND	1,000	ND
SB-6 (32-35)	ND	ND	ND	6.0 JZ
SB-7 (0-3)	ND	ND	ND	49 Z
SB-7 (12-15)	ND	ND	ND	35 Z
SB-8 (0-10)	ND	ND	ND	67 Z
SB-10 (0-3)	ND	ND	ND	33 Z
SB-10 (25-35)	17	ND	ND	ND
SB-12 (0-3)	ND	ND	ND	8.6 JZ

Notes:

All values are in milligrams per kilogram.

DUP	Duplicate
EPA	U.S. Environmental Protection Agency
IDNR	Iowa Department of Natural Resources
J	Qualified as estimated
ND	Not detected
NE	Not established
SB	Soil boring
SWS	Statewide Standard (IDNR 2023b)
TEH	Total extractable hydrocarbons
THQ	Total hazard quotient
TR	Total cancer risk
U	Not detected at the associated reporting limit
Z	Chromatographic response does not resemble a typical fuel pattern



## Metals

Metals were detected in all soil samples. Detections of arsenic occurred at concentrations exceeding the EPA RSL for industrial soil in all samples, but none exceeded the average background concentration for Woodbury County, Iowa (mean plus one standard deviation). No detection in any soil sample of any analyte other than arsenic occurred at a concentration exceeding the EPA RSL for residential or industrial soils or the IDNR SWS for soil. Because detections of arsenic were all within one standard deviation of the average background concentration, the presence of arsenic at the Site is likely naturally occurring.

[Table 6](#) lists metals detections in soil samples for constituents for which an EPA RSL or IDNR SWS for soil has been established.

TABLE 6

DETECTED METALS RESULTS FROM SOIL SAMPLES  
BOYS AND GIRLS HOME, SIOUX CITY, IOWA

Sample Identification	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
	EPA RSL (TR=1E-06, THQ=1.0) Residential Soil																		
	77,000	31	0.68	15,000	160	7.1	120,000*	23	3,100	55,000	400	1,800	11	1,500	390	390	0.78	390	23,000
	EPA RSL (TR=1E-06, THQ=1.0) Industrial Soil																		
	1,100,000	470	3	220,000	2,300	100	1,800,000*	350	47,000	820,000	800	26,000	46	22,000	5,800	5,800	12	5,800	350,000
	IDNR SWS for Soil																		
	NE	31	1.9	15,000	110	70	190	23	3,100	NE	400	10,000	23	1,500	390	370	0.78	350	23,000
	USGS Woodbury County Average (USGS 2023)																		
	60,550	NE	12.555	NE	NE	NE	NE	NE	22.616	27,820	32,800	919.155	0.040	NE	0.624	NE	NE	NE	81.396
SB-1 (0-3)	9,100	0.53	12	360	0.52	0.44	12	11	19	19,000	12	1,300	0.040	28	ND	0.064 J	0.33 J+	23	66
SB-1 (32-35)	5,600	0.45	9.1	290	0.51	0.30	12	9.1	17	16,000	11	780	0.027	24	ND	0.052 J	ND U	22	59
SB-2 (0-3)	6,000	0.46	13	410	0.70	0.30	16	14	21	24,000	15	1,100	0.039	33	ND	0.080 J	0.33 J+	26	78
SB-2 (32-35)	5,500	0.51	10	350	0.47	0.26	12	9.4	16	18,000	11	1,000	0.035	23	ND	0.062 J	ND U	22	58
SB-3 (0-3)	6,600	0.41	9.6	240	0.50	0.17	12	9.0	16	17,000	14	700	0.044	22	ND	0.059 J	ND U	20	59
SB-3 (32-35)	4,700	0.43	8.4	250	0.42	0.23	10	8.4	13	14,000	9.2	850	0.035	21	ND	0.049 J	ND U	18	50
SB-4 (0-3)	5,300	0.45 J-	8.8 J-	280	0.46 J-	0.28 J-	10 J-	11 J-	15 J-	16,000 J	12 J-	860	0.041	25 J-	ND	0.045 J -	ND U	19	62 J
SB-4 (0-3) DUP	5,700	0.44	7.3	270	0.41	0.22 J	8.1 J	6.7 J	11 J	12,000 J	10	760	0.037	18 J	0.33 J	0.050 J	ND U	18	44 J
SB-4 (32-35)	4,600	0.56 J-	7.5	280	0.47	0.27 J-	11	7.7	14 J-	13,000	10	960	0.056	18 J-	0.33 J-	0.066 J	ND	21 J+	47
SB-5 (0-3)	6,900	0.43	7.6	290	0.44	0.33	8.6	7.0	12	15,000	14	870	0.046	17	ND	ND	ND U	19	46
SB-5 (15-18)	7,800	0.44	7.0	310	0.37	0.29	7.5	6.0	11	21,000	17	1,200	0.045	16	ND	0.056 J	ND U	17	45
SB-6 (0-3)	6,600	0.35	5.8	200	0.41	0.25	8.0	5.7	11	11,000	16	640	0.041	16	ND	0.052 J	ND U	16	48
SB-6 (30-35)	4,900	0.36 J-	5.9 J-	170	0.34	0.20 J-	6.5	6.5 J	9.3 J-	9,500	8.0 J-	650	0.020 J	14 J-	ND UJ	0.044 J-	ND U	15 J+	34
SB-7 (0-3)	4,700	0.29 J	4.7	74	0.88	0.16	6.4	4.1	16	11,000	25	270	0.028	15	ND	0.049 J	ND	11	48
SB-7 (12-15)	6,000	0.48	8.1	250	0.58	0.27	8.3	5.9	14	16,000	42	460	0.069	17	ND	0.10	ND	19	67
SB-8 (0-10)	6,200	0.24 J	6.1	170	0.40	0.21	9.0	5.1	10	10,000	34	690	0.10	14	ND	0.068 J	ND	17	53
SB-8 (32-35)	5,900	ND	9.7	320	0.47	0.33	20	9.2	28	16,000	11	1,200	0.038	46	ND	ND	ND	22	100
SB-9 (2-5)	8,300	0.28 J	8.4	230	0.54	0.19	9.3	6.5	10	18,000	16	700	0.077	15	ND	0.074 J	ND	21	49
SB-9 (32-35)	6,300	0.47	7.4	260	0.49	0.21	8.5	7.7	12	17,000	11	910	0.035	18	ND	0.064 J	ND	21	43
SB-10 (0-3)	7,900	0.27 J	8.3	240	0.56	0.32	9.5	6.4	14	18,000	38	690	0.11	17	ND	0.084 J	ND	21	86
SB-10 (25-25)	6,100	0.41	7.2	270	0.46	0.26	16	7.4	14	17,000	11	890	0.098	19	ND	0.061 J	ND	20	45
SB-11 (0-3)	8,800	0.23 J	9.9	230	0.62	0.14	10	7.6	15	21,000	14	720	0.052	20	ND	0.057 J	ND	22	54
SB-11 (27-30)	6,100	0.50	7.7	300	0.50	0.18	8.4	7.5	12	17,000	11	880	0.038	18	ND	0.079 J	ND	21	45
SB-12 (0-3)	5,300	0.30	5.7	160	0.45	0.79	6.1	4.6	8.8	9,500	22	610	0.066	12	0.29 J	0.049 J	ND	15	89
SB-12 (32-35)	4,700	0.40	6.0	210	0.41	0.18	6.7	6.6	11	10,000	8.7	720	0.029	16	0.27 J	0.060 J	ND	17	37

Notes:

All values are in milligrams per kilogram.

Bold font indicates concentration exceeds EPA RSL for residential soil.

Italic font indicates concentration exceeds EPA RSL for industrial soil.

Gold highlighting indicates concentration exceeds IDNR SWS.

Green highlighting indicates concentration exceeds the USGS Woodbury County Average

\* Trivalent chromium was assumed.

DUP

EPA

IDNR

J

J-

J+

Duplicate

U.S. Environmental Protection Agency

Iowa Department of Natural Resources

Qualified as estimated

Qualified as estimated, biased low

Qualified as estimated, biased high

ND

ND U

ND UJ

NE

RSL

Not detected at associated reporting limit

Qualified as non-detect at the reporting limit

Qualified as non-detect at an estimated reporting limit

Not established

Regional Screening Level (EPA 2023a)

SB

SWS

THQ

TR

USGS

Soil boring

Statewide Standard (IDNR 2023b)

Total hazard quotient

Total cancer risk

U.S. Geological Survey

## 4.2 SOIL-GAS SAMPLES

The Toeroek Team collected 12 soil-gas samples, one each co-located with soil borings SB-1 through SB-12. Soil-gas samples were collected to detect contamination in soil vapors from historical activities at the Site and were submitted to ALS for analysis for VOCs via EPA Method TO-15.

VOCs were detected in all soil-gas samples. Three VOCs were detected at concentrations exceeding the EPA residential VISL—benzene in SG-9; 1,3-butadiene in SG-7; and chloroform in SG-7, SG-9, SG-10, SG-11, and SG-12. No VOC exceeded an EPA commercial VISL. [Table 7](#) below lists detected results in soil-gas samples for constituents for which an EPA VISL has been established.

TABLE 7

DETECTED VOC RESULTS FROM SOIL-GAS SAMPLES  
BOYS AND GIRLS HOME, SIOUX CITY, IOWA

Sample Identification	Benzene	1,3-Butadiene	2-Butanone	Carbon disulfide	Chloroform	Chloromethane	Cyclohexane	Ethylbenzene	Heptane	Hexane	4-Methyl-2-pentanone	Naphthalene	2-Propanol	Propene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	m&p-Xylene	o-Xylene
	Residential Target Sub-Slab and Near-source Soil-Gas VISL (TR=1E-06 or THQ=1.0)																		
	12	3.12	174,000	24,300	4.07	3,130	209,000	37.4	13,900	468	104,000	2.75	6,950	104,000	360	174,000	2,090	3,480	3,480
	Commercial Target Sub-Slab and Near-source Soil-Gas VISL (TR=1E-06 or THQ=1.0)																		
	52.4	13.6	730,000	102,000	17.8	13,100	87,600	164	58,400	2,040	438,000	12.0	29,200	438,000	1,570	730,000	8,760	14,600	14,600
SG-1	2.17 J+	1.02 J+	5.57 J+	U	1.27 J+	U	U	6.21 J+	4.06 J+	3.60 J+	5.74 J+	1.78 J+	4.55 J+	27.4 J+	11.1 J+	12.2 J+	9.34 J+	24.5 J+	8.08 J+
SG-2	1.79 J+	0.863 J+	5.99 J+	U	1.61 J+	U	U	4.13 J+ J+	2.34 J+	2.71 J+	U	1.68 J+	2.88 J+	20.4 J+	7.19 J+	6.03 J+	5.80 J+	15.2 J+	5.34 J+
SG-3	U	0.752 J+	5.37 J+	U	1.46 J+	U	U	2.52	U	U	U	2.31 J+	U	14.3 J+	5.15 J+	4.41 J+	5.80 J+	9.12 J+	3.52 J+
SG-4	U	0.509 J+	U	U	U	U	U	U	U	U	U	U	2.97 J+	9.62 J+	6.65 J+	4.07 J+	2.56 J+	5.95 J+	2.34 J+
SG-5	1.60 J+	0.752 J+	4.81 J+	U	U	U	U	U	U	2.61 J+	U	1.26 J+	U	17.4 J+	8.14 J+	4.56 J+	5.80 J+	7.12 J+	2.91 J+
SG-6	U	0.465	5.16	U	U	U	U	U	U	U	U	U	U	8.54	5.49	3.58	4.67	5.25	2.26
SG-7	7.48	5.69	13.1	5.14	5.37	2.95	7.99	2.56	3.24	4.51	U	U	6.76	95.7	6.10	6.03	2.51	8.73	3.08
SG-8	1.73	1.95	6.34	7.35	U	U	U	3.65	U	2.57	U	U	3.27	30.4	5.90	3.92	5.11	14.0	4.65
SG-9	12.1 J+	U	5.99 J+	U	10.0 J+	2.75 J+	U	3.99 J+	2.13 J+	2.26 J+	U	2.04 J+	4.57 J+	U	10.2 J+	6.14 J+	9.38 J+	15.9 J+	5.47 J+
SG-10	6.71	1.31	4.10	U	5.37	1.53	U	2.61	2.75	4.30	U	2.52	4.45	32.1	7.73	5.65	8.80	10.6	3.69
SG-11	8.18	0.509	U	U	8.69	2.13	U	U	U	U	U	1.94	3.12	7.44	6.04	3.24	6.83	9.03	2.91
SG-12	8.31	0.642	U	U	8.89	2.09	U	U	U	U	U	1.99	2.92	7.31	6.10	3.17	6.98	9.16	2.87

Notes:

All values are in micrograms per cubic meter.  
Bold font indicates concentration exceeds EPA residential VISL.

E Value above quantification range  
EPA U.S. Environmental Protection Agency  
J+ Qualified as estimated, biased high  
NE Not established  
RSL Regional Screening Level  
SG Soil-gas  
THQ Total hazard quotient  
TR Total cancer risk  
U Not detected at associated reporting limit  
VISL Vapor Intrusion Screening Level (EPA 2023b)  
VOC Volatile organic compound

#### **4.3 QUALITY CONTROL SAMPLES**

Two water trip blanks were included in this Phase II ESA to determine whether contamination had been introduced during transportation of containers and samples. The two trip blanks yielded no detections of VOCs.

## **5.0 DISCUSSION OF SIGNIFICANT FINDINGS AND CONCLUSIONS**

This section summarizes significant findings and offers conclusions regarding Phase II fieldwork activities.

### **5.1 SURFACE AND SUBSURFACE SOIL**

VOCs were detected in all soil samples except SB-12 (32-35). No detected concentration of a VOC in any soil sample exceeded a regulatory benchmark.

SVOCs were detected in 16 of 24 soil samples. Concentrations of benzo(a)pyrene exceeded the EPA RSL for residential soil in surface soil samples SB-6 (0-3), SB-7 (0-3), SB-8 (0-10), and SB-10 (0-3). No other SVOC was present at concentration exceeding any regulatory benchmark.

TEH were detected in 13 of 24 soil samples. No concentration of TEH exceeded the IDNR SWS.

Metals were detected in all soil samples. Detections of arsenic occurred at concentrations exceeding the EPA RSL for industrial soil in all samples, but none exceeded the average background concentration for Woodbury County, Iowa (mean plus one standard deviation). No detection in any soil sample of any analyte other than arsenic occurred at a concentration exceeding an EPA RSL for residential or industrial soil or an IDNR SWS. Detections of arsenic were all within one standard deviation of the average background concentration, indicating presence of arsenic at the Site likely is naturally occurring.

### **5.2 SOIL GAS**

VOCs were detected in all soil-gas samples. Three VOCs were detected at concentrations exceeding the EPA residential VISL—benzene in SG-9; 1,3-butadiene in SG-7; and chloroform in SG-7, SG-9, SG-10, SG-11, and SG-12. No VOC exceeded an EPA commercial VISL.

### **5.3 EVALUATION OF PREVIOUSLY IDENTIFIED RECS**

This section discusses and evaluates the previously identified RECs reported in the June 2017 Phase I ESA report (HRG 2021). Based on results of soil and soil-gas sampling, the Site appears to have been impacted by historical activities associated with the former power plant structure and heating oil USTs, and by off-site historical use of adjacent properties as gas stations.

## **5.4 CONCEPTUAL SITE MODEL**

The following sections describe elements of the conceptual site model.

### **5.4.1 Chemical Release Scenario and Spatial Distribution**

Sampling results during this Phase II ESA indicated presence at the Site of VOCs, SVOCs, TEH, and metals in soil, and of VOCs in soil gas.

Sampling results from soil were compared to EPA RSLs under residential and industrial scenarios, and to IDNR SWSs for soil, with an assumption of a THQ of 1.0 for RSLs (EPA 2023a; IDNR 2023b). VOC results from soil-gas samples were compared to EPA VISLs under residential and commercial scenarios, with assumption of a THQ of 1.0 (EPA 2023b). These comparisons indicated elevated concentrations of VOCs, SVOCs, and petroleum constituents likely associated with historical operations at or adjacent to the Site.

### **5.4.2 Current and Future Land Use and Groundwater Use**

The Site consists of one parcel at 2101 Court Street in Sioux City, Woodbury County, Iowa. The Site encompasses approximately 14.39 acres and contains seven buildings. [Figure 2](#) in [Appendix A](#) illustrates the approximate footprint of the Site structures and the Site boundaries.

Currently, groundwater is not used for drinking water at the Site. The City of Sioux City public utility obtains its drinking water from the Alluvial/Dakota Aquifer (Sioux City, Iowa, 2022).

The current owner of the Site, Boys and Girls Home, is interested in demolishing the current structures for future redevelopment of mixed density housing, contingent on findings from this Phase II ESA.

### **5.4.3 Land and Groundwater Use Restrictions**

No known land or groundwater use restrictions exist.

### **5.4.4 Physical Conditions**

A discussion of physical conditions is in [Section 2.2](#) of this report.

### **5.4.5 Remedial Activities at the Site**

No known remedial activities have occurred at the Site.

#### 5.4.6 Exposure Model

##### Groundwater Migration Pathway and Targets

The Site is within a mixed-use area of the City of Sioux City, and surrounded by residential and commercial businesses. Sioux City obtains its drinking water from the Alluvial/Dakota Aquifer (Sioux City, Iowa, 2022). Groundwater was not encountered at the Site, and a 400-foot-deep irrigation well at the Site was dry. Use of groundwater at the Site as a potable water source is not expected in the future. Because the City of Sioux City serves the groundwater domestic use pathway, likelihood of ingestion of or dermal exposure to contaminants present in groundwater at the Site is low.

##### Surface Water Migration Pathway and Targets

The hydrologic gradient at the Site is not known but may be inferred to be consistent with the topographic gradient, which extends primarily south toward the Missouri River. Threatened or endangered species known or likely to occur in Woodbury County, Iowa, include the northern long-eared bat (*Myotis septentrionalis*), the pallid sturgeon (*Scaphirhynchus albus*), the piping plover (*Charadrius melodus*), and the western prairie fringed orchid (*Plantanthrera praelara*). The tricolored bat (*Perimyotis subflavus*) is proposed endangered, and the little brown bat (*Myotis lucifugus*) and regal fritillary (*Speyeria idalia*) are currently under review. The monarch butterfly (*Danaus plexippus*) is a candidate species. No critical habitats are listed on the Site (U.S. Fish and Wildlife Service [USFWS] 2023). Presence of these species at the Site area has not been verified, and the Site has not undergone a habitat assessment.

The Site does not host any surface water features. Stormwater flows to the municipal stormwater sewer system; likelihood of exposure to stormwater is low.

##### Soil Exposure and Air Migration Pathways and Targets

Soils at the Site have been classified as Urban land, Ida-Urban land complex with 14 to 20 percent slopes, Monona-Urban land complex with 5 to 9 percent slopes, and Napier-Urban land complex with 5 to 9 percent slopes. These soil types derive from loess, are well drained, and consist of silt loam (from 0 to 79 inches deep) (USDA 2023). The Site includes paved and grassy areas except for the building footprint. Based on low levels of contaminants in surface soils at the Site, likelihood of direct exposure to soil or air contamination is low.



### **Subsurface Vapor Intrusion Migration Pathway and Targets**

The Site currently hosts multiple structures and includes paved parking lots. Historical documentation indicates previous operations of a hospital and nursing facilities. The current owner of the Site, Boys and Girls Home, has shown interest in demolishing the current structures for future redevelopment of mixed density housing, contingent on findings from this Phase II ESA.

Soil-gas samples were collected at 12 locations (co-located with 12 soil borings). Results of the soil-gas sampling are discussed in [Section 4.2](#).

VOCs were detected in all soil-gas samples. Three VOCs were detected at concentrations exceeding the EPA residential VISL—benzene in SG-9; 1,3-butadiene in SG-7; and chloroform in SG-7, SG-9, SG-10, SG-11, and SG-12. No VOC exceeded an EPA commercial VISL. Based on these detected concentrations, residential receptors in the current structures may be exposed to concentrations of VOCs that exceed RSLs.

## **5.5 AFFECTED MEDIA**

Sampling results during this Phase II ESA indicated presence at the Site of VOCs, SVOCs, TEH, and metals in soil, and of VOCs in soil gas.

Comparisons with EPA RSLs under residential and industrial scenarios for soil, IDNR SWSs for soil, and EPA VISLs under residential and commercial scenarios indicated elevated concentrations of VOCs, SVOCs, and petroleum constituents likely associated with historical operations at or adjacent to the Site. Some of these detections exceeded residential screening levels, including SVOCs in soil and VOCs in soil-gas. These exceedances suggest a fuel release at or adjacent to the Site. Detections of arsenic in soil exceeded the EPA RSL for industrial soils; however, concentrations of arsenic were all within one standard deviation of average background concentrations for Woodbury County, Iowa, indicating that presence of arsenic at the Site likely is naturally occurring.

The current owner of the Site, Boys and Girls Home, has shown an interest in demolishing the current structures for future redevelopment of mixed density housing, contingent on findings from this Phase II ESA. Based on analytical results from soil and soil-gas samples, further investigation and/or remediation appears warranted. If the soil is to be disturbed during redevelopment, a soil management plan may be necessary to protect construction or utility workers. Isolated areas where concentrations of contaminants exceed screening levels may require additional excavation or capping. An Analysis of Brownfields Cleanup Alternatives (ABCA), to be submitted under separate cover and as directed by EPA, will present alternatives for remediating affected media at the Site.

## 6.0 REFERENCES

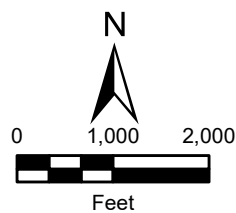
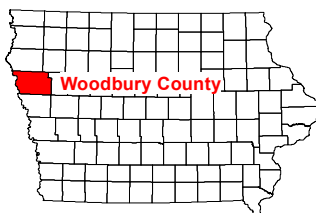
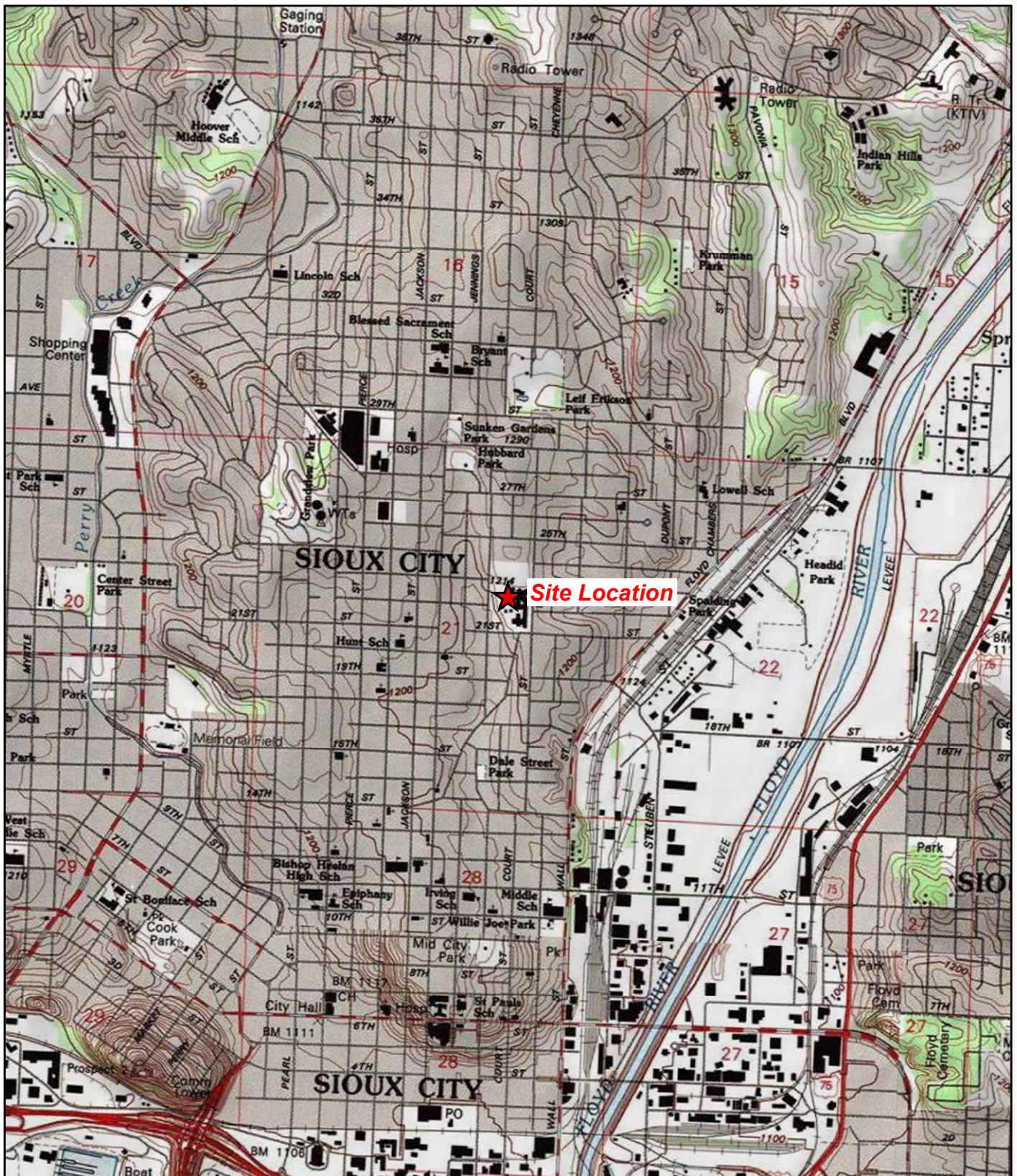
- HR Green (HRG). 2022. Phase I Environmental Site Assessment. Boys and Girls Home. 2101 Court Street, Sioux City, Iowa. July 29.
- Iowa Department of Natural Resources (IDNR). 2023a. Source Water Assessment and Protection – Sioux City Iowa.  
[https://programs.iowadnr.gov/sourcewater/maps/map.html?pwsid\\_aqfr=9778054alluvial](https://programs.iowadnr.gov/sourcewater/maps/map.html?pwsid_aqfr=9778054alluvial)
- Iowa Department of Natural Resources (IDNR). 2023b. Cumulative Risk Calculator – Statewide Standards. Accessed July 2023. <https://programs.iowadnr.gov/riskcalc/Home/StatewideStandards>
- Iowa Geological Survey (IGS). 2023. GeoSam – Iowa Geological Survey Map Search. Accessed July 2023. <https://www.iuhr.uiowa.edu/igs/geosam/home>
- National Weather Service. 2023. Historical Weather Data for Sioux City, Iowa. Accessed July 2023. <https://w2.weather.gov/climate/index.php?wfo=lsx>
- Sioux City, Iowa. 2022. 2022 Water Quality Report for Sioux City Water Supply. Accessed July 2023. <https://www.sioux-city.org/home/showpublisheddocument/36898/638151791419670000>
- Toeroek Associates, Inc. and Tetra Tech, Inc. (Toeroek Team). 2023. Quality Assurance Project Plan, Phase II Environmental Site Assessment, Boys and Girls Home, 2101 Court Street, Sioux City, Woodbury County, Iowa. April 13.
- U.S. Department of Agriculture (USDA). 2023. Web Soil Survey. Accessed July 2023. <https://websoilsurvey.sc.egov.usda.gov/App/HomePage.html>
- U.S. Environmental Protection Agency (EPA). 2022. Targeted Brownfields Assessment Application Form for 2101 Court Street, Sioux City, Woodbury County, Iowa. August 9.
- U.S. Environmental Protection Agency (EPA). 2023a. Regional Screening Levels (RSLs) – Generic Tables. Accessed July 2023. <https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>
- U.S. Environmental Protection Agency (EPA). 2023b. Vapor Intrusion Screening Level Calculator. Accessed July 2023. <https://www.epa.gov/vaporintrusion/vapor-intrusion-screening-level-calculator>
- U.S. Fish and Wildlife Service (USFWS). 2023. Woodbury County Distribution of Federally-Listed Threatened, Endangered, Proposed, and Candidate Species. Accessed July 2023. <https://ecos.fws.gov/ecp/report/species-listings-by-current-range-county?fips=19193>
- U.S. Geological Survey (USGS). 1993. Sioux City North, Iowa, Quadrangle. 7.5-Minute Topographic Series.
- U.S. Geological Survey (USGS). 2023. Average Concentrations of Elements in Woodbury County, Iowa. Accessed July 2023. <https://mrdata.usgs.gov/geochem/county.php?place=f19193&el=As&rf=central>

Witzke, Brian. 1997. *Bedrock Geology of Northwest Iowa and Overview of the Bedrock Geology of Northwest Iowa*. IDNR Geological Survey Bureau. May.

## **APPENDIX A**

### **FIGURES**





Boys and Girls Home  
Sioux City, IA

**Figure 1**  
Site Location Map




Source:  
USGS James, IA 7.5 Minute Topo Quad, 1994; USGS Sergeant Bluff, IA 7.5 Minute Topo Quad, 1993;  
USGS Sioux City North, IA 7.5 Minute Topo Quad, 1993; USGS Sioux City North, IA 7.5 Minute Topo Quad, 1994

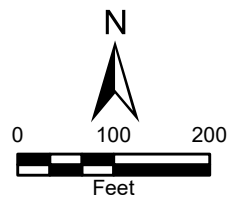
Date: 8/22/2023 Drawn By: Susmita Shrestha Project No: 103G65210190.17.03





#### Legend

 Approximate site boundary

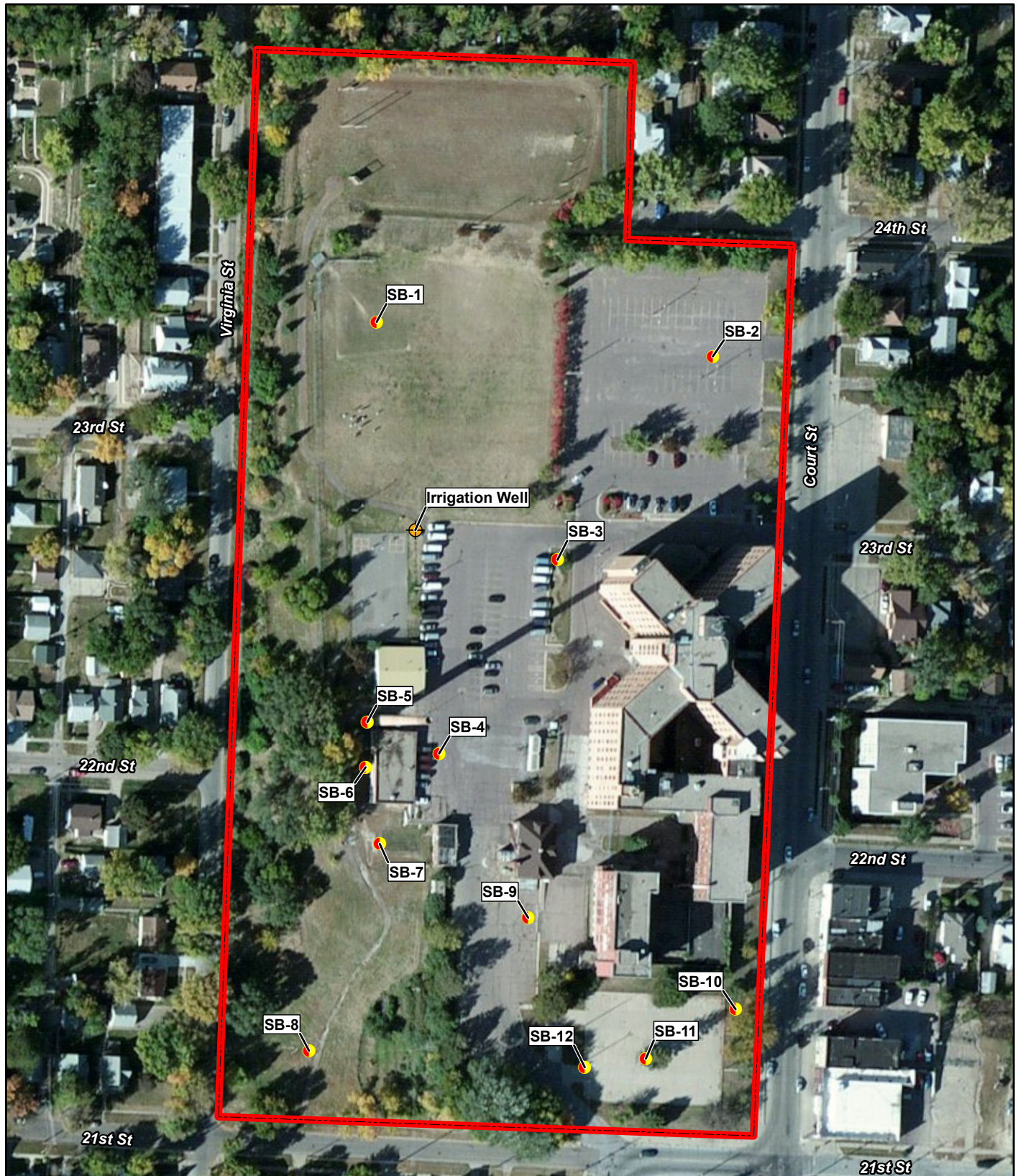


Boys and Girls Home  
Sioux City, IA

**Figure 2**  
Site Layout Map



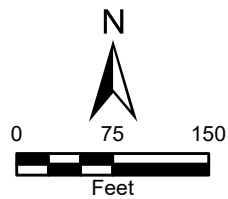




#### Legend

- DPT soil/soil-gas sample location
- ⊕ Irrigation well sample location
- Approximate site boundary
- DPT Direct-push technology
- SB Soil Boring

Source: Esri, ArcGIS Online, World Imagery (Clarity)



Boys and Girls Home  
Sioux City, IA

**Figure 3**  
Sample Location Map



**TETRA TECH**



**TOEROEK  
ASSOCIATES, INC.**

Date: 8/22/2023

Drawn By: Nick Wiederholt

Project No: 103265210190.17.03

X:\G66210190\17.03\ProjectImages\Figure3\_071423.mxd

**APPENDIX B**  
**PHOTOGRAPHIC DOCUMENTATION**



**Phase II Environmental Site Assessment  
Photographic Documentation  
Boys and Girls Home – Sioux City, Iowa**



SUBTASK NO. 17.03	DESCRIPTION	This photograph shows the subject property, including the Main Building at 2101 Court Street.	1
	CLIENT	U.S. Environmental Protection Agency (EPA)	Date: 6/27/23
Direction: South	PHOTOGRAPHER	Macy La Masney	



SUBTASK NO. 17.03	DESCRIPTION	This photograph shows the direct-push technology (DPT) rig at soil boring (SB)-1 during collection of soil-gas sample (SG)-1.	2
	CLIENT	EPA	Date: 6/27/23
Direction: Southeast	PHOTOGRAPHER	Macy La Masney	



**Phase II Environmental Site Assessment  
Photographic Documentation  
Boys and Girls Home – Sioux City, Iowa**



SUBTASK NO. 17.03	DESCRIPTION	This photograph shows the DPT rig at SB-2.	3
	CLIENT	EPA	Date: 6/27/23
Direction: Southwest	PHOTOGRAPHER	Macy La Masney	



SUBTASK NO. 17.03	DESCRIPTION	This photograph shows collection of soil-gas sample SG-2.	4
	CLIENT	EPA	Date: 6/27/23
Direction: Northwest	PHOTOGRAPHER	Macy La Masney	



**Phase II Environmental Site Assessment  
Photographic Documentation  
Boys and Girls Home – Sioux City, Iowa**



SUBTASK NO. 17.03	DESCRIPTION	This photograph shows placement of a polyvinyl chloride (PVC) screen in SB-2.	5
	CLIENT	EPA	Date: 6/27/23
Direction: North	PHOTOGRAPHER	Macy La Masney	



SUBTASK NO. 17.03	DESCRIPTION	This photograph shows the DPT rig at SB-3.	6
	CLIENT	EPA	Date: 6/27/23
Direction: Southeast	PHOTOGRAPHER	Macy La Masney	



**Phase II Environmental Site Assessment  
Photographic Documentation  
Boys and Girls Home – Sioux City, Iowa**



SUBTASK NO. 17.03	DESCRIPTION	This photograph shows the DPT rig at SB-4.	7
	CLIENT	EPA	Date: 6/27/23
Direction: Northwest	PHOTOGRAPHER	Macy La Masney	



SUBTASK NO. 17.03	DESCRIPTION	This photograph shows placement of PVC screen in SB-4.	8
	CLIENT	EPA	Date: 6/27/23
Direction: West-northwest	PHOTOGRAPHER	Macy La Masney	



**Phase II Environmental Site Assessment  
Photographic Documentation  
Boys and Girls Home – Sioux City, Iowa**



SUBTASK NO. 17.03	DESCRIPTION	This photograph shows the DPT rig at SB-5.	9
	CLIENT	EPA	Date: 6/27/23
Direction: Northeast	PHOTOGRAPHER	Macy La Masney	



SUBTASK NO. 17.03	DESCRIPTION	This photograph shows the DPT rig at SB-6.	10
	CLIENT	EPA	Date: 6/27/23
Direction: Northeast	PHOTOGRAPHER	Macy La Masney	



**Phase II Environmental Site Assessment  
Photographic Documentation  
Boys and Girls Home – Sioux City, Iowa**



SUBTASK NO. 17.03	DESCRIPTION	This photograph shows the DPT rig at SB-7.	11
	CLIENT	EPA	Date: 6/28/23
Direction: North	PHOTOGRAPHER	Macy La Masney	



SUBTASK NO. 17.03	DESCRIPTION	This photograph shows black soot material in a soil core from SB-7, at depth of approximately 12 to 15 feet below ground surface (bgs).	12
	CLIENT	EPA	Date: 6/28/23
Direction: Not Applicable (N/A)	PHOTOGRAPHER	Macy La Masney	



**Phase II Environmental Site Assessment  
Photographic Documentation  
Boys and Girls Home – Sioux City, Iowa**



SUBTASK NO. 17.03	DESCRIPTION	This photograph shows the DPT rig at SB-8.	13
	CLIENT	EPA	Date: 6/28/23
Direction: North-northeast	PHOTOGRAPHER	Macy La Masney	



SUBTASK NO. 17.03	DESCRIPTION	This photograph shows the DPT rig at SB-9.	14
	CLIENT	EPA	Date: 6/28/23
Direction: North	PHOTOGRAPHER	Macy La Masney	



**Phase II Environmental Site Assessment  
Photographic Documentation  
Boys and Girls Home – Sioux City, Iowa**



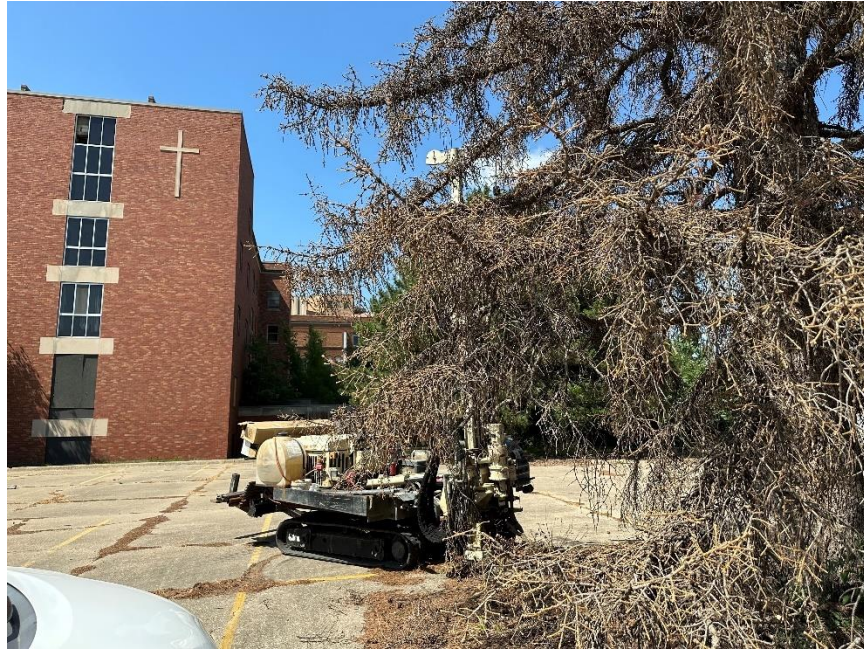
SUBTASK NO. 17.03	DESCRIPTION	This photograph shows the DPT rig at SB-10.	15
	CLIENT	EPA	Date: 6/28/23
Direction: North	PHOTOGRAPHER	Macy La Masney	



SUBTASK NO. 17.03	DESCRIPTION	This photograph shows little to no recovery within the soil cores at SB-10.	16
	CLIENT	EPA	Date: 6/28/23
Direction: N/A	PHOTOGRAPHER	Macy La Masney	



**Phase II Environmental Site Assessment  
Photographic Documentation  
Boys and Girls Home – Sioux City, Iowa**



SUBTASK NO. 17.03	DESCRIPTION	This photograph shows the DPT rig at SB-11.	17
	CLIENT	EPA	Date: 6/28/23
Direction: North	PHOTOGRAPHER	Macy La Masney	



SUBTASK NO. 17.03	DESCRIPTION	This photograph shows the DPT rig at SB-12.	18
	CLIENT	EPA	Date: 6/28/23
Direction: North	PHOTOGRAPHER	Macy La Masney	

## **APPENDIX C**

### **LOGBOOK AND SOIL BORING LOGS**



6/27/23 Boys and Girls Home

0800 TT members M. La Masney and T. Kaley arrive on-site and meet with Henry and Jeff from Plains and the GPR technician. Discuss site health and safety, then begin GPR.

0825 Begin ML Arrive at SB-1.

begin collect ml SG-1. Coordinates:

42.5145044, -96.3978034

start pr: -30 end pr: -7

~~start time~~ 0853 can: 120307

0857 Begin SB-1

0912 collect sample SB-1(0-3)

NO PID readings.

0937 collect sample SB-1(32-35)

0 ml Groundwater was not encountered. PVC installed and will be checked later today.

0950 Arrive at SB-2. coordinates:

42.5144426, -96.3964452

Begin SG-2

start time: ~~1006~~ can: 120326

start p: -30 end p: -6

1008 Begin SB-2

1015 collect SB-2(0-3)

6/27/23 Boys and Girls Home

NO PID readings

1036 collect sample SB-2(32-35)

Groundwater was not encountered. PVC installed, will be checked later.

1050 Arrive at SB-3 coordinates:

42.5138181, -96.3970306

Begin SG-3

start time: 1058 can: 120315

start p: -30 end p: -6

1100 Begin SB-3

1115 collect sample SB-3(0-3)

NO PID readings.

1127 collect sample SB-3(32-35)

Groundwater was not encountered. PVC installed, will be checked later.

1235 Arrive at SB-4 coordinates:

42.5132282, -96.3974822

1245 Begin SG-4

start time: 1251 can: 120301

start p: -30 end p: -7

1257 Begin SB-4

1310 collect sample SB-4(0-3)

and SB-4(0-3) DUP

NO PID readings.

1323 collect sample SB-4(32-35) in the rain.

4 6/27/23 Boys and Girls Home  
Groundwater not encountered.  
PVC installed, will check later.  
SB-4 was moved approximately  
15 feet east of the proposed  
location due to underground structures  
connected to the power plant  
building. ml

1345 Maintenance staff opened the  
irrigation well near the basketball  
court. The well was dry, and  
no water was available to  
sample from the spigot.

1350 Arrive at SB-5. coordinates:  
42.5133127, -96.39777763

1352 Begin SG-5  
start time: 1408 can: 120311  
start p: -30 end p: -5

1445 Begin SB-5

1455 collect sample SB-5(0-3)  
Encountered refusal at approximately  
18 feet bgs. Groundwater not  
encountered. No PVC set at this  
location. SB-5 was moved  
approximately 20 feet west of  
the proposed location due to a  
storm drain and a partially

6/27/23 Boys and Girls Home

5

Submerged concrete slab.

1504 collect sample SB-5(15-18)

NO PID readings for SB-5.

1510 <sup>Arrive at</sup> Begin SB-6. coordinates:  
42.5131776, -96.3977759

1510 Begin SG-6

start time: 1514 can: 120282

start p: -30 end p: -6

1518 Begin SB-6.

1527 collect sample SB-6(0-3)

NO PID readings

1542 collect sample SB-6(30-35)

Little to no recovery in the  
sleeve, so the sample had  
to be taken from the entire  
sleeve. Groundwater not encountered.  
PVC installed, will check later.

1600 Return to SB-1 to check for  
groundwater. Groundwater has  
not accumulated in SB-1.

1630 No further work today, end of day.

ml  
6/27/23

*Rite in the Rain.*



6 6/28/23 Boys and Girls Home

0800 IT members M. La Masney and T. Kaley arrive on-site with Henry and Jeff from plains. The temporary wells are all still dry, so plains is removing the PVC and filling with bentonite.

0853 Arrive at SB-7. coordinates:

42.5129519, -96.3977059

Begin SG-7

start time: 0905 can: 120245

start pr: -30 end pr: -7

0910 Begin SB-7

0918 collect sample SB-7(0-3)

NO PID hits down to 35 ft bgs. Fill debris observed at approximately 12-15 feet bgs, so the sample will be collected there.

0938 collect sample SB-7(12-15)

NO groundwater encountered at this location. PVC will not be installed.

0956 Arrive at SB-8. coordinates:

42.5123271, -96.3979573

Begin SG-8 start time: 1013

Can: 109117 start pr: -30 end pr: -3

6/28/23 Boys and Girls Home.

Can 109117 would not create a seal with the gague, so tubing was connected to the top and a gague/regulator was not used. starting pressure was inferred to be -30, and ending pressure was estimated by ear.

1018 Begin SB-8

1025 collect sample SB-8(0-10)

Due to little to no recovery, the sample had to be collected from 0-10 ft bgs to have enough material.

NO PID readings. PVC will not be installed at this location because groundwater was not encountered.

1047 collect sample SB-8(32-35)

1110 Arrive at SB-9. coordinates:

42.5127493, -96.3970970

Begin SG-9

start time: 1123 can: 120314

start pr: -30 end pr: -6

1227 Begin SB-9

1215 collect sample SB-9(2-5)

*Rite in the Rain.*

6/28/23 Boys and Girls Home

The first two feet consisted of mostly asphalt and concrete, so the sample was taken from 2-5 feet bgs.

1310 collect sample SB-9(32-35)

NO PID readings. Groundwater not encountered, no PVC installed.

1350 Arrive at SB-10. coordinates:

42.5125021, -96.3962481

Begin SG-10

start time: 1419 can: 120309

start p: -30 end p: -5

1420 Begin SB-10

1430 collect sample SB-10(0-3)

Due to little to no reactivity the sample has to be taken from 25-35 feet bgs. NO PID readings. Groundwater not encountered. NO PVC set at this location.

1510 collect sample SB-10(25-35)

1525 Arrive at SB-11. coordinates:

42.5123447, -96.3966001

Begin SG-11

start time: 1540 can: 120320

start p: -30 end p: -6

Soil samples will be collected

6/28/23 Boys and Girls Home

tomorrow morning.

1550 Arrive at SB-12. coordinates:

42.5123108, -96.3968455

Begin SG-12

start time: 1559 can: 120318

start p: -30 end p: -5

Soil samples will be collected tomorrow morning.

1640 Summa's taken to FedEx to be shipped back to ALS.

No further work today, end of day.

ml  
6/28/23



6/29/23 Boys and Girls Home

0800 TT members M. Lamasney and T. Kaley arrive on-site with Plains.

0805 Arrive at SB-11 to collect soil samples. Begin drilling

0820 collect sample SB-11(0-3)

PID reading of 13.4 ppm right below the surface.

PID reading of 3.2 ppm at approximately 29 feet lbs.

0900 collect sample SB-11(27-30)

NO groundwater encountered at this location. NO PVC installed.

0915 Arrive at SB-12. Begin drilling.

0926 collect sample SB-12(0-3)

NO PID readings. Ground water not encountered at this location. NO PVC installed.

0950 collect sample SB-12(32-35)

Finished sampling.

1000 Complete remaining Hazardous Materials survey tasks.

1600 End of day. Samples remain on ice.

ML 6/29/23

6/30/23 Boys and Girls Home

0900 TT members M. Lamasney and T. Kaley ~~departing~~ to KC office.

1350 Arrive at KC office. Begin sorting samples that need to be shipped directly Eurofins (TEH) due to the issues of Saturday delivery and a holiday next week.

1800 Sample coolers with fresh ice delivered to FedEx to be sent to Eurofins and ALS. PID taken to UPS for return to Pine. NO further work today, end of day.

ML  
6/30/23

# Boring Log Form

Site Name: Boys and Girls Home Boring Number: SB-1

Date Drilled (Start/Finish): 6/27/23

Drilling Method: DPT

Drilling Company: Plains

Elevation: \_\_\_\_\_

Total Depth: 35'

Coordinates: \_\_\_\_\_

Depth to Water: \_\_\_\_\_

Geologist: Thomas Kaley

Project Number: \_\_\_\_\_

Weather: \_\_\_\_\_

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
0-5		55%	0 ↓	5	Bln ↓			Brown, crumbly, silty clay, soft
5-10		45%	0 ↓	10	Bln ↓ Lgh Bln			Same as above only harder, becomes lgh bln near 9 ft bgs and becomes soft
10-15		50%	0 ↓	15	Lgh Bln ↓			Lgh bln, soft, crumbly clay, no pebbles
15-20		75%	0 ↓	20	Lgh Bln ↓			Same as above
20-25		100%	0 ↓	25	Bln ↓			Same as above only bln color
25-30		90%	0 ↓	30	Lgh Bln ↓			Same as above, lgh bln in color
30-35			0 ↓	35				



# Boring Log Form

Site Name: Boys and Girls Home Boring Number: SB-1

Date Drilled (Start/Finish): 6/27/23

Drilling Method: DPT

Drilling Company: Plains

Elevation: \_\_\_\_\_

Total Depth: 35'

Coordinates:

Geologist: Thomas Kaley

**Depth to Water:**

Project Number: \_\_\_\_\_

**Weather:**[illegible]

# Boring Log Form

Site Name: Boys and Girls club

Boring Number: SB-2

Date Drilled (Start/Finish): 6/27/23

Drilling Method: DPT

Drilling Company: Plains

Elevation: \_\_\_\_\_

Total Depth: 35'

Coordinates: \_\_\_\_\_

Depth to Water: \_\_\_\_\_

Geologist: T. Valley

Project Number: \_\_\_\_\_

Weather: \_\_\_\_\_

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
0 - 5		00910	0	5	Blk Lgh Bln			Lgh Bln, very crumbly, fine silty clay. Hard West surface, become soft at 3 ft bgs.
5 - 10		25%	0	10	Lgh Bln			Very soft, Lgh Bln, silty clay. crumbles, no plasticity.
10 - 15		25%	0	15	Lgh Bln			Same as above.
15 - 20		40%	0	20	Lgh Bln			Same as above, very dry.
20 - 25		75%	0	25	Lgh Bln			Same as above.
25 - 30		60%	0	30	Lgh Bln			Same as above.

# Boring Log Form

Site Name: Boys and Girls Home Boring Number: SB 2

Date Drilled (Start/Finish): 6/27/23

**Drilling Method:** DPT

Drilling Company: Plains

**Elevation:** \_\_\_\_\_

Total Depth: 55'

Coordinates: \_\_\_\_\_

Geologist: Thomas Kaley

**Depth to Water:** \_\_\_\_\_

**Project Number:** \_\_\_\_\_

**Weather:**[illegible]

# Boring Log Form

Site Name: Boys and Girls Home Boring Number: SR-3

Date Drilled (Start/Finish): 6/27/23

Drilling Method: DPT

Drilling Company: Plains

Elevation: \_\_\_\_\_

Total Depth: 35'

Coordinates: \_\_\_\_\_

Depth to Water: \_\_\_\_\_

Geologist: T. Vally

Project Number: \_\_\_\_\_

Weather: \_\_\_\_\_

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
0   5		40% ↓	0 ↓	5	Brn ↓			1 ft of top soil, then soft, Brn, silty clay. Dry, crumbles, no plasticity. Small piece of brick at approx 3 ft
5   10		35% ↓	0 ↓	10	Lgh Brn ↓			Lgh brn, soft, dry, silty clay, crumbles. No plasticity
10   15		35% ↓	0 ↓	15	Lgh Brn ↓			Same as above
15   20		32% ↓	0 ↓	20	Lgh Brn ↓			Same as above
20   25		50% ↓	0 ↓	25	Lgh Brn ↓			Same as above
25   30		40% ↓	0 ↓	30	Lgh Brn ↓			Same as above.

## Boring Log Form

Site Name: Boys and Girls Home Boring Number: SB-3

Date Drilled (Start/Finish): 6/27/23

Drilling Method: DPT

Drilling Company: Plains

Elevation: \_\_\_\_\_ Total Depth: 35'

Total Depth: 35'

Coordinates:

Depth to Water: \_\_\_\_\_ Geologist: J. Baker

Geologist: J. Baker

Project Number: \_\_\_\_\_ Weather: \_\_\_\_\_

Weather:

[illegible]

## Boring Log Form

Site Name: Boys and Girls Home.

Boring Number: 58-4

Date Drilled (Start/Finish): 6/27/23

Drilling Method: DPT

Drilling Company: Plains

Elevation: \_\_\_\_\_

Total Depth: 35'

Coordinates: \_\_\_\_\_

Depth to Water: \_\_\_\_\_

Geologist: T. Kaley

Project Number: \_\_\_\_\_

Weather: \_\_\_\_\_

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
0 1 5		80% ↓	0 ↓	5	Lgh Bln ↓			6 inches of asphalt, then very soft Lgh Bln, silty clay. no plasticity.
5 1 10		50% ↓	0 ↓	10	Bln ↓			Bln, soft silty clay, slightly more sand 7 ft bgs. No plasticity zone. Small clasts embedded within
10 1 15		40% ↓	0 ↓	15	Bln ↓			Same as above with no clasts seen.
15 1 20		50% ↓	0 ↓	20	Lgh Bln ↓			Light Brown, soft, dry, silty clay. crumbles, no plasticity
20 1 25		70% ↓	0 ↓	25	Lgh Bln ↓			Same as above
25 1 30		70% ↓		30	Lgh Bln ↓			Same as above.
		3		30	↓			

# Boring Log Form

Site Name: Boys and Girls Home Boring Number: SB-4

Date Drilled (Start/Finish): 6/27/23

Drilling Method: DPT

Drilling Company: Plains

**Elevation:** \_\_\_\_\_

Total Depth: 35'

Coordinates: \_\_\_\_\_

Geologist: G. Kalm

**Depth to Water:** \_\_\_\_\_

**Project Number:** \_\_\_\_\_

**Weather:**

[illegible]

# Boring Log Form

Site Name: Boys and Girls Home

Boring Number: SB-5

Date Drilled (Start/Finish): 6/27/23

Drilling Method: DPT

Drilling Company: Elains

Elevation: \_\_\_\_\_

Total Depth: 18.5'

Coordinates: \_\_\_\_\_

Depth to Water: \_\_\_\_\_

Geologist: T. Kelly

Project Number: \_\_\_\_\_

Weather: \_\_\_\_\_

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
0			0		Lgh Bln			6 inches of top soil, then blk and grey soil, to approx 2 ft bgs. Becomes slightly mld, bln, silty clay. No plasticity.
5		75%	↓	5	Blk Bln			
5			0		Lgh Bln			Lgh Bln, dry, crumbly, silty clay. No plasticity.
1		50%	↓					
10			↓	10				
10			↓		Lgh Bln			Same as above, red chunk of brick found at approx 12 ft bgs.
1		80%	↓					
15			↓	15				
15			0		Lgh Bln			Same as above, no brick seen.
1		75%	↓					
20			↓	18.5				



# Boring Log Form

Site Name: Boys and Girls Home

Boring Number: SB-6

Date Drilled (Start/Finish): 6/27/23

Drilling Method: DPT

Drilling Company: Plains

Elevation: \_\_\_\_\_

Total Depth: 35'

Coordinates: \_\_\_\_\_

Depth to Water: \_\_\_\_\_

Geologist: T. Vally

Project Number: \_\_\_\_\_

Weather: \_\_\_\_\_

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
0			0		Bsn			6 inches of top soil, the brown, dry silty clay becoming light brown at approx 4 ft, lbs. Soft and no plasticity throughout.
5		50%	↓	5	lgh Bsn			
5			0		lgh Bsn			lgh Brown, Dry, Silty Clay. No plasticity. clumps when touched.
1		50%	↓	10	↓			Small chunk of wire or pebble in soil within dirt.
10			0		lgh Bsn			Same as above, Little to no recovery.
10		25%	↓	15	↓			
15			0		lgh Bsn			Same as above. Little to no recovery.
15		20%	↓	20	↓			
20			0		lgh Bsn			Same as above. Little to no recovery.
20		20%	↓	25	↓			
25			0		lgh Bsn			Same as above. Very little recovery.
25		30%	↓	30	↓			
30			0		↓			

# Boring Log Form

Site Name: Boys and Girls Home Boring Number: SB-6

Date Drilled (Start/Finish): 6/27/23

Drilling Method: Opt

Drilling Company: Plains

Elevation:

**Total Depth:** 35'

Coordinates:

Geologist: T. Kaley

**Depth to Water:**

Project Number:

**Weather:**[illegible]

## Boring Log Form

Site Name: BOYS and GIRLS HOME Boring Number: SB-7

Date Drilled (Start/Finish): 6/28/23

Drilling Method: DPT

Drilling Company: Plains

Elevation: \_\_\_\_\_

Total Depth: 35'

Coordinates: \_\_\_\_\_

Depth to Water: \_\_\_\_\_

Geologist: T. Kaley

Project Number: \_\_\_\_\_

Weather: \_\_\_\_\_

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
0-5		50%	0	5	Lgh Bln Blk Lgh Bln			6 inches of topsoil, then approx 6 inches of blk debris, possible asphalt or soil. Then light brown, dry, silty clay. No plasticity.
5-10		70%	0	10	Lgh Bln			Light brown, crumbly, dry, silty clay, soft. No plasticity.
10-15		70%	0	15	Lgh Bln			Same as above to approx 13.5 ft bgs then black debris of fill material with small chunks of brick within.
15-20		45%	0	20	Blk Blk Lgh Bln			Blk, fill debris for first foot to approx 16 ft bgs. Then light brown dry, crumbly clay, silty no plasticity.
20-25		50%	0	25	Lgh Bln			Light brown silty clay. no plasticity soft, dry, crumbles when touched.
25-30		70%	0	30	Lgh Bln			Same as above
30-35				35				

## Boring Log Form

Site Name: Boys and Girls Home Boring Number: SB-7

Date Drilled (Start/Finish): 6/28/23

**Drilling Method:** DPT

Drilling Company: plains

Elevation: \_\_\_\_\_

Total Depth: 35'

Coordinates: \_\_\_\_\_

Geologist: T. Valley

**Depth to Water:** \_\_\_\_\_

**Project Number:** \_\_\_\_\_

## Weather:

[illegible]

# Boring Log Form

Site Name: Boys and Girls Home

Boring Number: 5B-8

Date Drilled (Start/Finish): 6/28/23

Drilling Method: DPT

Drilling Company: Plains

Elevation: \_\_\_\_\_

Total Depth: 35'

Coordinates: \_\_\_\_\_

Depth to Water: \_\_\_\_\_

Geologist: T. Kalay

Project Number: \_\_\_\_\_

Weather: \_\_\_\_\_

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
0		25%	0		Bgn			Little to no gravel for first 10 ft. Bgn silty clay. Section of concrete near surface.
5				5				
5		20%						
10				10				
10		25%			Lgh Bgn			Little to no gravel, light brown, soft, dry clay, silty, crumbles when touched. No plasticity.
15				15				
15			0		Bgn			Same as above. Brown in color.
20		40%						
20			0	20				
20		40%			Bgn			Same as above
25				25				
25			0		Lgh Bgn			
30		75%						
30				30				

## Boring Log Form

Site Name: Boys and Girls Home Boring Number: SB-8

Date Drilled (Start/Finish): 6/28/23

**Drilling Method:** DPT

Drilling Company: plains

Elevation: \_\_\_\_\_

Total Depth: 35'

Coordinates: \_\_\_\_\_

Geologist: T. Valen

**Depth to Water:** \_\_\_\_\_

Project Number: \_\_\_\_\_

**Weather:**[illegible]

# Boring Log Form

Site Name: Boys and girls home Boring Number: JB-9

Date Drilled (Start/Finish): 6/28/23

Drilling Method: DPT

Drilling Company: Plains

Elevation: \_\_\_\_\_

Total Depth: 35'

Coordinates: \_\_\_\_\_

Depth to Water: \_\_\_\_\_

Geologist: T. Koley

Project Number: \_\_\_\_\_

Weather: \_\_\_\_\_

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
0			0		Bn			Asphalt, concrete and fill to approx 3 ft
1		50%	↓		↓			by 5. Then brown, soft clay. High plasticity
5			↓	5	↓			
5			0		Red			Latic recovery. Materials retrieved were
1		30%	↓		↓			fill material mostly brick with
10			↓	10	↓			concrete also present
10			0		Light Bn			Light brown, soft, silty, silty clay. crumbles
1		35%	↓		↓			when touched, no plasticity
15			↓	15	↓			
15			0		Bn			Same as above except Brown in color
1		40%	↓		↓			
20			↓	20	↓			
20			0		Bn			Same as above
1		70%	↓		↓			
25			↓	25	↓			
25			0		Bn			Same as above
1		60%	↓		↓			
30			↓	30	↓			



# Boring Log Form

Site Name: Boys and Girls Home Boring Number: SB-9

Date Drilled (Start/Finish): 6/28/23

**Drilling Method:** DPT

Drilling Company: Plains

Elevation: \_\_\_\_\_

Total Depth: 35

Coordinates: \_\_\_\_\_

Geologist: T. Kaley

**Depth to Water:** \_\_\_\_\_

Project Number: \_\_\_\_\_

**Weather:**[illegible]

# Boring Log Form

Site Name: Boys and Girls Home

Boring Number: SB-10

Date Drilled (Start/Finish): 6/28/23

Drilling Method: DPT

Drilling Company: Plains

Elevation: \_\_\_\_\_

Total Depth: 35'

Coordinates: \_\_\_\_\_

Depth to Water: \_\_\_\_\_

Geologist: T. Kaley

Project Number: \_\_\_\_\_

Weather: \_\_\_\_\_

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
0			0		Bln			6 inches of topsoil, then somewhat
1		35%	↓		↓			hard, Bln, silty clay. No plasticity.
5			↓	5	↓			
5					Lgh Bln			No recovery
1		5%	N/A		↓			
10				10	↓			
10					Lgh Bln			No recovery
1		5%	N/A		↓			
15				15	↓			
15			0		Lgh Bln			Little to no recovery. Lgh Bln, silty clay.
1		15%	↓		↓			dry
20				20	↓			
20			0		Lgh Bln			Same as above
1		15%	↓		↓			
25			↓	25	↓			
25			0		Lgh Bln			Same as above
1		15%	↓		↓			
30			↓	30	↓			

# Boring Log Form

Site Name: Boys and Girls Home Boring Number: SB-10

Date Drilled (Start/Finish): 6/28/23

**Drilling Method:** O P T

Drilling Company: plains

**Elevation:**

Total Depth: 35'

**Coordinates:**

**Depth to Water:**

Geologist: G. Haley

**Project Number:****Weather:**[illegible]

# Boring Log Form

Site Name: Boys and Girls Home Boring Number: 5B-11

Date Drilled (Start/Finish): 6/29/23

Drilling Method: DPT

Drilling Company: plains

Elevation: \_\_\_\_\_

Total Depth: 55'

Coordinates: \_\_\_\_\_

Depth to Water: \_\_\_\_\_

Geologist: T. Kaley

Project Number: \_\_\_\_\_

Weather: \_\_\_\_\_

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
0			13.4		Bln			6 inches of top soil, then Bln, soft silty clay. No plasticity
1		78%	0		↓			
5			↓	5	↓			
5			0		Lgh Bln			Light brown, silty clay. soft. no plasticity
1		80%	1.2		↓			
10			0	10	↓			
10			0		Lgh Bln			Same as above
1		90%	↓		↓			
15			↓	15	↓			
15			0		Lgh Bln			Same as above
1		98%	1.8		↓			
			0.4		↓			
20			0.9	20	↓			
20			0		Lgh Bln			Same as above
1		99%	0.9		↓			
			0.9		↓			
25			0.5	25	↓			
25			0.7		Lgh Bln			Same as above
25			3.1		↓			
1		99%	0.9		↓			
30			3.2	30	↓			
			0.5		↓			

# Boring Log Form

Site Name: Boys and Girls Home Boring Number: S13-11

Date Drilled (Start/Finish): 6/29/23

Drilling Method: DPT

Drilling Company: plains

**Elevation:**

Total Depth: 35'

**Coordinates:**

Geologist: T. Valley

**Depth to Water:**

Project Number:

**Weather:**[illegible]

# Boring Log Form

Site Name: Boy and Girls Home

Boring Number: SB-12

Date Drilled (Start/Finish): 6/29/23

Drilling Method: DPT

Drilling Company: Plains

Elevation: \_\_\_\_\_

Total Depth: 35'

Coordinates: \_\_\_\_\_

Depth to Water: \_\_\_\_\_

Geologist: T. Valley

Project Number: \_\_\_\_\_

Weather: \_\_\_\_\_

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
0			0		Blk			6 inches of top soil, then Lgh Blk, soft, crumbly, silty clay. Dry with no plasticity
1		72%	↓		↓			
5			↓	5	Lgh Blk			
5			0		Lgh Blk			Lgh Blk, soft, crumbly, silty clay. Dry, no plasticity
1		85%	↓		↓			
10			↓	10	Lgh Blk			Same as above
1		85%	↓		↓			
15			↓	15	Lgh Blk			Same as above
15			0		Lgh Blk			
1		90%	↓		↓			
20			↓	20	Lgh Blk			Same as above
20			0		Lgh Blk			
1		95%	↓		↓			
25			↓	25	Lgh Blk			Same as above
25			0		Lgh Blk			
1		95%	↓		↓			
30			↓	30	↓			

# Boring Log Form

Site Name: Boys and Girls Home Boring Number: SB-12

Date Drilled (Start/Finish): 6/29/23

Drilling Method: OPT

Drilling Company: Plains

**Elevation:**

Total Depth: 35'

**Coordinates:**

Geologist: T. Vaidy

**Depth to Water:**

**Weather:****Project Number:**[illegible]



## **APPENDIX D**

### **ANALYTICAL DATA PACKAGES AND DATA VALIDATION REPORTS**



18-Jul-2023

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

Re: **Boys & Girls Home; 103G65210190.17.03**

Work Order: **23061379**

Dear Kaitlyn,

ALS Environmental received 12 samples on 30-Jun-2023 12:24 PM for the analyses presented in the following report.

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

QC sample results for this data met 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 Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 61.

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

Sincerely,

**Danielle Strasinger**

Electronically approved by: Danielle Strasinger

Danielle Strasinger  
Project Manager

## Report of Laboratory Analysis

ADDRESS 4388 Glendale Milford Rd Cincinnati, OH 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

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

Environmental

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

# ALS Environmental

Date: 18-Jul-23

**Client:** Tetra Tech  
**Project:** Boys & Girls Home; 103G65210190.17.03  
**Work Order:** 23061379

## 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>
23061379-01	SG-1	Air		6/27/2023 08:53	6/30/2023 12:24	<input type="checkbox"/>
23061379-02	SG-2	Air		6/27/2023 10:06	6/30/2023 12:24	<input type="checkbox"/>
23061379-03	SG-3	Air		6/27/2023 10:58	6/30/2023 12:24	<input type="checkbox"/>
23061379-04	SG-4	Air		6/27/2023 12:51	6/30/2023 12:24	<input type="checkbox"/>
23061379-05	SG-5	Air		6/27/2023 14:08	6/30/2023 12:24	<input type="checkbox"/>
23061379-06	SG-6	Air		6/27/2023 15:14	6/30/2023 12:24	<input type="checkbox"/>
23061379-07	SG-7	Air		6/28/2023 09:05	6/30/2023 12:24	<input type="checkbox"/>
23061379-08	SG-8	Air		6/28/2023 10:13	6/30/2023 12:24	<input type="checkbox"/>
23061379-09	SG-9	Air		6/28/2023 11:23	6/30/2023 12:24	<input type="checkbox"/>
23061379-10	SG-10	Air		6/28/2023 14:19	6/30/2023 12:24	<input type="checkbox"/>
23061379-11	SG-11	Air		6/28/2023 15:40	6/30/2023 12:24	<input type="checkbox"/>
23061379-12	SG-12	Air		6/28/2023 15:59	6/30/2023 12:24	<input type="checkbox"/>

## ALS Environmental

Date: 18-Jul-23

**Client:** Tetra Tech  
**Project:** Boys & Girls Home; 103G65210190.17.03  
**Work Order:** 23061379

## Case Narrative

---

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

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met 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.

Batch R218564, Method TO15\_VOC\_A, Sample 23061379-01a: Surrogate outside QA/QC limits due to siloxane interference

Batch R218564, Method TO15\_VOC\_A, Sample 23061379-02a: Surrogate outside QA/QC limits due to siloxane interference

Batch R218564, Method TO15\_VOC\_A, Sample 23061379-03a: Surrogate outside QA/QC limits due to siloxane interference

Batch R218564, Method TO15\_VOC\_A, Sample 23061379-04a: Surrogate outside QA/QC limits due to siloxane interference

Batch R218564, Method TO15\_VOC\_A, Sample 23061379-05a: Surrogate outside QA/QC limits due to siloxane interference

Batch R218564, Method TO15\_VOC\_A, Sample 23061379-09a: Surrogate outside QA/QC limits due to siloxane interference

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Work Order: 23061379

Sample ID: SG-1

Lab ID: 23061379-01

Collection Date: 6/27/2023 08:53 AM

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>			Analyst: LAK
1,1,1-Trichloroethane	ND		0.50	ppbv	1	7/13/2023 10:03 PM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	7/13/2023 10:03 PM
1,1,2-Trichloroethane	ND		0.20	ppbv	1	7/13/2023 10:03 PM
1,1-Dichloroethane	ND		0.50	ppbv	1	7/13/2023 10:03 PM
1,1-Dichloroethene	ND		0.50	ppbv	1	7/13/2023 10:03 PM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	7/13/2023 10:03 PM
<b>1,2,4-Trimethylbenzene</b>	<b>1.9</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 10:03 PM
1,2-Dibromoethane	ND		0.20	ppbv	1	7/13/2023 10:03 PM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	7/13/2023 10:03 PM
1,2-Dichloroethane	ND		0.20	ppbv	1	7/13/2023 10:03 PM
1,2-Dichloropropane	ND		0.50	ppbv	1	7/13/2023 10:03 PM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	7/13/2023 10:03 PM
<b>1,3-Butadiene</b>	<b>0.46</b>		<b>0.20</b>	<b>ppbv</b>	1	7/13/2023 10:03 PM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	7/13/2023 10:03 PM
1,4-Dichlorobenzene	ND		0.20	ppbv	1	7/13/2023 10:03 PM
1,4-Dioxane	ND		0.50	ppbv	1	7/13/2023 10:03 PM
<b>2-Butanone</b>	<b>1.9</b>		<b>1.0</b>	<b>ppbv</b>	1	7/13/2023 10:03 PM
2-Hexanone	ND		1.0	ppbv	1	7/13/2023 10:03 PM
<b>2-Propanol</b>	<b>1.8</b>		<b>1.0</b>	<b>ppbv</b>	1	7/13/2023 10:03 PM
4-Ethyltoluene	ND		0.50	ppbv	1	7/13/2023 10:03 PM
<b>4-Methyl-2-pentanone</b>	<b>1.4</b>		<b>1.0</b>	<b>ppbv</b>	1	7/13/2023 10:03 PM
<b>Acetone</b>	<b>20</b>	E	<b>1.0</b>	<b>ppbv</b>	1	7/13/2023 10:03 PM
<b>Benzene</b>	<b>0.68</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 10:03 PM
Benzyl chloride	ND		0.50	ppbv	1	7/13/2023 10:03 PM
Bromodichloromethane	ND		0.20	ppbv	1	7/13/2023 10:03 PM
Bromoform	ND		0.50	ppbv	1	7/13/2023 10:03 PM
Bromomethane	ND		0.50	ppbv	1	7/13/2023 10:03 PM
Carbon disulfide	ND		0.50	ppbv	1	7/13/2023 10:03 PM
Carbon tetrachloride	ND		0.50	ppbv	1	7/13/2023 10:03 PM
Chlorobenzene	ND		0.50	ppbv	1	7/13/2023 10:03 PM
Chloroethane	ND		0.50	ppbv	1	7/13/2023 10:03 PM
<b>Chloroform</b>	<b>0.26</b>		<b>0.20</b>	<b>ppbv</b>	1	7/13/2023 10:03 PM
Chloromethane	ND		0.50	ppbv	1	7/13/2023 10:03 PM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	7/13/2023 10:03 PM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	7/13/2023 10:03 PM
Cumene	ND		0.50	ppbv	1	7/13/2023 10:03 PM
Cyclohexane	ND		0.50	ppbv	1	7/13/2023 10:03 PM
Dibromochloromethane	ND		0.50	ppbv	1	7/13/2023 10:03 PM
Dichlorodifluoromethane	ND		0.50	ppbv	1	7/13/2023 10:03 PM

Note:



# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Work Order: 23061379

Sample ID: SG-1

Lab ID: 23061379-01

Collection Date: 6/27/2023 08:53 AM

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	7/13/2023 10:03 PM
<b>Ethylbenzene</b>	<b>1.4</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 10:03 PM
Freon 113	ND		0.50	ppbv	1	7/13/2023 10:03 PM
Freon 114	ND		0.50	ppbv	1	7/13/2023 10:03 PM
<b>Heptane</b>	<b>0.99</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 10:03 PM
Hexachlorobutadiene	ND		0.20	ppbv	1	7/13/2023 10:03 PM
<b>Hexane</b>	<b>1.0</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 10:03 PM
<b>m,p-Xylene</b>	<b>5.6</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 10:03 PM
Methylene chloride	ND		2.0	ppbv	1	7/13/2023 10:03 PM
MTBE	ND		0.50	ppbv	1	7/13/2023 10:03 PM
<b>Naphthalene</b>	<b>0.34</b>		<b>0.20</b>	<b>ppbv</b>	1	7/13/2023 10:03 PM
<b>o-Xylene</b>	<b>1.9</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 10:03 PM
<b>Propene</b>	<b>16</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 10:03 PM
Styrene	ND		0.50	ppbv	1	7/13/2023 10:03 PM
<b>Tetrachloroethene</b>	<b>1.6</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 10:03 PM
Tetrahydrofuran	ND		0.50	ppbv	1	7/13/2023 10:03 PM
<b>Toluene</b>	<b>3.2</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 10:03 PM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	7/13/2023 10:03 PM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	7/13/2023 10:03 PM
Trichloroethene	ND		0.20	ppbv	1	7/13/2023 10:03 PM
Trichlorofluoromethane	ND		0.50	ppbv	1	7/13/2023 10:03 PM
Vinyl acetate	ND		1.0	ppbv	1	7/13/2023 10:03 PM
Vinyl chloride	ND		0.50	ppbv	1	7/13/2023 10:03 PM
Surr: Bromofluorobenzene	245	S	60-140	%REC	1	7/13/2023 10:03 PM
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>		Analyst: <b>LAK</b>	
1,1,1-Trichloroethane	ND		2.73	µg/m3	1	7/13/2023 10:03 PM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	7/13/2023 10:03 PM
1,1,2-Trichloroethane	ND		1.09	µg/m3	1	7/13/2023 10:03 PM
1,1-Dichloroethane	ND		2.02	µg/m3	1	7/13/2023 10:03 PM
1,1-Dichloroethene	ND		1.98	µg/m3	1	7/13/2023 10:03 PM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	7/13/2023 10:03 PM
<b>1,2,4-Trimethylbenzene</b>	<b>9.34</b>		<b>2.46</b>	<b>µg/m3</b>	1	7/13/2023 10:03 PM
1,2-Dibromoethane	ND		1.54	µg/m3	1	7/13/2023 10:03 PM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	7/13/2023 10:03 PM
1,2-Dichloroethane	ND		0.809	µg/m3	1	7/13/2023 10:03 PM
1,2-Dichloropropane	ND		2.31	µg/m3	1	7/13/2023 10:03 PM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	7/13/2023 10:03 PM
<b>1,3-Butadiene</b>	<b>1.02</b>		<b>0.442</b>	<b>µg/m3</b>	1	7/13/2023 10:03 PM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	7/13/2023 10:03 PM
1,4-Dichlorobenzene	ND		1.20	µg/m3	1	7/13/2023 10:03 PM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-1

Collection Date: 6/27/2023 08:53 AM

Work Order: 23061379

Lab ID: 23061379-01

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1.80	µg/m3	1	7/13/2023 10:03 PM
<b>2-Butanone</b>	<b>5.57</b>		<b>2.95</b>	<b>µg/m3</b>	1	7/13/2023 10:03 PM
2-Hexanone	ND		4.10	µg/m3	1	7/13/2023 10:03 PM
<b>2-Propanol</b>	<b>4.55</b>		<b>2.46</b>	<b>µg/m3</b>	1	7/13/2023 10:03 PM
4-Ethyltoluene	ND		2.46	µg/m3	1	7/13/2023 10:03 PM
<b>4-Methyl-2-pentanone</b>	<b>5.74</b>		<b>4.10</b>	<b>µg/m3</b>	1	7/13/2023 10:03 PM
<b>Acetone</b>	<b>47.8</b>	E	<b>2.38</b>	<b>µg/m3</b>	1	7/13/2023 10:03 PM
<b>Benzene</b>	<b>2.17</b>		<b>1.60</b>	<b>µg/m3</b>	1	7/13/2023 10:03 PM
Benzyl chloride	ND		2.55	µg/m3	1	7/13/2023 10:03 PM
Bromodichloromethane	ND		1.34	µg/m3	1	7/13/2023 10:03 PM
Bromoform	ND		5.17	µg/m3	1	7/13/2023 10:03 PM
Bromomethane	ND		1.94	µg/m3	1	7/13/2023 10:03 PM
Carbon disulfide	ND		1.56	µg/m3	1	7/13/2023 10:03 PM
Carbon tetrachloride	ND		3.15	µg/m3	1	7/13/2023 10:03 PM
Chlorobenzene	ND		2.30	µg/m3	1	7/13/2023 10:03 PM
Chloroethane	ND		1.32	µg/m3	1	7/13/2023 10:03 PM
<b>Chloroform</b>	<b>1.27</b>		<b>0.976</b>	<b>µg/m3</b>	1	7/13/2023 10:03 PM
Chloromethane	ND		1.03	µg/m3	1	7/13/2023 10:03 PM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/13/2023 10:03 PM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/13/2023 10:03 PM
Cumene	ND		2.46	µg/m3	1	7/13/2023 10:03 PM
Cyclohexane	ND		1.72	µg/m3	1	7/13/2023 10:03 PM
Dibromochloromethane	ND		4.26	µg/m3	1	7/13/2023 10:03 PM
Dichlorodifluoromethane	ND		2.47	µg/m3	1	7/13/2023 10:03 PM
Ethyl acetate	ND		1.80	µg/m3	1	7/13/2023 10:03 PM
<b>Ethylbenzene</b>	<b>6.21</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/13/2023 10:03 PM
Freon 113	ND		3.83	µg/m3	1	7/13/2023 10:03 PM
Freon 114	ND		3.50	µg/m3	1	7/13/2023 10:03 PM
<b>Heptane</b>	<b>4.06</b>		<b>2.05</b>	<b>µg/m3</b>	1	7/13/2023 10:03 PM
Hexachlorobutadiene	ND		2.13	µg/m3	1	7/13/2023 10:03 PM
<b>Hexane</b>	<b>3.60</b>		<b>1.76</b>	<b>µg/m3</b>	1	7/13/2023 10:03 PM
<b>m,p-Xylene</b>	<b>24.5</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/13/2023 10:03 PM
Methylene chloride	ND		7.00	µg/m3	1	7/13/2023 10:03 PM
MTBE	ND		1.80	µg/m3	1	7/13/2023 10:03 PM
<b>Naphthalene</b>	<b>1.78</b>		<b>1.05</b>	<b>µg/m3</b>	1	7/13/2023 10:03 PM
<b>o-Xylene</b>	<b>8.08</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/13/2023 10:03 PM
<b>Propene</b>	<b>27.4</b>		<b>0.861</b>	<b>µg/m3</b>	1	7/13/2023 10:03 PM
Styrene	ND		2.13	µg/m3	1	7/13/2023 10:03 PM
<b>Tetrachloroethene</b>	<b>11.1</b>		<b>3.39</b>	<b>µg/m3</b>	1	7/13/2023 10:03 PM
Tetrahydrofuran	ND		1.47	µg/m3	1	7/13/2023 10:03 PM

Note:

## ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Work Order: 23061379

Sample ID: SG-1

Lab ID: 23061379-01

Collection Date: 6/27/2023 08:53 AM

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Toluene</b>	<b>12.2</b>		<b>1.88</b>	<b>µg/m3</b>	1	7/13/2023 10:03 PM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/13/2023 10:03 PM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/13/2023 10:03 PM
Trichloroethene	ND		1.07	µg/m3	1	7/13/2023 10:03 PM
Trichlorofluoromethane	ND		2.81	µg/m3	1	7/13/2023 10:03 PM
Vinyl acetate	ND		3.52	µg/m3	1	7/13/2023 10:03 PM
Vinyl chloride	ND		1.28	µg/m3	1	7/13/2023 10:03 PM
Surr: Bromofluorobenzene	245	S	60-140	%REC	1	7/13/2023 10:03 PM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-2

Collection Date: 6/27/2023 10:06 AM

Work Order: 23061379

Lab ID: 23061379-02

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>		Analyst: LAK	
1,1,1-Trichloroethane	ND		0.50	ppbv	1	7/13/2023 10:48 PM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	7/13/2023 10:48 PM
1,1,2-Trichloroethane	ND		0.20	ppbv	1	7/13/2023 10:48 PM
1,1-Dichloroethane	ND		0.50	ppbv	1	7/13/2023 10:48 PM
1,1-Dichloroethene	ND		0.50	ppbv	1	7/13/2023 10:48 PM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	7/13/2023 10:48 PM
<b>1,2,4-Trimethylbenzene</b>	<b>1.2</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 10:48 PM
1,2-Dibromoethane	ND		0.20	ppbv	1	7/13/2023 10:48 PM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	7/13/2023 10:48 PM
1,2-Dichloroethane	ND		0.20	ppbv	1	7/13/2023 10:48 PM
1,2-Dichloropropane	ND		0.50	ppbv	1	7/13/2023 10:48 PM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	7/13/2023 10:48 PM
<b>1,3-Butadiene</b>	<b>0.39</b>		<b>0.20</b>	<b>ppbv</b>	1	7/13/2023 10:48 PM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	7/13/2023 10:48 PM
1,4-Dichlorobenzene	ND		0.20	ppbv	1	7/13/2023 10:48 PM
1,4-Dioxane	ND		0.50	ppbv	1	7/13/2023 10:48 PM
<b>2-Butanone</b>	<b>2.0</b>		<b>1.0</b>	<b>ppbv</b>	1	7/13/2023 10:48 PM
2-Hexanone	ND		1.0	ppbv	1	7/13/2023 10:48 PM
<b>2-Propanol</b>	<b>1.2</b>		<b>1.0</b>	<b>ppbv</b>	1	7/13/2023 10:48 PM
4-Ethyltoluene	ND		0.50	ppbv	1	7/13/2023 10:48 PM
4-Methyl-2-pentanone	ND		1.0	ppbv	1	7/13/2023 10:48 PM
<b>Acetone</b>	<b>17</b>		<b>1.0</b>	<b>ppbv</b>	1	7/13/2023 10:48 PM
<b>Benzene</b>	<b>0.56</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 10:48 PM
Benzyl chloride	ND		0.50	ppbv	1	7/13/2023 10:48 PM
Bromodichloromethane	ND		0.20	ppbv	1	7/13/2023 10:48 PM
Bromoform	ND		0.50	ppbv	1	7/13/2023 10:48 PM
Bromomethane	ND		0.50	ppbv	1	7/13/2023 10:48 PM
Carbon disulfide	ND		0.50	ppbv	1	7/13/2023 10:48 PM
Carbon tetrachloride	ND		0.50	ppbv	1	7/13/2023 10:48 PM
Chlorobenzene	ND		0.50	ppbv	1	7/13/2023 10:48 PM
Chloroethane	ND		0.50	ppbv	1	7/13/2023 10:48 PM
<b>Chloroform</b>	<b>0.33</b>		<b>0.20</b>	<b>ppbv</b>	1	7/13/2023 10:48 PM
Chloromethane	ND		0.50	ppbv	1	7/13/2023 10:48 PM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	7/13/2023 10:48 PM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	7/13/2023 10:48 PM
Cumene	ND		0.50	ppbv	1	7/13/2023 10:48 PM
Cyclohexane	ND		0.50	ppbv	1	7/13/2023 10:48 PM
Dibromochloromethane	ND		0.50	ppbv	1	7/13/2023 10:48 PM
Dichlorodifluoromethane	ND		0.50	ppbv	1	7/13/2023 10:48 PM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Work Order: 23061379

Sample ID: SG-2

Lab ID: 23061379-02

Collection Date: 6/27/2023 10:06 AM

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	7/13/2023 10:48 PM
<b>Ethylbenzene</b>	<b>0.95</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 10:48 PM
Freon 113	ND		0.50	ppbv	1	7/13/2023 10:48 PM
Freon 114	ND		0.50	ppbv	1	7/13/2023 10:48 PM
<b>Heptane</b>	<b>0.57</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 10:48 PM
Hexachlorobutadiene	ND		0.20	ppbv	1	7/13/2023 10:48 PM
<b>Hexane</b>	<b>0.77</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 10:48 PM
<b>m,p-Xylene</b>	<b>3.5</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 10:48 PM
Methylene chloride	ND		2.0	ppbv	1	7/13/2023 10:48 PM
MTBE	ND		0.50	ppbv	1	7/13/2023 10:48 PM
<b>Naphthalene</b>	<b>0.32</b>		<b>0.20</b>	<b>ppbv</b>	1	7/13/2023 10:48 PM
<b>o-Xylene</b>	<b>1.2</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 10:48 PM
<b>Propene</b>	<b>12</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 10:48 PM
Styrene	ND		0.50	ppbv	1	7/13/2023 10:48 PM
<b>Tetrachloroethene</b>	<b>1.1</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 10:48 PM
Tetrahydrofuran	ND		0.50	ppbv	1	7/13/2023 10:48 PM
<b>Toluene</b>	<b>1.6</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 10:48 PM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	7/13/2023 10:48 PM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	7/13/2023 10:48 PM
Trichloroethene	ND		0.20	ppbv	1	7/13/2023 10:48 PM
Trichlorofluoromethane	ND		0.50	ppbv	1	7/13/2023 10:48 PM
Vinyl acetate	ND		1.0	ppbv	1	7/13/2023 10:48 PM
Vinyl chloride	ND		0.50	ppbv	1	7/13/2023 10:48 PM
Surr: Bromofluorobenzene	166	S	60-140	%REC	1	7/13/2023 10:48 PM
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>		Analyst: <b>LAK</b>	
1,1,1-Trichloroethane	ND		2.73	µg/m3	1	7/13/2023 10:48 PM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	7/13/2023 10:48 PM
1,1,2-Trichloroethane	ND		1.09	µg/m3	1	7/13/2023 10:48 PM
1,1-Dichloroethane	ND		2.02	µg/m3	1	7/13/2023 10:48 PM
1,1-Dichloroethene	ND		1.98	µg/m3	1	7/13/2023 10:48 PM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	7/13/2023 10:48 PM
<b>1,2,4-Trimethylbenzene</b>	<b>5.80</b>		<b>2.46</b>	<b>µg/m3</b>	1	7/13/2023 10:48 PM
1,2-Dibromoethane	ND		1.54	µg/m3	1	7/13/2023 10:48 PM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	7/13/2023 10:48 PM
1,2-Dichloroethane	ND		0.809	µg/m3	1	7/13/2023 10:48 PM
1,2-Dichloropropane	ND		2.31	µg/m3	1	7/13/2023 10:48 PM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	7/13/2023 10:48 PM
<b>1,3-Butadiene</b>	<b>0.863</b>		<b>0.442</b>	<b>µg/m3</b>	1	7/13/2023 10:48 PM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	7/13/2023 10:48 PM
1,4-Dichlorobenzene	ND		1.20	µg/m3	1	7/13/2023 10:48 PM

Note:



# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-2

Collection Date: 6/27/2023 10:06 AM

Work Order: 23061379

Lab ID: 23061379-02

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1.80	µg/m3	1	7/13/2023 10:48 PM
<b>2-Butanone</b>	<b>5.99</b>		<b>2.95</b>	<b>µg/m3</b>	1	7/13/2023 10:48 PM
2-Hexanone	ND		4.10	µg/m3	1	7/13/2023 10:48 PM
<b>2-Propanol</b>	<b>2.88</b>		<b>2.46</b>	<b>µg/m3</b>	1	7/13/2023 10:48 PM
4-Ethyltoluene	ND		2.46	µg/m3	1	7/13/2023 10:48 PM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	7/13/2023 10:48 PM
<b>Acetone</b>	<b>39.8</b>		<b>2.38</b>	<b>µg/m3</b>	1	7/13/2023 10:48 PM
<b>Benzene</b>	<b>1.79</b>		<b>1.60</b>	<b>µg/m3</b>	1	7/13/2023 10:48 PM
Benzyl chloride	ND		2.55	µg/m3	1	7/13/2023 10:48 PM
Bromodichloromethane	ND		1.34	µg/m3	1	7/13/2023 10:48 PM
Bromoform	ND		5.17	µg/m3	1	7/13/2023 10:48 PM
Bromomethane	ND		1.94	µg/m3	1	7/13/2023 10:48 PM
Carbon disulfide	ND		1.56	µg/m3	1	7/13/2023 10:48 PM
Carbon tetrachloride	ND		3.15	µg/m3	1	7/13/2023 10:48 PM
Chlorobenzene	ND		2.30	µg/m3	1	7/13/2023 10:48 PM
Chloroethane	ND		1.32	µg/m3	1	7/13/2023 10:48 PM
<b>Chloroform</b>	<b>1.61</b>		<b>0.976</b>	<b>µg/m3</b>	1	7/13/2023 10:48 PM
Chloromethane	ND		1.03	µg/m3	1	7/13/2023 10:48 PM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/13/2023 10:48 PM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/13/2023 10:48 PM
Cumene	ND		2.46	µg/m3	1	7/13/2023 10:48 PM
Cyclohexane	ND		1.72	µg/m3	1	7/13/2023 10:48 PM
Dibromochloromethane	ND		4.26	µg/m3	1	7/13/2023 10:48 PM
Dichlorodifluoromethane	ND		2.47	µg/m3	1	7/13/2023 10:48 PM
Ethyl acetate	ND		1.80	µg/m3	1	7/13/2023 10:48 PM
<b>Ethylbenzene</b>	<b>4.13</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/13/2023 10:48 PM
Freon 113	ND		3.83	µg/m3	1	7/13/2023 10:48 PM
Freon 114	ND		3.50	µg/m3	1	7/13/2023 10:48 PM
<b>Heptane</b>	<b>2.34</b>		<b>2.05</b>	<b>µg/m3</b>	1	7/13/2023 10:48 PM
Hexachlorobutadiene	ND		2.13	µg/m3	1	7/13/2023 10:48 PM
<b>Hexane</b>	<b>2.71</b>		<b>1.76</b>	<b>µg/m3</b>	1	7/13/2023 10:48 PM
<b>m,p-Xylene</b>	<b>15.2</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/13/2023 10:48 PM
Methylene chloride	ND		7.00	µg/m3	1	7/13/2023 10:48 PM
MTBE	ND		1.80	µg/m3	1	7/13/2023 10:48 PM
<b>Naphthalene</b>	<b>1.68</b>		<b>1.05</b>	<b>µg/m3</b>	1	7/13/2023 10:48 PM
<b>o-Xylene</b>	<b>5.34</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/13/2023 10:48 PM
<b>Propene</b>	<b>20.4</b>		<b>0.861</b>	<b>µg/m3</b>	1	7/13/2023 10:48 PM
Styrene	ND		2.13	µg/m3	1	7/13/2023 10:48 PM
<b>Tetrachloroethene</b>	<b>7.19</b>		<b>3.39</b>	<b>µg/m3</b>	1	7/13/2023 10:48 PM
Tetrahydrofuran	ND		1.47	µg/m3	1	7/13/2023 10:48 PM

Note:

## ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-2

Collection Date: 6/27/2023 10:06 AM

Work Order: 23061379

Lab ID: 23061379-02

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Toluene</b>	<b>6.03</b>		<b>1.88</b>	<b>µg/m3</b>	1	7/13/2023 10:48 PM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/13/2023 10:48 PM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/13/2023 10:48 PM
Trichloroethene	ND		1.07	µg/m3	1	7/13/2023 10:48 PM
Trichlorofluoromethane	ND		2.81	µg/m3	1	7/13/2023 10:48 PM
Vinyl acetate	ND		3.52	µg/m3	1	7/13/2023 10:48 PM
Vinyl chloride	ND		1.28	µg/m3	1	7/13/2023 10:48 PM
Surr: Bromofluorobenzene	166	S	60-140	%REC	1	7/13/2023 10:48 PM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-3

Collection Date: 6/27/2023 10:58 AM

Work Order: 23061379

Lab ID: 23061379-03

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>		Analyst: LAK	
1,1,1-Trichloroethane	ND		0.50	ppbv	1	7/13/2023 11:34 PM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	7/13/2023 11:34 PM
1,1,2-Trichloroethane	ND		0.20	ppbv	1	7/13/2023 11:34 PM
1,1-Dichloroethane	ND		0.50	ppbv	1	7/13/2023 11:34 PM
1,1-Dichloroethene	ND		0.50	ppbv	1	7/13/2023 11:34 PM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	7/13/2023 11:34 PM
<b>1,2,4-Trimethylbenzene</b>	<b>1.2</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 11:34 PM
1,2-Dibromoethane	ND		0.20	ppbv	1	7/13/2023 11:34 PM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	7/13/2023 11:34 PM
1,2-Dichloroethane	ND		0.20	ppbv	1	7/13/2023 11:34 PM
1,2-Dichloropropane	ND		0.50	ppbv	1	7/13/2023 11:34 PM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	7/13/2023 11:34 PM
<b>1,3-Butadiene</b>	<b>0.34</b>		<b>0.20</b>	<b>ppbv</b>	1	7/13/2023 11:34 PM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	7/13/2023 11:34 PM
1,4-Dichlorobenzene	ND		0.20	ppbv	1	7/13/2023 11:34 PM
1,4-Dioxane	ND		0.50	ppbv	1	7/13/2023 11:34 PM
<b>2-Butanone</b>	<b>1.8</b>		<b>1.0</b>	<b>ppbv</b>	1	7/13/2023 11:34 PM
2-Hexanone	ND		1.0	ppbv	1	7/13/2023 11:34 PM
2-Propanol	ND		1.0	ppbv	1	7/13/2023 11:34 PM
4-Ethyltoluene	ND		0.50	ppbv	1	7/13/2023 11:34 PM
4-Methyl-2-pentanone	ND		1.0	ppbv	1	7/13/2023 11:34 PM
<b>Acetone</b>	<b>15</b>		<b>1.0</b>	<b>ppbv</b>	1	7/13/2023 11:34 PM
Benzene	ND		0.50	ppbv	1	7/13/2023 11:34 PM
Benzyl chloride	ND		0.50	ppbv	1	7/13/2023 11:34 PM
Bromodichloromethane	ND		0.20	ppbv	1	7/13/2023 11:34 PM
Bromoform	ND		0.50	ppbv	1	7/13/2023 11:34 PM
Bromomethane	ND		0.50	ppbv	1	7/13/2023 11:34 PM
Carbon disulfide	ND		0.50	ppbv	1	7/13/2023 11:34 PM
Carbon tetrachloride	ND		0.50	ppbv	1	7/13/2023 11:34 PM
Chlorobenzene	ND		0.50	ppbv	1	7/13/2023 11:34 PM
Chloroethane	ND		0.50	ppbv	1	7/13/2023 11:34 PM
<b>Chloroform</b>	<b>0.30</b>		<b>0.20</b>	<b>ppbv</b>	1	7/13/2023 11:34 PM
Chloromethane	ND		0.50	ppbv	1	7/13/2023 11:34 PM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	7/13/2023 11:34 PM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	7/13/2023 11:34 PM
Cumene	ND		0.50	ppbv	1	7/13/2023 11:34 PM
Cyclohexane	ND		0.50	ppbv	1	7/13/2023 11:34 PM
Dibromochloromethane	ND		0.50	ppbv	1	7/13/2023 11:34 PM
Dichlorodifluoromethane	ND		0.50	ppbv	1	7/13/2023 11:34 PM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Work Order: 23061379

Sample ID: SG-3

Lab ID: 23061379-03

Collection Date: 6/27/2023 10:58 AM

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	7/13/2023 11:34 PM
<b>Ethylbenzene</b>	<b>0.58</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 11:34 PM
Freon 113	ND		0.50	ppbv	1	7/13/2023 11:34 PM
Freon 114	ND		0.50	ppbv	1	7/13/2023 11:34 PM
Heptane	ND		0.50	ppbv	1	7/13/2023 11:34 PM
Hexachlorobutadiene	ND		0.20	ppbv	1	7/13/2023 11:34 PM
Hexane	ND		0.50	ppbv	1	7/13/2023 11:34 PM
<b>m,p-Xylene</b>	<b>2.1</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 11:34 PM
Methylene chloride	ND		2.0	ppbv	1	7/13/2023 11:34 PM
MTBE	ND		0.50	ppbv	1	7/13/2023 11:34 PM
<b>Naphthalene</b>	<b>0.44</b>		<b>0.20</b>	<b>ppbv</b>	1	7/13/2023 11:34 PM
<b>o-Xylene</b>	<b>0.81</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 11:34 PM
<b>Propene</b>	<b>8.3</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 11:34 PM
Styrene	ND		0.50	ppbv	1	7/13/2023 11:34 PM
<b>Tetrachloroethene</b>	<b>0.76</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 11:34 PM
Tetrahydrofuran	ND		0.50	ppbv	1	7/13/2023 11:34 PM
<b>Toluene</b>	<b>1.2</b>		<b>0.50</b>	<b>ppbv</b>	1	7/13/2023 11:34 PM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	7/13/2023 11:34 PM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	7/13/2023 11:34 PM
Trichloroethene	ND		0.20	ppbv	1	7/13/2023 11:34 PM
Trichlorofluoromethane	ND		0.50	ppbv	1	7/13/2023 11:34 PM
Vinyl acetate	ND		1.0	ppbv	1	7/13/2023 11:34 PM
Vinyl chloride	ND		0.50	ppbv	1	7/13/2023 11:34 PM
Surr: Bromofluorobenzene	153	S	60-140	%REC	1	7/13/2023 11:34 PM
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>		Analyst: <b>LAK</b>	
1,1,1-Trichloroethane	ND		2.73	µg/m3	1	7/13/2023 11:34 PM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	7/13/2023 11:34 PM
1,1,2-Trichloroethane	ND		1.09	µg/m3	1	7/13/2023 11:34 PM
1,1-Dichloroethane	ND		2.02	µg/m3	1	7/13/2023 11:34 PM
1,1-Dichloroethene	ND		1.98	µg/m3	1	7/13/2023 11:34 PM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	7/13/2023 11:34 PM
<b>1,2,4-Trimethylbenzene</b>	<b>5.80</b>		<b>2.46</b>	<b>µg/m3</b>	1	7/13/2023 11:34 PM
1,2-Dibromoethane	ND		1.54	µg/m3	1	7/13/2023 11:34 PM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	7/13/2023 11:34 PM
1,2-Dichloroethane	ND		0.809	µg/m3	1	7/13/2023 11:34 PM
1,2-Dichloropropane	ND		2.31	µg/m3	1	7/13/2023 11:34 PM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	7/13/2023 11:34 PM
<b>1,3-Butadiene</b>	<b>0.752</b>		<b>0.442</b>	<b>µg/m3</b>	1	7/13/2023 11:34 PM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	7/13/2023 11:34 PM
1,4-Dichlorobenzene	ND		1.20	µg/m3	1	7/13/2023 11:34 PM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-3

Collection Date: 6/27/2023 10:58 AM

Work Order: 23061379

Lab ID: 23061379-03

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1.80	µg/m3	1	7/13/2023 11:34 PM
<b>2-Butanone</b>	<b>5.37</b>		<b>2.95</b>	<b>µg/m3</b>	1	7/13/2023 11:34 PM
2-Hexanone	ND		4.10	µg/m3	1	7/13/2023 11:34 PM
2-Propanol	ND		2.46	µg/m3	1	7/13/2023 11:34 PM
4-Ethyltoluene	ND		2.46	µg/m3	1	7/13/2023 11:34 PM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	7/13/2023 11:34 PM
<b>Acetone</b>	<b>36.3</b>		<b>2.38</b>	<b>µg/m3</b>	1	7/13/2023 11:34 PM
Benzene	ND		1.60	µg/m3	1	7/13/2023 11:34 PM
Benzyl chloride	ND		2.55	µg/m3	1	7/13/2023 11:34 PM
Bromodichloromethane	ND		1.34	µg/m3	1	7/13/2023 11:34 PM
Bromoform	ND		5.17	µg/m3	1	7/13/2023 11:34 PM
Bromomethane	ND		1.94	µg/m3	1	7/13/2023 11:34 PM
Carbon disulfide	ND		1.56	µg/m3	1	7/13/2023 11:34 PM
Carbon tetrachloride	ND		3.15	µg/m3	1	7/13/2023 11:34 PM
Chlorobenzene	ND		2.30	µg/m3	1	7/13/2023 11:34 PM
Chloroethane	ND		1.32	µg/m3	1	7/13/2023 11:34 PM
<b>Chloroform</b>	<b>1.46</b>		<b>0.976</b>	<b>µg/m3</b>	1	7/13/2023 11:34 PM
Chloromethane	ND		1.03	µg/m3	1	7/13/2023 11:34 PM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/13/2023 11:34 PM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/13/2023 11:34 PM
Cumene	ND		2.46	µg/m3	1	7/13/2023 11:34 PM
Cyclohexane	ND		1.72	µg/m3	1	7/13/2023 11:34 PM
Dibromochloromethane	ND		4.26	µg/m3	1	7/13/2023 11:34 PM
Dichlorodifluoromethane	ND		2.47	µg/m3	1	7/13/2023 11:34 PM
Ethyl acetate	ND		1.80	µg/m3	1	7/13/2023 11:34 PM
<b>Ethylbenzene</b>	<b>2.52</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/13/2023 11:34 PM
Freon 113	ND		3.83	µg/m3	1	7/13/2023 11:34 PM
Freon 114	ND		3.50	µg/m3	1	7/13/2023 11:34 PM
Heptane	ND		2.05	µg/m3	1	7/13/2023 11:34 PM
Hexachlorobutadiene	ND		2.13	µg/m3	1	7/13/2023 11:34 PM
Hexane	ND		1.76	µg/m3	1	7/13/2023 11:34 PM
<b>m,p-Xylene</b>	<b>9.12</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/13/2023 11:34 PM
Methylene chloride	ND		7.00	µg/m3	1	7/13/2023 11:34 PM
MTBE	ND		1.80	µg/m3	1	7/13/2023 11:34 PM
<b>Naphthalene</b>	<b>2.31</b>		<b>1.05</b>	<b>µg/m3</b>	1	7/13/2023 11:34 PM
<b>o-Xylene</b>	<b>3.52</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/13/2023 11:34 PM
<b>Propene</b>	<b>14.3</b>		<b>0.861</b>	<b>µg/m3</b>	1	7/13/2023 11:34 PM
Styrene	ND		2.13	µg/m3	1	7/13/2023 11:34 PM
<b>Tetrachloroethene</b>	<b>5.15</b>		<b>3.39</b>	<b>µg/m3</b>	1	7/13/2023 11:34 PM
Tetrahydrofuran	ND		1.47	µg/m3	1	7/13/2023 11:34 PM

Note:



## ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-3

Collection Date: 6/27/2023 10:58 AM

Work Order: 23061379

Lab ID: 23061379-03

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Toluene</b>	<b>4.41</b>		<b>1.88</b>	<b>µg/m3</b>	1	7/13/2023 11:34 PM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/13/2023 11:34 PM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/13/2023 11:34 PM
Trichloroethene	ND		1.07	µg/m3	1	7/13/2023 11:34 PM
Trichlorofluoromethane	ND		2.81	µg/m3	1	7/13/2023 11:34 PM
Vinyl acetate	ND		3.52	µg/m3	1	7/13/2023 11:34 PM
Vinyl chloride	ND		1.28	µg/m3	1	7/13/2023 11:34 PM
Surr: Bromofluorobenzene	153	S	60-140	%REC	1	7/13/2023 11:34 PM

Note:

# ALS Environmental

Date: 18-Jul-23

**Client:** Tetra Tech  
**Project:** Boys & Girls Home; 103G65210190.17.03  
**Sample ID:** SG-4  
**Collection Date:** 6/27/2023 12:51 PM

**Work Order:** 23061379  
**Lab ID:** 23061379-04  
**Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>		Analyst: <b>LAK</b>	
1,1,1-Trichloroethane	ND		0.50	ppbv	1	7/14/2023 12:19 AM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	7/14/2023 12:19 AM
1,1,2-Trichloroethane	ND		0.20	ppbv	1	7/14/2023 12:19 AM
1,1-Dichloroethane	ND		0.50	ppbv	1	7/14/2023 12:19 AM
1,1-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 12:19 AM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	7/14/2023 12:19 AM
<b>1,2,4-Trimethylbenzene</b>	<b>0.52</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 12:19 AM
1,2-Dibromoethane	ND		0.20	ppbv	1	7/14/2023 12:19 AM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	7/14/2023 12:19 AM
1,2-Dichloroethane	ND		0.20	ppbv	1	7/14/2023 12:19 AM
1,2-Dichloropropane	ND		0.50	ppbv	1	7/14/2023 12:19 AM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	7/14/2023 12:19 AM
<b>1,3-Butadiene</b>	<b>0.23</b>		<b>0.20</b>	<b>ppbv</b>	1	7/14/2023 12:19 AM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	7/14/2023 12:19 AM
1,4-Dichlorobenzene	ND		0.20	ppbv	1	7/14/2023 12:19 AM
1,4-Dioxane	ND		0.50	ppbv	1	7/14/2023 12:19 AM
2-Butanone	ND		1.0	ppbv	1	7/14/2023 12:19 AM
2-Hexanone	ND		1.0	ppbv	1	7/14/2023 12:19 AM
<b>2-Propanol</b>	<b>1.2</b>		<b>1.0</b>	<b>ppbv</b>	1	7/14/2023 12:19 AM
4-Ethyltoluene	ND		0.50	ppbv	1	7/14/2023 12:19 AM
4-Methyl-2-pentanone	ND		1.0	ppbv	1	7/14/2023 12:19 AM
<b>Acetone</b>	<b>5.7</b>		<b>1.0</b>	<b>ppbv</b>	1	7/14/2023 12:19 AM
Benzene	ND		0.50	ppbv	1	7/14/2023 12:19 AM
Benzyl chloride	ND		0.50	ppbv	1	7/14/2023 12:19 AM
Bromodichloromethane	ND		0.20	ppbv	1	7/14/2023 12:19 AM
Bromoform	ND		0.50	ppbv	1	7/14/2023 12:19 AM
Bromomethane	ND		0.50	ppbv	1	7/14/2023 12:19 AM
Carbon disulfide	ND		0.50	ppbv	1	7/14/2023 12:19 AM
Carbon tetrachloride	ND		0.50	ppbv	1	7/14/2023 12:19 AM
Chlorobenzene	ND		0.50	ppbv	1	7/14/2023 12:19 AM
Chloroethane	ND		0.50	ppbv	1	7/14/2023 12:19 AM
Chloroform	ND		0.20	ppbv	1	7/14/2023 12:19 AM
Chloromethane	ND		0.50	ppbv	1	7/14/2023 12:19 AM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 12:19 AM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	7/14/2023 12:19 AM
Cumene	ND		0.50	ppbv	1	7/14/2023 12:19 AM
Cyclohexane	ND		0.50	ppbv	1	7/14/2023 12:19 AM
Dibromochloromethane	ND		0.50	ppbv	1	7/14/2023 12:19 AM
Dichlorodifluoromethane	ND		0.50	ppbv	1	7/14/2023 12:19 AM

**Note:**

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Work Order: 23061379

Sample ID: SG-4

Lab ID: 23061379-04

Collection Date: 6/27/2023 12:51 PM

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	7/14/2023 12:19 AM
Ethylbenzene	ND		0.50	ppbv	1	7/14/2023 12:19 AM
Freon 113	ND		0.50	ppbv	1	7/14/2023 12:19 AM
Freon 114	ND		0.50	ppbv	1	7/14/2023 12:19 AM
Heptane	ND		0.50	ppbv	1	7/14/2023 12:19 AM
Hexachlorobutadiene	ND		0.20	ppbv	1	7/14/2023 12:19 AM
Hexane	ND		0.50	ppbv	1	7/14/2023 12:19 AM
<b>m,p-Xylene</b>	<b>1.4</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 12:19 AM
Methylene chloride	ND		2.0	ppbv	1	7/14/2023 12:19 AM
MTBE	ND		0.50	ppbv	1	7/14/2023 12:19 AM
Naphthalene	ND		0.20	ppbv	1	7/14/2023 12:19 AM
<b>o-Xylene</b>	<b>0.54</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 12:19 AM
<b>Propene</b>	<b>5.6</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 12:19 AM
Styrene	ND		0.50	ppbv	1	7/14/2023 12:19 AM
<b>Tetrachloroethene</b>	<b>0.98</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 12:19 AM
Tetrahydrofuran	ND		0.50	ppbv	1	7/14/2023 12:19 AM
<b>Toluene</b>	<b>1.1</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 12:19 AM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 12:19 AM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	7/14/2023 12:19 AM
Trichloroethene	ND		0.20	ppbv	1	7/14/2023 12:19 AM
Trichlorofluoromethane	ND		0.50	ppbv	1	7/14/2023 12:19 AM
Vinyl acetate	ND		1.0	ppbv	1	7/14/2023 12:19 AM
Vinyl chloride	ND		0.50	ppbv	1	7/14/2023 12:19 AM
Surr: Bromofluorobenzene	205	S	60-140	%REC	1	7/14/2023 12:19 AM
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>		Analyst: LAK	
1,1,1-Trichloroethane	ND		2.73	µg/m3	1	7/14/2023 12:19 AM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	7/14/2023 12:19 AM
1,1,2-Trichloroethane	ND		1.09	µg/m3	1	7/14/2023 12:19 AM
1,1-Dichloroethane	ND		2.02	µg/m3	1	7/14/2023 12:19 AM
1,1-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 12:19 AM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	7/14/2023 12:19 AM
<b>1,2,4-Trimethylbenzene</b>	<b>2.56</b>		<b>2.46</b>	<b>µg/m3</b>	1	7/14/2023 12:19 AM
1,2-Dibromoethane	ND		1.54	µg/m3	1	7/14/2023 12:19 AM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	7/14/2023 12:19 AM
1,2-Dichloroethane	ND		0.809	µg/m3	1	7/14/2023 12:19 AM
1,2-Dichloropropane	ND		2.31	µg/m3	1	7/14/2023 12:19 AM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	7/14/2023 12:19 AM
<b>1,3-Butadiene</b>	<b>0.509</b>		<b>0.442</b>	<b>µg/m3</b>	1	7/14/2023 12:19 AM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	7/14/2023 12:19 AM
1,4-Dichlorobenzene	ND		1.20	µg/m3	1	7/14/2023 12:19 AM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-4

Collection Date: 6/27/2023 12:51 PM

Work Order: 23061379

Lab ID: 23061379-04

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1.80	µg/m3	1	7/14/2023 12:19 AM
2-Butanone	ND		2.95	µg/m3	1	7/14/2023 12:19 AM
2-Hexanone	ND		4.10	µg/m3	1	7/14/2023 12:19 AM
<b>2-Propanol</b>	<b>2.97</b>		<b>2.46</b>	<b>µg/m3</b>	1	7/14/2023 12:19 AM
4-Ethyltoluene	ND		2.46	µg/m3	1	7/14/2023 12:19 AM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	7/14/2023 12:19 AM
<b>Acetone</b>	<b>13.6</b>		<b>2.38</b>	<b>µg/m3</b>	1	7/14/2023 12:19 AM
Benzene	ND		1.60	µg/m3	1	7/14/2023 12:19 AM
Benzyl chloride	ND		2.55	µg/m3	1	7/14/2023 12:19 AM
Bromodichloromethane	ND		1.34	µg/m3	1	7/14/2023 12:19 AM
Bromoform	ND		5.17	µg/m3	1	7/14/2023 12:19 AM
Bromomethane	ND		1.94	µg/m3	1	7/14/2023 12:19 AM
Carbon disulfide	ND		1.56	µg/m3	1	7/14/2023 12:19 AM
Carbon tetrachloride	ND		3.15	µg/m3	1	7/14/2023 12:19 AM
Chlorobenzene	ND		2.30	µg/m3	1	7/14/2023 12:19 AM
Chloroethane	ND		1.32	µg/m3	1	7/14/2023 12:19 AM
Chloroform	ND		0.976	µg/m3	1	7/14/2023 12:19 AM
Chloromethane	ND		1.03	µg/m3	1	7/14/2023 12:19 AM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 12:19 AM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/14/2023 12:19 AM
Cumene	ND		2.46	µg/m3	1	7/14/2023 12:19 AM
Cyclohexane	ND		1.72	µg/m3	1	7/14/2023 12:19 AM
Dibromochloromethane	ND		4.26	µg/m3	1	7/14/2023 12:19 AM
Dichlorodifluoromethane	ND		2.47	µg/m3	1	7/14/2023 12:19 AM
Ethyl acetate	ND		1.80	µg/m3	1	7/14/2023 12:19 AM
Ethylbenzene	ND		2.17	µg/m3	1	7/14/2023 12:19 AM
Freon 113	ND		3.83	µg/m3	1	7/14/2023 12:19 AM
Freon 114	ND		3.50	µg/m3	1	7/14/2023 12:19 AM
Heptane	ND		2.05	µg/m3	1	7/14/2023 12:19 AM
Hexachlorobutadiene	ND		2.13	µg/m3	1	7/14/2023 12:19 AM
Hexane	ND		1.76	µg/m3	1	7/14/2023 12:19 AM
<b>m,p-Xylene</b>	<b>5.95</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/14/2023 12:19 AM
Methylene chloride	ND		7.00	µg/m3	1	7/14/2023 12:19 AM
MTBE	ND		1.80	µg/m3	1	7/14/2023 12:19 AM
Naphthalene	ND		1.05	µg/m3	1	7/14/2023 12:19 AM
<b>o-Xylene</b>	<b>2.34</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/14/2023 12:19 AM
<b>Propene</b>	<b>9.62</b>		<b>0.861</b>	<b>µg/m3</b>	1	7/14/2023 12:19 AM
Styrene	ND		2.13	µg/m3	1	7/14/2023 12:19 AM
<b>Tetrachloroethene</b>	<b>6.65</b>		<b>3.39</b>	<b>µg/m3</b>	1	7/14/2023 12:19 AM
Tetrahydrofuran	ND		1.47	µg/m3	1	7/14/2023 12:19 AM

Note:

## ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Work Order: 23061379

Sample ID: SG-4

Lab ID: 23061379-04

Collection Date: 6/27/2023 12:51 PM

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Toluene</b>	<b>4.07</b>		<b>1.88</b>	<b>µg/m3</b>	1	7/14/2023 12:19 AM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 12:19 AM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/14/2023 12:19 AM
Trichloroethene	ND		1.07	µg/m3	1	7/14/2023 12:19 AM
Trichlorofluoromethane	ND		2.81	µg/m3	1	7/14/2023 12:19 AM
Vinyl acetate	ND		3.52	µg/m3	1	7/14/2023 12:19 AM
Vinyl chloride	ND		1.28	µg/m3	1	7/14/2023 12:19 AM
Surr: Bromofluorobenzene	205	S	60-140	%REC	1	7/14/2023 12:19 AM

Note:



# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-5

Collection Date: 6/27/2023 02:08 PM

Work Order: 23061379

Lab ID: 23061379-05

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>			Analyst: LAK
1,1,1-Trichloroethane	ND		0.50	ppbv	1	7/14/2023 01:04 AM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	7/14/2023 01:04 AM
1,1,2-Trichloroethane	ND		0.20	ppbv	1	7/14/2023 01:04 AM
1,1-Dichloroethane	ND		0.50	ppbv	1	7/14/2023 01:04 AM
1,1-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 01:04 AM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	7/14/2023 01:04 AM
<b>1,2,4-Trimethylbenzene</b>	<b>1.2</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 01:04 AM
1,2-Dibromoethane	ND		0.20	ppbv	1	7/14/2023 01:04 AM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	7/14/2023 01:04 AM
1,2-Dichloroethane	ND		0.20	ppbv	1	7/14/2023 01:04 AM
1,2-Dichloropropane	ND		0.50	ppbv	1	7/14/2023 01:04 AM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	7/14/2023 01:04 AM
<b>1,3-Butadiene</b>	<b>0.34</b>		<b>0.20</b>	<b>ppbv</b>	1	7/14/2023 01:04 AM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	7/14/2023 01:04 AM
1,4-Dichlorobenzene	ND		0.20	ppbv	1	7/14/2023 01:04 AM
1,4-Dioxane	ND		0.50	ppbv	1	7/14/2023 01:04 AM
<b>2-Butanone</b>	<b>1.6</b>		<b>1.0</b>	<b>ppbv</b>	1	7/14/2023 01:04 AM
2-Hexanone	ND		1.0	ppbv	1	7/14/2023 01:04 AM
2-Propanol	ND		1.0	ppbv	1	7/14/2023 01:04 AM
4-Ethyltoluene	ND		0.50	ppbv	1	7/14/2023 01:04 AM
4-Methyl-2-pentanone	ND		1.0	ppbv	1	7/14/2023 01:04 AM
<b>Acetone</b>	<b>10</b>		<b>1.0</b>	<b>ppbv</b>	1	7/14/2023 01:04 AM
<b>Benzene</b>	<b>0.50</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 01:04 AM
Benzyl chloride	ND		0.50	ppbv	1	7/14/2023 01:04 AM
Bromodichloromethane	ND		0.20	ppbv	1	7/14/2023 01:04 AM
Bromoform	ND		0.50	ppbv	1	7/14/2023 01:04 AM
Bromomethane	ND		0.50	ppbv	1	7/14/2023 01:04 AM
Carbon disulfide	ND		0.50	ppbv	1	7/14/2023 01:04 AM
Carbon tetrachloride	ND		0.50	ppbv	1	7/14/2023 01:04 AM
Chlorobenzene	ND		0.50	ppbv	1	7/14/2023 01:04 AM
Chloroethane	ND		0.50	ppbv	1	7/14/2023 01:04 AM
Chloroform	ND		0.20	ppbv	1	7/14/2023 01:04 AM
Chloromethane	ND		0.50	ppbv	1	7/14/2023 01:04 AM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 01:04 AM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	7/14/2023 01:04 AM
Cumene	ND		0.50	ppbv	1	7/14/2023 01:04 AM
Cyclohexane	ND		0.50	ppbv	1	7/14/2023 01:04 AM
Dibromochloromethane	ND		0.50	ppbv	1	7/14/2023 01:04 AM
Dichlorodifluoromethane	ND		0.50	ppbv	1	7/14/2023 01:04 AM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-5

Collection Date: 6/27/2023 02:08 PM

Work Order: 23061379

Lab ID: 23061379-05

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	7/14/2023 01:04 AM
Ethylbenzene	ND		0.50	ppbv	1	7/14/2023 01:04 AM
Freon 113	ND		0.50	ppbv	1	7/14/2023 01:04 AM
Freon 114	ND		0.50	ppbv	1	7/14/2023 01:04 AM
Heptane	ND		0.50	ppbv	1	7/14/2023 01:04 AM
Hexachlorobutadiene	ND		0.20	ppbv	1	7/14/2023 01:04 AM
<b>Hexane</b>	<b>0.74</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 01:04 AM
<b>m,p-Xylene</b>	<b>1.6</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 01:04 AM
Methylene chloride	ND		2.0	ppbv	1	7/14/2023 01:04 AM
MTBE	ND		0.50	ppbv	1	7/14/2023 01:04 AM
<b>Naphthalene</b>	<b>0.24</b>		<b>0.20</b>	<b>ppbv</b>	1	7/14/2023 01:04 AM
<b>o-Xylene</b>	<b>0.67</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 01:04 AM
<b>Propene</b>	<b>10</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 01:04 AM
Styrene	ND		0.50	ppbv	1	7/14/2023 01:04 AM
<b>Tetrachloroethene</b>	<b>1.2</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 01:04 AM
Tetrahydrofuran	ND		0.50	ppbv	1	7/14/2023 01:04 AM
<b>Toluene</b>	<b>1.2</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 01:04 AM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 01:04 AM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	7/14/2023 01:04 AM
Trichloroethene	ND		0.20	ppbv	1	7/14/2023 01:04 AM
Trichlorofluoromethane	ND		0.50	ppbv	1	7/14/2023 01:04 AM
Vinyl acetate	ND		1.0	ppbv	1	7/14/2023 01:04 AM
Vinyl chloride	ND		0.50	ppbv	1	7/14/2023 01:04 AM
Surr: Bromofluorobenzene	206	S	60-140	%REC	1	7/14/2023 01:04 AM
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>		Analyst: <b>LAK</b>	
1,1,1-Trichloroethane	ND		2.73	µg/m3	1	7/14/2023 01:04 AM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	7/14/2023 01:04 AM
1,1,2-Trichloroethane	ND		1.09	µg/m3	1	7/14/2023 01:04 AM
1,1-Dichloroethane	ND		2.02	µg/m3	1	7/14/2023 01:04 AM
1,1-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 01:04 AM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	7/14/2023 01:04 AM
<b>1,2,4-Trimethylbenzene</b>	<b>5.80</b>		<b>2.46</b>	<b>µg/m3</b>	1	7/14/2023 01:04 AM
1,2-Dibromoethane	ND		1.54	µg/m3	1	7/14/2023 01:04 AM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	7/14/2023 01:04 AM
1,2-Dichloroethane	ND		0.809	µg/m3	1	7/14/2023 01:04 AM
1,2-Dichloropropane	ND		2.31	µg/m3	1	7/14/2023 01:04 AM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	7/14/2023 01:04 AM
<b>1,3-Butadiene</b>	<b>0.752</b>		<b>0.442</b>	<b>µg/m3</b>	1	7/14/2023 01:04 AM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	7/14/2023 01:04 AM
1,4-Dichlorobenzene	ND		1.20	µg/m3	1	7/14/2023 01:04 AM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-5

Collection Date: 6/27/2023 02:08 PM

Work Order: 23061379

Lab ID: 23061379-05

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1.80	µg/m3	1	7/14/2023 01:04 AM
<b>2-Butanone</b>	<b>4.81</b>		<b>2.95</b>	<b>µg/m3</b>	1	7/14/2023 01:04 AM
2-Hexanone	ND		4.10	µg/m3	1	7/14/2023 01:04 AM
2-Propanol	ND		2.46	µg/m3	1	7/14/2023 01:04 AM
4-Ethyltoluene	ND		2.46	µg/m3	1	7/14/2023 01:04 AM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	7/14/2023 01:04 AM
<b>Acetone</b>	<b>24.1</b>		<b>2.38</b>	<b>µg/m3</b>	1	7/14/2023 01:04 AM
<b>Benzene</b>	<b>1.60</b>	J	<b>1.60</b>	<b>µg/m3</b>	1	7/14/2023 01:04 AM
Benzyl chloride	ND		2.55	µg/m3	1	7/14/2023 01:04 AM
Bromodichloromethane	ND		1.34	µg/m3	1	7/14/2023 01:04 AM
Bromoform	ND		5.17	µg/m3	1	7/14/2023 01:04 AM
Bromomethane	ND		1.94	µg/m3	1	7/14/2023 01:04 AM
Carbon disulfide	ND		1.56	µg/m3	1	7/14/2023 01:04 AM
Carbon tetrachloride	ND		3.15	µg/m3	1	7/14/2023 01:04 AM
Chlorobenzene	ND		2.30	µg/m3	1	7/14/2023 01:04 AM
Chloroethane	ND		1.32	µg/m3	1	7/14/2023 01:04 AM
Chloroform	ND		0.976	µg/m3	1	7/14/2023 01:04 AM
Chloromethane	ND		1.03	µg/m3	1	7/14/2023 01:04 AM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 01:04 AM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/14/2023 01:04 AM
Cumene	ND		2.46	µg/m3	1	7/14/2023 01:04 AM
Cyclohexane	ND		1.72	µg/m3	1	7/14/2023 01:04 AM
Dibromochloromethane	ND		4.26	µg/m3	1	7/14/2023 01:04 AM
Dichlorodifluoromethane	ND		2.47	µg/m3	1	7/14/2023 01:04 AM
Ethyl acetate	ND		1.80	µg/m3	1	7/14/2023 01:04 AM
Ethylbenzene	ND		2.17	µg/m3	1	7/14/2023 01:04 AM
Freon 113	ND		3.83	µg/m3	1	7/14/2023 01:04 AM
Freon 114	ND		3.50	µg/m3	1	7/14/2023 01:04 AM
Heptane	ND		2.05	µg/m3	1	7/14/2023 01:04 AM
Hexachlorobutadiene	ND		2.13	µg/m3	1	7/14/2023 01:04 AM
<b>Hexane</b>	<b>2.61</b>		<b>1.76</b>	<b>µg/m3</b>	1	7/14/2023 01:04 AM
<b>m,p-Xylene</b>	<b>7.12</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/14/2023 01:04 AM
Methylene chloride	ND		7.00	µg/m3	1	7/14/2023 01:04 AM
MTBE	ND		1.80	µg/m3	1	7/14/2023 01:04 AM
<b>Naphthalene</b>	<b>1.26</b>		<b>1.05</b>	<b>µg/m3</b>	1	7/14/2023 01:04 AM
<b>o-Xylene</b>	<b>2.91</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/14/2023 01:04 AM
<b>Propene</b>	<b>17.4</b>		<b>0.861</b>	<b>µg/m3</b>	1	7/14/2023 01:04 AM
Styrene	ND		2.13	µg/m3	1	7/14/2023 01:04 AM
<b>Tetrachloroethene</b>	<b>8.14</b>		<b>3.39</b>	<b>µg/m3</b>	1	7/14/2023 01:04 AM
Tetrahydrofuran	ND		1.47	µg/m3	1	7/14/2023 01:04 AM

Note:

## ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-5

Collection Date: 6/27/2023 02:08 PM

Work Order: 23061379

Lab ID: 23061379-05

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Toluene</b>	<b>4.56</b>		<b>1.88</b>	<b>µg/m3</b>	1	7/14/2023 01:04 AM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 01:04 AM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/14/2023 01:04 AM
Trichloroethene	ND		1.07	µg/m3	1	7/14/2023 01:04 AM
Trichlorofluoromethane	ND		2.81	µg/m3	1	7/14/2023 01:04 AM
Vinyl acetate	ND		3.52	µg/m3	1	7/14/2023 01:04 AM
Vinyl chloride	ND		1.28	µg/m3	1	7/14/2023 01:04 AM
Surr: Bromofluorobenzene	206	S	60-140	%REC	1	7/14/2023 01:04 AM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-6

Collection Date: 6/27/2023 03:14 PM

Work Order: 23061379

Lab ID: 23061379-06

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>		Analyst: LAK	
1,1,1-Trichloroethane	ND		0.50	ppbv	1	7/14/2023 01:50 AM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	7/14/2023 01:50 AM
1,1,2-Trichloroethane	ND		0.20	ppbv	1	7/14/2023 01:50 AM
1,1-Dichloroethane	ND		0.50	ppbv	1	7/14/2023 01:50 AM
1,1-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 01:50 AM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	7/14/2023 01:50 AM
<b>1,2,4-Trimethylbenzene</b>	<b>0.95</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 01:50 AM
1,2-Dibromoethane	ND		0.20	ppbv	1	7/14/2023 01:50 AM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	7/14/2023 01:50 AM
1,2-Dichloroethane	ND		0.20	ppbv	1	7/14/2023 01:50 AM
1,2-Dichloropropane	ND		0.50	ppbv	1	7/14/2023 01:50 AM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	7/14/2023 01:50 AM
<b>1,3-Butadiene</b>	<b>0.21</b>		<b>0.20</b>	<b>ppbv</b>	1	7/14/2023 01:50 AM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	7/14/2023 01:50 AM
1,4-Dichlorobenzene	ND		0.20	ppbv	1	7/14/2023 01:50 AM
1,4-Dioxane	ND		0.50	ppbv	1	7/14/2023 01:50 AM
<b>2-Butanone</b>	<b>1.8</b>		<b>1.0</b>	<b>ppbv</b>	1	7/14/2023 01:50 AM
2-Hexanone	ND		1.0	ppbv	1	7/14/2023 01:50 AM
2-Propanol	ND		1.0	ppbv	1	7/14/2023 01:50 AM
4-Ethyltoluene	ND		0.50	ppbv	1	7/14/2023 01:50 AM
4-Methyl-2-pentanone	ND		1.0	ppbv	1	7/14/2023 01:50 AM
<b>Acetone</b>	<b>10</b>		<b>1.0</b>	<b>ppbv</b>	1	7/14/2023 01:50 AM
Benzene	ND		0.50	ppbv	1	7/14/2023 01:50 AM
Benzyl chloride	ND		0.50	ppbv	1	7/14/2023 01:50 AM
Bromodichloromethane	ND		0.20	ppbv	1	7/14/2023 01:50 AM
Bromoform	ND		0.50	ppbv	1	7/14/2023 01:50 AM
Bromomethane	ND		0.50	ppbv	1	7/14/2023 01:50 AM
Carbon disulfide	ND		0.50	ppbv	1	7/14/2023 01:50 AM
Carbon tetrachloride	ND		0.50	ppbv	1	7/14/2023 01:50 AM
Chlorobenzene	ND		0.50	ppbv	1	7/14/2023 01:50 AM
Chloroethane	ND		0.50	ppbv	1	7/14/2023 01:50 AM
Chloroform	ND		0.20	ppbv	1	7/14/2023 01:50 AM
Chloromethane	ND		0.50	ppbv	1	7/14/2023 01:50 AM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 01:50 AM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	7/14/2023 01:50 AM
Cumene	ND		0.50	ppbv	1	7/14/2023 01:50 AM
Cyclohexane	ND		0.50	ppbv	1	7/14/2023 01:50 AM
Dibromochloromethane	ND		0.50	ppbv	1	7/14/2023 01:50 AM
Dichlorodifluoromethane	ND		0.50	ppbv	1	7/14/2023 01:50 AM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Work Order: 23061379

Sample ID: SG-6

Lab ID: 23061379-06

Collection Date: 6/27/2023 03:14 PM

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	7/14/2023 01:50 AM
Ethylbenzene	ND		0.50	ppbv	1	7/14/2023 01:50 AM
Freon 113	ND		0.50	ppbv	1	7/14/2023 01:50 AM
Freon 114	ND		0.50	ppbv	1	7/14/2023 01:50 AM
Heptane	ND		0.50	ppbv	1	7/14/2023 01:50 AM
Hexachlorobutadiene	ND		0.20	ppbv	1	7/14/2023 01:50 AM
Hexane	ND		0.50	ppbv	1	7/14/2023 01:50 AM
<b>m,p-Xylene</b>	<b>1.2</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 01:50 AM
Methylene chloride	ND		2.0	ppbv	1	7/14/2023 01:50 AM
MTBE	ND		0.50	ppbv	1	7/14/2023 01:50 AM
Naphthalene	ND		0.20	ppbv	1	7/14/2023 01:50 AM
<b>o-Xylene</b>	<b>0.52</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 01:50 AM
<b>Propene</b>	<b>5.0</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 01:50 AM
Styrene	ND		0.50	ppbv	1	7/14/2023 01:50 AM
<b>Tetrachloroethene</b>	<b>0.81</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 01:50 AM
Tetrahydrofuran	ND		0.50	ppbv	1	7/14/2023 01:50 AM
<b>Toluene</b>	<b>0.95</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 01:50 AM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 01:50 AM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	7/14/2023 01:50 AM
Trichloroethene	ND		0.20	ppbv	1	7/14/2023 01:50 AM
Trichlorofluoromethane	ND		0.50	ppbv	1	7/14/2023 01:50 AM
Vinyl acetate	ND		1.0	ppbv	1	7/14/2023 01:50 AM
Vinyl chloride	ND		0.50	ppbv	1	7/14/2023 01:50 AM
Surr: Bromofluorobenzene	109		60-140	%REC	1	7/14/2023 01:50 AM
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>		Analyst: LAK	
1,1,1-Trichloroethane	ND		2.73	µg/m3	1	7/14/2023 01:50 AM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	7/14/2023 01:50 AM
1,1,2-Trichloroethane	ND		1.09	µg/m3	1	7/14/2023 01:50 AM
1,1-Dichloroethane	ND		2.02	µg/m3	1	7/14/2023 01:50 AM
1,1-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 01:50 AM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	7/14/2023 01:50 AM
<b>1,2,4-Trimethylbenzene</b>	<b>4.67</b>		<b>2.46</b>	<b>µg/m3</b>	1	7/14/2023 01:50 AM
1,2-Dibromoethane	ND		1.54	µg/m3	1	7/14/2023 01:50 AM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	7/14/2023 01:50 AM
1,2-Dichloroethane	ND		0.809	µg/m3	1	7/14/2023 01:50 AM
1,2-Dichloropropane	ND		2.31	µg/m3	1	7/14/2023 01:50 AM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	7/14/2023 01:50 AM
<b>1,3-Butadiene</b>	<b>0.465</b>		<b>0.442</b>	<b>µg/m3</b>	1	7/14/2023 01:50 AM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	7/14/2023 01:50 AM
1,4-Dichlorobenzene	ND		1.20	µg/m3	1	7/14/2023 01:50 AM

Note:



# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-6

Collection Date: 6/27/2023 03:14 PM

Work Order: 23061379

Lab ID: 23061379-06

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1.80	µg/m3	1	7/14/2023 01:50 AM
<b>2-Butanone</b>	<b>5.16</b>		<b>2.95</b>	<b>µg/m3</b>	1	7/14/2023 01:50 AM
2-Hexanone	ND		4.10	µg/m3	1	7/14/2023 01:50 AM
2-Propanol	ND		2.46	µg/m3	1	7/14/2023 01:50 AM
4-Ethyltoluene	ND		2.46	µg/m3	1	7/14/2023 01:50 AM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	7/14/2023 01:50 AM
<b>Acetone</b>	<b>24.7</b>		<b>2.38</b>	<b>µg/m3</b>	1	7/14/2023 01:50 AM
Benzene	ND		1.60	µg/m3	1	7/14/2023 01:50 AM
Benzyl chloride	ND		2.55	µg/m3	1	7/14/2023 01:50 AM
Bromodichloromethane	ND		1.34	µg/m3	1	7/14/2023 01:50 AM
Bromoform	ND		5.17	µg/m3	1	7/14/2023 01:50 AM
Bromomethane	ND		1.94	µg/m3	1	7/14/2023 01:50 AM
Carbon disulfide	ND		1.56	µg/m3	1	7/14/2023 01:50 AM
Carbon tetrachloride	ND		3.15	µg/m3	1	7/14/2023 01:50 AM
Chlorobenzene	ND		2.30	µg/m3	1	7/14/2023 01:50 AM
Chloroethane	ND		1.32	µg/m3	1	7/14/2023 01:50 AM
Chloroform	ND		0.976	µg/m3	1	7/14/2023 01:50 AM
Chloromethane	ND		1.03	µg/m3	1	7/14/2023 01:50 AM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 01:50 AM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/14/2023 01:50 AM
Cumene	ND		2.46	µg/m3	1	7/14/2023 01:50 AM
Cyclohexane	ND		1.72	µg/m3	1	7/14/2023 01:50 AM
Dibromochloromethane	ND		4.26	µg/m3	1	7/14/2023 01:50 AM
Dichlorodifluoromethane	ND		2.47	µg/m3	1	7/14/2023 01:50 AM
Ethyl acetate	ND		1.80	µg/m3	1	7/14/2023 01:50 AM
Ethylbenzene	ND		2.17	µg/m3	1	7/14/2023 01:50 AM
Freon 113	ND		3.83	µg/m3	1	7/14/2023 01:50 AM
Freon 114	ND		3.50	µg/m3	1	7/14/2023 01:50 AM
Heptane	ND		2.05	µg/m3	1	7/14/2023 01:50 AM
Hexachlorobutadiene	ND		2.13	µg/m3	1	7/14/2023 01:50 AM
Hexane	ND		1.76	µg/m3	1	7/14/2023 01:50 AM
<b>m,p-Xylene</b>	<b>5.25</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/14/2023 01:50 AM
Methylene chloride	ND		7.00	µg/m3	1	7/14/2023 01:50 AM
MTBE	ND		1.80	µg/m3	1	7/14/2023 01:50 AM
Naphthalene	ND		1.05	µg/m3	1	7/14/2023 01:50 AM
<b>o-Xylene</b>	<b>2.26</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/14/2023 01:50 AM
<b>Propene</b>	<b>8.54</b>		<b>0.861</b>	<b>µg/m3</b>	1	7/14/2023 01:50 AM
Styrene	ND		2.13	µg/m3	1	7/14/2023 01:50 AM
<b>Tetrachloroethene</b>	<b>5.49</b>		<b>3.39</b>	<b>µg/m3</b>	1	7/14/2023 01:50 AM
Tetrahydrofuran	ND		1.47	µg/m3	1	7/14/2023 01:50 AM

Note:

## ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-6

Collection Date: 6/27/2023 03:14 PM

Work Order: 23061379

Lab ID: 23061379-06

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Toluene</b>	<b>3.58</b>		<b>1.88</b>	<b>µg/m3</b>	1	7/14/2023 01:50 AM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 01:50 AM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/14/2023 01:50 AM
Trichloroethene	ND		1.07	µg/m3	1	7/14/2023 01:50 AM
Trichlorofluoromethane	ND		2.81	µg/m3	1	7/14/2023 01:50 AM
Vinyl acetate	ND		3.52	µg/m3	1	7/14/2023 01:50 AM
Vinyl chloride	ND		1.28	µg/m3	1	7/14/2023 01:50 AM
Surr: Bromofluorobenzene	109		60-140	%REC	1	7/14/2023 01:50 AM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-7

Collection Date: 6/28/2023 09:05 AM

Work Order: 23061379

Lab ID: 23061379-07

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>		Analyst: LAK	
1,1,1-Trichloroethane	ND		0.50	ppbv	1	7/14/2023 02:35 AM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	7/14/2023 02:35 AM
1,1,2-Trichloroethane	ND		0.20	ppbv	1	7/14/2023 02:35 AM
1,1-Dichloroethane	ND		0.50	ppbv	1	7/14/2023 02:35 AM
1,1-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 02:35 AM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	7/14/2023 02:35 AM
<b>1,2,4-Trimethylbenzene</b>	<b>0.51</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 02:35 AM
1,2-Dibromoethane	ND		0.20	ppbv	1	7/14/2023 02:35 AM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	7/14/2023 02:35 AM
1,2-Dichloroethane	ND		0.20	ppbv	1	7/14/2023 02:35 AM
1,2-Dichloropropane	ND		0.50	ppbv	1	7/14/2023 02:35 AM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	7/14/2023 02:35 AM
<b>1,3-Butadiene</b>	<b>2.6</b>		<b>0.20</b>	<b>ppbv</b>	1	7/14/2023 02:35 AM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	7/14/2023 02:35 AM
1,4-Dichlorobenzene	ND		0.20	ppbv	1	7/14/2023 02:35 AM
1,4-Dioxane	ND		0.50	ppbv	1	7/14/2023 02:35 AM
<b>2-Butanone</b>	<b>4.4</b>		<b>1.0</b>	<b>ppbv</b>	1	7/14/2023 02:35 AM
2-Hexanone	ND		1.0	ppbv	1	7/14/2023 02:35 AM
<b>2-Propanol</b>	<b>2.8</b>		<b>1.0</b>	<b>ppbv</b>	1	7/14/2023 02:35 AM
4-Ethyltoluene	ND		0.50	ppbv	1	7/14/2023 02:35 AM
4-Methyl-2-pentanone	ND		1.0	ppbv	1	7/14/2023 02:35 AM
<b>Acetone</b>	<b>18</b>		<b>10</b>	<b>ppbv</b>	10	7/14/2023 02:09 PM
<b>Benzene</b>	<b>2.3</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 02:35 AM
Benzyl chloride	ND		0.50	ppbv	1	7/14/2023 02:35 AM
Bromodichloromethane	ND		0.20	ppbv	1	7/14/2023 02:35 AM
Bromoform	ND		0.50	ppbv	1	7/14/2023 02:35 AM
Bromomethane	ND		0.50	ppbv	1	7/14/2023 02:35 AM
<b>Carbon disulfide</b>	<b>1.6</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 02:35 AM
Carbon tetrachloride	ND		0.50	ppbv	1	7/14/2023 02:35 AM
Chlorobenzene	ND		0.50	ppbv	1	7/14/2023 02:35 AM
Chloroethane	ND		0.50	ppbv	1	7/14/2023 02:35 AM
<b>Chloroform</b>	<b>1.1</b>		<b>0.20</b>	<b>ppbv</b>	1	7/14/2023 02:35 AM
<b>Chloromethane</b>	<b>1.4</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 02:35 AM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 02:35 AM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	7/14/2023 02:35 AM
Cumene	ND		0.50	ppbv	1	7/14/2023 02:35 AM
<b>Cyclohexane</b>	<b>2.3</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 02:35 AM
Dibromochloromethane	ND		0.50	ppbv	1	7/14/2023 02:35 AM
Dichlorodifluoromethane	ND		0.50	ppbv	1	7/14/2023 02:35 AM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-7

Collection Date: 6/28/2023 09:05 AM

Work Order: 23061379

Lab ID: 23061379-07

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	7/14/2023 02:35 AM
<b>Ethylbenzene</b>	<b>0.59</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 02:35 AM
Freon 113	ND		0.50	ppbv	1	7/14/2023 02:35 AM
Freon 114	ND		0.50	ppbv	1	7/14/2023 02:35 AM
<b>Heptane</b>	<b>0.79</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 02:35 AM
Hexachlorobutadiene	ND		0.20	ppbv	1	7/14/2023 02:35 AM
<b>Hexane</b>	<b>1.3</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 02:35 AM
<b>m,p-Xylene</b>	<b>2.0</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 02:35 AM
Methylene chloride	ND		2.0	ppbv	1	7/14/2023 02:35 AM
MTBE	ND		0.50	ppbv	1	7/14/2023 02:35 AM
Naphthalene	ND		0.20	ppbv	1	7/14/2023 02:35 AM
<b>o-Xylene</b>	<b>0.71</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 02:35 AM
<b>Propene</b>	<b>56</b>		<b>5.0</b>	<b>ppbv</b>	10	7/14/2023 02:09 PM
Styrene	ND		0.50	ppbv	1	7/14/2023 02:35 AM
<b>Tetrachloroethene</b>	<b>0.90</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 02:35 AM
Tetrahydrofuran	ND		0.50	ppbv	1	7/14/2023 02:35 AM
<b>Toluene</b>	<b>1.6</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 02:35 AM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 02:35 AM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	7/14/2023 02:35 AM
Trichloroethene	ND		0.20	ppbv	1	7/14/2023 02:35 AM
Trichlorofluoromethane	ND		0.50	ppbv	1	7/14/2023 02:35 AM
Vinyl acetate	ND		1.0	ppbv	1	7/14/2023 02:35 AM
Vinyl chloride	ND		0.50	ppbv	1	7/14/2023 02:35 AM
Surr: Bromofluorobenzene	102		60-140	%REC	10	7/14/2023 02:09 PM
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>		Analyst: LAK	
1,1,1-Trichloroethane	ND		2.73	µg/m3	1	7/14/2023 02:35 AM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	7/14/2023 02:35 AM
1,1,2-Trichloroethane	ND		1.09	µg/m3	1	7/14/2023 02:35 AM
1,1-Dichloroethane	ND		2.02	µg/m3	1	7/14/2023 02:35 AM
1,1-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 02:35 AM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	7/14/2023 02:35 AM
<b>1,2,4-Trimethylbenzene</b>	<b>2.51</b>		<b>2.46</b>	<b>µg/m3</b>	1	7/14/2023 02:35 AM
1,2-Dibromoethane	ND		1.54	µg/m3	1	7/14/2023 02:35 AM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	7/14/2023 02:35 AM
1,2-Dichloroethane	ND		0.809	µg/m3	1	7/14/2023 02:35 AM
1,2-Dichloropropane	ND		2.31	µg/m3	1	7/14/2023 02:35 AM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	7/14/2023 02:35 AM
<b>1,3-Butadiene</b>	<b>5.69</b>		<b>0.442</b>	<b>µg/m3</b>	1	7/14/2023 02:35 AM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	7/14/2023 02:35 AM
1,4-Dichlorobenzene	ND		1.20	µg/m3	1	7/14/2023 02:35 AM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-7

Collection Date: 6/28/2023 09:05 AM

Work Order: 23061379

Lab ID: 23061379-07

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1.80	µg/m3	1	7/14/2023 02:35 AM
<b>2-Butanone</b>	<b>13.1</b>		<b>2.95</b>	<b>µg/m3</b>	1	7/14/2023 02:35 AM
2-Hexanone	ND		4.10	µg/m3	1	7/14/2023 02:35 AM
<b>2-Propanol</b>	<b>6.76</b>		<b>2.46</b>	<b>µg/m3</b>	1	7/14/2023 02:35 AM
4-Ethyltoluene	ND		2.46	µg/m3	1	7/14/2023 02:35 AM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	7/14/2023 02:35 AM
<b>Acetone</b>	<b>43.7</b>		<b>23.8</b>	<b>µg/m3</b>	10	7/14/2023 02:09 PM
<b>Benzene</b>	<b>7.48</b>		<b>1.60</b>	<b>µg/m3</b>	1	7/14/2023 02:35 AM
Benzyl chloride	ND		2.55	µg/m3	1	7/14/2023 02:35 AM
Bromodichloromethane	ND		1.34	µg/m3	1	7/14/2023 02:35 AM
Bromoform	ND		5.17	µg/m3	1	7/14/2023 02:35 AM
Bromomethane	ND		1.94	µg/m3	1	7/14/2023 02:35 AM
<b>Carbon disulfide</b>	<b>5.14</b>		<b>1.56</b>	<b>µg/m3</b>	1	7/14/2023 02:35 AM
Carbon tetrachloride	ND		3.15	µg/m3	1	7/14/2023 02:35 AM
Chlorobenzene	ND		2.30	µg/m3	1	7/14/2023 02:35 AM
Chloroethane	ND		1.32	µg/m3	1	7/14/2023 02:35 AM
<b>Chloroform</b>	<b>5.37</b>		<b>0.976</b>	<b>µg/m3</b>	1	7/14/2023 02:35 AM
<b>Chloromethane</b>	<b>2.95</b>		<b>1.03</b>	<b>µg/m3</b>	1	7/14/2023 02:35 AM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 02:35 AM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/14/2023 02:35 AM
Cumene	ND		2.46	µg/m3	1	7/14/2023 02:35 AM
<b>Cyclohexane</b>	<b>7.99</b>		<b>1.72</b>	<b>µg/m3</b>	1	7/14/2023 02:35 AM
Dibromochloromethane	ND		4.26	µg/m3	1	7/14/2023 02:35 AM
Dichlorodifluoromethane	ND		2.47	µg/m3	1	7/14/2023 02:35 AM
Ethyl acetate	ND		1.80	µg/m3	1	7/14/2023 02:35 AM
<b>Ethylbenzene</b>	<b>2.56</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/14/2023 02:35 AM
Freon 113	ND		3.83	µg/m3	1	7/14/2023 02:35 AM
Freon 114	ND		3.50	µg/m3	1	7/14/2023 02:35 AM
<b>Heptane</b>	<b>3.24</b>		<b>2.05</b>	<b>µg/m3</b>	1	7/14/2023 02:35 AM
Hexachlorobutadiene	ND		2.13	µg/m3	1	7/14/2023 02:35 AM
<b>Hexane</b>	<b>4.51</b>		<b>1.76</b>	<b>µg/m3</b>	1	7/14/2023 02:35 AM
<b>m,p-Xylene</b>	<b>8.73</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/14/2023 02:35 AM
Methylene chloride	ND		7.00	µg/m3	1	7/14/2023 02:35 AM
MTBE	ND		1.80	µg/m3	1	7/14/2023 02:35 AM
Naphthalene	ND		1.05	µg/m3	1	7/14/2023 02:35 AM
<b>o-Xylene</b>	<b>3.08</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/14/2023 02:35 AM
<b>Propene</b>	<b>95.7</b>		<b>8.61</b>	<b>µg/m3</b>	10	7/14/2023 02:09 PM
Styrene	ND		2.13	µg/m3	1	7/14/2023 02:35 AM
<b>Tetrachloroethene</b>	<b>6.10</b>		<b>3.39</b>	<b>µg/m3</b>	1	7/14/2023 02:35 AM
Tetrahydrofuran	ND		1.47	µg/m3	1	7/14/2023 02:35 AM

Note:

## ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-7

Collection Date: 6/28/2023 09:05 AM

Work Order: 23061379

Lab ID: 23061379-07

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	6.03		1.88	µg/m3	1	7/14/2023 02:35 AM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 02:35 AM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/14/2023 02:35 AM
Trichloroethene	ND		1.07	µg/m3	1	7/14/2023 02:35 AM
Trichlorofluoromethane	ND		2.81	µg/m3	1	7/14/2023 02:35 AM
Vinyl acetate	ND		3.52	µg/m3	1	7/14/2023 02:35 AM
Vinyl chloride	ND		1.28	µg/m3	1	7/14/2023 02:35 AM
Surr: Bromofluorobenzene	102		60-140	%REC	10	7/14/2023 02:09 PM

Note:



# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech  
 Project: Boys & Girls Home; 103G65210190.17.03  
 Sample ID: SG-8  
 Collection Date: 6/28/2023 10:13 AM

Work Order: 23061379  
 Lab ID: 23061379-08  
 Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>		Analyst: LAK	
1,1,1-Trichloroethane	ND		0.50	ppbv	1	7/14/2023 03:21 AM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	7/14/2023 03:21 AM
1,1,2-Trichloroethane	ND		0.20	ppbv	1	7/14/2023 03:21 AM
1,1-Dichloroethane	ND		0.50	ppbv	1	7/14/2023 03:21 AM
1,1-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 03:21 AM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	7/14/2023 03:21 AM
<b>1,2,4-Trimethylbenzene</b>	<b>1.0</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 03:21 AM
1,2-Dibromoethane	ND		0.20	ppbv	1	7/14/2023 03:21 AM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	7/14/2023 03:21 AM
1,2-Dichloroethane	ND		0.20	ppbv	1	7/14/2023 03:21 AM
1,2-Dichloropropane	ND		0.50	ppbv	1	7/14/2023 03:21 AM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	7/14/2023 03:21 AM
<b>1,3-Butadiene</b>	<b>0.88</b>		<b>0.20</b>	<b>ppbv</b>	1	7/14/2023 03:21 AM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	7/14/2023 03:21 AM
1,4-Dichlorobenzene	ND		0.20	ppbv	1	7/14/2023 03:21 AM
1,4-Dioxane	ND		0.50	ppbv	1	7/14/2023 03:21 AM
<b>2-Butanone</b>	<b>2.2</b>		<b>1.0</b>	<b>ppbv</b>	1	7/14/2023 03:21 AM
2-Hexanone	ND		1.0	ppbv	1	7/14/2023 03:21 AM
<b>2-Propanol</b>	<b>1.3</b>		<b>1.0</b>	<b>ppbv</b>	1	7/14/2023 03:21 AM
4-Ethyltoluene	ND		0.50	ppbv	1	7/14/2023 03:21 AM
4-Methyl-2-pentanone	ND		1.0	ppbv	1	7/14/2023 03:21 AM
<b>Acetone</b>	<b>16</b>		<b>1.0</b>	<b>ppbv</b>	1	7/14/2023 03:21 AM
<b>Benzene</b>	<b>0.54</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 03:21 AM
Benzyl chloride	ND		0.50	ppbv	1	7/14/2023 03:21 AM
Bromodichloromethane	ND		0.20	ppbv	1	7/14/2023 03:21 AM
Bromoform	ND		0.50	ppbv	1	7/14/2023 03:21 AM
Bromomethane	ND		0.50	ppbv	1	7/14/2023 03:21 AM
<b>Carbon disulfide</b>	<b>2.4</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 03:21 AM
Carbon tetrachloride	ND		0.50	ppbv	1	7/14/2023 03:21 AM
Chlorobenzene	ND		0.50	ppbv	1	7/14/2023 03:21 AM
Chloroethane	ND		0.50	ppbv	1	7/14/2023 03:21 AM
Chloroform	ND		0.20	ppbv	1	7/14/2023 03:21 AM
Chloromethane	ND		0.50	ppbv	1	7/14/2023 03:21 AM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 03:21 AM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	7/14/2023 03:21 AM
Cumene	ND		0.50	ppbv	1	7/14/2023 03:21 AM
Cyclohexane	ND		0.50	ppbv	1	7/14/2023 03:21 AM
Dibromochloromethane	ND		0.50	ppbv	1	7/14/2023 03:21 AM
Dichlorodifluoromethane	ND		0.50	ppbv	1	7/14/2023 03:21 AM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-8

Collection Date: 6/28/2023 10:13 AM

Work Order: 23061379

Lab ID: 23061379-08

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	7/14/2023 03:21 AM
<b>Ethylbenzene</b>	<b>0.84</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 03:21 AM
Freon 113	ND		0.50	ppbv	1	7/14/2023 03:21 AM
Freon 114	ND		0.50	ppbv	1	7/14/2023 03:21 AM
Heptane	ND		0.50	ppbv	1	7/14/2023 03:21 AM
Hexachlorobutadiene	ND		0.20	ppbv	1	7/14/2023 03:21 AM
<b>Hexane</b>	<b>0.73</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 03:21 AM
<b>m,p-Xylene</b>	<b>3.2</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 03:21 AM
Methylene chloride	ND		2.0	ppbv	1	7/14/2023 03:21 AM
MTBE	ND		0.50	ppbv	1	7/14/2023 03:21 AM
Naphthalene	ND		0.20	ppbv	1	7/14/2023 03:21 AM
<b>o-Xylene</b>	<b>1.1</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 03:21 AM
<b>Propene</b>	<b>18</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 03:21 AM
Styrene	ND		0.50	ppbv	1	7/14/2023 03:21 AM
<b>Tetrachloroethene</b>	<b>0.87</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 03:21 AM
Tetrahydrofuran	ND		0.50	ppbv	1	7/14/2023 03:21 AM
<b>Toluene</b>	<b>1.0</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 03:21 AM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 03:21 AM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	7/14/2023 03:21 AM
Trichloroethene	ND		0.20	ppbv	1	7/14/2023 03:21 AM
Trichlorofluoromethane	ND		0.50	ppbv	1	7/14/2023 03:21 AM
Vinyl acetate	ND		1.0	ppbv	1	7/14/2023 03:21 AM
Vinyl chloride	ND		0.50	ppbv	1	7/14/2023 03:21 AM
Surr: Bromofluorobenzene	104		60-140	%REC	1	7/14/2023 03:21 AM
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>		Analyst: LAK	
1,1,1-Trichloroethane	ND		2.73	µg/m3	1	7/14/2023 03:21 AM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	7/14/2023 03:21 AM
1,1,2-Trichloroethane	ND		1.09	µg/m3	1	7/14/2023 03:21 AM
1,1-Dichloroethane	ND		2.02	µg/m3	1	7/14/2023 03:21 AM
1,1-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 03:21 AM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	7/14/2023 03:21 AM
<b>1,2,4-Trimethylbenzene</b>	<b>5.11</b>		<b>2.46</b>	<b>µg/m3</b>	1	7/14/2023 03:21 AM
1,2-Dibromoethane	ND		1.54	µg/m3	1	7/14/2023 03:21 AM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	7/14/2023 03:21 AM
1,2-Dichloroethane	ND		0.809	µg/m3	1	7/14/2023 03:21 AM
1,2-Dichloropropane	ND		2.31	µg/m3	1	7/14/2023 03:21 AM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	7/14/2023 03:21 AM
<b>1,3-Butadiene</b>	<b>1.95</b>		<b>0.442</b>	<b>µg/m3</b>	1	7/14/2023 03:21 AM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	7/14/2023 03:21 AM
1,4-Dichlorobenzene	ND		1.20	µg/m3	1	7/14/2023 03:21 AM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-8

Collection Date: 6/28/2023 10:13 AM

Work Order: 23061379

Lab ID: 23061379-08

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1.80	µg/m3	1	7/14/2023 03:21 AM
<b>2-Butanone</b>	<b>6.34</b>		<b>2.95</b>	<b>µg/m3</b>	1	7/14/2023 03:21 AM
2-Hexanone	ND		4.10	µg/m3	1	7/14/2023 03:21 AM
<b>2-Propanol</b>	<b>3.27</b>		<b>2.46</b>	<b>µg/m3</b>	1	7/14/2023 03:21 AM
4-Ethyltoluene	ND		2.46	µg/m3	1	7/14/2023 03:21 AM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	7/14/2023 03:21 AM
<b>Acetone</b>	<b>37.3</b>		<b>2.38</b>	<b>µg/m3</b>	1	7/14/2023 03:21 AM
<b>Benzene</b>	<b>1.73</b>		<b>1.60</b>	<b>µg/m3</b>	1	7/14/2023 03:21 AM
Benzyl chloride	ND		2.55	µg/m3	1	7/14/2023 03:21 AM
Bromodichloromethane	ND		1.34	µg/m3	1	7/14/2023 03:21 AM
Bromoform	ND		5.17	µg/m3	1	7/14/2023 03:21 AM
Bromomethane	ND		1.94	µg/m3	1	7/14/2023 03:21 AM
<b>Carbon disulfide</b>	<b>7.35</b>		<b>1.56</b>	<b>µg/m3</b>	1	7/14/2023 03:21 AM
Carbon tetrachloride	ND		3.15	µg/m3	1	7/14/2023 03:21 AM
Chlorobenzene	ND		2.30	µg/m3	1	7/14/2023 03:21 AM
Chloroethane	ND		1.32	µg/m3	1	7/14/2023 03:21 AM
Chloroform	ND		0.976	µg/m3	1	7/14/2023 03:21 AM
Chloromethane	ND		1.03	µg/m3	1	7/14/2023 03:21 AM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 03:21 AM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/14/2023 03:21 AM
Cumene	ND		2.46	µg/m3	1	7/14/2023 03:21 AM
Cyclohexane	ND		1.72	µg/m3	1	7/14/2023 03:21 AM
Dibromochloromethane	ND		4.26	µg/m3	1	7/14/2023 03:21 AM
Dichlorodifluoromethane	ND		2.47	µg/m3	1	7/14/2023 03:21 AM
Ethyl acetate	ND		1.80	µg/m3	1	7/14/2023 03:21 AM
<b>Ethylbenzene</b>	<b>3.65</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/14/2023 03:21 AM
Freon 113	ND		3.83	µg/m3	1	7/14/2023 03:21 AM
Freon 114	ND		3.50	µg/m3	1	7/14/2023 03:21 AM
Heptane	ND		2.05	µg/m3	1	7/14/2023 03:21 AM
Hexachlorobutadiene	ND		2.13	µg/m3	1	7/14/2023 03:21 AM
<b>Hexane</b>	<b>2.57</b>		<b>1.76</b>	<b>µg/m3</b>	1	7/14/2023 03:21 AM
<b>m,p-Xylene</b>	<b>14.0</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/14/2023 03:21 AM
Methylene chloride	ND		7.00	µg/m3	1	7/14/2023 03:21 AM
MTBE	ND		1.80	µg/m3	1	7/14/2023 03:21 AM
Naphthalene	ND		1.05	µg/m3	1	7/14/2023 03:21 AM
<b>o-Xylene</b>	<b>4.65</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/14/2023 03:21 AM
<b>Propene</b>	<b>30.4</b>		<b>0.861</b>	<b>µg/m3</b>	1	7/14/2023 03:21 AM
Styrene	ND		2.13	µg/m3	1	7/14/2023 03:21 AM
<b>Tetrachloroethene</b>	<b>5.90</b>		<b>3.39</b>	<b>µg/m3</b>	1	7/14/2023 03:21 AM
Tetrahydrofuran	ND		1.47	µg/m3	1	7/14/2023 03:21 AM

Note:

## ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-8

Collection Date: 6/28/2023 10:13 AM

Work Order: 23061379

Lab ID: 23061379-08

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	3.92		1.88	µg/m3	1	7/14/2023 03:21 AM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 03:21 AM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/14/2023 03:21 AM
Trichloroethene	ND		1.07	µg/m3	1	7/14/2023 03:21 AM
Trichlorofluoromethane	ND		2.81	µg/m3	1	7/14/2023 03:21 AM
Vinyl acetate	ND		3.52	µg/m3	1	7/14/2023 03:21 AM
Vinyl chloride	ND		1.28	µg/m3	1	7/14/2023 03:21 AM
Surr: Bromofluorobenzene	104		60-140	%REC	1	7/14/2023 03:21 AM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-9

Collection Date: 6/28/2023 11:23 AM

Work Order: 23061379

Lab ID: 23061379-09

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>		Analyst: LAK	
1,1,1-Trichloroethane	ND		0.50	ppbv	1	7/14/2023 04:52 AM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	7/14/2023 04:52 AM
1,1,2-Trichloroethane	ND		0.20	ppbv	1	7/14/2023 04:52 AM
1,1-Dichloroethane	ND		0.50	ppbv	1	7/14/2023 04:52 AM
1,1-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 04:52 AM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	7/14/2023 04:52 AM
<b>1,2,4-Trimethylbenzene</b>	<b>2.0</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 04:52 AM
1,2-Dibromoethane	ND		0.20	ppbv	1	7/14/2023 04:52 AM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	7/14/2023 04:52 AM
1,2-Dichloroethane	ND		0.20	ppbv	1	7/14/2023 04:52 AM
1,2-Dichloropropane	ND		0.50	ppbv	1	7/14/2023 04:52 AM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	7/14/2023 04:52 AM
1,3-Butadiene	ND		0.20	ppbv	1	7/14/2023 04:52 AM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	7/14/2023 04:52 AM
1,4-Dichlorobenzene	ND		0.20	ppbv	1	7/14/2023 04:52 AM
1,4-Dioxane	ND		0.50	ppbv	1	7/14/2023 04:52 AM
<b>2-Butanone</b>	<b>2.0</b>		<b>1.0</b>	<b>ppbv</b>	1	7/14/2023 04:52 AM
2-Hexanone	ND		1.0	ppbv	1	7/14/2023 04:52 AM
<b>2-Propanol</b>	<b>1.9</b>		<b>1.0</b>	<b>ppbv</b>	1	7/14/2023 04:52 AM
4-Ethyltoluene	ND		0.50	ppbv	1	7/14/2023 04:52 AM
4-Methyl-2-pentanone	ND		1.0	ppbv	1	7/14/2023 04:52 AM
<b>Acetone</b>	<b>12</b>		<b>1.0</b>	<b>ppbv</b>	1	7/14/2023 04:52 AM
<b>Benzene</b>	<b>3.8</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 04:52 AM
Benzyl chloride	ND		0.50	ppbv	1	7/14/2023 04:52 AM
Bromodichloromethane	ND		0.20	ppbv	1	7/14/2023 04:52 AM
Bromoform	ND		0.50	ppbv	1	7/14/2023 04:52 AM
Bromomethane	ND		0.50	ppbv	1	7/14/2023 04:52 AM
Carbon disulfide	ND		0.50	ppbv	1	7/14/2023 04:52 AM
Carbon tetrachloride	ND		0.50	ppbv	1	7/14/2023 04:52 AM
Chlorobenzene	ND		0.50	ppbv	1	7/14/2023 04:52 AM
Chloroethane	ND		0.50	ppbv	1	7/14/2023 04:52 AM
<b>Chloroform</b>	<b>2.0</b>		<b>0.20</b>	<b>ppbv</b>	1	7/14/2023 04:52 AM
<b>Chloromethane</b>	<b>1.3</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 04:52 AM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 04:52 AM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	7/14/2023 04:52 AM
Cumene	ND		0.50	ppbv	1	7/14/2023 04:52 AM
Cyclohexane	ND		0.50	ppbv	1	7/14/2023 04:52 AM
Dibromochloromethane	ND		0.50	ppbv	1	7/14/2023 04:52 AM
Dichlorodifluoromethane	ND		0.50	ppbv	1	7/14/2023 04:52 AM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-9

Collection Date: 6/28/2023 11:23 AM

Work Order: 23061379

Lab ID: 23061379-09

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	7/14/2023 04:52 AM
<b>Ethylbenzene</b>	<b>0.92</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 04:52 AM
Freon 113	ND		0.50	ppbv	1	7/14/2023 04:52 AM
Freon 114	ND		0.50	ppbv	1	7/14/2023 04:52 AM
<b>Heptane</b>	<b>0.52</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 04:52 AM
Hexachlorobutadiene	ND		0.20	ppbv	1	7/14/2023 04:52 AM
<b>Hexane</b>	<b>0.64</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 04:52 AM
<b>m,p-Xylene</b>	<b>3.7</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 04:52 AM
Methylene chloride	ND		2.0	ppbv	1	7/14/2023 04:52 AM
MTBE	ND		0.50	ppbv	1	7/14/2023 04:52 AM
<b>Naphthalene</b>	<b>0.39</b>		<b>0.20</b>	<b>ppbv</b>	1	7/14/2023 04:52 AM
<b>o-Xylene</b>	<b>1.3</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 04:52 AM
Propene	ND		0.50	ppbv	1	7/14/2023 04:52 AM
Styrene	ND		0.50	ppbv	1	7/14/2023 04:52 AM
<b>Tetrachloroethene</b>	<b>1.5</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 04:52 AM
Tetrahydrofuran	ND		0.50	ppbv	1	7/14/2023 04:52 AM
<b>Toluene</b>	<b>1.6</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 04:52 AM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 04:52 AM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	7/14/2023 04:52 AM
Trichloroethene	ND		0.20	ppbv	1	7/14/2023 04:52 AM
Trichlorofluoromethane	ND		0.50	ppbv	1	7/14/2023 04:52 AM
Vinyl acetate	ND		1.0	ppbv	1	7/14/2023 04:52 AM
Vinyl chloride	ND		0.50	ppbv	1	7/14/2023 04:52 AM
Surr: Bromofluorobenzene	148	S	60-140	%REC	1	7/14/2023 04:52 AM
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>		Analyst: LAK	
1,1,1-Trichloroethane	ND		2.73	µg/m3	1	7/14/2023 04:52 AM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	7/14/2023 04:52 AM
1,1,2-Trichloroethane	ND		1.09	µg/m3	1	7/14/2023 04:52 AM
1,1-Dichloroethane	ND		2.02	µg/m3	1	7/14/2023 04:52 AM
1,1-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 04:52 AM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	7/14/2023 04:52 AM
<b>1,2,4-Trimethylbenzene</b>	<b>9.83</b>		<b>2.46</b>	<b>µg/m3</b>	1	7/14/2023 04:52 AM
1,2-Dibromoethane	ND		1.54	µg/m3	1	7/14/2023 04:52 AM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	7/14/2023 04:52 AM
1,2-Dichloroethane	ND		0.809	µg/m3	1	7/14/2023 04:52 AM
1,2-Dichloropropane	ND		2.31	µg/m3	1	7/14/2023 04:52 AM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	7/14/2023 04:52 AM
1,3-Butadiene	ND		0.442	µg/m3	1	7/14/2023 04:52 AM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	7/14/2023 04:52 AM
1,4-Dichlorobenzene	ND		1.20	µg/m3	1	7/14/2023 04:52 AM

Note:



# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-9

Collection Date: 6/28/2023 11:23 AM

Work Order: 23061379

Lab ID: 23061379-09

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1.80	µg/m3	1	7/14/2023 04:52 AM
<b>2-Butanone</b>	<b>5.99</b>		<b>2.95</b>	<b>µg/m3</b>	1	7/14/2023 04:52 AM
2-Hexanone	ND		4.10	µg/m3	1	7/14/2023 04:52 AM
<b>2-Propanol</b>	<b>4.57</b>		<b>2.46</b>	<b>µg/m3</b>	1	7/14/2023 04:52 AM
4-Ethyltoluene	ND		2.46	µg/m3	1	7/14/2023 04:52 AM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	7/14/2023 04:52 AM
<b>Acetone</b>	<b>29.5</b>		<b>2.38</b>	<b>µg/m3</b>	1	7/14/2023 04:52 AM
<b>Benzene</b>	<b>12.1</b>		<b>1.60</b>	<b>µg/m3</b>	1	7/14/2023 04:52 AM
Benzyl chloride	ND		2.55	µg/m3	1	7/14/2023 04:52 AM
Bromodichloromethane	ND		1.34	µg/m3	1	7/14/2023 04:52 AM
Bromoform	ND		5.17	µg/m3	1	7/14/2023 04:52 AM
Bromomethane	ND		1.94	µg/m3	1	7/14/2023 04:52 AM
Carbon disulfide	ND		1.56	µg/m3	1	7/14/2023 04:52 AM
Carbon tetrachloride	ND		3.15	µg/m3	1	7/14/2023 04:52 AM
Chlorobenzene	ND		2.30	µg/m3	1	7/14/2023 04:52 AM
Chloroethane	ND		1.32	µg/m3	1	7/14/2023 04:52 AM
<b>Chloroform</b>	<b>10.0</b>		<b>0.976</b>	<b>µg/m3</b>	1	7/14/2023 04:52 AM
<b>Chloromethane</b>	<b>2.75</b>		<b>1.03</b>	<b>µg/m3</b>	1	7/14/2023 04:52 AM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 04:52 AM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/14/2023 04:52 AM
Cumene	ND		2.46	µg/m3	1	7/14/2023 04:52 AM
Cyclohexane	ND		1.72	µg/m3	1	7/14/2023 04:52 AM
Dibromochloromethane	ND		4.26	µg/m3	1	7/14/2023 04:52 AM
Dichlorodifluoromethane	ND		2.47	µg/m3	1	7/14/2023 04:52 AM
Ethyl acetate	ND		1.80	µg/m3	1	7/14/2023 04:52 AM
<b>Ethylbenzene</b>	<b>3.99</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/14/2023 04:52 AM
Freon 113	ND		3.83	µg/m3	1	7/14/2023 04:52 AM
Freon 114	ND		3.50	µg/m3	1	7/14/2023 04:52 AM
<b>Heptane</b>	<b>2.13</b>		<b>2.05</b>	<b>µg/m3</b>	1	7/14/2023 04:52 AM
Hexachlorobutadiene	ND		2.13	µg/m3	1	7/14/2023 04:52 AM
<b>Hexane</b>	<b>2.26</b>		<b>1.76</b>	<b>µg/m3</b>	1	7/14/2023 04:52 AM
<b>m,p-Xylene</b>	<b>15.9</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/14/2023 04:52 AM
Methylene chloride	ND		7.00	µg/m3	1	7/14/2023 04:52 AM
MTBE	ND		1.80	µg/m3	1	7/14/2023 04:52 AM
<b>Naphthalene</b>	<b>2.04</b>		<b>1.05</b>	<b>µg/m3</b>	1	7/14/2023 04:52 AM
<b>o-Xylene</b>	<b>5.47</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/14/2023 04:52 AM
Propene	ND		0.861	µg/m3	1	7/14/2023 04:52 AM
Styrene	ND		2.13	µg/m3	1	7/14/2023 04:52 AM
<b>Tetrachloroethene</b>	<b>10.2</b>		<b>3.39</b>	<b>µg/m3</b>	1	7/14/2023 04:52 AM
Tetrahydrofuran	ND		1.47	µg/m3	1	7/14/2023 04:52 AM

Note:

## ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-9

Collection Date: 6/28/2023 11:23 AM

Work Order: 23061379

Lab ID: 23061379-09

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Toluene</b>	<b>6.14</b>		<b>1.88</b>	<b>µg/m3</b>	1	7/14/2023 04:52 AM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 04:52 AM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/14/2023 04:52 AM
Trichloroethene	ND		1.07	µg/m3	1	7/14/2023 04:52 AM
Trichlorofluoromethane	ND		2.81	µg/m3	1	7/14/2023 04:52 AM
Vinyl acetate	ND		3.52	µg/m3	1	7/14/2023 04:52 AM
Vinyl chloride	ND		1.28	µg/m3	1	7/14/2023 04:52 AM
Surr: Bromofluorobenzene	148	S	60-140	%REC	1	7/14/2023 04:52 AM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-10

Collection Date: 6/28/2023 02:19 PM

Work Order: 23061379

Lab ID: 23061379-10

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>		Analyst: LAK	
1,1,1-Trichloroethane	ND		0.50	ppbv	1	7/14/2023 05:37 AM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	7/14/2023 05:37 AM
1,1,2-Trichloroethane	ND		0.20	ppbv	1	7/14/2023 05:37 AM
1,1-Dichloroethane	ND		0.50	ppbv	1	7/14/2023 05:37 AM
1,1-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 05:37 AM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	7/14/2023 05:37 AM
<b>1,2,4-Trimethylbenzene</b>	<b>1.8</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 05:37 AM
1,2-Dibromoethane	ND		0.20	ppbv	1	7/14/2023 05:37 AM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	7/14/2023 05:37 AM
1,2-Dichloroethane	ND		0.20	ppbv	1	7/14/2023 05:37 AM
1,2-Dichloropropane	ND		0.50	ppbv	1	7/14/2023 05:37 AM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	7/14/2023 05:37 AM
<b>1,3-Butadiene</b>	<b>0.59</b>		<b>0.20</b>	<b>ppbv</b>	1	7/14/2023 05:37 AM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	7/14/2023 05:37 AM
1,4-Dichlorobenzene	ND		0.20	ppbv	1	7/14/2023 05:37 AM
1,4-Dioxane	ND		0.50	ppbv	1	7/14/2023 05:37 AM
<b>2-Butanone</b>	<b>1.4</b>		<b>1.0</b>	<b>ppbv</b>	1	7/14/2023 05:37 AM
2-Hexanone	ND		1.0	ppbv	1	7/14/2023 05:37 AM
<b>2-Propanol</b>	<b>1.8</b>		<b>1.0</b>	<b>ppbv</b>	1	7/14/2023 05:37 AM
4-Ethyltoluene	ND		0.50	ppbv	1	7/14/2023 05:37 AM
4-Methyl-2-pentanone	ND		1.0	ppbv	1	7/14/2023 05:37 AM
<b>Acetone</b>	<b>7.5</b>		<b>1.0</b>	<b>ppbv</b>	1	7/14/2023 05:37 AM
<b>Benzene</b>	<b>2.1</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 05:37 AM
Benzyl chloride	ND		0.50	ppbv	1	7/14/2023 05:37 AM
Bromodichloromethane	ND		0.20	ppbv	1	7/14/2023 05:37 AM
Bromoform	ND		0.50	ppbv	1	7/14/2023 05:37 AM
Bromomethane	ND		0.50	ppbv	1	7/14/2023 05:37 AM
Carbon disulfide	ND		0.50	ppbv	1	7/14/2023 05:37 AM
Carbon tetrachloride	ND		0.50	ppbv	1	7/14/2023 05:37 AM
Chlorobenzene	ND		0.50	ppbv	1	7/14/2023 05:37 AM
Chloroethane	ND		0.50	ppbv	1	7/14/2023 05:37 AM
<b>Chloroform</b>	<b>1.1</b>		<b>0.20</b>	<b>ppbv</b>	1	7/14/2023 05:37 AM
<b>Chloromethane</b>	<b>0.74</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 05:37 AM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 05:37 AM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	7/14/2023 05:37 AM
Cumene	ND		0.50	ppbv	1	7/14/2023 05:37 AM
Cyclohexane	ND		0.50	ppbv	1	7/14/2023 05:37 AM
Dibromochloromethane	ND		0.50	ppbv	1	7/14/2023 05:37 AM
Dichlorodifluoromethane	ND		0.50	ppbv	1	7/14/2023 05:37 AM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-10

Collection Date: 6/28/2023 02:19 PM

Work Order: 23061379

Lab ID: 23061379-10

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	7/14/2023 05:37 AM
<b>Ethylbenzene</b>	<b>0.60</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 05:37 AM
Freon 113	ND		0.50	ppbv	1	7/14/2023 05:37 AM
Freon 114	ND		0.50	ppbv	1	7/14/2023 05:37 AM
<b>Heptane</b>	<b>0.67</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 05:37 AM
Hexachlorobutadiene	ND		0.20	ppbv	1	7/14/2023 05:37 AM
<b>Hexane</b>	<b>1.2</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 05:37 AM
<b>m,p-Xylene</b>	<b>2.4</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 05:37 AM
Methylene chloride	ND		2.0	ppbv	1	7/14/2023 05:37 AM
MTBE	ND		0.50	ppbv	1	7/14/2023 05:37 AM
<b>Naphthalene</b>	<b>0.48</b>		<b>0.20</b>	<b>ppbv</b>	1	7/14/2023 05:37 AM
<b>o-Xylene</b>	<b>0.85</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 05:37 AM
<b>Propene</b>	<b>19</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 05:37 AM
Styrene	ND		0.50	ppbv	1	7/14/2023 05:37 AM
<b>Tetrachloroethene</b>	<b>1.1</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 05:37 AM
Tetrahydrofuran	ND		0.50	ppbv	1	7/14/2023 05:37 AM
<b>Toluene</b>	<b>1.5</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 05:37 AM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 05:37 AM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	7/14/2023 05:37 AM
Trichloroethene	ND		0.20	ppbv	1	7/14/2023 05:37 AM
Trichlorofluoromethane	ND		0.50	ppbv	1	7/14/2023 05:37 AM
Vinyl acetate	ND		1.0	ppbv	1	7/14/2023 05:37 AM
Vinyl chloride	ND		0.50	ppbv	1	7/14/2023 05:37 AM
Surr: Bromofluorobenzene	130		60-140	%REC	1	7/14/2023 05:37 AM
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>		Analyst: <b>LAK</b>	
1,1,1-Trichloroethane	ND		2.73	µg/m3	1	7/14/2023 05:37 AM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	7/14/2023 05:37 AM
1,1,2-Trichloroethane	ND		1.09	µg/m3	1	7/14/2023 05:37 AM
1,1-Dichloroethane	ND		2.02	µg/m3	1	7/14/2023 05:37 AM
1,1-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 05:37 AM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	7/14/2023 05:37 AM
<b>1,2,4-Trimethylbenzene</b>	<b>8.80</b>		<b>2.46</b>	<b>µg/m3</b>	1	7/14/2023 05:37 AM
1,2-Dibromoethane	ND		1.54	µg/m3	1	7/14/2023 05:37 AM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	7/14/2023 05:37 AM
1,2-Dichloroethane	ND		0.809	µg/m3	1	7/14/2023 05:37 AM
1,2-Dichloropropane	ND		2.31	µg/m3	1	7/14/2023 05:37 AM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	7/14/2023 05:37 AM
<b>1,3-Butadiene</b>	<b>1.31</b>		<b>0.442</b>	<b>µg/m3</b>	1	7/14/2023 05:37 AM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	7/14/2023 05:37 AM
1,4-Dichlorobenzene	ND		1.20	µg/m3	1	7/14/2023 05:37 AM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-10

Collection Date: 6/28/2023 02:19 PM

Work Order: 23061379

Lab ID: 23061379-10

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1.80	µg/m3	1	7/14/2023 05:37 AM
<b>2-Butanone</b>	<b>4.10</b>		<b>2.95</b>	<b>µg/m3</b>	1	7/14/2023 05:37 AM
2-Hexanone	ND		4.10	µg/m3	1	7/14/2023 05:37 AM
<b>2-Propanol</b>	<b>4.45</b>		<b>2.46</b>	<b>µg/m3</b>	1	7/14/2023 05:37 AM
4-Ethyltoluene	ND		2.46	µg/m3	1	7/14/2023 05:37 AM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	7/14/2023 05:37 AM
<b>Acetone</b>	<b>17.8</b>		<b>2.38</b>	<b>µg/m3</b>	1	7/14/2023 05:37 AM
<b>Benzene</b>	<b>6.71</b>		<b>1.60</b>	<b>µg/m3</b>	1	7/14/2023 05:37 AM
Benzyl chloride	ND		2.55	µg/m3	1	7/14/2023 05:37 AM
Bromodichloromethane	ND		1.34	µg/m3	1	7/14/2023 05:37 AM
Bromoform	ND		5.17	µg/m3	1	7/14/2023 05:37 AM
Bromomethane	ND		1.94	µg/m3	1	7/14/2023 05:37 AM
Carbon disulfide	ND		1.56	µg/m3	1	7/14/2023 05:37 AM
Carbon tetrachloride	ND		3.15	µg/m3	1	7/14/2023 05:37 AM
Chlorobenzene	ND		2.30	µg/m3	1	7/14/2023 05:37 AM
Chloroethane	ND		1.32	µg/m3	1	7/14/2023 05:37 AM
<b>Chloroform</b>	<b>5.37</b>		<b>0.976</b>	<b>µg/m3</b>	1	7/14/2023 05:37 AM
<b>Chloromethane</b>	<b>1.53</b>		<b>1.03</b>	<b>µg/m3</b>	1	7/14/2023 05:37 AM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 05:37 AM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/14/2023 05:37 AM
Cumene	ND		2.46	µg/m3	1	7/14/2023 05:37 AM
Cyclohexane	ND		1.72	µg/m3	1	7/14/2023 05:37 AM
Dibromochloromethane	ND		4.26	µg/m3	1	7/14/2023 05:37 AM
Dichlorodifluoromethane	ND		2.47	µg/m3	1	7/14/2023 05:37 AM
Ethyl acetate	ND		1.80	µg/m3	1	7/14/2023 05:37 AM
<b>Ethylbenzene</b>	<b>2.61</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/14/2023 05:37 AM
Freon 113	ND		3.83	µg/m3	1	7/14/2023 05:37 AM
Freon 114	ND		3.50	µg/m3	1	7/14/2023 05:37 AM
<b>Heptane</b>	<b>2.75</b>		<b>2.05</b>	<b>µg/m3</b>	1	7/14/2023 05:37 AM
Hexachlorobutadiene	ND		2.13	µg/m3	1	7/14/2023 05:37 AM
<b>Hexane</b>	<b>4.30</b>		<b>1.76</b>	<b>µg/m3</b>	1	7/14/2023 05:37 AM
<b>m,p-Xylene</b>	<b>10.6</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/14/2023 05:37 AM
Methylene chloride	ND		7.00	µg/m3	1	7/14/2023 05:37 AM
MTBE	ND		1.80	µg/m3	1	7/14/2023 05:37 AM
<b>Naphthalene</b>	<b>2.52</b>		<b>1.05</b>	<b>µg/m3</b>	1	7/14/2023 05:37 AM
<b>o-Xylene</b>	<b>3.69</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/14/2023 05:37 AM
<b>Propene</b>	<b>32.1</b>		<b>0.861</b>	<b>µg/m3</b>	1	7/14/2023 05:37 AM
Styrene	ND		2.13	µg/m3	1	7/14/2023 05:37 AM
<b>Tetrachloroethene</b>	<b>7.73</b>		<b>3.39</b>	<b>µg/m3</b>	1	7/14/2023 05:37 AM
Tetrahydrofuran	ND		1.47	µg/m3	1	7/14/2023 05:37 AM

Note:

## ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Work Order: 23061379

Sample ID: SG-10

Lab ID: 23061379-10

Collection Date: 6/28/2023 02:19 PM

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Toluene</b>	<b>5.65</b>		<b>1.88</b>	<b>µg/m3</b>	1	7/14/2023 05:37 AM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 05:37 AM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/14/2023 05:37 AM
Trichloroethene	ND		1.07	µg/m3	1	7/14/2023 05:37 AM
Trichlorofluoromethane	ND		2.81	µg/m3	1	7/14/2023 05:37 AM
Vinyl acetate	ND		3.52	µg/m3	1	7/14/2023 05:37 AM
Vinyl chloride	ND		1.28	µg/m3	1	7/14/2023 05:37 AM
Surr: Bromofluorobenzene	130		60-140	%REC	1	7/14/2023 05:37 AM

Note:



# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-11

Collection Date: 6/28/2023 03:40 PM

Work Order: 23061379

Lab ID: 23061379-11

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>		Analyst: LAK	
1,1,1-Trichloroethane	ND		0.50	ppbv	1	7/14/2023 06:53 AM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	7/14/2023 06:53 AM
1,1,2-Trichloroethane	ND		0.20	ppbv	1	7/14/2023 06:53 AM
1,1-Dichloroethane	ND		0.50	ppbv	1	7/14/2023 06:53 AM
1,1-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 06:53 AM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	7/14/2023 06:53 AM
<b>1,2,4-Trimethylbenzene</b>	<b>1.4</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 06:53 AM
1,2-Dibromoethane	ND		0.20	ppbv	1	7/14/2023 06:53 AM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	7/14/2023 06:53 AM
1,2-Dichloroethane	ND		0.20	ppbv	1	7/14/2023 06:53 AM
1,2-Dichloropropane	ND		0.50	ppbv	1	7/14/2023 06:53 AM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	7/14/2023 06:53 AM
<b>1,3-Butadiene</b>	<b>0.23</b>		<b>0.20</b>	<b>ppbv</b>	1	7/14/2023 06:53 AM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	7/14/2023 06:53 AM
1,4-Dichlorobenzene	ND		0.20	ppbv	1	7/14/2023 06:53 AM
1,4-Dioxane	ND		0.50	ppbv	1	7/14/2023 06:53 AM
2-Butanone	ND		1.0	ppbv	1	7/14/2023 06:53 AM
2-Hexanone	ND		1.0	ppbv	1	7/14/2023 06:53 AM
<b>2-Propanol</b>	<b>1.3</b>		<b>1.0</b>	<b>ppbv</b>	1	7/14/2023 06:53 AM
4-Ethyltoluene	ND		0.50	ppbv	1	7/14/2023 06:53 AM
4-Methyl-2-pentanone	ND		1.0	ppbv	1	7/14/2023 06:53 AM
<b>Acetone</b>	<b>7.2</b>		<b>1.0</b>	<b>ppbv</b>	1	7/14/2023 06:53 AM
<b>Benzene</b>	<b>2.6</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 06:53 AM
Benzyl chloride	ND		0.50	ppbv	1	7/14/2023 06:53 AM
Bromodichloromethane	ND		0.20	ppbv	1	7/14/2023 06:53 AM
Bromoform	ND		0.50	ppbv	1	7/14/2023 06:53 AM
Bromomethane	ND		0.50	ppbv	1	7/14/2023 06:53 AM
Carbon disulfide	ND		0.50	ppbv	1	7/14/2023 06:53 AM
Carbon tetrachloride	ND		0.50	ppbv	1	7/14/2023 06:53 AM
Chlorobenzene	ND		0.50	ppbv	1	7/14/2023 06:53 AM
Chloroethane	ND		0.50	ppbv	1	7/14/2023 06:53 AM
<b>Chloroform</b>	<b>1.8</b>		<b>0.20</b>	<b>ppbv</b>	1	7/14/2023 06:53 AM
<b>Chloromethane</b>	<b>1.0</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 06:53 AM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 06:53 AM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	7/14/2023 06:53 AM
Cumene	ND		0.50	ppbv	1	7/14/2023 06:53 AM
Cyclohexane	ND		0.50	ppbv	1	7/14/2023 06:53 AM
Dibromochloromethane	ND		0.50	ppbv	1	7/14/2023 06:53 AM
Dichlorodifluoromethane	ND		0.50	ppbv	1	7/14/2023 06:53 AM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Work Order: 23061379

Sample ID: SG-11

Lab ID: 23061379-11

Collection Date: 6/28/2023 03:40 PM

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	7/14/2023 06:53 AM
Ethylbenzene	ND		0.50	ppbv	1	7/14/2023 06:53 AM
Freon 113	ND		0.50	ppbv	1	7/14/2023 06:53 AM
Freon 114	ND		0.50	ppbv	1	7/14/2023 06:53 AM
Heptane	ND		0.50	ppbv	1	7/14/2023 06:53 AM
Hexachlorobutadiene	ND		0.20	ppbv	1	7/14/2023 06:53 AM
Hexane	ND		0.50	ppbv	1	7/14/2023 06:53 AM
<b>m,p-Xylene</b>	<b>2.1</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 06:53 AM
Methylene chloride	ND		2.0	ppbv	1	7/14/2023 06:53 AM
MTBE	ND		0.50	ppbv	1	7/14/2023 06:53 AM
<b>Naphthalene</b>	<b>0.37</b>		<b>0.20</b>	<b>ppbv</b>	1	7/14/2023 06:53 AM
<b>o-Xylene</b>	<b>0.67</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 06:53 AM
<b>Propene</b>	<b>4.3</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 06:53 AM
Styrene	ND		0.50	ppbv	1	7/14/2023 06:53 AM
<b>Tetrachloroethene</b>	<b>0.89</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 06:53 AM
Tetrahydrofuran	ND		0.50	ppbv	1	7/14/2023 06:53 AM
<b>Toluene</b>	<b>0.86</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 06:53 AM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 06:53 AM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	7/14/2023 06:53 AM
Trichloroethene	ND		0.20	ppbv	1	7/14/2023 06:53 AM
Trichlorofluoromethane	ND		0.50	ppbv	1	7/14/2023 06:53 AM
Vinyl acetate	ND		1.0	ppbv	1	7/14/2023 06:53 AM
Vinyl chloride	ND		0.50	ppbv	1	7/14/2023 06:53 AM
Surr: Bromofluorobenzene	116		60-140	%REC	1	7/14/2023 06:53 AM
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>		<b>Analyst: LAK</b>	
1,1,1-Trichloroethane	ND		2.73	µg/m3	1	7/14/2023 06:53 AM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	7/14/2023 06:53 AM
1,1,2-Trichloroethane	ND		1.09	µg/m3	1	7/14/2023 06:53 AM
1,1-Dichloroethane	ND		2.02	µg/m3	1	7/14/2023 06:53 AM
1,1-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 06:53 AM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	7/14/2023 06:53 AM
<b>1,2,4-Trimethylbenzene</b>	<b>6.83</b>		<b>2.46</b>	<b>µg/m3</b>	1	7/14/2023 06:53 AM
1,2-Dibromoethane	ND		1.54	µg/m3	1	7/14/2023 06:53 AM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	7/14/2023 06:53 AM
1,2-Dichloroethane	ND		0.809	µg/m3	1	7/14/2023 06:53 AM
1,2-Dichloropropane	ND		2.31	µg/m3	1	7/14/2023 06:53 AM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	7/14/2023 06:53 AM
<b>1,3-Butadiene</b>	<b>0.509</b>		<b>0.442</b>	<b>µg/m3</b>	1	7/14/2023 06:53 AM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	7/14/2023 06:53 AM
1,4-Dichlorobenzene	ND		1.20	µg/m3	1	7/14/2023 06:53 AM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-11

Collection Date: 6/28/2023 03:40 PM

Work Order: 23061379

Lab ID: 23061379-11

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1.80	µg/m3	1	7/14/2023 06:53 AM
2-Butanone	ND		2.95	µg/m3	1	7/14/2023 06:53 AM
2-Hexanone	ND		4.10	µg/m3	1	7/14/2023 06:53 AM
<b>2-Propanol</b>	<b>3.12</b>		<b>2.46</b>	<b>µg/m3</b>	1	7/14/2023 06:53 AM
4-Ethyltoluene	ND		2.46	µg/m3	1	7/14/2023 06:53 AM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	7/14/2023 06:53 AM
<b>Acetone</b>	<b>17.2</b>		<b>2.38</b>	<b>µg/m3</b>	1	7/14/2023 06:53 AM
<b>Benzene</b>	<b>8.18</b>		<b>1.60</b>	<b>µg/m3</b>	1	7/14/2023 06:53 AM
Benzyl chloride	ND		2.55	µg/m3	1	7/14/2023 06:53 AM
Bromodichloromethane	ND		1.34	µg/m3	1	7/14/2023 06:53 AM
Bromoform	ND		5.17	µg/m3	1	7/14/2023 06:53 AM
Bromomethane	ND		1.94	µg/m3	1	7/14/2023 06:53 AM
Carbon disulfide	ND		1.56	µg/m3	1	7/14/2023 06:53 AM
Carbon tetrachloride	ND		3.15	µg/m3	1	7/14/2023 06:53 AM
Chlorobenzene	ND		2.30	µg/m3	1	7/14/2023 06:53 AM
Chloroethane	ND		1.32	µg/m3	1	7/14/2023 06:53 AM
<b>Chloroform</b>	<b>8.69</b>		<b>0.976</b>	<b>µg/m3</b>	1	7/14/2023 06:53 AM
<b>Chloromethane</b>	<b>2.13</b>		<b>1.03</b>	<b>µg/m3</b>	1	7/14/2023 06:53 AM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 06:53 AM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/14/2023 06:53 AM
Cumene	ND		2.46	µg/m3	1	7/14/2023 06:53 AM
Cyclohexane	ND		1.72	µg/m3	1	7/14/2023 06:53 AM
Dibromochloromethane	ND		4.26	µg/m3	1	7/14/2023 06:53 AM
Dichlorodifluoromethane	ND		2.47	µg/m3	1	7/14/2023 06:53 AM
Ethyl acetate	ND		1.80	µg/m3	1	7/14/2023 06:53 AM
Ethylbenzene	ND		2.17	µg/m3	1	7/14/2023 06:53 AM
Freon 113	ND		3.83	µg/m3	1	7/14/2023 06:53 AM
Freon 114	ND		3.50	µg/m3	1	7/14/2023 06:53 AM
Heptane	ND		2.05	µg/m3	1	7/14/2023 06:53 AM
Hexachlorobutadiene	ND		2.13	µg/m3	1	7/14/2023 06:53 AM
Hexane	ND		1.76	µg/m3	1	7/14/2023 06:53 AM
<b>m,p-Xylene</b>	<b>9.03</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/14/2023 06:53 AM
Methylene chloride	ND		7.00	µg/m3	1	7/14/2023 06:53 AM
MTBE	ND		1.80	µg/m3	1	7/14/2023 06:53 AM
<b>Naphthalene</b>	<b>1.94</b>		<b>1.05</b>	<b>µg/m3</b>	1	7/14/2023 06:53 AM
<b>o-Xylene</b>	<b>2.91</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/14/2023 06:53 AM
<b>Propene</b>	<b>7.44</b>		<b>0.861</b>	<b>µg/m3</b>	1	7/14/2023 06:53 AM
Styrene	ND		2.13	µg/m3	1	7/14/2023 06:53 AM
<b>Tetrachloroethene</b>	<b>6.04</b>		<b>3.39</b>	<b>µg/m3</b>	1	7/14/2023 06:53 AM
Tetrahydrofuran	ND		1.47	µg/m3	1	7/14/2023 06:53 AM

Note:

## ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Work Order: 23061379

Sample ID: SG-11

Lab ID: 23061379-11

Collection Date: 6/28/2023 03:40 PM

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Toluene</b>	<b>3.24</b>		<b>1.88</b>	<b>µg/m3</b>	1	7/14/2023 06:53 AM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 06:53 AM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/14/2023 06:53 AM
Trichloroethene	ND		1.07	µg/m3	1	7/14/2023 06:53 AM
Trichlorofluoromethane	ND		2.81	µg/m3	1	7/14/2023 06:53 AM
Vinyl acetate	ND		3.52	µg/m3	1	7/14/2023 06:53 AM
Vinyl chloride	ND		1.28	µg/m3	1	7/14/2023 06:53 AM
Surr: Bromofluorobenzene	116		60-140	%REC	1	7/14/2023 06:53 AM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-12

Collection Date: 6/28/2023 03:59 PM

Work Order: 23061379

Lab ID: 23061379-12

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>			Analyst: LAK
1,1,1-Trichloroethane	ND		0.50	ppbv	1	7/14/2023 07:39 AM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	7/14/2023 07:39 AM
1,1,2-Trichloroethane	ND		0.20	ppbv	1	7/14/2023 07:39 AM
1,1-Dichloroethane	ND		0.50	ppbv	1	7/14/2023 07:39 AM
1,1-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 07:39 AM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	7/14/2023 07:39 AM
<b>1,2,4-Trimethylbenzene</b>	<b>1.4</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 07:39 AM
1,2-Dibromoethane	ND		0.20	ppbv	1	7/14/2023 07:39 AM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	7/14/2023 07:39 AM
1,2-Dichloroethane	ND		0.20	ppbv	1	7/14/2023 07:39 AM
1,2-Dichloropropane	ND		0.50	ppbv	1	7/14/2023 07:39 AM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	7/14/2023 07:39 AM
<b>1,3-Butadiene</b>	<b>0.29</b>		<b>0.20</b>	<b>ppbv</b>	1	7/14/2023 07:39 AM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	7/14/2023 07:39 AM
1,4-Dichlorobenzene	ND		0.20	ppbv	1	7/14/2023 07:39 AM
1,4-Dioxane	ND		0.50	ppbv	1	7/14/2023 07:39 AM
2-Butanone	ND		1.0	ppbv	1	7/14/2023 07:39 AM
2-Hexanone	ND		1.0	ppbv	1	7/14/2023 07:39 AM
<b>2-Propanol</b>	<b>1.2</b>		<b>1.0</b>	<b>ppbv</b>	1	7/14/2023 07:39 AM
4-Ethyltoluene	ND		0.50	ppbv	1	7/14/2023 07:39 AM
4-Methyl-2-pentanone	ND		1.0	ppbv	1	7/14/2023 07:39 AM
<b>Acetone</b>	<b>7.2</b>		<b>1.0</b>	<b>ppbv</b>	1	7/14/2023 07:39 AM
<b>Benzene</b>	<b>2.6</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 07:39 AM
Benzyl chloride	ND		0.50	ppbv	1	7/14/2023 07:39 AM
Bromodichloromethane	ND		0.20	ppbv	1	7/14/2023 07:39 AM
Bromoform	ND		0.50	ppbv	1	7/14/2023 07:39 AM
Bromomethane	ND		0.50	ppbv	1	7/14/2023 07:39 AM
Carbon disulfide	ND		0.50	ppbv	1	7/14/2023 07:39 AM
Carbon tetrachloride	ND		0.50	ppbv	1	7/14/2023 07:39 AM
Chlorobenzene	ND		0.50	ppbv	1	7/14/2023 07:39 AM
Chloroethane	ND		0.50	ppbv	1	7/14/2023 07:39 AM
<b>Chloroform</b>	<b>1.8</b>		<b>0.20</b>	<b>ppbv</b>	1	7/14/2023 07:39 AM
<b>Chloromethane</b>	<b>1.0</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 07:39 AM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 07:39 AM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	7/14/2023 07:39 AM
Cumene	ND		0.50	ppbv	1	7/14/2023 07:39 AM
Cyclohexane	ND		0.50	ppbv	1	7/14/2023 07:39 AM
Dibromochloromethane	ND		0.50	ppbv	1	7/14/2023 07:39 AM
Dichlorodifluoromethane	ND		0.50	ppbv	1	7/14/2023 07:39 AM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Work Order: 23061379

Sample ID: SG-12

Lab ID: 23061379-12

Collection Date: 6/28/2023 03:59 PM

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	7/14/2023 07:39 AM
Ethylbenzene	ND		0.50	ppbv	1	7/14/2023 07:39 AM
Freon 113	ND		0.50	ppbv	1	7/14/2023 07:39 AM
Freon 114	ND		0.50	ppbv	1	7/14/2023 07:39 AM
Heptane	ND		0.50	ppbv	1	7/14/2023 07:39 AM
Hexachlorobutadiene	ND		0.20	ppbv	1	7/14/2023 07:39 AM
Hexane	ND		0.50	ppbv	1	7/14/2023 07:39 AM
<b>m,p-Xylene</b>	<b>2.1</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 07:39 AM
Methylene chloride	ND		2.0	ppbv	1	7/14/2023 07:39 AM
MTBE	ND		0.50	ppbv	1	7/14/2023 07:39 AM
<b>Naphthalene</b>	<b>0.38</b>		<b>0.20</b>	<b>ppbv</b>	1	7/14/2023 07:39 AM
<b>o-Xylene</b>	<b>0.66</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 07:39 AM
<b>Propene</b>	<b>4.2</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 07:39 AM
Styrene	ND		0.50	ppbv	1	7/14/2023 07:39 AM
<b>Tetrachloroethene</b>	<b>0.90</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 07:39 AM
Tetrahydrofuran	ND		0.50	ppbv	1	7/14/2023 07:39 AM
<b>Toluene</b>	<b>0.84</b>		<b>0.50</b>	<b>ppbv</b>	1	7/14/2023 07:39 AM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	7/14/2023 07:39 AM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	7/14/2023 07:39 AM
Trichloroethene	ND		0.20	ppbv	1	7/14/2023 07:39 AM
Trichlorofluoromethane	ND		0.50	ppbv	1	7/14/2023 07:39 AM
Vinyl acetate	ND		1.0	ppbv	1	7/14/2023 07:39 AM
Vinyl chloride	ND		0.50	ppbv	1	7/14/2023 07:39 AM
Surr: Bromofluorobenzene	114		60-140	%REC	1	7/14/2023 07:39 AM
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>		Analyst: LAK	
1,1,1-Trichloroethane	ND		2.73	µg/m3	1	7/14/2023 07:39 AM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	7/14/2023 07:39 AM
1,1,2-Trichloroethane	ND		1.09	µg/m3	1	7/14/2023 07:39 AM
1,1-Dichloroethane	ND		2.02	µg/m3	1	7/14/2023 07:39 AM
1,1-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 07:39 AM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	7/14/2023 07:39 AM
<b>1,2,4-Trimethylbenzene</b>	<b>6.98</b>		<b>2.46</b>	<b>µg/m3</b>	1	7/14/2023 07:39 AM
1,2-Dibromoethane	ND		1.54	µg/m3	1	7/14/2023 07:39 AM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	7/14/2023 07:39 AM
1,2-Dichloroethane	ND		0.809	µg/m3	1	7/14/2023 07:39 AM
1,2-Dichloropropane	ND		2.31	µg/m3	1	7/14/2023 07:39 AM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	7/14/2023 07:39 AM
<b>1,3-Butadiene</b>	<b>0.642</b>		<b>0.442</b>	<b>µg/m3</b>	1	7/14/2023 07:39 AM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	7/14/2023 07:39 AM
1,4-Dichlorobenzene	ND		1.20	µg/m3	1	7/14/2023 07:39 AM

Note:

# ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Sample ID: SG-12

Collection Date: 6/28/2023 03:59 PM

Work Order: 23061379

Lab ID: 23061379-12

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1.80	µg/m3	1	7/14/2023 07:39 AM
2-Butanone	ND		2.95	µg/m3	1	7/14/2023 07:39 AM
2-Hexanone	ND		4.10	µg/m3	1	7/14/2023 07:39 AM
<b>2-Propanol</b>	<b>2.92</b>		<b>2.46</b>	<b>µg/m3</b>	1	7/14/2023 07:39 AM
4-Ethyltoluene	ND		2.46	µg/m3	1	7/14/2023 07:39 AM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	7/14/2023 07:39 AM
<b>Acetone</b>	<b>17.2</b>		<b>2.38</b>	<b>µg/m3</b>	1	7/14/2023 07:39 AM
<b>Benzene</b>	<b>8.31</b>		<b>1.60</b>	<b>µg/m3</b>	1	7/14/2023 07:39 AM
Benzyl chloride	ND		2.55	µg/m3	1	7/14/2023 07:39 AM
Bromodichloromethane	ND		1.34	µg/m3	1	7/14/2023 07:39 AM
Bromoform	ND		5.17	µg/m3	1	7/14/2023 07:39 AM
Bromomethane	ND		1.94	µg/m3	1	7/14/2023 07:39 AM
Carbon disulfide	ND		1.56	µg/m3	1	7/14/2023 07:39 AM
Carbon tetrachloride	ND		3.15	µg/m3	1	7/14/2023 07:39 AM
Chlorobenzene	ND		2.30	µg/m3	1	7/14/2023 07:39 AM
Chloroethane	ND		1.32	µg/m3	1	7/14/2023 07:39 AM
<b>Chloroform</b>	<b>8.89</b>		<b>0.976</b>	<b>µg/m3</b>	1	7/14/2023 07:39 AM
<b>Chloromethane</b>	<b>2.09</b>		<b>1.03</b>	<b>µg/m3</b>	1	7/14/2023 07:39 AM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 07:39 AM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/14/2023 07:39 AM
Cumene	ND		2.46	µg/m3	1	7/14/2023 07:39 AM
Cyclohexane	ND		1.72	µg/m3	1	7/14/2023 07:39 AM
Dibromochloromethane	ND		4.26	µg/m3	1	7/14/2023 07:39 AM
Dichlorodifluoromethane	ND		2.47	µg/m3	1	7/14/2023 07:39 AM
Ethyl acetate	ND		1.80	µg/m3	1	7/14/2023 07:39 AM
Ethylbenzene	ND		2.17	µg/m3	1	7/14/2023 07:39 AM
Freon 113	ND		3.83	µg/m3	1	7/14/2023 07:39 AM
Freon 114	ND		3.50	µg/m3	1	7/14/2023 07:39 AM
Heptane	ND		2.05	µg/m3	1	7/14/2023 07:39 AM
Hexachlorobutadiene	ND		2.13	µg/m3	1	7/14/2023 07:39 AM
Hexane	ND		1.76	µg/m3	1	7/14/2023 07:39 AM
<b>m,p-Xylene</b>	<b>9.16</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/14/2023 07:39 AM
Methylene chloride	ND		7.00	µg/m3	1	7/14/2023 07:39 AM
MTBE	ND		1.80	µg/m3	1	7/14/2023 07:39 AM
<b>Naphthalene</b>	<b>1.99</b>		<b>1.05</b>	<b>µg/m3</b>	1	7/14/2023 07:39 AM
<b>o-Xylene</b>	<b>2.87</b>		<b>2.17</b>	<b>µg/m3</b>	1	7/14/2023 07:39 AM
<b>Propene</b>	<b>7.31</b>		<b>0.861</b>	<b>µg/m3</b>	1	7/14/2023 07:39 AM
Styrene	ND		2.13	µg/m3	1	7/14/2023 07:39 AM
<b>Tetrachloroethene</b>	<b>6.10</b>		<b>3.39</b>	<b>µg/m3</b>	1	7/14/2023 07:39 AM
Tetrahydrofuran	ND		1.47	µg/m3	1	7/14/2023 07:39 AM

Note:



## ALS Environmental

Date: 18-Jul-23

Client: Tetra Tech

Project: Boys & Girls Home; 103G65210190.17.03

Work Order: 23061379

Sample ID: SG-12

Lab ID: 23061379-12

Collection Date: 6/28/2023 03:59 PM

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Toluene</b>	<b>3.17</b>		<b>1.88</b>	<b>µg/m3</b>	1	7/14/2023 07:39 AM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	7/14/2023 07:39 AM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	7/14/2023 07:39 AM
Trichloroethene	ND		1.07	µg/m3	1	7/14/2023 07:39 AM
Trichlorofluoromethane	ND		2.81	µg/m3	1	7/14/2023 07:39 AM
Vinyl acetate	ND		3.52	µg/m3	1	7/14/2023 07:39 AM
Vinyl chloride	ND		1.28	µg/m3	1	7/14/2023 07:39 AM
Surr: Bromofluorobenzene	114		60-140	%REC	1	7/14/2023 07:39 AM

Note:

# ALS Environmental

Date: 18-Jul-23

**Client:** Tetra Tech

**Work Order:** 23061379

**Project:** Boys & Girls Home; 103G65210190.17.03

## QC BATCH REPORT

Batch ID: **R218564**

Instrument ID **VMS4**

Method: **ETO-15**

MBLK		Sample ID: <b>MBLK-R218564</b>				Units: <b>ppbv</b>		Analysis Date: <b>7/13/2023 05:29 PM</b>		
Client ID:		Run ID: <b>VMS4_230713A</b>				SeqNo: <b>3103932</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	0.50								
1,1,2,2-Tetrachloroethane	ND	0.50								
1,1,2-Trichloroethane	ND	0.20								
1,1-Dichloroethane	ND	0.50								
1,1-Dichloroethene	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.50								
1,2,4-Trimethylbenzene	ND	0.50								
1,2-Dibromoethane	ND	0.20								
1,2-Dichlorobenzene	ND	0.50								
1,2-Dichloroethane	ND	0.20								
1,2-Dichloropropane	ND	0.50								
1,3,5-Trimethylbenzene	ND	0.50								
1,3-Butadiene	ND	0.20								
1,3-Dichlorobenzene	ND	0.50								
1,4-Dichlorobenzene	ND	0.20								
1,4-Dioxane	ND	0.50								
2-Butanone	ND	1.0								
2-Hexanone	ND	1.0								
2-Propanol	ND	1.0								
4-Ethyltoluene	ND	0.50								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	1.0								
Benzene	ND	0.50								
Benzyl chloride	ND	0.50								
Bromodichloromethane	ND	0.20								
Bromoform	ND	0.50								
Bromomethane	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.50								
Chlorobenzene	ND	0.50								
Chloroethane	ND	0.50								
Chloroform	ND	0.20								
Chloromethane	ND	0.50								
cis-1,2-Dichloroethene	ND	0.50								
cis-1,3-Dichloropropene	ND	0.50								
Cumene	ND	0.50								
Cyclohexane	ND	0.50								
Dibromochloromethane	ND	0.50								
Dichlorodifluoromethane	ND	0.50								
Ethyl acetate	ND	0.50								
Ethylbenzene	ND	0.50								

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

**Client:** Tetra Tech  
**Work Order:** 23061379  
**Project:** Boys & Girls Home; 103G65210190.17.03

## QC BATCH REPORT

---

Batch ID: <b>R218564</b>	Instrument ID <b>VMS4</b>	Method: <b>ETO-15</b>						
Freon 113	ND	0.50						
Freon 114	ND	0.50						
Heptane	ND	0.50						
Hexachlorobutadiene	ND	0.20						
Hexane	ND	0.50						
m,p-Xylene	ND	0.50						
Methylene chloride	ND	2.0						
MTBE	ND	0.50						
Naphthalene	ND	0.20						
o-Xylene	ND	0.50						
Propene	ND	0.50						
Styrene	ND	0.50						
Tetrachloroethene	ND	0.50						
Tetrahydrofuran	ND	0.50						
Toluene	ND	0.50						
trans-1,2-Dichloroethene	ND	0.50						
trans-1,3-Dichloropropene	ND	0.50						
Trichloroethene	ND	0.20						
Trichlorofluoromethane	ND	0.50						
Vinyl acetate	ND	1.0						
Vinyl chloride	ND	0.50						
<i>Surr: Bromofluorobenzene</i>	<i>9.94</i>	<i>0</i>	<i>10</i>	<i>0</i>	<i>99.4</i>	<i>60-140</i>	<i>0</i>	

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

**Client:** Tetra Tech  
**Work Order:** 23061379  
**Project:** Boys & Girls Home; 103G65210190.17.03

## QC BATCH REPORT

Batch ID: **R218564**      Instrument ID **VMS4**      Method: **ETO-15**

LCS				Sample ID: <b>Ics-R218564</b>			Units: <b>ppbv</b>		Analysis Date: <b>7/13/2023 03:59 PM</b>	
Client ID:				Run ID: <b>VMS4_230713A</b>			SeqNo: <b>3103930</b>		Prep Date:	
									DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	9.41	0.50	10	0	94.1	58.8-163	0			
1,1,2,2-Tetrachloroethane	9.88	0.50	10	0	98.8	60-140	0			
1,1,2-Trichloroethane	9.72	0.20	10	0	97.2	60-140	0			
1,1-Dichloroethane	9.77	0.50	10	0	97.7	60-140	0			
1,1-Dichloroethene	9.68	0.50	10	0	96.8	60-140	0			
1,2,4-Trichlorobenzene	9.86	0.50	10	0	98.6	49.3-150	0			
1,2,4-Trimethylbenzene	10.6	0.50	10	0	106	50.1-162	0			
1,2-Dibromoethane	9.86	0.20	10	0	98.6	60-140	0			
1,2-Dichlorobenzene	10.16	0.50	10	0	102	41.9-141	0			
1,2-Dichloroethane	10.02	0.20	10	0	100	60-140	0			
1,2-Dichloropropane	10.08	0.50	10	0	101	60-140	0			
1,3,5-Trimethylbenzene	10.23	0.50	10	0	102	60-140	0			
1,3-Butadiene	8.16	0.20	10	0	81.6	50.6-140	0			
1,3-Dichlorobenzene	10.14	0.50	10	0	101	60-140	0			
1,4-Dichlorobenzene	10	0.20	10	0	100	55.1-145	0			
1,4-Dioxane	9.88	0.50	10	0	98.8	60-140	0			
2-Butanone	9.94	1.0	10	0	99.4	60-140	0			
2-Hexanone	11.7	1.0	10	0	117	56.2-162	0			
2-Propanol	10.5	1.0	10	0	105	60-140	0			
4-Ethyltoluene	10.62	0.50	10	0	106	60-140	0			
4-Methyl-2-pentanone	11.33	1.0	10	0	113	60-140	0			
Acetone	8.75	1.0	10	0	87.5	60-140	0			
Benzene	9.8	0.50	10	0	98	60-140	0			
Benzyl chloride	11.4	0.50	10	0	114	31.9-174	0			
Bromodichloromethane	9.96	0.20	10	0	99.6	60-140	0			
Bromoform	9.77	0.50	10	0	97.7	60-140	0			
Bromomethane	8.47	0.50	10	0	84.7	60-140	0			
Carbon disulfide	9.3	0.50	10	0	93	60-140	0			
Carbon tetrachloride	9.57	0.50	10	0	95.7	60-140	0			
Chlorobenzene	9.37	0.50	10	0	93.7	60-140	0			
Chloroethane	9.11	0.50	10	0	91.1	60-140	0			
Chloroform	9.47	0.20	10	0	94.7	60-140	0			
Chloromethane	9.43	0.50	10	0	94.3	60-140	0			
cis-1,2-Dichloroethene	10.11	0.50	10	0	101	60-140	0			
cis-1,3-Dichloropropene	10.45	0.50	10	0	104	60-140	0			
Cumene	10.13	0.50	10	0	101	60-140	0			
Cyclohexane	9.41	0.50	10	0	94.1	60-140	0			
Dibromochloromethane	10.09	0.50	10	0	101	60-140	0			
Dichlorodifluoromethane	9.18	0.50	10	0	91.8	60-140	0			
Ethyl acetate	10.7	0.50	10	0	107	60-140	0			
Ethylbenzene	10.05	0.50	10	0	100	60-140	0			
Freon 113	9.16	0.50	10	0	91.6	60-140	0			

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

**Client:** Tetra Tech  
**Work Order:** 23061379  
**Project:** Boys & Girls Home; 103G65210190.17.03

## QC BATCH REPORT

Batch ID: <b>R218564</b>		Instrument ID <b>VMS4</b>		Method: <b>ETO-15</b>				
Freon 114	9.13	0.50	10	0	91.3	60-140	0	
Heptane	10.76	0.50	10	0	108	60-140	0	
Hexachlorobutadiene	8.39	0.20	10	0	83.9	60-140	0	
Hexane	9.41	0.50	10	0	94.1	60-140	0	
m,p-Xylene	20.11	0.50	20	0	101	60-140	0	
Methylene chloride	9.07	2.0	10	0	90.7	60-140	0	
MTBE	9.84	0.50	10	0	98.4	60.8-151	0	
Naphthalene	10.89	0.20	10	0	109	53.1-152	0	
o-Xylene	10.12	0.50	10	0	101	60-140	0	
Propene	4.77	0.50	10	0	47.7	34.4-139	0	
Styrene	10.6	0.50	10	0	106	60-140	0	
Tetrachloroethene	9.82	0.50	10	0	98.2	60-140	0	
Tetrahydrofuran	10.71	0.50	10	0	107	60-140	0	
Toluene	9.76	0.50	10	0	97.6	60-140	0	
trans-1,2-Dichloroethene	9.32	0.50	10	0	93.2	60-140	0	
trans-1,3-Dichloropropene	10.11	0.50	10	0	101	60-140	0	
Trichloroethene	9.57	0.20	10	0	95.7	60-140	0	
Trichlorofluoromethane	8.98	0.50	10	0	89.8	60-140	0	
Vinyl acetate	10.69	1.0	10	0	107	48.4-145	0	
Vinyl chloride	8.64	0.50	10	0	86.4	60-140	0	
<i>Surr: Bromofluorobenzene</i>	<i>10.34</i>	<i>0</i>	<i>10</i>	<i>0</i>	<i>103</i>	<i>60-140</i>	<i>0</i>	

The following samples were analyzed in this batch:

23061379-01a	23061379-02a	23061379-03a
23061379-04a	23061379-05a	23061379-06a
23061379-07a	23061379-08a	23061379-09a
23061379-10a	23061379-11a	23061379-12a

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

**Client:** Tetra Tech  
**Work Order:** 23061379  
**Project:** Boys & Girls Home; 103G65210190.17.03

## QC BATCH REPORT

Batch ID: **R218578**      Instrument ID **VMS4**      Method: **ETO-15**

MBLK		Sample ID: <b>MBLK-R218578</b>				Units: <b>ppbv</b>		Analysis Date: <b>7/14/2023 12:37 PM</b>		
Client ID:		Run ID: <b>VMS4_230714A</b>				SeqNo: <b>3104423</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	0.50								
1,1,2,2-Tetrachloroethane	ND	0.50								
1,1,2-Trichloroethane	ND	0.20								
1,1-Dichloroethane	ND	0.50								
1,1-Dichloroethene	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.50								
1,2,4-Trimethylbenzene	ND	0.50								
1,2-Dibromoethane	ND	0.20								
1,2-Dichlorobenzene	ND	0.50								
1,2-Dichloroethane	ND	0.20								
1,2-Dichloropropane	ND	0.50								
1,3,5-Trimethylbenzene	ND	0.50								
1,3-Butadiene	ND	0.20								
1,3-Dichlorobenzene	ND	0.50								
1,4-Dichlorobenzene	ND	0.20								
1,4-Dioxane	ND	0.50								
2-Butanone	ND	1.0								
2-Hexanone	ND	1.0								
2-Propanol	ND	1.0								
4-Ethyltoluene	ND	0.50								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	1.0								
Benzene	ND	0.50								
Benzyl chloride	ND	0.50								
Bromodichloromethane	ND	0.20								
Bromoform	ND	0.50								
Bromomethane	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.50								
Chlorobenzene	ND	0.50								
Chloroethane	ND	0.50								
Chloroform	ND	0.20								
Chloromethane	ND	0.50								
cis-1,2-Dichloroethene	ND	0.50								
cis-1,3-Dichloropropene	ND	0.50								
Cumene	ND	0.50								
Cyclohexane	ND	0.50								
Dibromochloromethane	ND	0.50								
Dichlorodifluoromethane	ND	0.50								
Ethyl acetate	ND	0.50								
Ethylbenzene	ND	0.50								
Freon 113	ND	0.50								

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

**Client:** Tetra Tech  
**Work Order:** 23061379  
**Project:** Boys & Girls Home; 103G65210190.17.03

## QC BATCH REPORT

---

Batch ID: <b>R218578</b>	Instrument ID <b>VMS4</b>	Method: <b>ETO-15</b>						
Freon 114	ND	0.50						
Heptane	ND	0.50						
Hexachlorobutadiene	ND	0.20						
Hexane	ND	0.50						
m,p-Xylene	ND	0.50						
Methylene chloride	ND	2.0						
MTBE	ND	0.50						
Naphthalene	ND	0.20						
o-Xylene	ND	0.50						
Propene	ND	0.50						
Styrene	ND	0.50						
Tetrachloroethene	ND	0.50						
Tetrahydrofuran	ND	0.50						
Toluene	ND	0.50						
trans-1,2-Dichloroethene	ND	0.50						
trans-1,3-Dichloropropene	ND	0.50						
Trichloroethene	ND	0.20						
Trichlorofluoromethane	ND	0.50						
Vinyl acetate	ND	1.0						
Vinyl chloride	ND	0.50						
Surr: Bromofluorobenzene	10.06	0	10	0	101	60-140	0	

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



**Client:** Tetra Tech  
**Work Order:** 23061379  
**Project:** Boys & Girls Home; 103G65210190.17.03

## QC BATCH REPORT

Batch ID: **R218578**      Instrument ID **VMS4**      Method: **ETO-15**

LCS		Sample ID: <b>Ics-R218578</b>				Units: <b>ppbv</b>		Analysis Date: <b>7/14/2023 11:52 AM</b>		
Client ID:		Run ID: <b>VMS4_230714A</b>				SeqNo: <b>3104422</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	10.15	0.50	10	0	102	58.8-163	0			
1,1,2,2-Tetrachloroethane	10.57	0.50	10	0	106	60-140	0			
1,1,2-Trichloroethane	10.28	0.20	10	0	103	60-140	0			
1,1-Dichloroethane	10.48	0.50	10	0	105	60-140	0			
1,1-Dichloroethene	10.45	0.50	10	0	104	60-140	0			
1,2,4-Trichlorobenzene	10.4	0.50	10	0	104	49.3-150	0			
1,2,4-Trimethylbenzene	11.33	0.50	10	0	113	50.1-162	0			
1,2-Dibromoethane	10.32	0.20	10	0	103	60-140	0			
1,2-Dichlorobenzene	10.71	0.50	10	0	107	41.9-141	0			
1,2-Dichloroethane	10.74	0.20	10	0	107	60-140	0			
1,2-Dichloropropane	10.71	0.50	10	0	107	60-140	0			
1,3,5-Trimethylbenzene	10.87	0.50	10	0	109	60-140	0			
1,3-Butadiene	9.1	0.20	10	0	91	50.6-140	0			
1,3-Dichlorobenzene	10.73	0.50	10	0	107	60-140	0			
1,4-Dichlorobenzene	10.73	0.20	10	0	107	55.1-145	0			
1,4-Dioxane	11	0.50	10	0	110	60-140	0			
2-Butanone	10.66	1.0	10	0	107	60-140	0			
2-Hexanone	12.31	1.0	10	0	123	56.2-162	0			
2-Propanol	11.4	1.0	10	0	114	60-140	0			
4-Ethyltoluene	11.58	0.50	10	0	116	60-140	0			
4-Methyl-2-pentanone	12.04	1.0	10	0	120	60-140	0			
Acetone	9.38	1.0	10	0	93.8	60-140	0			
Benzene	10.51	0.50	10	0	105	60-140	0			
Benzyl chloride	12.17	0.50	10	0	122	31.9-174	0			
Bromodichloromethane	10.54	0.20	10	0	105	60-140	0			
Bromoform	10.11	0.50	10	0	101	60-140	0			
Bromomethane	4.9	0.50	10	0	49	60-140	0			S
Carbon disulfide	10.12	0.50	10	0	101	60-140	0			
Carbon tetrachloride	10.19	0.50	10	0	102	60-140	0			
Chlorobenzene	9.89	0.50	10	0	98.9	60-140	0			
Chloroethane	7.11	0.50	10	0	71.1	60-140	0			
Chloroform	10.23	0.20	10	0	102	60-140	0			
Chloromethane	10.13	0.50	10	0	101	60-140	0			
cis-1,2-Dichloroethene	11.12	0.50	10	0	111	60-140	0			
cis-1,3-Dichloropropene	11.06	0.50	10	0	111	60-140	0			
Cumene	10.81	0.50	10	0	108	60-140	0			
Cyclohexane	10.2	0.50	10	0	102	60-140	0			
Dibromochloromethane	10.47	0.50	10	0	105	60-140	0			
Dichlorodifluoromethane	9.81	0.50	10	0	98.1	60-140	0			
Ethyl acetate	11.73	0.50	10	0	117	60-140	0			
Ethylbenzene	10.72	0.50	10	0	107	60-140	0			
Freon 113	9.95	0.50	10	0	99.5	60-140	0			

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

**Client:** Tetra Tech  
**Work Order:** 23061379  
**Project:** Boys & Girls Home; 103G65210190.17.03

## QC BATCH REPORT

Batch ID: <b>R218578</b>		Instrument ID <b>VMS4</b>		Method: <b>ETO-15</b>				
Freon 114	9.76	0.50	10	0	97.6	60-140	0	
Heptane	11.67	0.50	10	0	117	60-140	0	
Hexachlorobutadiene	8.76	0.20	10	0	87.6	60-140	0	
Hexane	10.2	0.50	10	0	102	60-140	0	
m,p-Xylene	21.39	0.50	20	0	107	60-140	0	
Methylene chloride	9.82	2.0	10	0	98.2	60-140	0	
MTBE	10.67	0.50	10	0	107	60.8-151	0	
Naphthalene	11.52	0.20	10	0	115	53.1-152	0	
o-Xylene	10.75	0.50	10	0	108	60-140	0	
Propene	9.9	0.50	10	0	99	34.4-139	0	
Styrene	11.05	0.50	10	0	110	60-140	0	
Tetrachloroethene	10.28	0.50	10	0	103	60-140	0	
Tetrahydrofuran	11.84	0.50	10	0	118	60-140	0	
Toluene	10.34	0.50	10	0	103	60-140	0	
trans-1,2-Dichloroethene	10.12	0.50	10	0	101	60-140	0	
trans-1,3-Dichloropropene	10.64	0.50	10	0	106	60-140	0	
Trichloroethene	10.03	0.20	10	0	100	60-140	0	
Trichlorofluoromethane	9.57	0.50	10	0	95.7	60-140	0	
Vinyl acetate	11.54	1.0	10	0	115	48.4-145	0	
Vinyl chloride	8.95	0.50	10	0	89.5	60-140	0	
<i>Surr: Bromofluorobenzene</i>	<i>10.38</i>	<i>0</i>	<i>10</i>	<i>0</i>	<i>104</i>	<i>60-140</i>	<i>0</i>	

The following samples were analyzed in this batch: 23061379-07a

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

# ALS Environmental

Date: 18-Jul-23

**Client:** Tetra Tech  
**Project:** Boys & Girls Home; 103G65210190.17.03  
**WorkOrder:** 23061379

## QUALIFIERS, ACRONYMS, UNITS

---

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
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

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/m3	
ppbv	

## Sample Receipt Checklist

Client Name: **TETRATECH-KANSASCITY**

Date/Time Received: **30-Jun-23 12:24**

Work Order: **23061379**

Received by: **CA**

Checklist completed by **Danielle Strasinger**

05-Jul-23

Reviewed by: **Danielle Strasinger**

05-Jul-23

eSignature

Date

eSignature

Date

Matrices:

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Sample(s) received on ice?

Yes ☐

No ☒

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

Water - VOA vials have zero headspace?

Yes ☐

No ☐

No VOA vials submitted ☐

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☐

pH adjusted?

Yes ☐

No ☐

N/A ☐

pH adjusted by:

-

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



## Air Canister - Chain of Custody Record / Analytical Service Request

Page 1 of 1

Ship To: **ALS | Environmental**  
4388 Glendale Milford Rd.  
Cincinnati, Ohio 45242  
Phone: (513) 733-5336  
Fax: (513) 733-5347

23061379

5829

Requested Turnaround Time in Business Days (Surcharges) please circle

1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

ALS Project No.

Company Name & Address (Reporting Information) Tetra Tech 415 Oak Street Kansas City, MO 64106				Project Name Boys and Girls Home				OH VAP: <input type="radio"/> Yes <input type="radio"/> No OH BUSTR: <input type="radio"/> Yes <input type="radio"/> No		Analysis Method	Type: SS = SubSlab IA = Indoor Air SG = Soil Gas O = Other AA = Ambient Air SVE = Soil Vapor Extract	Comments / Specific Instructions (ie: water or pressure issues)
Project Manager Kaitlyn Mitchell				Project Number 103665210190.17.03								
Phone 816-412-1742				P.O. # / Billing Information								
Email Address for Result Reporting Kaitlyn.mitchell@tetratech.com				Sampler (Print & Sign) Thomas Kaley								
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID	Flow Controller ID	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	PID	TO15 VOCs			
SG-1		6/27/23	0853	120307		-30	-7	0	X	SG		
SG-2			1006	120326		-30	-6	0	X			
SG-3			1058	120315		-30	-6	0	X			
SG-4			1250	120301		-30	-7	0	X			
SG-5			1408	120311		-30	-5	0	X			
SG-6			1514	120282		-30	-6	0	X			
SG-7		6/28/23	0905	120295		-30	-7	0	X			
SG-8			1013	109197		-30	-3	0	X		defective can threads	
SG-9			1123	120314		-30	-6	0	X			
SG-10			1419	120309		-30	-5	0	X			
SG-11			1540	120320		-30	-6	0	X			
SG-12			1559	120318		-30	-5	0	X			
				TK 6/28/23								
There will be additional charges for damaged equipment								Report QC Levels _____		Project Requirement (MRLs, QAPP)		
								EDD required Yes / No				
								Type: _____ Units: _____				
Relinquished by: (Signature) <i>Tom Kaley</i>				Date: 6/28/23		Time: 1645		Received by: (Signature) <i>Chad Miller</i>		Date: 6/30/23		
Relinquished by: (Signature)				Date:		Time:		Received by: (Signature)		Date:		
										Cooler / Blank Temperature ____ °C		



18-Jul-2023

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

Re: **Boys and Girls Club**

Work Order: **23070106**

Dear Kaitlyn,

ALS Environmental received 27 samples on 01-Jul-2023 10:00 AM 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 254.

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:** Boys and Girls Club  
**Work Order:** 23070106

**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>
23070106-01	SB-1 (0-3)	Soil		6/27/2023 09:12	7/1/2023 10:00	<input type="checkbox"/>
23070106-02	SB-1 (32-35)	Soil		6/27/2023 09:37	7/1/2023 10:00	<input type="checkbox"/>
23070106-03	SB-2 (0-3)	Soil		6/27/2023 10:15	7/1/2023 10:00	<input type="checkbox"/>
23070106-04	SB-2 (32-35)	Soil		6/27/2023 10:36	7/1/2023 10:00	<input type="checkbox"/>
23070106-05	SB-3 (0-3)	Soil		6/27/2023 11:15	7/1/2023 10:00	<input type="checkbox"/>
23070106-06	SB-3 (32-35)	Soil		6/27/2023 11:27	7/1/2023 10:00	<input type="checkbox"/>
23070106-07	SB-4 (0-3)	Soil		6/27/2023 13:10	7/1/2023 10:00	<input type="checkbox"/>
23070106-08	SB-4 (0-3) Dup	Soil		6/27/2023 13:10	7/1/2023 10:00	<input type="checkbox"/>
23070106-09	SB-5 (0-3)	Soil		6/27/2023 14:55	7/1/2023 10:00	<input type="checkbox"/>
23070106-10	SB-5 (15-18)	Soil		6/27/2023 15:04	7/1/2023 10:00	<input type="checkbox"/>
23070106-11	SB-6 (0-3)	Soil		6/27/2023 15:27	7/1/2023 10:00	<input type="checkbox"/>
23070106-12	SB-6 (30-35)	Soil		6/27/2023 15:42	7/1/2023 10:00	<input type="checkbox"/>
23070106-13	SB-7 (0-3)	Soil		6/28/2023 09:18	7/1/2023 10:00	<input type="checkbox"/>
23070106-14	SB-7 (12-15)	Soil		6/28/2023 09:38	7/1/2023 10:00	<input type="checkbox"/>
23070106-15	SB-8 (0-10)	Soil		6/28/2023 10:25	7/1/2023 10:00	<input type="checkbox"/>
23070106-16	SB-8 (32-35)	Soil		6/28/2023 10:47	7/1/2023 10:00	<input type="checkbox"/>
23070106-17	SB-9 (2-5)	Soil		6/28/2023 12:45	7/1/2023 10:00	<input type="checkbox"/>
23070106-18	SB-9 (32-35)	Soil		6/28/2023 13:10	7/1/2023 10:00	<input type="checkbox"/>
23070106-19	SB-10 (0-3)	Soil		6/28/2023 14:30	7/1/2023 10:00	<input type="checkbox"/>
23070106-20	SB-10 (25-35)	Soil		6/28/2023 15:10	7/1/2023 10:00	<input type="checkbox"/>
23070106-21	SB-11 (0-3)	Soil		6/29/2023 08:20	7/1/2023 10:00	<input type="checkbox"/>
23070106-22	SB-11 (27-30)	Soil		6/29/2023 09:00	7/1/2023 10:00	<input type="checkbox"/>
23070106-23	SB-12 (0-3)	Soil		6/29/2023 09:26	7/1/2023 10:00	<input type="checkbox"/>
23070106-24	SB-12 (32-35)	Soil		6/29/2023 09:50	7/1/2023 10:00	<input type="checkbox"/>
23070106-25	Trip Blank	Soil		6/29/2023 10:00	7/1/2023 10:00	<input type="checkbox"/>
23070106-26	Trip Blank	Soil		6/29/2023 10:00	7/1/2023 10:00	<input type="checkbox"/>
23070106-27	SB-4(32-35)	Soil		6/27/2023 13:23	7/1/2023 10:00	<input type="checkbox"/>



---

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**WorkOrder:** 23070106

---

**QUALIFIERS,  
ACRONYMS, UNITS**

<b><u>Qualifier</u></b>	<b><u>Description</u></b>
*	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.

<b><u>Acronym</u></b>	<b><u>Description</u></b>
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

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

---

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Work Order:** 23070106

---

**Case Narrative**

Samples for the above noted Work Order were received on 7/1/2023. 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 R376267a, Method SW8260D, Sample 10V-BLKS2-230710: ms/msd failed tune time. insufficient sample to rerun.

No other deviations or anomalies were noted.

**Extractable Organics:**

Batch 219647, Method SW8270E, Sample SBLKS1-219647: The surrogates failed low biasing the compound concentrations low. The sample results should be considered estimated.

Batch 219591, Method SW8270E, Sample SB-2 (0-3) (23070106-03A): One or more acid surrogate recoveries were below the lower control limits. The acidic sample results may be biased low.

Batch 219591, Method SW8270E, Sample SB-6 (0-3) (23070106-11A): The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

Batch 219591, Method SW8270E, Sample SB-8 (0-10) (23070106-15A): The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

Batch 219591, Method SW8270E, Sample SB-8 (0-10) (23070106-15A): One or more acid surrogate recoveries were below the lower control limits. The acidic sample results may be biased low.

---

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Work Order:** 23070106

---

## Case Narrative

Batch 219591, Method SW8270E, Sample SB-8 (32-35) (23070106-16A): One or more acid surrogate recoveries were below the lower control limits. The acidic sample results may be biased low.

Batch 219647, Method SW8270E, Sample SB-11 (27-30) (23070106-22A): Low surrogate recovery due to sample matrix effects confirmed by re-extraction.

Batch 219647, Method SW8270E, Sample SB-12 (32-35) (23070106-24A): Low surrogate recovery due to sample matrix effects confirmed by re-extraction.

Batch 219647, Method SW8270E, Sample SB-4(32-35) (23070106-27A): Low surrogate recovery due to sample matrix effects confirmed by re-extraction.

Batch 219591, Method SW8270E, Sample 23070106-03A MS: The MS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: 2,4-Dimethylphenol

Batch 219591, Method SW8270E, Sample 23070106-03A MS: The MS recovery was outside of the control limit. However, the MSD recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: 2-Methylphenol; 3&4-Methylphenol

Batch 219591, Method SW8270E, Sample 23070106-03A MSD: The MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: 2,4-Dimethylphenol  
No other deviations or anomalies were noted.

### Metals:

Batch 219307, Method SW6020B, Samples (23070106-01A,-02A,-03A,-04A,-05A,-06A,-07A): The reporting limit is elevated due to dilution for high concentrations of non-target analytes.

Batch 219477, Method SW6020B, Samples (23070106-09A,-11A): The reporting limit is elevated due to dilution for high concentrations of non-target analytes.

Batch 219480, Method SW6020B, Samples (23070106-14A,-15A,-16A,-17A,-18A,-19A,-20A,-21A,-22A): The reporting limit is elevated due to dilution for high concentrations of non-target analytes.

Batch 219705, Method SW6020B, Samples (23070106-13A,-14A,-15A,-16A,-17A,-18A,-19A,-20A,-21A,-22A,-23A,-24A,-27A): The reporting limit is elevated due to dilution for high concentrations of non-target analytes.

---

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Work Order:** 23070106

---

## Case Narrative

Batch 219307, Method SW6020B, Sample 23070106-07AMS/MSD: The MS/MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: As, Co, Cu, Ni, Se, Na, Sb, Be, Cd, K, Ag, Ti

Batch 219307, Method SW6020B, Sample 23070106-07AMS: 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: Ba, Ca, Mg, Mn, Zn

Batch 219307, Method SW6020B, Sample 23070106-07AMS: The MS recovery was outside of the control limit. However, the MSD recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: Cr

Batch 219307, Method SW6020B, Sample 23070106-07AMSD: 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: Ba, Ca, Fe, Mg, Mn, Zn

Batch 219307, Method SW6020B, Sample 23070106-07AMSD: 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: Pb

Batch 219477, Method SW6020B, Sample 23070106-12AMS: The MS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: Sb, As, Cd, Cu, Pb, Se, Ag

Batch 219477, Method SW6020B, Sample 23070106-12AMS/MSD: The MS/MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: V

Batch 219477, Method SW6020B, Sample 23070106-12AMS/MSD: The MS/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: Fe, Mg, Ba, Ca, Mn, Al

Batch 219477, Method SW6020B, Sample 23070106-12AMSD: The MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: Sb, As, Cd, Co, Cu, Pb, Se, Ag

Batch 219477, Method SW6020B, Sample 23070106-12AMSD: 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: Ni

Batch 219477, Method SW6020B, Sample 23070106-12AMSD: The RPD between the MS

---

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Work Order:** 23070106

---

## Case Narrative

and MSD was outside of the control limit. The corresponding result should be considered estimated for this compound: Co

Batch 219480, Method SW6020B, Sample 23070106-27AMS: The MS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: Sb, Cu

Batch 219705, Method SW6020B, Sample 23070106-27AMS/MSD: The MS/MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: Cu

Batch 219480, Method SW6020B, Sample 23070106-27AMS/MSD: The MS/MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: V

Batch 219480, Method SW6020B, Sample 23070106-27AMS: 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, Mg, Ba, Ca, Mn, Al

Batch 219705, Method SW6020B, Sample 23070106-27AMS: 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: Ba, Zn

Batch 219480, Method SW6020B, Sample 23070106-27AMS: The MS recovery was outside of the control limit. However, the MSD recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: K

Batch 219480, Method SW6020B, Sample 23070106-27AMSD: The MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: Sb, Cu, Se

Batch 219480, Method SW6020B, Sample 23070106-27AMSD: 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: Fe, Mg, Zn

Batch 219480, Method SW6020B, Sample 23070106-27AMSD: 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: Ba, Ca, Mn, Al

Batch 219705, Method SW6020B, Sample 23070106-27AMSD: 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: Ba, Zn

---

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Work Order:** 23070106

---

## Case Narrative

Batch 219480, Method SW6020B, Sample 23070106-27AMSD: 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: As, Cd, Co, Ni, Ag

Batch 219705, Method SW6020B, Sample 23070106-27AMSD: 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: As, Cr

Batch 219480, Method SW6020B, Sample 23070106-27AMSD: The RPD between the MS and MSD was outside of the control limit. The corresponding result should be considered estimated for this compound: Se

No other deviations or anomalies were noted.

### Wet Chemistry:

No deviations or anomalies were noted.



# ALS Group, USA

Date: 18-Jul-2023

Client: Tetra Tech  
Project: Boys and Girls Club  
Sample ID: SB-1 (0-3)  
Collection Date: 6/27/2023 09:12 AM

Work Order: 23070106  
Lab ID: 23070106-01  
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>	Prep: SW7471 7/4/23 17:09		Analyst: <b>KRA</b>
Mercury	0.040		0.018	mg/Kg-dry	1	7/5/2023 12:31 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>	Prep: SW3050B 7/7/23 12:03		Analyst: <b>STP</b>
Aluminum	9,100		250	mg/Kg-dry	100	7/11/2023 03:11 PM
Antimony	0.53		0.30	mg/Kg-dry	1	7/5/2023 09:10 PM
Arsenic	12		3.0	mg/Kg-dry	10	7/6/2023 04:34 PM
Barium	360		3.0	mg/Kg-dry	10	7/6/2023 04:34 PM
Beryllium	0.52		0.12	mg/Kg-dry	1	7/5/2023 09:10 PM
Cadmium	0.44		0.12	mg/Kg-dry	1	7/5/2023 09:10 PM
Calcium	35,000		300	mg/Kg-dry	10	7/6/2023 04:34 PM
Chromium	12		3.0	mg/Kg-dry	10	7/6/2023 04:34 PM
Cobalt	11		3.0	mg/Kg-dry	10	7/6/2023 04:34 PM
Copper	19		3.0	mg/Kg-dry	10	7/6/2023 04:34 PM
Iron	19,000		120	mg/Kg-dry	10	7/6/2023 04:34 PM
Lead	12		0.30	mg/Kg-dry	1	7/5/2023 09:10 PM
Magnesium	13,000		120	mg/Kg-dry	10	7/6/2023 04:34 PM
Manganese	1,300		30	mg/Kg-dry	100	7/6/2023 03:07 PM
Nickel	28		3.0	mg/Kg-dry	10	7/6/2023 04:34 PM
Potassium	1,100		12	mg/Kg-dry	1	7/5/2023 09:10 PM
Selenium	U		3.0	mg/Kg-dry	10	7/6/2023 04:34 PM
Silver	0.064	J	0.30	mg/Kg-dry	1	7/5/2023 09:10 PM
Sodium	U		180	mg/Kg-dry	10	7/6/2023 04:34 PM
Thallium	0.33		0.30	mg/Kg-dry	1	7/5/2023 09:10 PM
Vanadium	23		0.30	mg/Kg-dry	1	7/5/2023 09:10 PM
Zinc	66		6.0	mg/Kg-dry	10	7/6/2023 04:34 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>	Prep: SW3546 7/10/23 15:46		Analyst: <b>EEW</b>
1,1'-Biphenyl	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
1,2,4,5-Tetrachlorobenzene	U		190	µg/Kg-dry	1	7/11/2023 03:22 PM
1,4-Dioxane	U		190	µg/Kg-dry	1	7/11/2023 03:22 PM
1-Methylnaphthalene	U		7.6	µg/Kg-dry	1	7/11/2023 03:22 PM
2,2'-Oxybis(1-chloropropane)	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
2,3,4,6-Tetrachlorophenol	U		76	µg/Kg-dry	1	7/11/2023 03:22 PM
2,4,5-Trichlorophenol	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
2,4,6-Trichlorophenol	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
2,4-Dichlorophenol	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
2,4-Dimethylphenol	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
2,4-Dinitrophenol	U		760	µg/Kg-dry	1	7/11/2023 03:22 PM
2,4-Dinitrotoluene	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-1 (0-3)  
**Collection Date:** 6/27/2023 09:12 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
2-Chloronaphthalene	U		7.6	µg/Kg-dry	1	7/11/2023 03:22 PM
2-Chlorophenol	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
2-Methylnaphthalene	U		7.6	µg/Kg-dry	1	7/11/2023 03:22 PM
2-Methylphenol	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
2-Nitroaniline	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
2-Nitrophenol	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
3&4-Methylphenol	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
3,3'-Dichlorobenzidine	U		190	µg/Kg-dry	1	7/11/2023 03:22 PM
3-Nitroaniline	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
4,6-Dinitro-2-methylphenol	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
4-Bromophenyl phenyl ether	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
4-Chloro-3-methylphenol	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
4-Chloroaniline	U		76	µg/Kg-dry	1	7/11/2023 03:22 PM
4-Chlorophenyl phenyl ether	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
4-Nitroaniline	U		190	µg/Kg-dry	1	7/11/2023 03:22 PM
4-Nitrophenol	U		190	µg/Kg-dry	1	7/11/2023 03:22 PM
Acenaphthene	U		7.6	µg/Kg-dry	1	7/11/2023 03:22 PM
Acenaphthylene	U		7.6	µg/Kg-dry	1	7/11/2023 03:22 PM
Acetophenone	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
Anthracene	U		7.6	µg/Kg-dry	1	7/11/2023 03:22 PM
Atrazine	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
Benzaldehyde	U		76	µg/Kg-dry	1	7/11/2023 03:22 PM
Benzo(a)anthracene	U		7.6	µg/Kg-dry	1	7/11/2023 03:22 PM
Benzo(a)pyrene	U		7.6	µg/Kg-dry	1	7/11/2023 03:22 PM
Benzo(b)fluoranthene	U		7.6	µg/Kg-dry	1	7/11/2023 03:22 PM
Benzo(g,h,i)perylene	U		7.6	µg/Kg-dry	1	7/11/2023 03:22 PM
Benzo(k)fluoranthene	U		7.6	µg/Kg-dry	1	7/11/2023 03:22 PM
Bis(2-chloroethoxy)methane	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
Bis(2-chloroethyl)ether	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
Bis(2-ethylhexyl)phthalate	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
Butyl benzyl phthalate	U		76	µg/Kg-dry	1	7/11/2023 03:22 PM
Caprolactam	U		76	µg/Kg-dry	1	7/11/2023 03:22 PM
Carbazole	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
Chrysene	U		7.6	µg/Kg-dry	1	7/11/2023 03:22 PM
Dibenzo(a,h)anthracene	U		7.6	µg/Kg-dry	1	7/11/2023 03:22 PM
Dibenzofuran	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
Diethyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
Dimethyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
Di-n-butyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-1 (0-3)  
**Collection Date:** 6/27/2023 09:12 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
Fluoranthene	U		7.6	µg/Kg-dry	1	7/11/2023 03:22 PM
Fluorene	U		7.6	µg/Kg-dry	1	7/11/2023 03:22 PM
Hexachlorobenzene	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
Hexachlorobutadiene	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
Hexachlorocyclopentadiene	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
Hexachloroethane	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
Indeno(1,2,3-cd)pyrene	U		7.6	µg/Kg-dry	1	7/11/2023 03:22 PM
Isophorone	U		190	µg/Kg-dry	1	7/11/2023 03:22 PM
Naphthalene	U		7.6	µg/Kg-dry	1	7/11/2023 03:22 PM
Nitrobenzene	U		190	µg/Kg-dry	1	7/11/2023 03:22 PM
N-Nitrosodi-n-propylamine	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
N-Nitrosodiphenylamine	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
Pentachlorophenol	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
Phenanthrene	U		7.6	µg/Kg-dry	1	7/11/2023 03:22 PM
Phenol	U		37	µg/Kg-dry	1	7/11/2023 03:22 PM
Pyrene	U		7.6	µg/Kg-dry	1	7/11/2023 03:22 PM
Pyridine	U		190	µg/Kg-dry	1	7/11/2023 03:22 PM
Surr: 2,4,6-Tribromophenol	49.4		48-94	%REC	1	7/11/2023 03:22 PM
Surr: 2-Fluorobiphenyl	83.8		50-103	%REC	1	7/11/2023 03:22 PM
Surr: 2-Fluorophenol	55.2		43-105	%REC	1	7/11/2023 03:22 PM
Surr: 4-Terphenyl-d14	97.8		55-111	%REC	1	7/11/2023 03:22 PM
Surr: Nitrobenzene-d5	77.9		47-100	%REC	1	7/11/2023 03:22 PM
Surr: Phenol-d6	66.8		49-110	%REC	1	7/11/2023 03:22 PM

## VOLATILE ORGANIC COMPOUNDS

SW8260D

Prep: SW5035A 7/5/23 16:17

Analyst: SBR

1,1,1-Trichloroethane	U		40	µg/Kg	1	7/11/2023 10:02 AM
1,1,2,2-Tetrachloroethane	U		40	µg/Kg	1	7/11/2023 10:02 AM
1,1,2-Trichloroethane	U		40	µg/Kg	1	7/11/2023 10:02 AM
1,1,2-Trichlorotrifluoroethane	U		40	µg/Kg	1	7/11/2023 10:02 AM
1,1-Dichloroethane	U		40	µg/Kg	1	7/11/2023 10:02 AM
1,1-Dichloroethene	U		40	µg/Kg	1	7/11/2023 10:02 AM
1,2,3-Trichlorobenzene	U		130	µg/Kg	1	7/11/2023 10:02 AM
1,2,3-Trichloropropane	U		40	µg/Kg	1	7/11/2023 10:02 AM
1,2,4-Trichlorobenzene	U		130	µg/Kg	1	7/11/2023 10:02 AM
1,2,4-Trimethylbenzene	U		40	µg/Kg	1	7/11/2023 10:02 AM
1,2-Dibromo-3-chloropropane	U		130	µg/Kg	1	7/11/2023 10:02 AM
1,2-Dibromoethane	U		40	µg/Kg	1	7/11/2023 10:02 AM
1,2-Dichlorobenzene	U		40	µg/Kg	1	7/11/2023 10:02 AM
1,2-Dichloroethane	U		40	µg/Kg	1	7/11/2023 10:02 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-1 (0-3)  
**Collection Date:** 6/27/2023 09:12 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	U		40	µg/Kg	1	7/11/2023 10:02 AM
1,3,5-Trimethylbenzene	U		130	µg/Kg	1	7/11/2023 10:02 AM
1,3-Dichlorobenzene	U		40	µg/Kg	1	7/11/2023 10:02 AM
1,4-Dichlorobenzene	U		40	µg/Kg	1	7/11/2023 10:02 AM
2-Butanone	U		260	µg/Kg	1	7/11/2023 10:02 AM
2-Hexanone	U		40	µg/Kg	1	7/11/2023 10:02 AM
4-Methyl-2-pentanone	U		40	µg/Kg	1	7/11/2023 10:02 AM
Acetone	U		130	µg/Kg	1	7/11/2023 10:02 AM
Benzene	U		40	µg/Kg	1	7/11/2023 10:02 AM
Bromochloromethane	U		40	µg/Kg	1	7/11/2023 10:02 AM
Bromodichloromethane	U		40	µg/Kg	1	7/11/2023 10:02 AM
Bromoform	U		40	µg/Kg	1	7/11/2023 10:02 AM
Bromomethane	U		130	µg/Kg	1	7/11/2023 10:02 AM
Carbon disulfide	U		40	µg/Kg	1	7/11/2023 10:02 AM
Carbon tetrachloride	U		40	µg/Kg	1	7/11/2023 10:02 AM
Chlorobenzene	U		40	µg/Kg	1	7/11/2023 10:02 AM
Chloroethane	U		130	µg/Kg	1	7/11/2023 10:02 AM
Chloroform	U		40	µg/Kg	1	7/11/2023 10:02 AM
Chloromethane	U		130	µg/Kg	1	7/11/2023 10:02 AM
cis-1,2-Dichloroethene	U		40	µg/Kg	1	7/11/2023 10:02 AM
cis-1,3-Dichloropropene	U		40	µg/Kg	1	7/11/2023 10:02 AM
Cyclohexane	U		130	µg/Kg	1	7/11/2023 10:02 AM
Dibromochloromethane	U		40	µg/Kg	1	7/11/2023 10:02 AM
Dichlorodifluoromethane	U		130	µg/Kg	1	7/11/2023 10:02 AM
Ethylbenzene	U		40	µg/Kg	1	7/11/2023 10:02 AM
Isopropylbenzene	U		40	µg/Kg	1	7/11/2023 10:02 AM
m,p-Xylene	U		79	µg/Kg	1	7/11/2023 10:02 AM
Methyl acetate	U		330	µg/Kg	1	7/11/2023 10:02 AM
Methyl tert-butyl ether	U		40	µg/Kg	1	7/11/2023 10:02 AM
Methylcyclohexane	U		40	µg/Kg	1	7/11/2023 10:02 AM
<b>Methylene chloride</b>	<b>470</b>		<b>330</b>	<b>µg/Kg</b>	1	7/11/2023 10:02 AM
o-Xylene	U		40	µg/Kg	1	7/11/2023 10:02 AM
Styrene	U		40	µg/Kg	1	7/11/2023 10:02 AM
Tetrachloroethene	U		40	µg/Kg	1	7/11/2023 10:02 AM
Toluene	U		40	µg/Kg	1	7/11/2023 10:02 AM
trans-1,2-Dichloroethene	U		40	µg/Kg	1	7/11/2023 10:02 AM
trans-1,3-Dichloropropene	U		40	µg/Kg	1	7/11/2023 10:02 AM
Trichloroethene	U		40	µg/Kg	1	7/11/2023 10:02 AM
Trichlorofluoromethane	U		40	µg/Kg	1	7/11/2023 10:02 AM
Vinyl chloride	U		40	µg/Kg	1	7/11/2023 10:02 AM

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

**ALS Group, USA****Date:** 18-Jul-2023**Client:** Tetra Tech**Project:** Boys and Girls Club**Sample ID:** SB-1 (0-3)**Collection Date:** 6/27/2023 09:12 AM**Work Order:** 23070106**Lab ID:** 23070106-01**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	U		120	µg/Kg	1	7/11/2023 10:02 AM
Surr: 1,2-Dichloroethane-d4	104		80-120	%REC	1	7/11/2023 10:02 AM
Surr: 4-Bromofluorobenzene	103		80-120	%REC	1	7/11/2023 10:02 AM
Surr: Dibromofluoromethane	92.4		80-120	%REC	1	7/11/2023 10:02 AM
Surr: Toluene-d8	101		80-120	%REC	1	7/11/2023 10:02 AM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	13		0.10	% of sample	1	7/7/2023 11:56 AM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-1 (32-35)  
**Collection Date:** 6/27/2023 09:37 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-02  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>	Prep: SW7471 7/4/23 17:09		Analyst: <b>KRA</b>
Mercury	0.027		0.018	mg/Kg-dry	1	7/5/2023 12:33 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>	Prep: SW3050B 7/7/23 12:03		Analyst: <b>STP</b>
Aluminum	5,600		280	mg/Kg-dry	100	7/11/2023 03:12 PM
Antimony	0.45		0.32	mg/Kg-dry	1	7/5/2023 09:12 PM
Arsenic	9.1		3.2	mg/Kg-dry	10	7/6/2023 04:35 PM
Barium	290		3.2	mg/Kg-dry	10	7/6/2023 04:35 PM
Beryllium	0.51		0.13	mg/Kg-dry	1	7/5/2023 09:12 PM
Cadmium	0.30		0.13	mg/Kg-dry	1	7/5/2023 09:12 PM
Calcium	32,000		320	mg/Kg-dry	10	7/6/2023 04:35 PM
Chromium	12		3.2	mg/Kg-dry	10	7/6/2023 04:35 PM
Cobalt	9.1		3.2	mg/Kg-dry	10	7/6/2023 04:35 PM
Copper	17		3.2	mg/Kg-dry	10	7/6/2023 04:35 PM
Iron	16,000		130	mg/Kg-dry	10	7/6/2023 04:35 PM
Lead	11		0.32	mg/Kg-dry	1	7/5/2023 09:12 PM
Magnesium	12,000		130	mg/Kg-dry	10	7/6/2023 04:35 PM
Manganese	780		3.2	mg/Kg-dry	10	7/6/2023 04:35 PM
Nickel	24		3.2	mg/Kg-dry	10	7/6/2023 04:35 PM
Potassium	1,600		13	mg/Kg-dry	1	7/5/2023 09:12 PM
Selenium	U		3.2	mg/Kg-dry	10	7/6/2023 04:35 PM
Silver	0.052	J	0.32	mg/Kg-dry	1	7/5/2023 09:12 PM
Sodium	U		190	mg/Kg-dry	10	7/6/2023 04:35 PM
Thallium	0.26	J	0.32	mg/Kg-dry	1	7/5/2023 09:12 PM
Vanadium	22		0.32	mg/Kg-dry	1	7/5/2023 09:12 PM
Zinc	59		6.3	mg/Kg-dry	10	7/6/2023 04:35 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>	Prep: SW3546 7/10/23 15:46		Analyst: <b>EEW</b>
1,1'-Biphenyl	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
1,2,4,5-Tetrachlorobenzene	U		190	µg/Kg-dry	1	7/11/2023 03:45 PM
1,4-Dioxane	U		190	µg/Kg-dry	1	7/11/2023 03:45 PM
1-Methylnaphthalene	U		7.4	µg/Kg-dry	1	7/11/2023 03:45 PM
2,2'-Oxybis(1-chloropropane)	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
2,3,4,6-Tetrachlorophenol	U		75	µg/Kg-dry	1	7/11/2023 03:45 PM
2,4,5-Trichlorophenol	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
2,4,6-Trichlorophenol	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
2,4-Dichlorophenol	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
2,4-Dimethylphenol	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
2,4-Dinitrophenol	U		740	µg/Kg-dry	1	7/11/2023 03:45 PM
2,4-Dinitrotoluene	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-1 (32-35)  
**Collection Date:** 6/27/2023 09:37 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-02  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
2-Chloronaphthalene	U		7.4	µg/Kg-dry	1	7/11/2023 03:45 PM
2-Chlorophenol	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
2-Methylnaphthalene	U		7.4	µg/Kg-dry	1	7/11/2023 03:45 PM
2-Methylphenol	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
2-Nitroaniline	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
2-Nitrophenol	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
3&4-Methylphenol	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
3,3'-Dichlorobenzidine	U		190	µg/Kg-dry	1	7/11/2023 03:45 PM
3-Nitroaniline	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
4,6-Dinitro-2-methylphenol	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
4-Bromophenyl phenyl ether	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
4-Chloro-3-methylphenol	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
4-Chloroaniline	U		75	µg/Kg-dry	1	7/11/2023 03:45 PM
4-Chlorophenyl phenyl ether	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
4-Nitroaniline	U		190	µg/Kg-dry	1	7/11/2023 03:45 PM
4-Nitrophenol	U		190	µg/Kg-dry	1	7/11/2023 03:45 PM
Acenaphthene	U		7.4	µg/Kg-dry	1	7/11/2023 03:45 PM
Acenaphthylene	U		7.4	µg/Kg-dry	1	7/11/2023 03:45 PM
Acetophenone	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
Anthracene	U		7.4	µg/Kg-dry	1	7/11/2023 03:45 PM
Atrazine	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
Benzaldehyde	U		75	µg/Kg-dry	1	7/11/2023 03:45 PM
Benzo(a)anthracene	U		7.4	µg/Kg-dry	1	7/11/2023 03:45 PM
Benzo(a)pyrene	U		7.4	µg/Kg-dry	1	7/11/2023 03:45 PM
Benzo(b)fluoranthene	U		7.4	µg/Kg-dry	1	7/11/2023 03:45 PM
Benzo(g,h,i)perylene	U		7.4	µg/Kg-dry	1	7/11/2023 03:45 PM
Benzo(k)fluoranthene	U		7.4	µg/Kg-dry	1	7/11/2023 03:45 PM
Bis(2-chloroethoxy)methane	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
Bis(2-chloroethyl)ether	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
Bis(2-ethylhexyl)phthalate	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
Butyl benzyl phthalate	U		75	µg/Kg-dry	1	7/11/2023 03:45 PM
Caprolactam	U		75	µg/Kg-dry	1	7/11/2023 03:45 PM
Carbazole	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
Chrysene	U		7.4	µg/Kg-dry	1	7/11/2023 03:45 PM
Dibenzo(a,h)anthracene	U		7.4	µg/Kg-dry	1	7/11/2023 03:45 PM
Dibenzofuran	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
Diethyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
Dimethyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
Di-n-butyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-1 (32-35)  
**Collection Date:** 6/27/2023 09:37 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-02  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
Fluoranthene	U		7.4	µg/Kg-dry	1	7/11/2023 03:45 PM
Fluorene	U		7.4	µg/Kg-dry	1	7/11/2023 03:45 PM
Hexachlorobenzene	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
Hexachlorobutadiene	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
Hexachlorocyclopentadiene	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
Hexachloroethane	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
Indeno(1,2,3-cd)pyrene	U		7.4	µg/Kg-dry	1	7/11/2023 03:45 PM
Isophorone	U		190	µg/Kg-dry	1	7/11/2023 03:45 PM
Naphthalene	U		7.4	µg/Kg-dry	1	7/11/2023 03:45 PM
Nitrobenzene	U		190	µg/Kg-dry	1	7/11/2023 03:45 PM
N-Nitrosodi-n-propylamine	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
N-Nitrosodiphenylamine	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
Pentachlorophenol	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
Phenanthrene	U		7.4	µg/Kg-dry	1	7/11/2023 03:45 PM
Phenol	U		37	µg/Kg-dry	1	7/11/2023 03:45 PM
Pyrene	U		7.4	µg/Kg-dry	1	7/11/2023 03:45 PM
Pyridine	U		190	µg/Kg-dry	1	7/11/2023 03:45 PM
Surr: 2,4,6-Tribromophenol	63.1		48-94	%REC	1	7/11/2023 03:45 PM
Surr: 2-Fluorobiphenyl	72.0		50-103	%REC	1	7/11/2023 03:45 PM
Surr: 2-Fluorophenol	71.6		43-105	%REC	1	7/11/2023 03:45 PM
Surr: 4-Terphenyl-d14	76.7		55-111	%REC	1	7/11/2023 03:45 PM
Surr: Nitrobenzene-d5	74.9		47-100	%REC	1	7/11/2023 03:45 PM
Surr: Phenol-d6	76.0		49-110	%REC	1	7/11/2023 03:45 PM

## VOLATILE ORGANIC COMPOUNDS

SW8260D

Prep: SW5035A 7/5/23 16:17

Analyst: SBR

1,1,1-Trichloroethane	U		42	µg/Kg	1	7/11/2023 10:20 AM
1,1,2,2-Tetrachloroethane	U		42	µg/Kg	1	7/11/2023 10:20 AM
1,1,2-Trichloroethane	U		42	µg/Kg	1	7/11/2023 10:20 AM
1,1,2-Trichlorotrifluoroethane	U		42	µg/Kg	1	7/11/2023 10:20 AM
1,1-Dichloroethane	U		42	µg/Kg	1	7/11/2023 10:20 AM
1,1-Dichloroethene	U		42	µg/Kg	1	7/11/2023 10:20 AM
1,2,3-Trichlorobenzene	U		140	µg/Kg	1	7/11/2023 10:20 AM
1,2,3-Trichloropropane	U		42	µg/Kg	1	7/11/2023 10:20 AM
1,2,4-Trichlorobenzene	U		140	µg/Kg	1	7/11/2023 10:20 AM
1,2,4-Trimethylbenzene	U		42	µg/Kg	1	7/11/2023 10:20 AM
1,2-Dibromo-3-chloropropane	U		140	µg/Kg	1	7/11/2023 10:20 AM
1,2-Dibromoethane	U		42	µg/Kg	1	7/11/2023 10:20 AM
1,2-Dichlorobenzene	U		42	µg/Kg	1	7/11/2023 10:20 AM
1,2-Dichloroethane	U		42	µg/Kg	1	7/11/2023 10:20 AM

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



# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-1 (32-35)  
**Collection Date:** 6/27/2023 09:37 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-02  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	U		42	µg/Kg	1	7/11/2023 10:20 AM
1,3,5-Trimethylbenzene	U		140	µg/Kg	1	7/11/2023 10:20 AM
1,3-Dichlorobenzene	U		42	µg/Kg	1	7/11/2023 10:20 AM
1,4-Dichlorobenzene	U		42	µg/Kg	1	7/11/2023 10:20 AM
2-Butanone	U		280	µg/Kg	1	7/11/2023 10:20 AM
2-Hexanone	U		42	µg/Kg	1	7/11/2023 10:20 AM
4-Methyl-2-pentanone	U		42	µg/Kg	1	7/11/2023 10:20 AM
Acetone	U		140	µg/Kg	1	7/11/2023 10:20 AM
Benzene	U		42	µg/Kg	1	7/11/2023 10:20 AM
Bromochloromethane	U		42	µg/Kg	1	7/11/2023 10:20 AM
Bromodichloromethane	U		42	µg/Kg	1	7/11/2023 10:20 AM
Bromoform	U		42	µg/Kg	1	7/11/2023 10:20 AM
Bromomethane	U		140	µg/Kg	1	7/11/2023 10:20 AM
Carbon disulfide	U		42	µg/Kg	1	7/11/2023 10:20 AM
Carbon tetrachloride	U		42	µg/Kg	1	7/11/2023 10:20 AM
Chlorobenzene	U		42	µg/Kg	1	7/11/2023 10:20 AM
Chloroethane	U		140	µg/Kg	1	7/11/2023 10:20 AM
Chloroform	U		42	µg/Kg	1	7/11/2023 10:20 AM
Chloromethane	U		140	µg/Kg	1	7/11/2023 10:20 AM
cis-1,2-Dichloroethene	U		42	µg/Kg	1	7/11/2023 10:20 AM
cis-1,3-Dichloropropene	U		42	µg/Kg	1	7/11/2023 10:20 AM
Cyclohexane	U		140	µg/Kg	1	7/11/2023 10:20 AM
Dibromochloromethane	U		42	µg/Kg	1	7/11/2023 10:20 AM
Dichlorodifluoromethane	U		140	µg/Kg	1	7/11/2023 10:20 AM
Ethylbenzene	U		42	µg/Kg	1	7/11/2023 10:20 AM
Isopropylbenzene	U		42	µg/Kg	1	7/11/2023 10:20 AM
m,p-Xylene	U		85	µg/Kg	1	7/11/2023 10:20 AM
Methyl acetate	U		350	µg/Kg	1	7/11/2023 10:20 AM
Methyl tert-butyl ether	U		42	µg/Kg	1	7/11/2023 10:20 AM
Methylcyclohexane	U		42	µg/Kg	1	7/11/2023 10:20 AM
<b>Methylene chloride</b>	<b>560</b>		<b>350</b>	<b>µg/Kg</b>	1	7/11/2023 10:20 AM
o-Xylene	U		42	µg/Kg	1	7/11/2023 10:20 AM
Styrene	U		42	µg/Kg	1	7/11/2023 10:20 AM
Tetrachloroethene	U		42	µg/Kg	1	7/11/2023 10:20 AM
Toluene	U		42	µg/Kg	1	7/11/2023 10:20 AM
trans-1,2-Dichloroethene	U		42	µg/Kg	1	7/11/2023 10:20 AM
trans-1,3-Dichloropropene	U		42	µg/Kg	1	7/11/2023 10:20 AM
Trichloroethene	U		42	µg/Kg	1	7/11/2023 10:20 AM
Trichlorofluoromethane	U		42	µg/Kg	1	7/11/2023 10:20 AM
Vinyl chloride	U		42	µg/Kg	1	7/11/2023 10:20 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-1 (32-35)  
**Collection Date:** 6/27/2023 09:37 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-02  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	U		130	µg/Kg	1	7/11/2023 10:20 AM
Surr: 1,2-Dichloroethane-d4	98.6		80-120	%REC	1	7/11/2023 10:20 AM
Surr: 4-Bromofluorobenzene	98.2		80-120	%REC	1	7/11/2023 10:20 AM
Surr: Dibromofluoromethane	89.7		80-120	%REC	1	7/11/2023 10:20 AM
Surr: Toluene-d8	97.9		80-120	%REC	1	7/11/2023 10:20 AM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	14		0.10	% of sample	1	7/7/2023 11:56 AM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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

# ALS Group, USA

Date: 18-Jul-2023

Client: Tetra Tech  
Project: Boys and Girls Club  
Sample ID: SB-2 (0-3)  
Collection Date: 6/27/2023 10:15 AM

Work Order: 23070106  
Lab ID: 23070106-03  
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>		Prep: SW7471 7/4/23 17:09	Analyst: <b>KRA</b>
Mercury	0.039		0.022	mg/Kg-dry	1	7/5/2023 12:35 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>		Prep: SW3050B 7/7/23 12:03	Analyst: <b>STP</b>
Aluminum	6,000		270	mg/Kg-dry	100	7/11/2023 03:17 PM
Antimony	0.46		0.31	mg/Kg-dry	1	7/5/2023 09:14 PM
Arsenic	13		3.1	mg/Kg-dry	10	7/6/2023 04:42 PM
Barium	410		3.1	mg/Kg-dry	10	7/6/2023 04:42 PM
Beryllium	0.70		0.13	mg/Kg-dry	1	7/5/2023 09:14 PM
Cadmium	0.30		0.13	mg/Kg-dry	1	7/5/2023 09:14 PM
Calcium	36,000		310	mg/Kg-dry	10	7/6/2023 04:42 PM
Chromium	16		3.1	mg/Kg-dry	10	7/6/2023 04:42 PM
Cobalt	14		3.1	mg/Kg-dry	10	7/6/2023 04:42 PM
Copper	21		3.1	mg/Kg-dry	10	7/6/2023 04:42 PM
Iron	24,000		130	mg/Kg-dry	10	7/6/2023 04:42 PM
Lead	15		0.31	mg/Kg-dry	1	7/5/2023 09:14 PM
Magnesium	17,000		130	mg/Kg-dry	10	7/6/2023 04:42 PM
Manganese	1,100		3.1	mg/Kg-dry	10	7/6/2023 04:42 PM
Nickel	33		3.1	mg/Kg-dry	10	7/6/2023 04:42 PM
Potassium	1,700		13	mg/Kg-dry	1	7/5/2023 09:14 PM
Selenium	U		3.1	mg/Kg-dry	10	7/6/2023 04:42 PM
Silver	0.080	J	0.31	mg/Kg-dry	1	7/5/2023 09:14 PM
Sodium	2,700		190	mg/Kg-dry	10	7/6/2023 04:42 PM
Thallium	0.33		0.31	mg/Kg-dry	1	7/5/2023 09:14 PM
Vanadium	26		0.31	mg/Kg-dry	1	7/5/2023 09:14 PM
Zinc	78		6.3	mg/Kg-dry	10	7/6/2023 04:42 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>		Prep: SW3546 7/10/23 15:46	Analyst: <b>EEW</b>
1,1'-Biphenyl	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
1,2,4,5-Tetrachlorobenzene	U		190	µg/Kg-dry	1	7/11/2023 02:59 PM
1,4-Dioxane	U		190	µg/Kg-dry	1	7/11/2023 02:59 PM
1-Methylnaphthalene	U		7.6	µg/Kg-dry	1	7/11/2023 02:59 PM
2,2'-Oxybis(1-chloropropane)	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
2,3,4,6-Tetrachlorophenol	U		76	µg/Kg-dry	1	7/11/2023 02:59 PM
2,4,5-Trichlorophenol	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
2,4,6-Trichlorophenol	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
2,4-Dichlorophenol	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
2,4-Dimethylphenol	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
2,4-Dinitrophenol	U		760	µg/Kg-dry	1	7/11/2023 02:59 PM
2,4-Dinitrotoluene	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-2 (0-3)  
**Collection Date:** 6/27/2023 10:15 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-03  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
2-Chloronaphthalene	U		7.6	µg/Kg-dry	1	7/11/2023 02:59 PM
2-Chlorophenol	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
2-Methylnaphthalene	U		7.6	µg/Kg-dry	1	7/11/2023 02:59 PM
2-Methylphenol	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
2-Nitroaniline	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
2-Nitrophenol	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
3&4-Methylphenol	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
3,3'-Dichlorobenzidine	U		190	µg/Kg-dry	1	7/11/2023 02:59 PM
3-Nitroaniline	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
4,6-Dinitro-2-methylphenol	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
4-Bromophenyl phenyl ether	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
4-Chloro-3-methylphenol	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
4-Chloroaniline	U		76	µg/Kg-dry	1	7/11/2023 02:59 PM
4-Chlorophenyl phenyl ether	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
4-Nitroaniline	U		190	µg/Kg-dry	1	7/11/2023 02:59 PM
4-Nitrophenol	U		190	µg/Kg-dry	1	7/11/2023 02:59 PM
Acenaphthene	U		7.6	µg/Kg-dry	1	7/11/2023 02:59 PM
Acenaphthylene	U		7.6	µg/Kg-dry	1	7/11/2023 02:59 PM
Acetophenone	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
Anthracene	U		7.6	µg/Kg-dry	1	7/11/2023 02:59 PM
Atrazine	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
Benzaldehyde	U		76	µg/Kg-dry	1	7/11/2023 02:59 PM
Benzo(a)anthracene	U		7.6	µg/Kg-dry	1	7/11/2023 02:59 PM
Benzo(a)pyrene	U		7.6	µg/Kg-dry	1	7/11/2023 02:59 PM
Benzo(b)fluoranthene	U		7.6	µg/Kg-dry	1	7/11/2023 02:59 PM
Benzo(g,h,i)perylene	U		7.6	µg/Kg-dry	1	7/11/2023 02:59 PM
Benzo(k)fluoranthene	U		7.6	µg/Kg-dry	1	7/11/2023 02:59 PM
Bis(2-chloroethoxy)methane	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
Bis(2-chloroethyl)ether	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
Bis(2-ethylhexyl)phthalate	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
Butyl benzyl phthalate	U		76	µg/Kg-dry	1	7/11/2023 02:59 PM
Caprolactam	U		76	µg/Kg-dry	1	7/11/2023 02:59 PM
Carbazole	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
Chrysene	U		7.6	µg/Kg-dry	1	7/11/2023 02:59 PM
Dibenzo(a,h)anthracene	U		7.6	µg/Kg-dry	1	7/11/2023 02:59 PM
Dibenzofuran	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
Diethyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
Dimethyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
Di-n-butyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-2 (0-3)  
**Collection Date:** 6/27/2023 10:15 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-03  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
Fluoranthene	U		7.6	µg/Kg-dry	1	7/11/2023 02:59 PM
Fluorene	U		7.6	µg/Kg-dry	1	7/11/2023 02:59 PM
Hexachlorobenzene	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
Hexachlorobutadiene	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
Hexachlorocyclopentadiene	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
Hexachloroethane	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
Indeno(1,2,3-cd)pyrene	U		7.6	µg/Kg-dry	1	7/11/2023 02:59 PM
Isophorone	U		190	µg/Kg-dry	1	7/11/2023 02:59 PM
Naphthalene	U		7.6	µg/Kg-dry	1	7/11/2023 02:59 PM
Nitrobenzene	U		190	µg/Kg-dry	1	7/11/2023 02:59 PM
N-Nitrosodi-n-propylamine	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
N-Nitrosodiphenylamine	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
Pentachlorophenol	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
Phenanthrene	U		7.6	µg/Kg-dry	1	7/11/2023 02:59 PM
Phenol	U		37	µg/Kg-dry	1	7/11/2023 02:59 PM
Pyrene	U		7.6	µg/Kg-dry	1	7/11/2023 02:59 PM
Pyridine	U		190	µg/Kg-dry	1	7/11/2023 02:59 PM
Surr: 2,4,6-Tribromophenol	46.3	S	48-94	%REC	1	7/11/2023 02:59 PM
Surr: 2-Fluorobiphenyl	72.7		50-103	%REC	1	7/11/2023 02:59 PM
Surr: 2-Fluorophenol	56.8		43-105	%REC	1	7/11/2023 02:59 PM
Surr: 4-Terphenyl-d14	81.1		55-111	%REC	1	7/11/2023 02:59 PM
Surr: Nitrobenzene-d5	70.3		47-100	%REC	1	7/11/2023 02:59 PM
Surr: Phenol-d6	64.0		49-110	%REC	1	7/11/2023 02:59 PM

## VOLATILE ORGANIC COMPOUNDS

SW8260D

Prep: SW5035A 7/5/23 16:17

Analyst: SBR

1,1,1-Trichloroethane	U		40	µg/Kg	1	7/11/2023 10:38 AM
1,1,2,2-Tetrachloroethane	U		40	µg/Kg	1	7/11/2023 10:38 AM
1,1,2-Trichloroethane	U		40	µg/Kg	1	7/11/2023 10:38 AM
1,1,2-Trichlorotrifluoroethane	U		40	µg/Kg	1	7/11/2023 10:38 AM
1,1-Dichloroethane	U		40	µg/Kg	1	7/11/2023 10:38 AM
1,1-Dichloroethene	U		40	µg/Kg	1	7/11/2023 10:38 AM
1,2,3-Trichlorobenzene	U		130	µg/Kg	1	7/11/2023 10:38 AM
1,2,3-Trichloropropane	U		40	µg/Kg	1	7/11/2023 10:38 AM
1,2,4-Trichlorobenzene	U		130	µg/Kg	1	7/11/2023 10:38 AM
1,2,4-Trimethylbenzene	U		40	µg/Kg	1	7/11/2023 10:38 AM
1,2-Dibromo-3-chloropropane	U		130	µg/Kg	1	7/11/2023 10:38 AM
1,2-Dibromoethane	U		40	µg/Kg	1	7/11/2023 10:38 AM
1,2-Dichlorobenzene	U		40	µg/Kg	1	7/11/2023 10:38 AM
1,2-Dichloroethane	U		40	µg/Kg	1	7/11/2023 10:38 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-2 (0-3)  
**Collection Date:** 6/27/2023 10:15 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-03  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	U		40	µg/Kg	1	7/11/2023 10:38 AM
1,3,5-Trimethylbenzene	U		130	µg/Kg	1	7/11/2023 10:38 AM
1,3-Dichlorobenzene	U		40	µg/Kg	1	7/11/2023 10:38 AM
1,4-Dichlorobenzene	U		40	µg/Kg	1	7/11/2023 10:38 AM
2-Butanone	U		260	µg/Kg	1	7/11/2023 10:38 AM
2-Hexanone	U		40	µg/Kg	1	7/11/2023 10:38 AM
4-Methyl-2-pentanone	U		40	µg/Kg	1	7/11/2023 10:38 AM
Acetone	U		130	µg/Kg	1	7/11/2023 10:38 AM
Benzene	U		40	µg/Kg	1	7/11/2023 10:38 AM
Bromochloromethane	U		40	µg/Kg	1	7/11/2023 10:38 AM
Bromodichloromethane	U		40	µg/Kg	1	7/11/2023 10:38 AM
Bromoform	U		40	µg/Kg	1	7/11/2023 10:38 AM
Bromomethane	U		130	µg/Kg	1	7/11/2023 10:38 AM
Carbon disulfide	U		40	µg/Kg	1	7/11/2023 10:38 AM
Carbon tetrachloride	U		40	µg/Kg	1	7/11/2023 10:38 AM
Chlorobenzene	U		40	µg/Kg	1	7/11/2023 10:38 AM
Chloroethane	U		130	µg/Kg	1	7/11/2023 10:38 AM
Chloroform	U		40	µg/Kg	1	7/11/2023 10:38 AM
Chloromethane	U		130	µg/Kg	1	7/11/2023 10:38 AM
cis-1,2-Dichloroethene	U		40	µg/Kg	1	7/11/2023 10:38 AM
cis-1,3-Dichloropropene	U		40	µg/Kg	1	7/11/2023 10:38 AM
Cyclohexane	U		130	µg/Kg	1	7/11/2023 10:38 AM
Dibromochloromethane	U		40	µg/Kg	1	7/11/2023 10:38 AM
Dichlorodifluoromethane	U		130	µg/Kg	1	7/11/2023 10:38 AM
Ethylbenzene	U		40	µg/Kg	1	7/11/2023 10:38 AM
Isopropylbenzene	U		40	µg/Kg	1	7/11/2023 10:38 AM
m,p-Xylene	U		79	µg/Kg	1	7/11/2023 10:38 AM
Methyl acetate	U		330	µg/Kg	1	7/11/2023 10:38 AM
Methyl tert-butyl ether	U		40	µg/Kg	1	7/11/2023 10:38 AM
Methylcyclohexane	U		40	µg/Kg	1	7/11/2023 10:38 AM
<b>Methylene chloride</b>	<b>680</b>		<b>330</b>	<b>µg/Kg</b>	1	7/11/2023 10:38 AM
o-Xylene	U		40	µg/Kg	1	7/11/2023 10:38 AM
Styrene	U		40	µg/Kg	1	7/11/2023 10:38 AM
Tetrachloroethene	U		40	µg/Kg	1	7/11/2023 10:38 AM
Toluene	U		40	µg/Kg	1	7/11/2023 10:38 AM
trans-1,2-Dichloroethene	U		40	µg/Kg	1	7/11/2023 10:38 AM
trans-1,3-Dichloropropene	U		40	µg/Kg	1	7/11/2023 10:38 AM
Trichloroethene	U		40	µg/Kg	1	7/11/2023 10:38 AM
Trichlorofluoromethane	U		40	µg/Kg	1	7/11/2023 10:38 AM
Vinyl chloride	U		40	µg/Kg	1	7/11/2023 10:38 AM

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

**ALS Group, USA****Date:** 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-2 (0-3)  
**Collection Date:** 6/27/2023 10:15 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-03  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	U		120	µg/Kg	1	7/11/2023 10:38 AM
Surr: 1,2-Dichloroethane-d4	108		80-120	%REC	1	7/11/2023 10:38 AM
Surr: 4-Bromofluorobenzene	101		80-120	%REC	1	7/11/2023 10:38 AM
Surr: Dibromofluoromethane	89.6		80-120	%REC	1	7/11/2023 10:38 AM
Surr: Toluene-d8	99.7		80-120	%REC	1	7/11/2023 10:38 AM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	13		0.10	% of sample	1	7/7/2023 11:56 AM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-2 (32-35)  
**Collection Date:** 6/27/2023 10:36 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-04  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>	Prep: SW7471 7/4/23 17:09		Analyst: <b>KRA</b>
Mercury	0.035		0.018	mg/Kg-dry	1	7/5/2023 01:05 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>	Prep: SW3050B 7/7/23 12:03		Analyst: <b>STP</b>
Aluminum	5,500		230	mg/Kg-dry	100	7/11/2023 03:19 PM
Antimony	0.51		0.33	mg/Kg-dry	1	7/5/2023 09:23 PM
Arsenic	10		3.3	mg/Kg-dry	10	7/7/2023 11:44 AM
Barium	350		3.3	mg/Kg-dry	10	7/6/2023 04:44 PM
Beryllium	0.47		0.13	mg/Kg-dry	1	7/5/2023 09:23 PM
Cadmium	0.26		0.13	mg/Kg-dry	1	7/5/2023 09:23 PM
Calcium	33,000		330	mg/Kg-dry	10	7/6/2023 04:44 PM
Chromium	12		3.3	mg/Kg-dry	10	7/7/2023 11:44 AM
Cobalt	9.4		3.3	mg/Kg-dry	10	7/7/2023 11:44 AM
Copper	16		3.3	mg/Kg-dry	10	7/7/2023 11:44 AM
Iron	18,000		130	mg/Kg-dry	10	7/7/2023 11:44 AM
Lead	11		0.33	mg/Kg-dry	1	7/5/2023 09:23 PM
Magnesium	14,000		130	mg/Kg-dry	10	7/7/2023 11:44 AM
Manganese	1,000		3.3	mg/Kg-dry	10	7/6/2023 04:44 PM
Nickel	23		3.3	mg/Kg-dry	10	7/7/2023 11:44 AM
Potassium	1,300		13	mg/Kg-dry	1	7/5/2023 09:23 PM
Selenium	U		3.3	mg/Kg-dry	10	7/7/2023 11:44 AM
Silver	0.062	J	0.33	mg/Kg-dry	1	7/5/2023 09:23 PM
Sodium	U		200	mg/Kg-dry	10	7/7/2023 11:44 AM
Thallium	0.25	J	0.33	mg/Kg-dry	1	7/5/2023 09:23 PM
Vanadium	22		0.33	mg/Kg-dry	1	7/5/2023 09:23 PM
Zinc	58		6.5	mg/Kg-dry	10	7/7/2023 11:44 AM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>	Prep: SW3546 7/10/23 15:46		Analyst: <b>EEW</b>
1,1'-Biphenyl	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
1,2,4,5-Tetrachlorobenzene	U		180	µg/Kg-dry	1	7/11/2023 04:08 PM
1,4-Dioxane	U		180	µg/Kg-dry	1	7/11/2023 04:08 PM
1-Methylnaphthalene	U		7.3	µg/Kg-dry	1	7/11/2023 04:08 PM
2,2'-Oxybis(1-chloropropane)	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
2,3,4,6-Tetrachlorophenol	U		74	µg/Kg-dry	1	7/11/2023 04:08 PM
2,4,5-Trichlorophenol	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
2,4,6-Trichlorophenol	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
2,4-Dichlorophenol	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
2,4-Dimethylphenol	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
2,4-Dinitrophenol	U		730	µg/Kg-dry	1	7/11/2023 04:08 PM
2,4-Dinitrotoluene	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM

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



# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-2 (32-35)  
**Collection Date:** 6/27/2023 10:36 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-04  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
2-Chloronaphthalene	U		7.3	µg/Kg-dry	1	7/11/2023 04:08 PM
2-Chlorophenol	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
2-Methylnaphthalene	U		7.3	µg/Kg-dry	1	7/11/2023 04:08 PM
2-Methylphenol	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
2-Nitroaniline	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
2-Nitrophenol	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
3&4-Methylphenol	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
3,3'-Dichlorobenzidine	U		180	µg/Kg-dry	1	7/11/2023 04:08 PM
3-Nitroaniline	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
4,6-Dinitro-2-methylphenol	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
4-Bromophenyl phenyl ether	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
4-Chloro-3-methylphenol	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
4-Chloroaniline	U		74	µg/Kg-dry	1	7/11/2023 04:08 PM
4-Chlorophenyl phenyl ether	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
4-Nitroaniline	U		180	µg/Kg-dry	1	7/11/2023 04:08 PM
4-Nitrophenol	U		180	µg/Kg-dry	1	7/11/2023 04:08 PM
Acenaphthene	U		7.3	µg/Kg-dry	1	7/11/2023 04:08 PM
Acenaphthylene	U		7.3	µg/Kg-dry	1	7/11/2023 04:08 PM
Acetophenone	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
Anthracene	U		7.3	µg/Kg-dry	1	7/11/2023 04:08 PM
Atrazine	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
Benzaldehyde	U		74	µg/Kg-dry	1	7/11/2023 04:08 PM
Benzo(a)anthracene	U		7.3	µg/Kg-dry	1	7/11/2023 04:08 PM
Benzo(a)pyrene	U		7.3	µg/Kg-dry	1	7/11/2023 04:08 PM
Benzo(b)fluoranthene	U		7.3	µg/Kg-dry	1	7/11/2023 04:08 PM
Benzo(g,h,i)perylene	U		7.3	µg/Kg-dry	1	7/11/2023 04:08 PM
Benzo(k)fluoranthene	U		7.3	µg/Kg-dry	1	7/11/2023 04:08 PM
Bis(2-chloroethoxy)methane	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
Bis(2-chloroethyl)ether	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
Bis(2-ethylhexyl)phthalate	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
Butyl benzyl phthalate	U		74	µg/Kg-dry	1	7/11/2023 04:08 PM
Caprolactam	U		74	µg/Kg-dry	1	7/11/2023 04:08 PM
Carbazole	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
Chrysene	U		7.3	µg/Kg-dry	1	7/11/2023 04:08 PM
Dibenzo(a,h)anthracene	U		7.3	µg/Kg-dry	1	7/11/2023 04:08 PM
Dibenzofuran	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
Diethyl phthalate	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
Dimethyl phthalate	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
Di-n-butyl phthalate	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-2 (32-35)  
**Collection Date:** 6/27/2023 10:36 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-04  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
Fluoranthene	U		7.3	µg/Kg-dry	1	7/11/2023 04:08 PM
Fluorene	U		7.3	µg/Kg-dry	1	7/11/2023 04:08 PM
Hexachlorobenzene	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
Hexachlorobutadiene	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
Hexachlorocyclopentadiene	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
Hexachloroethane	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
Indeno(1,2,3-cd)pyrene	U		7.3	µg/Kg-dry	1	7/11/2023 04:08 PM
Isophorone	U		180	µg/Kg-dry	1	7/11/2023 04:08 PM
Naphthalene	U		7.3	µg/Kg-dry	1	7/11/2023 04:08 PM
Nitrobenzene	U		180	µg/Kg-dry	1	7/11/2023 04:08 PM
N-Nitrosodi-n-propylamine	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
N-Nitrosodiphenylamine	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
Pentachlorophenol	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
Phenanthrene	U		7.3	µg/Kg-dry	1	7/11/2023 04:08 PM
Phenol	U		36	µg/Kg-dry	1	7/11/2023 04:08 PM
Pyrene	U		7.3	µg/Kg-dry	1	7/11/2023 04:08 PM
Pyridine	U		180	µg/Kg-dry	1	7/11/2023 04:08 PM
Surr: 2,4,6-Tribromophenol	59.4		48-94	%REC	1	7/11/2023 04:08 PM
Surr: 2-Fluorobiphenyl	88.7		50-103	%REC	1	7/11/2023 04:08 PM
Surr: 2-Fluorophenol	69.9		43-105	%REC	1	7/11/2023 04:08 PM
Surr: 4-Terphenyl-d14	98.5		55-111	%REC	1	7/11/2023 04:08 PM
Surr: Nitrobenzene-d5	83.3		47-100	%REC	1	7/11/2023 04:08 PM
Surr: Phenol-d6	76.6		49-110	%REC	1	7/11/2023 04:08 PM

## VOLATILE ORGANIC COMPOUNDS

SW8260D

Prep: SW5035A 7/5/23 16:17

Analyst: SBR

1,1,1-Trichloroethane	U		41	µg/Kg	1	7/11/2023 10:55 AM
1,1,2,2-Tetrachloroethane	U		41	µg/Kg	1	7/11/2023 10:55 AM
1,1,2-Trichloroethane	U		41	µg/Kg	1	7/11/2023 10:55 AM
1,1,2-Trichlorotrifluoroethane	U		41	µg/Kg	1	7/11/2023 10:55 AM
1,1-Dichloroethane	U		41	µg/Kg	1	7/11/2023 10:55 AM
1,1-Dichloroethene	U		41	µg/Kg	1	7/11/2023 10:55 AM
1,2,3-Trichlorobenzene	U		140	µg/Kg	1	7/11/2023 10:55 AM
1,2,3-Trichloropropane	U		41	µg/Kg	1	7/11/2023 10:55 AM
1,2,4-Trichlorobenzene	U		140	µg/Kg	1	7/11/2023 10:55 AM
1,2,4-Trimethylbenzene	U		41	µg/Kg	1	7/11/2023 10:55 AM
1,2-Dibromo-3-chloropropane	U		140	µg/Kg	1	7/11/2023 10:55 AM
1,2-Dibromoethane	U		41	µg/Kg	1	7/11/2023 10:55 AM
1,2-Dichlorobenzene	U		41	µg/Kg	1	7/11/2023 10:55 AM
1,2-Dichloroethane	U		41	µg/Kg	1	7/11/2023 10:55 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-2 (32-35)  
**Collection Date:** 6/27/2023 10:36 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-04  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	U		41	µg/Kg	1	7/11/2023 10:55 AM
1,3,5-Trimethylbenzene	U		140	µg/Kg	1	7/11/2023 10:55 AM
1,3-Dichlorobenzene	U		41	µg/Kg	1	7/11/2023 10:55 AM
1,4-Dichlorobenzene	U		41	µg/Kg	1	7/11/2023 10:55 AM
2-Butanone	U		270	µg/Kg	1	7/11/2023 10:55 AM
2-Hexanone	U		41	µg/Kg	1	7/11/2023 10:55 AM
4-Methyl-2-pentanone	U		41	µg/Kg	1	7/11/2023 10:55 AM
Acetone	U		140	µg/Kg	1	7/11/2023 10:55 AM
Benzene	U		41	µg/Kg	1	7/11/2023 10:55 AM
Bromochloromethane	U		41	µg/Kg	1	7/11/2023 10:55 AM
Bromodichloromethane	U		41	µg/Kg	1	7/11/2023 10:55 AM
Bromoform	U		41	µg/Kg	1	7/11/2023 10:55 AM
Bromomethane	U		140	µg/Kg	1	7/11/2023 10:55 AM
Carbon disulfide	U		41	µg/Kg	1	7/11/2023 10:55 AM
Carbon tetrachloride	U		41	µg/Kg	1	7/11/2023 10:55 AM
Chlorobenzene	U		41	µg/Kg	1	7/11/2023 10:55 AM
Chloroethane	U		140	µg/Kg	1	7/11/2023 10:55 AM
Chloroform	U		41	µg/Kg	1	7/11/2023 10:55 AM
Chloromethane	U		140	µg/Kg	1	7/11/2023 10:55 AM
cis-1,2-Dichloroethene	U		41	µg/Kg	1	7/11/2023 10:55 AM
cis-1,3-Dichloropropene	U		41	µg/Kg	1	7/11/2023 10:55 AM
Cyclohexane	U		140	µg/Kg	1	7/11/2023 10:55 AM
Dibromochloromethane	U		41	µg/Kg	1	7/11/2023 10:55 AM
Dichlorodifluoromethane	U		140	µg/Kg	1	7/11/2023 10:55 AM
Ethylbenzene	U		41	µg/Kg	1	7/11/2023 10:55 AM
Isopropylbenzene	U		41	µg/Kg	1	7/11/2023 10:55 AM
m,p-Xylene	U		81	µg/Kg	1	7/11/2023 10:55 AM
Methyl acetate	U		340	µg/Kg	1	7/11/2023 10:55 AM
Methyl tert-butyl ether	U		41	µg/Kg	1	7/11/2023 10:55 AM
Methylcyclohexane	U		41	µg/Kg	1	7/11/2023 10:55 AM
<b>Methylene chloride</b>	<b>540</b>		<b>340</b>	<b>µg/Kg</b>	1	7/11/2023 10:55 AM
o-Xylene	U		41	µg/Kg	1	7/11/2023 10:55 AM
Styrene	U		41	µg/Kg	1	7/11/2023 10:55 AM
Tetrachloroethene	U		41	µg/Kg	1	7/11/2023 10:55 AM
Toluene	U		41	µg/Kg	1	7/11/2023 10:55 AM
trans-1,2-Dichloroethene	U		41	µg/Kg	1	7/11/2023 10:55 AM
trans-1,3-Dichloropropene	U		41	µg/Kg	1	7/11/2023 10:55 AM
Trichloroethene	U		41	µg/Kg	1	7/11/2023 10:55 AM
Trichlorofluoromethane	U		41	µg/Kg	1	7/11/2023 10:55 AM
Vinyl chloride	U		41	µg/Kg	1	7/11/2023 10:55 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-2 (32-35)  
**Collection Date:** 6/27/2023 10:36 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-04  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	U		120	µg/Kg	1	7/11/2023 10:55 AM
Surr: 1,2-Dichloroethane-d4	95.4		80-120	%REC	1	7/11/2023 10:55 AM
Surr: 4-Bromofluorobenzene	102		80-120	%REC	1	7/11/2023 10:55 AM
Surr: Dibromofluoromethane	89.4		80-120	%REC	1	7/11/2023 10:55 AM
Surr: Toluene-d8	101		80-120	%REC	1	7/11/2023 10:55 AM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	12		0.10	% of sample	1	7/7/2023 11:56 AM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-3 (0-3)  
**Collection Date:** 6/27/2023 11:15 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-05  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>		Prep: SW7471 7/4/23 17:09	Analyst: <b>KRA</b>
Mercury	0.044		0.018	mg/Kg-dry	1	7/5/2023 01:07 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>		Prep: SW3050B 7/7/23 12:03	Analyst: <b>STP</b>
Aluminum	6,600		260	mg/Kg-dry	100	7/11/2023 03:20 PM
Antimony	0.41		0.32	mg/Kg-dry	1	7/5/2023 09:25 PM
Arsenic	9.6		3.2	mg/Kg-dry	10	7/6/2023 04:46 PM
Barium	240		3.2	mg/Kg-dry	10	7/6/2023 04:46 PM
Beryllium	0.50		0.13	mg/Kg-dry	1	7/5/2023 09:25 PM
Cadmium	0.17		0.13	mg/Kg-dry	1	7/5/2023 09:25 PM
Calcium	28,000		320	mg/Kg-dry	10	7/6/2023 04:46 PM
Chromium	12		3.2	mg/Kg-dry	10	7/6/2023 04:46 PM
Cobalt	9.0		3.2	mg/Kg-dry	10	7/6/2023 04:46 PM
Copper	16		3.2	mg/Kg-dry	10	7/6/2023 04:46 PM
Iron	17,000		130	mg/Kg-dry	10	7/6/2023 04:46 PM
Lead	14		0.32	mg/Kg-dry	1	7/5/2023 09:25 PM
Magnesium	12,000		130	mg/Kg-dry	10	7/6/2023 04:46 PM
Manganese	700		3.2	mg/Kg-dry	10	7/6/2023 04:46 PM
Nickel	22		3.2	mg/Kg-dry	10	7/6/2023 04:46 PM
Potassium	1,300		13	mg/Kg-dry	1	7/5/2023 09:25 PM
Selenium	U		3.2	mg/Kg-dry	10	7/6/2023 04:46 PM
Silver	0.059	J	0.32	mg/Kg-dry	1	7/5/2023 09:25 PM
Sodium	440		190	mg/Kg-dry	10	7/6/2023 04:46 PM
Thallium	0.23	J	0.32	mg/Kg-dry	1	7/5/2023 09:25 PM
Vanadium	20		0.32	mg/Kg-dry	1	7/5/2023 09:25 PM
Zinc	59		6.4	mg/Kg-dry	10	7/6/2023 04:46 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>		Prep: SW3546 7/10/23 15:46	Analyst: <b>EEW</b>
1,1'-Biphenyl	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
1,2,4,5-Tetrachlorobenzene	U		180	µg/Kg-dry	1	7/11/2023 04:31 PM
1,4-Dioxane	U		180	µg/Kg-dry	1	7/11/2023 04:31 PM
1-Methylnaphthalene	U		7.1	µg/Kg-dry	1	7/11/2023 04:31 PM
2,2'-Oxybis(1-chloropropane)	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
2,3,4,6-Tetrachlorophenol	U		71	µg/Kg-dry	1	7/11/2023 04:31 PM
2,4,5-Trichlorophenol	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
2,4,6-Trichlorophenol	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
2,4-Dichlorophenol	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
2,4-Dimethylphenol	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
2,4-Dinitrophenol	U		710	µg/Kg-dry	1	7/11/2023 04:31 PM
2,4-Dinitrotoluene	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-3 (0-3)  
**Collection Date:** 6/27/2023 11:15 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-05  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
2-Chloronaphthalene	U		7.1	µg/Kg-dry	1	7/11/2023 04:31 PM
2-Chlorophenol	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
2-Methylnaphthalene	U		7.1	µg/Kg-dry	1	7/11/2023 04:31 PM
2-Methylphenol	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
2-Nitroaniline	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
2-Nitrophenol	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
3&4-Methylphenol	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
3,3'-Dichlorobenzidine	U		180	µg/Kg-dry	1	7/11/2023 04:31 PM
3-Nitroaniline	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
4,6-Dinitro-2-methylphenol	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
4-Bromophenyl phenyl ether	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
4-Chloro-3-methylphenol	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
4-Chloroaniline	U		71	µg/Kg-dry	1	7/11/2023 04:31 PM
4-Chlorophenyl phenyl ether	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
4-Nitroaniline	U		180	µg/Kg-dry	1	7/11/2023 04:31 PM
4-Nitrophenol	U		180	µg/Kg-dry	1	7/11/2023 04:31 PM
Acenaphthene	U		7.1	µg/Kg-dry	1	7/11/2023 04:31 PM
Acenaphthylene	U		7.1	µg/Kg-dry	1	7/11/2023 04:31 PM
Acetophenone	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
Anthracene	U		7.1	µg/Kg-dry	1	7/11/2023 04:31 PM
Atrazine	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
Benzaldehyde	U		71	µg/Kg-dry	1	7/11/2023 04:31 PM
<b>Benzo(a)anthracene</b>	<b>18</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 04:31 PM
<b>Benzo(a)pyrene</b>	<b>18</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 04:31 PM
<b>Benzo(b)fluoranthene</b>	<b>18</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 04:31 PM
<b>Benzo(g,h,i)perylene</b>	<b>13</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 04:31 PM
<b>Benzo(k)fluoranthene</b>	<b>12</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 04:31 PM
Bis(2-chloroethoxy)methane	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
Bis(2-chloroethyl)ether	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
Bis(2-ethylhexyl)phthalate	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
Butyl benzyl phthalate	U		71	µg/Kg-dry	1	7/11/2023 04:31 PM
Caprolactam	U		71	µg/Kg-dry	1	7/11/2023 04:31 PM
Carbazole	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
<b>Chrysene</b>	<b>14</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 04:31 PM
<b>Dibenzo(a,h)anthracene</b>	<b>7.1</b>	J	<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 04:31 PM
Dibenzofuran	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
Diethyl phthalate	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
Dimethyl phthalate	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
Di-n-butyl phthalate	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-3 (0-3)  
**Collection Date:** 6/27/2023 11:15 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-05  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
<b>Fluoranthene</b>	<b>25</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 04:31 PM
Fluorene	U		7.1	µg/Kg-dry	1	7/11/2023 04:31 PM
Hexachlorobenzene	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
Hexachlorobutadiene	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
Hexachlorocyclopentadiene	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
Hexachloroethane	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
<b>Indeno(1,2,3-cd)pyrene</b>	<b>12</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 04:31 PM
Isophorone	U		180	µg/Kg-dry	1	7/11/2023 04:31 PM
Naphthalene	U		7.1	µg/Kg-dry	1	7/11/2023 04:31 PM
Nitrobenzene	U		180	µg/Kg-dry	1	7/11/2023 04:31 PM
N-Nitrosodi-n-propylamine	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
N-Nitrosodiphenylamine	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
Pentachlorophenol	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
<b>Phenanthrene</b>	<b>13</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 04:31 PM
Phenol	U		35	µg/Kg-dry	1	7/11/2023 04:31 PM
<b>Pyrene</b>	<b>28</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 04:31 PM
Pyridine	U		180	µg/Kg-dry	1	7/11/2023 04:31 PM
Surr: 2,4,6-Tribromophenol	66.0		48-94	%REC	1	7/11/2023 04:31 PM
Surr: 2-Fluorobiphenyl	87.6		50-103	%REC	1	7/11/2023 04:31 PM
Surr: 2-Fluorophenol	77.6		43-105	%REC	1	7/11/2023 04:31 PM
Surr: 4-Terphenyl-d14	97.3		55-111	%REC	1	7/11/2023 04:31 PM
Surr: Nitrobenzene-d5	83.0		47-100	%REC	1	7/11/2023 04:31 PM
Surr: Phenol-d6	82.0		49-110	%REC	1	7/11/2023 04:31 PM

## VOLATILE ORGANIC COMPOUNDS

SW8260D

Prep: SW5035A 7/5/23 16:17

Analyst: SBR

1,1,1-Trichloroethane	U		46	µg/Kg	1	7/11/2023 11:13 AM
1,1,2,2-Tetrachloroethane	U		46	µg/Kg	1	7/11/2023 11:13 AM
1,1,2-Trichloroethane	U		46	µg/Kg	1	7/11/2023 11:13 AM
1,1,2-Trichlorotrifluoroethane	U		46	µg/Kg	1	7/11/2023 11:13 AM
1,1-Dichloroethane	U		46	µg/Kg	1	7/11/2023 11:13 AM
1,1-Dichloroethene	U		46	µg/Kg	1	7/11/2023 11:13 AM
1,2,3-Trichlorobenzene	U		150	µg/Kg	1	7/11/2023 11:13 AM
1,2,3-Trichloropropane	U		46	µg/Kg	1	7/11/2023 11:13 AM
1,2,4-Trichlorobenzene	U		150	µg/Kg	1	7/11/2023 11:13 AM
1,2,4-Trimethylbenzene	U		46	µg/Kg	1	7/11/2023 11:13 AM
1,2-Dibromo-3-chloropropane	U		150	µg/Kg	1	7/11/2023 11:13 AM
1,2-Dibromoethane	U		46	µg/Kg	1	7/11/2023 11:13 AM
1,2-Dichlorobenzene	U		46	µg/Kg	1	7/11/2023 11:13 AM
1,2-Dichloroethane	U		46	µg/Kg	1	7/11/2023 11:13 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-3 (0-3)  
**Collection Date:** 6/27/2023 11:15 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-05  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	U		46	µg/Kg	1	7/11/2023 11:13 AM
1,3,5-Trimethylbenzene	U		150	µg/Kg	1	7/11/2023 11:13 AM
1,3-Dichlorobenzene	U		46	µg/Kg	1	7/11/2023 11:13 AM
1,4-Dichlorobenzene	U		46	µg/Kg	1	7/11/2023 11:13 AM
2-Butanone	U		310	µg/Kg	1	7/11/2023 11:13 AM
2-Hexanone	U		46	µg/Kg	1	7/11/2023 11:13 AM
4-Methyl-2-pentanone	U		46	µg/Kg	1	7/11/2023 11:13 AM
Acetone	U		150	µg/Kg	1	7/11/2023 11:13 AM
Benzene	U		46	µg/Kg	1	7/11/2023 11:13 AM
Bromochloromethane	U		46	µg/Kg	1	7/11/2023 11:13 AM
Bromodichloromethane	U		46	µg/Kg	1	7/11/2023 11:13 AM
Bromoform	U		46	µg/Kg	1	7/11/2023 11:13 AM
Bromomethane	U		150	µg/Kg	1	7/11/2023 11:13 AM
Carbon disulfide	U		46	µg/Kg	1	7/11/2023 11:13 AM
Carbon tetrachloride	U		46	µg/Kg	1	7/11/2023 11:13 AM
Chlorobenzene	U		46	µg/Kg	1	7/11/2023 11:13 AM
Chloroethane	U		150	µg/Kg	1	7/11/2023 11:13 AM
Chloroform	U		46	µg/Kg	1	7/11/2023 11:13 AM
Chloromethane	U		150	µg/Kg	1	7/11/2023 11:13 AM
cis-1,2-Dichloroethene	U		46	µg/Kg	1	7/11/2023 11:13 AM
cis-1,3-Dichloropropene	U		46	µg/Kg	1	7/11/2023 11:13 AM
Cyclohexane	U		150	µg/Kg	1	7/11/2023 11:13 AM
Dibromochloromethane	U		46	µg/Kg	1	7/11/2023 11:13 AM
Dichlorodifluoromethane	U		150	µg/Kg	1	7/11/2023 11:13 AM
Ethylbenzene	U		46	µg/Kg	1	7/11/2023 11:13 AM
Isopropylbenzene	U		46	µg/Kg	1	7/11/2023 11:13 AM
m,p-Xylene	U		92	µg/Kg	1	7/11/2023 11:13 AM
Methyl acetate	U		380	µg/Kg	1	7/11/2023 11:13 AM
Methyl tert-butyl ether	U		46	µg/Kg	1	7/11/2023 11:13 AM
Methylcyclohexane	U		46	µg/Kg	1	7/11/2023 11:13 AM
<b>Methylene chloride</b>	<b>660</b>		<b>380</b>	<b>µg/Kg</b>	1	7/11/2023 11:13 AM
o-Xylene	U		46	µg/Kg	1	7/11/2023 11:13 AM
Styrene	U		46	µg/Kg	1	7/11/2023 11:13 AM
Tetrachloroethene	U		46	µg/Kg	1	7/11/2023 11:13 AM
Toluene	U		46	µg/Kg	1	7/11/2023 11:13 AM
trans-1,2-Dichloroethene	U		46	µg/Kg	1	7/11/2023 11:13 AM
trans-1,3-Dichloropropene	U		46	µg/Kg	1	7/11/2023 11:13 AM
Trichloroethene	U		46	µg/Kg	1	7/11/2023 11:13 AM
Trichlorofluoromethane	U		46	µg/Kg	1	7/11/2023 11:13 AM
Vinyl chloride	U		46	µg/Kg	1	7/11/2023 11:13 AM

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



# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-3 (0-3)  
**Collection Date:** 6/27/2023 11:15 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-05  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	U		140	µg/Kg	1	7/11/2023 11:13 AM
Surr: 1,2-Dichloroethane-d4	98.9		80-120	%REC	1	7/11/2023 11:13 AM
Surr: 4-Bromofluorobenzene	100		80-120	%REC	1	7/11/2023 11:13 AM
Surr: Dibromofluoromethane	86.7		80-120	%REC	1	7/11/2023 11:13 AM
Surr: Toluene-d8	99.6		80-120	%REC	1	7/11/2023 11:13 AM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	8.6		0.10	% of sample	1	7/7/2023 12:37 PM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-3 (32-35)  
**Collection Date:** 6/27/2023 11:27 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-06  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>	Prep: SW7471 7/4/23 17:09		Analyst: <b>KRA</b>
Mercury	0.035		0.020	mg/Kg-dry	1	7/5/2023 01:09 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>	Prep: SW3050B 7/5/23 15:17		Analyst: <b>STP</b>
Aluminum	4,700		230	mg/Kg-dry	100	7/11/2023 03:22 PM
Antimony	0.43		0.29	mg/Kg-dry	1	7/5/2023 09:26 PM
Arsenic	8.4		2.9	mg/Kg-dry	10	7/6/2023 04:47 PM
Barium	250		2.9	mg/Kg-dry	10	7/6/2023 04:47 PM
Beryllium	0.42		0.12	mg/Kg-dry	1	7/5/2023 09:26 PM
Cadmium	0.23		0.12	mg/Kg-dry	1	7/5/2023 09:26 PM
Calcium	28,000		290	mg/Kg-dry	10	7/6/2023 04:47 PM
Chromium	10		2.9	mg/Kg-dry	10	7/6/2023 04:47 PM
Cobalt	8.4		2.9	mg/Kg-dry	10	7/6/2023 04:47 PM
Copper	13		2.9	mg/Kg-dry	10	7/6/2023 04:47 PM
Iron	14,000		120	mg/Kg-dry	10	7/6/2023 04:47 PM
Lead	9.2		0.29	mg/Kg-dry	1	7/5/2023 09:26 PM
Magnesium	11,000		120	mg/Kg-dry	10	7/6/2023 04:47 PM
Manganese	850		2.9	mg/Kg-dry	10	7/6/2023 04:47 PM
Nickel	21		2.9	mg/Kg-dry	10	7/6/2023 04:47 PM
Potassium	1,200		12	mg/Kg-dry	1	7/5/2023 09:26 PM
Selenium	U		2.9	mg/Kg-dry	10	7/6/2023 04:47 PM
Silver	0.049	J	0.29	mg/Kg-dry	1	7/5/2023 09:26 PM
Sodium	U		180	mg/Kg-dry	10	7/6/2023 04:47 PM
Thallium	0.22	J	0.29	mg/Kg-dry	1	7/5/2023 09:26 PM
Vanadium	18		0.29	mg/Kg-dry	1	7/5/2023 09:26 PM
Zinc	50		5.8	mg/Kg-dry	10	7/6/2023 04:47 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>	Prep: SW3546 7/10/23 15:46		Analyst: <b>EEW</b>
1,1'-Biphenyl	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
1,2,4,5-Tetrachlorobenzene	U		190	µg/Kg-dry	1	7/11/2023 04:54 PM
1,4-Dioxane	U		190	µg/Kg-dry	1	7/11/2023 04:54 PM
1-Methylnaphthalene	U		7.5	µg/Kg-dry	1	7/11/2023 04:54 PM
2,2'-Oxybis(1-chloropropane)	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
2,3,4,6-Tetrachlorophenol	U		76	µg/Kg-dry	1	7/11/2023 04:54 PM
2,4,5-Trichlorophenol	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
2,4,6-Trichlorophenol	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
2,4-Dichlorophenol	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
2,4-Dimethylphenol	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
2,4-Dinitrophenol	U		750	µg/Kg-dry	1	7/11/2023 04:54 PM
2,4-Dinitrotoluene	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-3 (32-35)  
**Collection Date:** 6/27/2023 11:27 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-06  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
2-Chloronaphthalene	U		7.5	µg/Kg-dry	1	7/11/2023 04:54 PM
2-Chlorophenol	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
2-Methylnaphthalene	U		7.5	µg/Kg-dry	1	7/11/2023 04:54 PM
2-Methylphenol	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
2-Nitroaniline	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
2-Nitrophenol	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
3&4-Methylphenol	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
3,3'-Dichlorobenzidine	U		190	µg/Kg-dry	1	7/11/2023 04:54 PM
3-Nitroaniline	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
4,6-Dinitro-2-methylphenol	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
4-Bromophenyl phenyl ether	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
4-Chloro-3-methylphenol	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
4-Chloroaniline	U		76	µg/Kg-dry	1	7/11/2023 04:54 PM
4-Chlorophenyl phenyl ether	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
4-Nitroaniline	U		190	µg/Kg-dry	1	7/11/2023 04:54 PM
4-Nitrophenol	U		190	µg/Kg-dry	1	7/11/2023 04:54 PM
Acenaphthene	U		7.5	µg/Kg-dry	1	7/11/2023 04:54 PM
Acenaphthylene	U		7.5	µg/Kg-dry	1	7/11/2023 04:54 PM
Acetophenone	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
Anthracene	U		7.5	µg/Kg-dry	1	7/11/2023 04:54 PM
Atrazine	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
Benzaldehyde	U		76	µg/Kg-dry	1	7/11/2023 04:54 PM
Benzo(a)anthracene	U		7.5	µg/Kg-dry	1	7/11/2023 04:54 PM
Benzo(a)pyrene	U		7.5	µg/Kg-dry	1	7/11/2023 04:54 PM
Benzo(b)fluoranthene	U		7.5	µg/Kg-dry	1	7/11/2023 04:54 PM
Benzo(g,h,i)perylene	U		7.5	µg/Kg-dry	1	7/11/2023 04:54 PM
Benzo(k)fluoranthene	U		7.5	µg/Kg-dry	1	7/11/2023 04:54 PM
Bis(2-chloroethoxy)methane	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
Bis(2-chloroethyl)ether	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
Bis(2-ethylhexyl)phthalate	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
Butyl benzyl phthalate	U		76	µg/Kg-dry	1	7/11/2023 04:54 PM
<b>Caprolactam</b>	<b>110</b>		<b>76</b>	<b>µg/Kg-dry</b>	1	7/11/2023 04:54 PM
Carbazole	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
Chrysene	U		7.5	µg/Kg-dry	1	7/11/2023 04:54 PM
Dibenzo(a,h)anthracene	U		7.5	µg/Kg-dry	1	7/11/2023 04:54 PM
Dibenzofuran	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
Diethyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
Dimethyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
Di-n-butyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-3 (32-35)  
**Collection Date:** 6/27/2023 11:27 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-06  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
<b>Fluoranthene</b>	<b>4.5</b>	<b>J</b>	<b>7.5</b>	<b>µg/Kg-dry</b>	<b>1</b>	7/11/2023 04:54 PM
Fluorene	U		7.5	µg/Kg-dry	1	7/11/2023 04:54 PM
Hexachlorobenzene	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
Hexachlorobutadiene	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
Hexachlorocyclopentadiene	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
Hexachloroethane	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
Indeno(1,2,3-cd)pyrene	U		7.5	µg/Kg-dry	1	7/11/2023 04:54 PM
Isophorone	U		190	µg/Kg-dry	1	7/11/2023 04:54 PM
Naphthalene	U		7.5	µg/Kg-dry	1	7/11/2023 04:54 PM
Nitrobenzene	U		190	µg/Kg-dry	1	7/11/2023 04:54 PM
N-Nitrosodi-n-propylamine	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
N-Nitrosodiphenylamine	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
Pentachlorophenol	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
Phenanthrene	U		7.5	µg/Kg-dry	1	7/11/2023 04:54 PM
Phenol	U		37	µg/Kg-dry	1	7/11/2023 04:54 PM
Pyrene	U		7.5	µg/Kg-dry	1	7/11/2023 04:54 PM
Pyridine	U		190	µg/Kg-dry	1	7/11/2023 04:54 PM
Surr: 2,4,6-Tribromophenol	69.3		48-94	%REC	1	7/11/2023 04:54 PM
Surr: 2-Fluorobiphenyl	80.8		50-103	%REC	1	7/11/2023 04:54 PM
Surr: 2-Fluorophenol	75.6		43-105	%REC	1	7/11/2023 04:54 PM
Surr: 4-Terphenyl-d14	86.7		55-111	%REC	1	7/11/2023 04:54 PM
Surr: Nitrobenzene-d5	81.4		47-100	%REC	1	7/11/2023 04:54 PM
Surr: Phenol-d6	78.0		49-110	%REC	1	7/11/2023 04:54 PM

## VOLATILE ORGANIC COMPOUNDS

SW8260D

Prep: SW5035A 7/5/23 16:17

Analyst: SBR

1,1,1-Trichloroethane	U		40	µg/Kg	1	7/11/2023 11:31 AM
1,1,2,2-Tetrachloroethane	U		40	µg/Kg	1	7/11/2023 11:31 AM
1,1,2-Trichloroethane	U		40	µg/Kg	1	7/11/2023 11:31 AM
1,1,2-Trichlorotrifluoroethane	U		40	µg/Kg	1	7/11/2023 11:31 AM
1,1-Dichloroethane	U		40	µg/Kg	1	7/11/2023 11:31 AM
1,1-Dichloroethene	U		40	µg/Kg	1	7/11/2023 11:31 AM
1,2,3-Trichlorobenzene	U		130	µg/Kg	1	7/11/2023 11:31 AM
1,2,3-Trichloropropane	U		40	µg/Kg	1	7/11/2023 11:31 AM
1,2,4-Trichlorobenzene	U		130	µg/Kg	1	7/11/2023 11:31 AM
1,2,4-Trimethylbenzene	U		40	µg/Kg	1	7/11/2023 11:31 AM
1,2-Dibromo-3-chloropropane	U		130	µg/Kg	1	7/11/2023 11:31 AM
1,2-Dibromoethane	U		40	µg/Kg	1	7/11/2023 11:31 AM
1,2-Dichlorobenzene	U		40	µg/Kg	1	7/11/2023 11:31 AM
1,2-Dichloroethane	U		40	µg/Kg	1	7/11/2023 11:31 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-3 (32-35)  
**Collection Date:** 6/27/2023 11:27 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-06  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	U		40	µg/Kg	1	7/11/2023 11:31 AM
1,3,5-Trimethylbenzene	U		130	µg/Kg	1	7/11/2023 11:31 AM
1,3-Dichlorobenzene	U		40	µg/Kg	1	7/11/2023 11:31 AM
1,4-Dichlorobenzene	U		40	µg/Kg	1	7/11/2023 11:31 AM
2-Butanone	U		270	µg/Kg	1	7/11/2023 11:31 AM
2-Hexanone	U		40	µg/Kg	1	7/11/2023 11:31 AM
4-Methyl-2-pentanone	U		40	µg/Kg	1	7/11/2023 11:31 AM
Acetone	U		130	µg/Kg	1	7/11/2023 11:31 AM
Benzene	U		40	µg/Kg	1	7/11/2023 11:31 AM
Bromochloromethane	U		40	µg/Kg	1	7/11/2023 11:31 AM
Bromodichloromethane	U		40	µg/Kg	1	7/11/2023 11:31 AM
Bromoform	U		40	µg/Kg	1	7/11/2023 11:31 AM
Bromomethane	U		130	µg/Kg	1	7/11/2023 11:31 AM
Carbon disulfide	U		40	µg/Kg	1	7/11/2023 11:31 AM
Carbon tetrachloride	U		40	µg/Kg	1	7/11/2023 11:31 AM
Chlorobenzene	U		40	µg/Kg	1	7/11/2023 11:31 AM
Chloroethane	U		130	µg/Kg	1	7/11/2023 11:31 AM
Chloroform	U		40	µg/Kg	1	7/11/2023 11:31 AM
Chloromethane	U		130	µg/Kg	1	7/11/2023 11:31 AM
cis-1,2-Dichloroethene	U		40	µg/Kg	1	7/11/2023 11:31 AM
cis-1,3-Dichloropropene	U		40	µg/Kg	1	7/11/2023 11:31 AM
Cyclohexane	U		130	µg/Kg	1	7/11/2023 11:31 AM
Dibromochloromethane	U		40	µg/Kg	1	7/11/2023 11:31 AM
Dichlorodifluoromethane	U		130	µg/Kg	1	7/11/2023 11:31 AM
Ethylbenzene	U		40	µg/Kg	1	7/11/2023 11:31 AM
Isopropylbenzene	U		40	µg/Kg	1	7/11/2023 11:31 AM
m,p-Xylene	U		80	µg/Kg	1	7/11/2023 11:31 AM
Methyl acetate	U		330	µg/Kg	1	7/11/2023 11:31 AM
Methyl tert-butyl ether	U		40	µg/Kg	1	7/11/2023 11:31 AM
Methylcyclohexane	U		40	µg/Kg	1	7/11/2023 11:31 AM
<b>Methylene chloride</b>	<b>520</b>		<b>330</b>	<b>µg/Kg</b>	1	7/11/2023 11:31 AM
o-Xylene	U		40	µg/Kg	1	7/11/2023 11:31 AM
Styrene	U		40	µg/Kg	1	7/11/2023 11:31 AM
Tetrachloroethene	U		40	µg/Kg	1	7/11/2023 11:31 AM
Toluene	U		40	µg/Kg	1	7/11/2023 11:31 AM
trans-1,2-Dichloroethene	U		40	µg/Kg	1	7/11/2023 11:31 AM
trans-1,3-Dichloropropene	U		40	µg/Kg	1	7/11/2023 11:31 AM
Trichloroethene	U		40	µg/Kg	1	7/11/2023 11:31 AM
Trichlorofluoromethane	U		40	µg/Kg	1	7/11/2023 11:31 AM
Vinyl chloride	U		40	µg/Kg	1	7/11/2023 11:31 AM

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

**ALS Group, USA****Date:** 18-Jul-2023**Client:** Tetra Tech**Project:** Boys and Girls Club**Work Order:** 23070106**Sample ID:** SB-3 (32-35)**Lab ID:** 23070106-06**Collection Date:** 6/27/2023 11:27 AM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	U		120	µg/Kg	1	7/11/2023 11:31 AM
Surr: 1,2-Dichloroethane-d4	94.0		80-120	%REC	1	7/11/2023 11:31 AM
Surr: 4-Bromofluorobenzene	97.3		80-120	%REC	1	7/11/2023 11:31 AM
Surr: Dibromofluoromethane	89.8		80-120	%REC	1	7/11/2023 11:31 AM
Surr: Toluene-d8	98.3		80-120	%REC	1	7/11/2023 11:31 AM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	12		0.10	% of sample	1	7/7/2023 12:37 PM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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

# ALS Group, USA

Date: 18-Jul-2023

Client: Tetra Tech  
Project: Boys and Girls Club  
Sample ID: SB-4 (0-3)  
Collection Date: 6/27/2023 01:10 PM

Work Order: 23070106  
Lab ID: 23070106-07  
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>		Prep: SW7471 7/4/23 17:09	Analyst: <b>KRA</b>
Mercury	0.041		0.019	mg/Kg-dry	1	7/5/2023 01:10 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>		Prep: SW3050B 7/7/23 12:03	Analyst: <b>STP</b>
Aluminum	5,300		240	mg/Kg-dry	100	7/11/2023 03:24 PM
Antimony	0.45		0.32	mg/Kg-dry	1	7/5/2023 09:28 PM
Arsenic	8.8		3.2	mg/Kg-dry	10	7/6/2023 04:49 PM
Barium	280		3.2	mg/Kg-dry	10	7/6/2023 04:49 PM
Beryllium	0.46		0.13	mg/Kg-dry	1	7/5/2023 09:28 PM
Cadmium	0.28		0.13	mg/Kg-dry	1	7/5/2023 09:28 PM
Calcium	27,000		320	mg/Kg-dry	10	7/6/2023 04:49 PM
Chromium	10		3.2	mg/Kg-dry	10	7/6/2023 04:49 PM
Cobalt	11		3.2	mg/Kg-dry	10	7/6/2023 04:49 PM
Copper	15		3.2	mg/Kg-dry	10	7/6/2023 04:49 PM
Iron	16,000		130	mg/Kg-dry	10	7/6/2023 04:49 PM
Lead	12		0.32	mg/Kg-dry	1	7/5/2023 09:28 PM
Magnesium	11,000		130	mg/Kg-dry	10	7/6/2023 04:49 PM
Manganese	860		3.2	mg/Kg-dry	10	7/6/2023 04:49 PM
Nickel	25		3.2	mg/Kg-dry	10	7/6/2023 04:49 PM
Potassium	1,300		13	mg/Kg-dry	1	7/5/2023 09:28 PM
Selenium	U		3.2	mg/Kg-dry	10	7/6/2023 04:49 PM
Silver	0.045	J	0.32	mg/Kg-dry	1	7/5/2023 09:28 PM
Sodium	740		190	mg/Kg-dry	10	7/6/2023 04:49 PM
Thallium	0.23	J	0.32	mg/Kg-dry	1	7/5/2023 09:28 PM
Vanadium	19		0.32	mg/Kg-dry	1	7/5/2023 09:28 PM
Zinc	62		6.4	mg/Kg-dry	10	7/6/2023 04:49 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>		Prep: SW3546 7/10/23 15:46	Analyst: <b>EEW</b>
1,1'-Biphenyl	U		38	µg/Kg-dry	1	7/11/2023 05:17 PM
1,2,4,5-Tetrachlorobenzene	U		190	µg/Kg-dry	1	7/11/2023 05:17 PM
1,4-Dioxane	U		190	µg/Kg-dry	1	7/11/2023 05:17 PM
1-Methylnaphthalene	U		7.7	µg/Kg-dry	1	7/11/2023 05:17 PM
2,2'-Oxybis(1-chloropropane)	U		38	µg/Kg-dry	1	7/11/2023 05:17 PM
2,3,4,6-Tetrachlorophenol	U		77	µg/Kg-dry	1	7/11/2023 05:17 PM
2,4,5-Trichlorophenol	U		38	µg/Kg-dry	1	7/11/2023 05:17 PM
2,4,6-Trichlorophenol	U		38	µg/Kg-dry	1	7/11/2023 05:17 PM
2,4-Dichlorophenol	U		38	µg/Kg-dry	1	7/11/2023 05:17 PM
2,4-Dimethylphenol	U		38	µg/Kg-dry	1	7/11/2023 05:17 PM
2,4-Dinitrophenol	U		770	µg/Kg-dry	1	7/11/2023 05:17 PM
2,4-Dinitrotoluene	U		38	µg/Kg-dry	1	7/11/2023 05:17 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-4 (0-3)  
**Collection Date:** 6/27/2023 01:10 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-07  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene		U	38	µg/Kg-dry	1	7/11/2023 05:17 PM
2-Chloronaphthalene		U	7.7	µg/Kg-dry	1	7/11/2023 05:17 PM
2-Chlorophenol		U	38	µg/Kg-dry	1	7/11/2023 05:17 PM
2-Methylnaphthalene		U	7.7	µg/Kg-dry	1	7/11/2023 05:17 PM
2-Methylphenol		U	38	µg/Kg-dry	1	7/11/2023 05:17 PM
2-Nitroaniline		U	38	µg/Kg-dry	1	7/11/2023 05:17 PM
2-Nitrophenol		U	38	µg/Kg-dry	1	7/11/2023 05:17 PM
3&4-Methylphenol		U	38	µg/Kg-dry	1	7/11/2023 05:17 PM
3,3'-Dichlorobenzidine		U	190	µg/Kg-dry	1	7/11/2023 05:17 PM
3-Nitroaniline		U	38	µg/Kg-dry	1	7/11/2023 05:17 PM
4,6-Dinitro-2-methylphenol		U	38	µg/Kg-dry	1	7/11/2023 05:17 PM
4-Bromophenyl phenyl ether		U	38	µg/Kg-dry	1	7/11/2023 05:17 PM
4-Chloro-3-methylphenol		U	38	µg/Kg-dry	1	7/11/2023 05:17 PM
4-Chloroaniline		U	77	µg/Kg-dry	1	7/11/2023 05:17 PM
4-Chlorophenyl phenyl ether		U	38	µg/Kg-dry	1	7/11/2023 05:17 PM
4-Nitroaniline		U	190	µg/Kg-dry	1	7/11/2023 05:17 PM
4-Nitrophenol		U	190	µg/Kg-dry	1	7/11/2023 05:17 PM
Acenaphthene		U	7.7	µg/Kg-dry	1	7/11/2023 05:17 PM
Acenaphthylene		U	7.7	µg/Kg-dry	1	7/11/2023 05:17 PM
Acetophenone		U	38	µg/Kg-dry	1	7/11/2023 05:17 PM
Anthracene		U	7.7	µg/Kg-dry	1	7/11/2023 05:17 PM
Atrazine		U	38	µg/Kg-dry	1	7/11/2023 05:17 PM
Benzaldehyde		U	77	µg/Kg-dry	1	7/11/2023 05:17 PM
<b>Benzo(a)anthracene</b>	<b>8.4</b>		<b>7.7</b>	<b>µg/Kg-dry</b>	1	7/11/2023 05:17 PM
<b>Benzo(a)pyrene</b>	<b>10</b>		<b>7.7</b>	<b>µg/Kg-dry</b>	1	7/11/2023 05:17 PM
Benzo(b)fluoranthene		U	7.7	µg/Kg-dry	1	7/11/2023 05:17 PM
Benzo(g,h,i)perylene		U	7.7	µg/Kg-dry	1	7/11/2023 05:17 PM
Benzo(k)fluoranthene		U	7.7	µg/Kg-dry	1	7/11/2023 05:17 PM
Bis(2-chloroethoxy)methane		U	38	µg/Kg-dry	1	7/11/2023 05:17 PM
Bis(2-chloroethyl)ether		U	38	µg/Kg-dry	1	7/11/2023 05:17 PM
Bis(2-ethylhexyl)phthalate		U	38	µg/Kg-dry	1	7/11/2023 05:17 PM
Butyl benzyl phthalate		U	77	µg/Kg-dry	1	7/11/2023 05:17 PM
Caprolactam		U	77	µg/Kg-dry	1	7/11/2023 05:17 PM
Carbazole		U	38	µg/Kg-dry	1	7/11/2023 05:17 PM
Chrysene		U	7.7	µg/Kg-dry	1	7/11/2023 05:17 PM
Dibenzo(a,h)anthracene		U	7.7	µg/Kg-dry	1	7/11/2023 05:17 PM
Dibenzofuran		U	38	µg/Kg-dry	1	7/11/2023 05:17 PM
Diethyl phthalate		U	38	µg/Kg-dry	1	7/11/2023 05:17 PM
Dimethyl phthalate		U	38	µg/Kg-dry	1	7/11/2023 05:17 PM
Di-n-butyl phthalate		U	38	µg/Kg-dry	1	7/11/2023 05:17 PM

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



# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-4 (0-3)  
**Collection Date:** 6/27/2023 01:10 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-07  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		38	µg/Kg-dry	1	7/11/2023 05:17 PM
<b>Fluoranthene</b>	<b>6.9</b>	J	<b>7.7</b>	<b>µg/Kg-dry</b>	1	7/11/2023 05:17 PM
Fluorene	U		7.7	µg/Kg-dry	1	7/11/2023 05:17 PM
Hexachlorobenzene	U		38	µg/Kg-dry	1	7/11/2023 05:17 PM
Hexachlorobutadiene	U		38	µg/Kg-dry	1	7/11/2023 05:17 PM
Hexachlorocyclopentadiene	U		38	µg/Kg-dry	1	7/11/2023 05:17 PM
Hexachloroethane	U		38	µg/Kg-dry	1	7/11/2023 05:17 PM
Indeno(1,2,3-cd)pyrene	U		7.7	µg/Kg-dry	1	7/11/2023 05:17 PM
Isophorone	U		190	µg/Kg-dry	1	7/11/2023 05:17 PM
Naphthalene	U		7.7	µg/Kg-dry	1	7/11/2023 05:17 PM
Nitrobenzene	U		190	µg/Kg-dry	1	7/11/2023 05:17 PM
N-Nitrosodi-n-propylamine	U		38	µg/Kg-dry	1	7/11/2023 05:17 PM
N-Nitrosodiphenylamine	U		38	µg/Kg-dry	1	7/11/2023 05:17 PM
Pentachlorophenol	U		38	µg/Kg-dry	1	7/11/2023 05:17 PM
Phenanthrene	U		7.7	µg/Kg-dry	1	7/11/2023 05:17 PM
Phenol	U		38	µg/Kg-dry	1	7/11/2023 05:17 PM
<b>Pyrene</b>	<b>7.7</b>		<b>7.7</b>	<b>µg/Kg-dry</b>	1	7/11/2023 05:17 PM
Pyridine	U		190	µg/Kg-dry	1	7/11/2023 05:17 PM
Surr: 2,4,6-Tribromophenol	72.7		48-94	%REC	1	7/11/2023 05:17 PM
Surr: 2-Fluorobiphenyl	84.4		50-103	%REC	1	7/11/2023 05:17 PM
Surr: 2-Fluorophenol	76.9		43-105	%REC	1	7/11/2023 05:17 PM
Surr: 4-Terphenyl-d14	78.1		55-111	%REC	1	7/11/2023 05:17 PM
Surr: Nitrobenzene-d5	81.7		47-100	%REC	1	7/11/2023 05:17 PM
Surr: Phenol-d6	80.6		49-110	%REC	1	7/11/2023 05:17 PM

## VOLATILE ORGANIC COMPOUNDS

SW8260D

Prep: SW5035A 7/5/23 16:17

Analyst: SBR

1,1,1-Trichloroethane	U		40	µg/Kg	1	7/11/2023 11:49 AM
1,1,2,2-Tetrachloroethane	U		40	µg/Kg	1	7/11/2023 11:49 AM
1,1,2-Trichloroethane	U		40	µg/Kg	1	7/11/2023 11:49 AM
1,1,2-Trichlorotrifluoroethane	U		40	µg/Kg	1	7/11/2023 11:49 AM
1,1-Dichloroethane	U		40	µg/Kg	1	7/11/2023 11:49 AM
1,1-Dichloroethene	U		40	µg/Kg	1	7/11/2023 11:49 AM
1,2,3-Trichlorobenzene	U		130	µg/Kg	1	7/11/2023 11:49 AM
1,2,3-Trichloropropane	U		40	µg/Kg	1	7/11/2023 11:49 AM
1,2,4-Trichlorobenzene	U		130	µg/Kg	1	7/11/2023 11:49 AM
1,2,4-Trimethylbenzene	U		40	µg/Kg	1	7/11/2023 11:49 AM
1,2-Dibromo-3-chloropropane	U		130	µg/Kg	1	7/11/2023 11:49 AM
1,2-Dibromoethane	U		40	µg/Kg	1	7/11/2023 11:49 AM
1,2-Dichlorobenzene	U		40	µg/Kg	1	7/11/2023 11:49 AM
1,2-Dichloroethane	U		40	µg/Kg	1	7/11/2023 11:49 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-4 (0-3)  
**Collection Date:** 6/27/2023 01:10 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-07  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	U		40	µg/Kg	1	7/11/2023 11:49 AM
1,3,5-Trimethylbenzene	U		130	µg/Kg	1	7/11/2023 11:49 AM
1,3-Dichlorobenzene	U		40	µg/Kg	1	7/11/2023 11:49 AM
1,4-Dichlorobenzene	U		40	µg/Kg	1	7/11/2023 11:49 AM
2-Butanone	U		270	µg/Kg	1	7/11/2023 11:49 AM
2-Hexanone	U		40	µg/Kg	1	7/11/2023 11:49 AM
4-Methyl-2-pentanone	U		40	µg/Kg	1	7/11/2023 11:49 AM
Acetone	U		130	µg/Kg	1	7/11/2023 11:49 AM
Benzene	U		40	µg/Kg	1	7/11/2023 11:49 AM
Bromochloromethane	U		40	µg/Kg	1	7/11/2023 11:49 AM
Bromodichloromethane	U		40	µg/Kg	1	7/11/2023 11:49 AM
Bromoform	U		40	µg/Kg	1	7/11/2023 11:49 AM
Bromomethane	U		130	µg/Kg	1	7/11/2023 11:49 AM
Carbon disulfide	U		40	µg/Kg	1	7/11/2023 11:49 AM
Carbon tetrachloride	U		40	µg/Kg	1	7/11/2023 11:49 AM
Chlorobenzene	U		40	µg/Kg	1	7/11/2023 11:49 AM
Chloroethane	U		130	µg/Kg	1	7/11/2023 11:49 AM
Chloroform	U		40	µg/Kg	1	7/11/2023 11:49 AM
Chloromethane	U		130	µg/Kg	1	7/11/2023 11:49 AM
cis-1,2-Dichloroethene	U		40	µg/Kg	1	7/11/2023 11:49 AM
cis-1,3-Dichloropropene	U		40	µg/Kg	1	7/11/2023 11:49 AM
Cyclohexane	U		130	µg/Kg	1	7/11/2023 11:49 AM
Dibromochloromethane	U		40	µg/Kg	1	7/11/2023 11:49 AM
Dichlorodifluoromethane	U		130	µg/Kg	1	7/11/2023 11:49 AM
Ethylbenzene	U		40	µg/Kg	1	7/11/2023 11:49 AM
Isopropylbenzene	U		40	µg/Kg	1	7/11/2023 11:49 AM
m,p-Xylene	U		80	µg/Kg	1	7/11/2023 11:49 AM
Methyl acetate	U		330	µg/Kg	1	7/11/2023 11:49 AM
Methyl tert-butyl ether	U		40	µg/Kg	1	7/11/2023 11:49 AM
Methylcyclohexane	U		40	µg/Kg	1	7/11/2023 11:49 AM
<b>Methylene chloride</b>	<b>450</b>		<b>330</b>	<b>µg/Kg</b>	1	7/11/2023 11:49 AM
o-Xylene	U		40	µg/Kg	1	7/11/2023 11:49 AM
Styrene	U		40	µg/Kg	1	7/11/2023 11:49 AM
Tetrachloroethene	U		40	µg/Kg	1	7/11/2023 11:49 AM
Toluene	U		40	µg/Kg	1	7/11/2023 11:49 AM
trans-1,2-Dichloroethene	U		40	µg/Kg	1	7/11/2023 11:49 AM
trans-1,3-Dichloropropene	U		40	µg/Kg	1	7/11/2023 11:49 AM
Trichloroethene	U		40	µg/Kg	1	7/11/2023 11:49 AM
Trichlorofluoromethane	U		40	µg/Kg	1	7/11/2023 11:49 AM
Vinyl chloride	U		40	µg/Kg	1	7/11/2023 11:49 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-4 (0-3)  
**Collection Date:** 6/27/2023 01:10 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-07  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	U		120	µg/Kg	1	7/11/2023 11:49 AM
Surr: 1,2-Dichloroethane-d4	102		80-120	%REC	1	7/11/2023 11:49 AM
Surr: 4-Bromofluorobenzene	98.9		80-120	%REC	1	7/11/2023 11:49 AM
Surr: Dibromofluoromethane	90.6		80-120	%REC	1	7/11/2023 11:49 AM
Surr: Toluene-d8	98.0		80-120	%REC	1	7/11/2023 11:49 AM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	16		0.10	% of sample	1	7/7/2023 12:37 PM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-4 (0-3) Dup  
**Collection Date:** 6/27/2023 01:10 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-08  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>	Prep: SW7471 7/4/23 17:09		Analyst: <b>KRA</b>
Mercury	0.037		0.021	mg/Kg-dry	1	7/5/2023 01:18 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>	Prep: SW3050B 7/7/23 12:03		Analyst: <b>STP</b>
Aluminum	5,700		280	mg/Kg-dry	100	7/11/2023 03:25 PM
Antimony	0.44		0.35	mg/Kg-dry	1	7/7/2023 06:26 PM
Arsenic	7.3		0.35	mg/Kg-dry	1	7/7/2023 06:26 PM
Barium	270		3.5	mg/Kg-dry	10	7/10/2023 11:00 PM
Beryllium	0.41		0.14	mg/Kg-dry	1	7/7/2023 06:26 PM
Cadmium	0.22		0.14	mg/Kg-dry	1	7/7/2023 06:26 PM
Calcium	25,000		350	mg/Kg-dry	10	7/10/2023 11:00 PM
Chromium	8.1		0.35	mg/Kg-dry	1	7/7/2023 06:26 PM
Cobalt	6.7		0.35	mg/Kg-dry	1	7/7/2023 06:26 PM
Copper	11		0.35	mg/Kg-dry	1	7/7/2023 06:26 PM
Iron	12,000		14	mg/Kg-dry	1	7/7/2023 06:26 PM
Lead	10		0.35	mg/Kg-dry	1	7/7/2023 06:26 PM
Magnesium	9,400		14	mg/Kg-dry	1	7/7/2023 06:26 PM
Manganese	760		3.5	mg/Kg-dry	10	7/10/2023 11:00 PM
Nickel	18		0.35	mg/Kg-dry	1	7/7/2023 06:26 PM
Potassium	1,300		14	mg/Kg-dry	1	7/7/2023 06:26 PM
Selenium	0.33	J	0.35	mg/Kg-dry	1	7/7/2023 06:26 PM
Silver	0.050	J	0.35	mg/Kg-dry	1	7/7/2023 06:26 PM
Sodium	780		21	mg/Kg-dry	1	7/7/2023 06:26 PM
Thallium	0.22	J	0.35	mg/Kg-dry	1	7/7/2023 06:26 PM
Vanadium	18		0.35	mg/Kg-dry	1	7/7/2023 06:26 PM
Zinc	44		0.70	mg/Kg-dry	1	7/7/2023 06:26 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>	Prep: SW3546 7/10/23 15:46		Analyst: <b>EEW</b>
1,1'-Biphenyl	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
1,2,4,5-Tetrachlorobenzene	U		200	µg/Kg-dry	1	7/11/2023 05:39 PM
1,4-Dioxane	U		200	µg/Kg-dry	1	7/11/2023 05:39 PM
1-Methylnaphthalene	U		7.9	µg/Kg-dry	1	7/11/2023 05:39 PM
2,2'-Oxybis(1-chloropropane)	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
2,3,4,6-Tetrachlorophenol	U		80	µg/Kg-dry	1	7/11/2023 05:39 PM
2,4,5-Trichlorophenol	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
2,4,6-Trichlorophenol	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
2,4-Dichlorophenol	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
2,4-Dimethylphenol	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
2,4-Dinitrophenol	U		790	µg/Kg-dry	1	7/11/2023 05:39 PM
2,4-Dinitrotoluene	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-4 (0-3) Dup  
**Collection Date:** 6/27/2023 01:10 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-08  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
2-Chloronaphthalene	U		7.9	µg/Kg-dry	1	7/11/2023 05:39 PM
2-Chlorophenol	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
2-Methylnaphthalene	U		7.9	µg/Kg-dry	1	7/11/2023 05:39 PM
2-Methylphenol	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
2-Nitroaniline	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
2-Nitrophenol	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
3&4-Methylphenol	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
3,3'-Dichlorobenzidine	U		200	µg/Kg-dry	1	7/11/2023 05:39 PM
3-Nitroaniline	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
4,6-Dinitro-2-methylphenol	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
4-Bromophenyl phenyl ether	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
4-Chloro-3-methylphenol	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
4-Chloroaniline	U		80	µg/Kg-dry	1	7/11/2023 05:39 PM
4-Chlorophenyl phenyl ether	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
4-Nitroaniline	U		200	µg/Kg-dry	1	7/11/2023 05:39 PM
4-Nitrophenol	U		200	µg/Kg-dry	1	7/11/2023 05:39 PM
Acenaphthene	U		7.9	µg/Kg-dry	1	7/11/2023 05:39 PM
Acenaphthylene	U		7.9	µg/Kg-dry	1	7/11/2023 05:39 PM
Acetophenone	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
Anthracene	U		7.9	µg/Kg-dry	1	7/11/2023 05:39 PM
Atrazine	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
Benzaldehyde	U		80	µg/Kg-dry	1	7/11/2023 05:39 PM
<b>Benzo(a)anthracene</b>	<b>13</b>		<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 05:39 PM
<b>Benzo(a)pyrene</b>	<b>15</b>		<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 05:39 PM
<b>Benzo(b)fluoranthene</b>	<b>14</b>		<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 05:39 PM
<b>Benzo(g,h,i)perylene</b>	<b>11</b>		<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 05:39 PM
<b>Benzo(k)fluoranthene</b>	<b>7.9</b>	J	<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 05:39 PM
Bis(2-chloroethoxy)methane	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
Bis(2-chloroethyl)ether	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
Bis(2-ethylhexyl)phthalate	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
Butyl benzyl phthalate	U		80	µg/Kg-dry	1	7/11/2023 05:39 PM
Caprolactam	U		80	µg/Kg-dry	1	7/11/2023 05:39 PM
Carbazole	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
Chrysene	U		7.9	µg/Kg-dry	1	7/11/2023 05:39 PM
Dibenzo(a,h)anthracene	U		7.9	µg/Kg-dry	1	7/11/2023 05:39 PM
Dibenzofuran	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
Diethyl phthalate	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
Dimethyl phthalate	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
Di-n-butyl phthalate	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-4 (0-3) Dup  
**Collection Date:** 6/27/2023 01:10 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-08  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
<b>Fluoranthene</b>	<b>12</b>		<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 05:39 PM
Fluorene	U		7.9	µg/Kg-dry	1	7/11/2023 05:39 PM
Hexachlorobenzene	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
Hexachlorobutadiene	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
Hexachlorocyclopentadiene	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
Hexachloroethane	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
<b>Indeno(1,2,3-cd)pyrene</b>	<b>8.7</b>		<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 05:39 PM
Isophorone	U		200	µg/Kg-dry	1	7/11/2023 05:39 PM
Naphthalene	U		7.9	µg/Kg-dry	1	7/11/2023 05:39 PM
Nitrobenzene	U		200	µg/Kg-dry	1	7/11/2023 05:39 PM
N-Nitrosodi-n-propylamine	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
N-Nitrosodiphenylamine	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
Pentachlorophenol	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
Phenanthrene	U		7.9	µg/Kg-dry	1	7/11/2023 05:39 PM
Phenol	U		39	µg/Kg-dry	1	7/11/2023 05:39 PM
<b>Pyrene</b>	<b>14</b>		<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 05:39 PM
Pyridine	U		200	µg/Kg-dry	1	7/11/2023 05:39 PM
Surr: 2,4,6-Tribromophenol	65.0		48-94	%REC	1	7/11/2023 05:39 PM
Surr: 2-Fluorobiphenyl	82.9		50-103	%REC	1	7/11/2023 05:39 PM
Surr: 2-Fluorophenol	61.0		43-105	%REC	1	7/11/2023 05:39 PM
Surr: 4-Terphenyl-d14	87.3		55-111	%REC	1	7/11/2023 05:39 PM
Surr: Nitrobenzene-d5	77.3		47-100	%REC	1	7/11/2023 05:39 PM
Surr: Phenol-d6	71.6		49-110	%REC	1	7/11/2023 05:39 PM

## VOLATILE ORGANIC COMPOUNDS

SW8260D

Prep: SW5035A 7/5/23 16:17

Analyst: SBR

1,1,1-Trichloroethane	U		41	µg/Kg	1	7/11/2023 12:07 PM
1,1,2,2-Tetrachloroethane	U		41	µg/Kg	1	7/11/2023 12:07 PM
1,1,2-Trichloroethane	U		41	µg/Kg	1	7/11/2023 12:07 PM
1,1,2-Trichlorotrifluoroethane	U		41	µg/Kg	1	7/11/2023 12:07 PM
1,1-Dichloroethane	U		41	µg/Kg	1	7/11/2023 12:07 PM
1,1-Dichloroethene	U		41	µg/Kg	1	7/11/2023 12:07 PM
1,2,3-Trichlorobenzene	U		140	µg/Kg	1	7/11/2023 12:07 PM
1,2,3-Trichloropropane	U		41	µg/Kg	1	7/11/2023 12:07 PM
1,2,4-Trichlorobenzene	U		140	µg/Kg	1	7/11/2023 12:07 PM
1,2,4-Trimethylbenzene	U		41	µg/Kg	1	7/11/2023 12:07 PM
1,2-Dibromo-3-chloropropane	U		140	µg/Kg	1	7/11/2023 12:07 PM
1,2-Dibromoethane	U		41	µg/Kg	1	7/11/2023 12:07 PM
1,2-Dichlorobenzene	U		41	µg/Kg	1	7/11/2023 12:07 PM
1,2-Dichloroethane	U		41	µg/Kg	1	7/11/2023 12:07 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-4 (0-3) Dup  
**Collection Date:** 6/27/2023 01:10 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-08  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	U		41	µg/Kg	1	7/11/2023 12:07 PM
1,3,5-Trimethylbenzene	U		140	µg/Kg	1	7/11/2023 12:07 PM
1,3-Dichlorobenzene	U		41	µg/Kg	1	7/11/2023 12:07 PM
1,4-Dichlorobenzene	U		41	µg/Kg	1	7/11/2023 12:07 PM
2-Butanone	U		270	µg/Kg	1	7/11/2023 12:07 PM
2-Hexanone	U		41	µg/Kg	1	7/11/2023 12:07 PM
4-Methyl-2-pentanone	U		41	µg/Kg	1	7/11/2023 12:07 PM
Acetone	U		140	µg/Kg	1	7/11/2023 12:07 PM
Benzene	U		41	µg/Kg	1	7/11/2023 12:07 PM
Bromochloromethane	U		41	µg/Kg	1	7/11/2023 12:07 PM
Bromodichloromethane	U		41	µg/Kg	1	7/11/2023 12:07 PM
Bromoform	U		41	µg/Kg	1	7/11/2023 12:07 PM
Bromomethane	U		140	µg/Kg	1	7/11/2023 12:07 PM
Carbon disulfide	U		41	µg/Kg	1	7/11/2023 12:07 PM
Carbon tetrachloride	U		41	µg/Kg	1	7/11/2023 12:07 PM
Chlorobenzene	U		41	µg/Kg	1	7/11/2023 12:07 PM
Chloroethane	U		140	µg/Kg	1	7/11/2023 12:07 PM
Chloroform	U		41	µg/Kg	1	7/11/2023 12:07 PM
Chloromethane	U		140	µg/Kg	1	7/11/2023 12:07 PM
cis-1,2-Dichloroethene	U		41	µg/Kg	1	7/11/2023 12:07 PM
cis-1,3-Dichloropropene	U		41	µg/Kg	1	7/11/2023 12:07 PM
Cyclohexane	U		140	µg/Kg	1	7/11/2023 12:07 PM
Dibromochloromethane	U		41	µg/Kg	1	7/11/2023 12:07 PM
Dichlorodifluoromethane	U		140	µg/Kg	1	7/11/2023 12:07 PM
Ethylbenzene	U		41	µg/Kg	1	7/11/2023 12:07 PM
Isopropylbenzene	U		41	µg/Kg	1	7/11/2023 12:07 PM
m,p-Xylene	U		82	µg/Kg	1	7/11/2023 12:07 PM
Methyl acetate	U		340	µg/Kg	1	7/11/2023 12:07 PM
Methyl tert-butyl ether	U		41	µg/Kg	1	7/11/2023 12:07 PM
Methylcyclohexane	U		41	µg/Kg	1	7/11/2023 12:07 PM
<b>Methylene chloride</b>	<b>410</b>		<b>340</b>	<b>µg/Kg</b>	1	7/11/2023 12:07 PM
o-Xylene	U		41	µg/Kg	1	7/11/2023 12:07 PM
Styrene	U		41	µg/Kg	1	7/11/2023 12:07 PM
Tetrachloroethene	U		41	µg/Kg	1	7/11/2023 12:07 PM
Toluene	U		41	µg/Kg	1	7/11/2023 12:07 PM
trans-1,2-Dichloroethene	U		41	µg/Kg	1	7/11/2023 12:07 PM
trans-1,3-Dichloropropene	U		41	µg/Kg	1	7/11/2023 12:07 PM
Trichloroethene	U		41	µg/Kg	1	7/11/2023 12:07 PM
Trichlorofluoromethane	U		41	µg/Kg	1	7/11/2023 12:07 PM
Vinyl chloride	U		41	µg/Kg	1	7/11/2023 12:07 PM

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

# ALS Group, USA

Date: 18-Jul-2023

Client: Tetra Tech  
Project: Boys and Girls Club  
Sample ID: SB-4 (0-3) Dup  
Collection Date: 6/27/2023 01:10 PM

Work Order: 23070106  
Lab ID: 23070106-08  
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	U		120	µg/Kg	1	7/11/2023 12:07 PM
Surr: 1,2-Dichloroethane-d4	103		80-120	%REC	1	7/11/2023 12:07 PM
Surr: 4-Bromofluorobenzene	99.7		80-120	%REC	1	7/11/2023 12:07 PM
Surr: Dibromofluoromethane	92.1		80-120	%REC	1	7/11/2023 12:07 PM
Surr: Toluene-d8	99.7		80-120	%REC	1	7/11/2023 12:07 PM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	18		0.10	% of sample	1	7/7/2023 12:37 PM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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



# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-5 (0-3)  
**Collection Date:** 6/27/2023 02:55 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-09  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>		Prep: SW7471 7/4/23 17:09	Analyst: <b>KRA</b>
Mercury	0.046		0.022	mg/Kg-dry	1	7/5/2023 01:19 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>		Prep: SW3050B 7/7/23 12:03	Analyst: <b>STP</b>
Aluminum	6,900		280	mg/Kg-dry	100	7/11/2023 03:27 PM
Antimony	0.43		0.35	mg/Kg-dry	1	7/7/2023 06:28 PM
Arsenic	7.6		0.35	mg/Kg-dry	1	7/7/2023 06:28 PM
Barium	290		3.5	mg/Kg-dry	10	7/10/2023 11:02 PM
Beryllium	0.44		0.14	mg/Kg-dry	1	7/7/2023 06:28 PM
Cadmium	0.33		0.14	mg/Kg-dry	1	7/7/2023 06:28 PM
Calcium	23,000		350	mg/Kg-dry	10	7/10/2023 11:02 PM
Chromium	8.6		0.35	mg/Kg-dry	1	7/7/2023 06:28 PM
Cobalt	7.0		0.35	mg/Kg-dry	1	7/7/2023 06:28 PM
Copper	12		0.35	mg/Kg-dry	1	7/7/2023 06:28 PM
Iron	15,000		140	mg/Kg-dry	10	7/10/2023 11:02 PM
Lead	14		0.35	mg/Kg-dry	1	7/7/2023 06:28 PM
Magnesium	8,500		14	mg/Kg-dry	1	7/7/2023 06:28 PM
Manganese	870		3.5	mg/Kg-dry	10	7/10/2023 11:02 PM
Nickel	17		0.35	mg/Kg-dry	1	7/7/2023 06:28 PM
Potassium	980		14	mg/Kg-dry	1	7/7/2023 06:28 PM
Selenium	U		3.5	mg/Kg-dry	10	7/10/2023 11:02 PM
Silver	U		0.35	mg/Kg-dry	1	7/7/2023 06:28 PM
Sodium	150		21	mg/Kg-dry	1	7/7/2023 06:28 PM
Thallium	0.21	J	0.35	mg/Kg-dry	1	7/7/2023 06:28 PM
Vanadium	19		0.35	mg/Kg-dry	1	7/7/2023 06:28 PM
Zinc	46		0.70	mg/Kg-dry	1	7/7/2023 06:28 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>		Prep: SW3546 7/10/23 15:46	Analyst: <b>EEW</b>
1,1'-Biphenyl	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
1,2,4,5-Tetrachlorobenzene	U		190	µg/Kg-dry	1	7/11/2023 06:02 PM
1,4-Dioxane	U		190	µg/Kg-dry	1	7/11/2023 06:02 PM
1-Methylnaphthalene	12		7.6	µg/Kg-dry	1	7/11/2023 06:02 PM
2,2'-Oxybis(1-chloropropane)	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
2,3,4,6-Tetrachlorophenol	U		77	µg/Kg-dry	1	7/11/2023 06:02 PM
2,4,5-Trichlorophenol	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
2,4,6-Trichlorophenol	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
2,4-Dichlorophenol	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
2,4-Dimethylphenol	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
2,4-Dinitrophenol	U		760	µg/Kg-dry	1	7/11/2023 06:02 PM
2,4-Dinitrotoluene	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-5 (0-3)  
**Collection Date:** 6/27/2023 02:55 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-09  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
2-Chloronaphthalene	U		7.6	µg/Kg-dry	1	7/11/2023 06:02 PM
2-Chlorophenol	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
<b>2-Methylnaphthalene</b>	<b>15</b>		<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:02 PM
2-Methylphenol	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
2-Nitroaniline	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
2-Nitrophenol	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
3&4-Methylphenol	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
3,3'-Dichlorobenzidine	U		190	µg/Kg-dry	1	7/11/2023 06:02 PM
3-Nitroaniline	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
4,6-Dinitro-2-methylphenol	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
4-Bromophenyl phenyl ether	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
4-Chloro-3-methylphenol	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
4-Chloroaniline	U		77	µg/Kg-dry	1	7/11/2023 06:02 PM
4-Chlorophenyl phenyl ether	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
4-Nitroaniline	U		190	µg/Kg-dry	1	7/11/2023 06:02 PM
4-Nitrophenol	U		190	µg/Kg-dry	1	7/11/2023 06:02 PM
Acenaphthene	U		7.6	µg/Kg-dry	1	7/11/2023 06:02 PM
Acenaphthylene	U		7.6	µg/Kg-dry	1	7/11/2023 06:02 PM
Acetophenone	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
<b>Anthracene</b>	<b>6.1</b>	J	<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:02 PM
Atrazine	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
Benzaldehyde	U		77	µg/Kg-dry	1	7/11/2023 06:02 PM
<b>Benzo(a)anthracene</b>	<b>11</b>		<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:02 PM
<b>Benzo(a)pyrene</b>	<b>11</b>		<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:02 PM
<b>Benzo(b)fluoranthene</b>	<b>11</b>		<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:02 PM
<b>Benzo(g,h,i)perylene</b>	<b>6.1</b>	J	<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:02 PM
<b>Benzo(k)fluoranthene</b>	<b>7.6</b>	J	<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:02 PM
Bis(2-chloroethoxy)methane	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
Bis(2-chloroethyl)ether	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
Bis(2-ethylhexyl)phthalate	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
Butyl benzyl phthalate	U		77	µg/Kg-dry	1	7/11/2023 06:02 PM
Caprolactam	U		77	µg/Kg-dry	1	7/11/2023 06:02 PM
Carbazole	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
Chrysene	U		7.6	µg/Kg-dry	1	7/11/2023 06:02 PM
Dibenzo(a,h)anthracene	U		7.6	µg/Kg-dry	1	7/11/2023 06:02 PM
Dibenzofuran	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
Diethyl phthalate	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
Dimethyl phthalate	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
Di-n-butyl phthalate	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-5 (0-3)  
**Collection Date:** 6/27/2023 02:55 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-09  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
<b>Fluoranthene</b>	<b>13</b>		<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:02 PM
Fluorene	U		7.6	µg/Kg-dry	1	7/11/2023 06:02 PM
Hexachlorobenzene	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
Hexachlorobutadiene	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
Hexachlorocyclopentadiene	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
Hexachloroethane	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
<b>Indeno(1,2,3-cd)pyrene</b>	<b>6.9</b>	J	<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:02 PM
Isophorone	U		190	µg/Kg-dry	1	7/11/2023 06:02 PM
<b>Naphthalene</b>	<b>7.6</b>	J	<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:02 PM
Nitrobenzene	U		190	µg/Kg-dry	1	7/11/2023 06:02 PM
N-Nitrosodi-n-propylamine	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
N-Nitrosodiphenylamine	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
Pentachlorophenol	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
<b>Phenanthrene</b>	<b>14</b>		<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:02 PM
Phenol	U		38	µg/Kg-dry	1	7/11/2023 06:02 PM
<b>Pyrene</b>	<b>14</b>		<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:02 PM
Pyridine	U		190	µg/Kg-dry	1	7/11/2023 06:02 PM
Surr: 2,4,6-Tribromophenol	71.3		48-94	%REC	1	7/11/2023 06:02 PM
Surr: 2-Fluorobiphenyl	94.5		50-103	%REC	1	7/11/2023 06:02 PM
Surr: 2-Fluorophenol	77.1		43-105	%REC	1	7/11/2023 06:02 PM
Surr: 4-Terphenyl-d14	100		55-111	%REC	1	7/11/2023 06:02 PM
Surr: Nitrobenzene-d5	88.2		47-100	%REC	1	7/11/2023 06:02 PM
Surr: Phenol-d6	82.9		49-110	%REC	1	7/11/2023 06:02 PM

## VOLATILE ORGANIC COMPOUNDS

SW8260D

Prep: SW5035A 7/5/23 16:17

Analyst: SBR

1,1,1-Trichloroethane	U		45	µg/Kg	1	7/11/2023 12:25 PM
1,1,2,2-Tetrachloroethane	U		45	µg/Kg	1	7/11/2023 12:25 PM
1,1,2-Trichloroethane	U		45	µg/Kg	1	7/11/2023 12:25 PM
1,1,2-Trichlorotrifluoroethane	U		45	µg/Kg	1	7/11/2023 12:25 PM
1,1-Dichloroethane	U		45	µg/Kg	1	7/11/2023 12:25 PM
1,1-Dichloroethene	U		45	µg/Kg	1	7/11/2023 12:25 PM
1,2,3-Trichlorobenzene	U		150	µg/Kg	1	7/11/2023 12:25 PM
1,2,3-Trichloropropane	U		45	µg/Kg	1	7/11/2023 12:25 PM
1,2,4-Trichlorobenzene	U		150	µg/Kg	1	7/11/2023 12:25 PM
1,2,4-Trimethylbenzene	U		45	µg/Kg	1	7/11/2023 12:25 PM
1,2-Dibromo-3-chloropropane	U		150	µg/Kg	1	7/11/2023 12:25 PM
1,2-Dibromoethane	U		45	µg/Kg	1	7/11/2023 12:25 PM
1,2-Dichlorobenzene	U		45	µg/Kg	1	7/11/2023 12:25 PM
1,2-Dichloroethane	U		45	µg/Kg	1	7/11/2023 12:25 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-5 (0-3)  
**Collection Date:** 6/27/2023 02:55 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-09  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	U		45	µg/Kg	1	7/11/2023 12:25 PM
1,3,5-Trimethylbenzene	U		150	µg/Kg	1	7/11/2023 12:25 PM
1,3-Dichlorobenzene	U		45	µg/Kg	1	7/11/2023 12:25 PM
1,4-Dichlorobenzene	U		45	µg/Kg	1	7/11/2023 12:25 PM
2-Butanone	U		300	µg/Kg	1	7/11/2023 12:25 PM
2-Hexanone	U		45	µg/Kg	1	7/11/2023 12:25 PM
4-Methyl-2-pentanone	U		45	µg/Kg	1	7/11/2023 12:25 PM
Acetone	U		150	µg/Kg	1	7/11/2023 12:25 PM
Benzene	U		45	µg/Kg	1	7/11/2023 12:25 PM
Bromochloromethane	U		45	µg/Kg	1	7/11/2023 12:25 PM
Bromodichloromethane	U		45	µg/Kg	1	7/11/2023 12:25 PM
Bromoform	U		45	µg/Kg	1	7/11/2023 12:25 PM
Bromomethane	U		150	µg/Kg	1	7/11/2023 12:25 PM
Carbon disulfide	U		45	µg/Kg	1	7/11/2023 12:25 PM
Carbon tetrachloride	U		45	µg/Kg	1	7/11/2023 12:25 PM
Chlorobenzene	U		45	µg/Kg	1	7/11/2023 12:25 PM
Chloroethane	U		150	µg/Kg	1	7/11/2023 12:25 PM
Chloroform	U		45	µg/Kg	1	7/11/2023 12:25 PM
Chloromethane	U		150	µg/Kg	1	7/11/2023 12:25 PM
cis-1,2-Dichloroethene	U		45	µg/Kg	1	7/11/2023 12:25 PM
cis-1,3-Dichloropropene	U		45	µg/Kg	1	7/11/2023 12:25 PM
Cyclohexane	U		150	µg/Kg	1	7/11/2023 12:25 PM
Dibromochloromethane	U		45	µg/Kg	1	7/11/2023 12:25 PM
Dichlorodifluoromethane	U		150	µg/Kg	1	7/11/2023 12:25 PM
Ethylbenzene	U		45	µg/Kg	1	7/11/2023 12:25 PM
Isopropylbenzene	U		45	µg/Kg	1	7/11/2023 12:25 PM
m,p-Xylene	U		90	µg/Kg	1	7/11/2023 12:25 PM
Methyl acetate	U		370	µg/Kg	1	7/11/2023 12:25 PM
Methyl tert-butyl ether	U		45	µg/Kg	1	7/11/2023 12:25 PM
<b>Methylcyclohexane</b>	<b>120</b>		<b>45</b>	<b>µg/Kg</b>	1	7/11/2023 12:25 PM
<b>Methylene chloride</b>	<b>360</b>	J	<b>370</b>	<b>µg/Kg</b>	1	7/11/2023 12:25 PM
o-Xylene	U		45	µg/Kg	1	7/11/2023 12:25 PM
Styrene	U		45	µg/Kg	1	7/11/2023 12:25 PM
Tetrachloroethene	U		45	µg/Kg	1	7/11/2023 12:25 PM
Toluene	U		45	µg/Kg	1	7/11/2023 12:25 PM
trans-1,2-Dichloroethene	U		45	µg/Kg	1	7/11/2023 12:25 PM
trans-1,3-Dichloropropene	U		45	µg/Kg	1	7/11/2023 12:25 PM
Trichloroethene	U		45	µg/Kg	1	7/11/2023 12:25 PM
Trichlorofluoromethane	U		45	µg/Kg	1	7/11/2023 12:25 PM
Vinyl chloride	U		45	µg/Kg	1	7/11/2023 12:25 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-5 (0-3)  
**Collection Date:** 6/27/2023 02:55 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-09  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	U		130	µg/Kg	1	7/11/2023 12:25 PM
Surr: 1,2-Dichloroethane-d4	103		80-120	%REC	1	7/11/2023 12:25 PM
Surr: 4-Bromofluorobenzene	104		80-120	%REC	1	7/11/2023 12:25 PM
Surr: Dibromofluoromethane	89.1		80-120	%REC	1	7/11/2023 12:25 PM
Surr: Toluene-d8	102		80-120	%REC	1	7/11/2023 12:25 PM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	14		0.10	% of sample	1	7/7/2023 12:37 PM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-5 (15-18)  
**Collection Date:** 6/27/2023 03:04 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-10  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>	Prep: SW7471 7/4/23 17:09		Analyst: <b>KRA</b>
Mercury	0.045		0.022	mg/Kg-dry	1	7/5/2023 01:21 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>	Prep: SW3050B 7/7/23 12:03		Analyst: <b>STP</b>
Aluminum	7,800		250	mg/Kg-dry	100	7/11/2023 03:29 PM
Antimony	0.44		0.31	mg/Kg-dry	1	7/7/2023 06:30 PM
Arsenic	7.0		0.31	mg/Kg-dry	1	7/7/2023 06:30 PM
Barium	310		3.1	mg/Kg-dry	10	7/10/2023 11:03 PM
Beryllium	0.37		0.12	mg/Kg-dry	1	7/7/2023 06:30 PM
Cadmium	0.29		0.12	mg/Kg-dry	1	7/7/2023 06:30 PM
Calcium	31,000		310	mg/Kg-dry	10	7/10/2023 11:03 PM
Chromium	7.5		0.31	mg/Kg-dry	1	7/7/2023 06:30 PM
Cobalt	6.0		0.31	mg/Kg-dry	1	7/7/2023 06:30 PM
Copper	11		0.31	mg/Kg-dry	1	7/7/2023 06:30 PM
Iron	21,000		120	mg/Kg-dry	10	7/10/2023 11:03 PM
Lead	17		0.31	mg/Kg-dry	1	7/7/2023 06:30 PM
Magnesium	9,100		12	mg/Kg-dry	1	7/7/2023 06:30 PM
Manganese	1,200		31	mg/Kg-dry	100	7/10/2023 10:49 PM
Nickel	16		0.31	mg/Kg-dry	1	7/7/2023 06:30 PM
Potassium	890		12	mg/Kg-dry	1	7/7/2023 06:30 PM
Selenium	U		0.31	mg/Kg-dry	1	7/7/2023 06:30 PM
Silver	0.056	J	0.31	mg/Kg-dry	1	7/7/2023 06:30 PM
Sodium	350		19	mg/Kg-dry	1	7/7/2023 06:30 PM
Thallium	0.22	J	0.31	mg/Kg-dry	1	7/7/2023 06:30 PM
Vanadium	17		0.31	mg/Kg-dry	1	7/7/2023 06:30 PM
Zinc	45		0.62	mg/Kg-dry	1	7/7/2023 06:30 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>	Prep: SW3546 7/10/23 15:46		Analyst: <b>EEW</b>
1,1'-Biphenyl	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
1,2,4,5-Tetrachlorobenzene	U		180	µg/Kg-dry	1	7/11/2023 06:25 PM
1,4-Dioxane	U		180	µg/Kg-dry	1	7/11/2023 06:25 PM
1-Methylnaphthalene	U		7.1	µg/Kg-dry	1	7/11/2023 06:25 PM
2,2'-Oxybis(1-chloropropane)	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
2,3,4,6-Tetrachlorophenol	U		71	µg/Kg-dry	1	7/11/2023 06:25 PM
2,4,5-Trichlorophenol	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
2,4,6-Trichlorophenol	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
2,4-Dichlorophenol	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
2,4-Dimethylphenol	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
2,4-Dinitrophenol	U		710	µg/Kg-dry	1	7/11/2023 06:25 PM
2,4-Dinitrotoluene	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-5 (15-18)  
**Collection Date:** 6/27/2023 03:04 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-10  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
2-Chloronaphthalene	U		7.1	µg/Kg-dry	1	7/11/2023 06:25 PM
2-Chlorophenol	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
<b>2-Methylnaphthalene</b>	<b>4.2</b>	J	<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:25 PM
2-Methylphenol	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
2-Nitroaniline	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
2-Nitrophenol	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
3&4-Methylphenol	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
3,3'-Dichlorobenzidine	U		180	µg/Kg-dry	1	7/11/2023 06:25 PM
3-Nitroaniline	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
4,6-Dinitro-2-methylphenol	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
4-Bromophenyl phenyl ether	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
4-Chloro-3-methylphenol	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
4-Chloroaniline	U		71	µg/Kg-dry	1	7/11/2023 06:25 PM
4-Chlorophenyl phenyl ether	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
4-Nitroaniline	U		180	µg/Kg-dry	1	7/11/2023 06:25 PM
4-Nitrophenol	U		180	µg/Kg-dry	1	7/11/2023 06:25 PM
Acenaphthene	U		7.1	µg/Kg-dry	1	7/11/2023 06:25 PM
Acenaphthylene	U		7.1	µg/Kg-dry	1	7/11/2023 06:25 PM
Acetophenone	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
<b>Anthracene</b>	<b>5.7</b>	J	<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:25 PM
Atrazine	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
Benzaldehyde	U		71	µg/Kg-dry	1	7/11/2023 06:25 PM
<b>Benzo(a)anthracene</b>	<b>15</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:25 PM
<b>Benzo(a)pyrene</b>	<b>18</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:25 PM
<b>Benzo(b)fluoranthene</b>	<b>16</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:25 PM
<b>Benzo(g,h,i)perylene</b>	<b>9.9</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:25 PM
<b>Benzo(k)fluoranthene</b>	<b>9.9</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:25 PM
Bis(2-chloroethoxy)methane	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
Bis(2-chloroethyl)ether	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
Bis(2-ethylhexyl)phthalate	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
Butyl benzyl phthalate	U		71	µg/Kg-dry	1	7/11/2023 06:25 PM
Caprolactam	U		71	µg/Kg-dry	1	7/11/2023 06:25 PM
Carbazole	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
<b>Chrysene</b>	<b>11</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:25 PM
Dibenzo(a,h)anthracene	U		7.1	µg/Kg-dry	1	7/11/2023 06:25 PM
Dibenzofuran	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
Diethyl phthalate	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
Dimethyl phthalate	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
Di-n-butyl phthalate	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-5 (15-18)  
**Collection Date:** 6/27/2023 03:04 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-10  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
<b>Fluoranthene</b>	<b>20</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:25 PM
Fluorene	U		7.1	µg/Kg-dry	1	7/11/2023 06:25 PM
Hexachlorobenzene	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
Hexachlorobutadiene	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
Hexachlorocyclopentadiene	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
Hexachloroethane	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
<b>Indeno(1,2,3-cd)pyrene</b>	<b>9.2</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:25 PM
Isophorone	U		180	µg/Kg-dry	1	7/11/2023 06:25 PM
Naphthalene	U		7.1	µg/Kg-dry	1	7/11/2023 06:25 PM
Nitrobenzene	U		180	µg/Kg-dry	1	7/11/2023 06:25 PM
N-Nitrosodi-n-propylamine	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
N-Nitrosodiphenylamine	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
Pentachlorophenol	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
<b>Phenanthrene</b>	<b>11</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:25 PM
Phenol	U		35	µg/Kg-dry	1	7/11/2023 06:25 PM
<b>Pyrene</b>	<b>18</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 06:25 PM
Pyridine	U		180	µg/Kg-dry	1	7/11/2023 06:25 PM
Surr: 2,4,6-Tribromophenol	58.3		48-94	%REC	1	7/11/2023 06:25 PM
Surr: 2-Fluorobiphenyl	87.7		50-103	%REC	1	7/11/2023 06:25 PM
Surr: 2-Fluorophenol	68.1		43-105	%REC	1	7/11/2023 06:25 PM
Surr: 4-Terphenyl-d14	91.4		55-111	%REC	1	7/11/2023 06:25 PM
Surr: Nitrobenzene-d5	83.0		47-100	%REC	1	7/11/2023 06:25 PM
Surr: Phenol-d6	75.2		49-110	%REC	1	7/11/2023 06:25 PM

## VOLATILE ORGANIC COMPOUNDS

SW8260D

Prep: SW5035A 7/5/23 16:17

Analyst: SBR

1,1,1-Trichloroethane	U		35	µg/Kg	1	7/11/2023 12:43 PM
1,1,2,2-Tetrachloroethane	U		35	µg/Kg	1	7/11/2023 12:43 PM
1,1,2-Trichloroethane	U		35	µg/Kg	1	7/11/2023 12:43 PM
1,1,2-Trichlorotrifluoroethane	U		35	µg/Kg	1	7/11/2023 12:43 PM
1,1-Dichloroethane	U		35	µg/Kg	1	7/11/2023 12:43 PM
1,1-Dichloroethene	U		35	µg/Kg	1	7/11/2023 12:43 PM
1,2,3-Trichlorobenzene	U		120	µg/Kg	1	7/11/2023 12:43 PM
1,2,3-Trichloropropane	U		35	µg/Kg	1	7/11/2023 12:43 PM
1,2,4-Trichlorobenzene	U		120	µg/Kg	1	7/11/2023 12:43 PM
1,2,4-Trimethylbenzene	U		35	µg/Kg	1	7/11/2023 12:43 PM
1,2-Dibromo-3-chloropropane	U		120	µg/Kg	1	7/11/2023 12:43 PM
1,2-Dibromoethane	U		35	µg/Kg	1	7/11/2023 12:43 PM
1,2-Dichlorobenzene	U		35	µg/Kg	1	7/11/2023 12:43 PM
1,2-Dichloroethane	U		35	µg/Kg	1	7/11/2023 12:43 PM

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



# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-5 (15-18)  
**Collection Date:** 6/27/2023 03:04 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-10  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	U		35	µg/Kg	1	7/11/2023 12:43 PM
1,3,5-Trimethylbenzene	U		120	µg/Kg	1	7/11/2023 12:43 PM
1,3-Dichlorobenzene	U		35	µg/Kg	1	7/11/2023 12:43 PM
1,4-Dichlorobenzene	U		35	µg/Kg	1	7/11/2023 12:43 PM
2-Butanone	U		230	µg/Kg	1	7/11/2023 12:43 PM
2-Hexanone	U		35	µg/Kg	1	7/11/2023 12:43 PM
4-Methyl-2-pentanone	U		35	µg/Kg	1	7/11/2023 12:43 PM
Acetone	U		120	µg/Kg	1	7/11/2023 12:43 PM
Benzene	U		35	µg/Kg	1	7/11/2023 12:43 PM
Bromochloromethane	U		35	µg/Kg	1	7/11/2023 12:43 PM
Bromodichloromethane	U		35	µg/Kg	1	7/11/2023 12:43 PM
Bromoform	U		35	µg/Kg	1	7/11/2023 12:43 PM
Bromomethane	U		120	µg/Kg	1	7/11/2023 12:43 PM
Carbon disulfide	U		35	µg/Kg	1	7/11/2023 12:43 PM
Carbon tetrachloride	U		35	µg/Kg	1	7/11/2023 12:43 PM
Chlorobenzene	U		35	µg/Kg	1	7/11/2023 12:43 PM
Chloroethane	U		120	µg/Kg	1	7/11/2023 12:43 PM
Chloroform	U		35	µg/Kg	1	7/11/2023 12:43 PM
Chloromethane	U		120	µg/Kg	1	7/11/2023 12:43 PM
cis-1,2-Dichloroethene	U		35	µg/Kg	1	7/11/2023 12:43 PM
cis-1,3-Dichloropropene	U		35	µg/Kg	1	7/11/2023 12:43 PM
Cyclohexane	U		120	µg/Kg	1	7/11/2023 12:43 PM
Dibromochloromethane	U		35	µg/Kg	1	7/11/2023 12:43 PM
Dichlorodifluoromethane	U		120	µg/Kg	1	7/11/2023 12:43 PM
Ethylbenzene	U		35	µg/Kg	1	7/11/2023 12:43 PM
Isopropylbenzene	U		35	µg/Kg	1	7/11/2023 12:43 PM
m,p-Xylene	U		69	µg/Kg	1	7/11/2023 12:43 PM
Methyl acetate	U		290	µg/Kg	1	7/11/2023 12:43 PM
Methyl tert-butyl ether	U		35	µg/Kg	1	7/11/2023 12:43 PM
Methylcyclohexane	U		35	µg/Kg	1	7/11/2023 12:43 PM
<b>Methylene chloride</b>	<b>250</b>	<b>J</b>	<b>290</b>	<b>µg/Kg</b>	<b>1</b>	<b>7/11/2023 12:43 PM</b>
o-Xylene	U		35	µg/Kg	1	7/11/2023 12:43 PM
Styrene	U		35	µg/Kg	1	7/11/2023 12:43 PM
Tetrachloroethene	U		35	µg/Kg	1	7/11/2023 12:43 PM
Toluene	U		35	µg/Kg	1	7/11/2023 12:43 PM
trans-1,2-Dichloroethene	U		35	µg/Kg	1	7/11/2023 12:43 PM
trans-1,3-Dichloropropene	U		35	µg/Kg	1	7/11/2023 12:43 PM
Trichloroethene	U		35	µg/Kg	1	7/11/2023 12:43 PM
Trichlorofluoromethane	U		35	µg/Kg	1	7/11/2023 12:43 PM
Vinyl chloride	U		35	µg/Kg	1	7/11/2023 12:43 PM

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

**ALS Group, USA****Date:** 18-Jul-2023**Client:** Tetra Tech**Project:** Boys and Girls Club**Work Order:** 23070106**Sample ID:** SB-5 (15-18)**Lab ID:** 23070106-10**Collection Date:** 6/27/2023 03:04 PM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	U		100	µg/Kg	1	7/11/2023 12:43 PM
Surr: 1,2-Dichloroethane-d4	101		80-120	%REC	1	7/11/2023 12:43 PM
Surr: 4-Bromofluorobenzene	102		80-120	%REC	1	7/11/2023 12:43 PM
Surr: Dibromofluoromethane	91.3		80-120	%REC	1	7/11/2023 12:43 PM
Surr: Toluene-d8	101		80-120	%REC	1	7/11/2023 12:43 PM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	10		0.10	% of sample	1	7/7/2023 12:37 PM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-6 (0-3)  
**Collection Date:** 6/27/2023 03:27 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-11  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>		Prep: SW7471 7/4/23 17:09	Analyst: <b>KRA</b>
Mercury	0.041		0.021	mg/Kg-dry	1	7/5/2023 01:23 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>		Prep: SW3050B 7/7/23 12:03	Analyst: <b>STP</b>
Aluminum	6,600		240	mg/Kg-dry	100	7/11/2023 03:30 PM
Antimony	0.35		0.30	mg/Kg-dry	1	7/7/2023 06:32 PM
Arsenic	5.8		0.30	mg/Kg-dry	1	7/7/2023 06:32 PM
Barium	200		3.0	mg/Kg-dry	10	7/10/2023 11:05 PM
Beryllium	0.41		0.12	mg/Kg-dry	1	7/7/2023 06:32 PM
Cadmium	0.25		0.12	mg/Kg-dry	1	7/7/2023 06:32 PM
Calcium	26,000		300	mg/Kg-dry	10	7/10/2023 11:05 PM
Chromium	8.0		0.30	mg/Kg-dry	1	7/7/2023 06:32 PM
Cobalt	5.7		0.30	mg/Kg-dry	1	7/7/2023 06:32 PM
Copper	11		0.30	mg/Kg-dry	1	7/7/2023 06:32 PM
Iron	11,000		12	mg/Kg-dry	1	7/7/2023 06:32 PM
Lead	16		0.30	mg/Kg-dry	1	7/7/2023 06:32 PM
Magnesium	6,900		12	mg/Kg-dry	1	7/7/2023 06:32 PM
Manganese	640		3.0	mg/Kg-dry	10	7/10/2023 11:05 PM
Nickel	16		0.30	mg/Kg-dry	1	7/7/2023 06:32 PM
Potassium	860		12	mg/Kg-dry	1	7/7/2023 06:32 PM
Selenium	U		3.0	mg/Kg-dry	10	7/10/2023 11:05 PM
Silver	0.052	J	0.30	mg/Kg-dry	1	7/7/2023 06:32 PM
Sodium	77		18	mg/Kg-dry	1	7/7/2023 06:32 PM
Thallium	0.17	J	0.30	mg/Kg-dry	1	7/7/2023 06:32 PM
Vanadium	16		0.30	mg/Kg-dry	1	7/7/2023 06:32 PM
Zinc	48		0.60	mg/Kg-dry	1	7/7/2023 06:32 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>		Prep: SW3546 7/10/23 15:46	Analyst: <b>EEW</b>
1,1'-Biphenyl	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
1,2,4,5-Tetrachlorobenzene	U		1,800	µg/Kg-dry	10	7/11/2023 06:48 PM
1,4-Dioxane	U		1,800	µg/Kg-dry	10	7/11/2023 06:48 PM
1-Methylnaphthalene	94		73	µg/Kg-dry	10	7/11/2023 06:48 PM
2,2'-Oxybis(1-chloropropane)	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
2,3,4,6-Tetrachlorophenol	U		730	µg/Kg-dry	10	7/11/2023 06:48 PM
2,4,5-Trichlorophenol	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
2,4,6-Trichlorophenol	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
2,4-Dichlorophenol	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
2,4-Dimethylphenol	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
2,4-Dinitrophenol	U		7,300	µg/Kg-dry	10	7/11/2023 06:48 PM
2,4-Dinitrotoluene	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-6 (0-3)  
**Collection Date:** 6/27/2023 03:27 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-11  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
2-Chloronaphthalene	U		73	µg/Kg-dry	10	7/11/2023 06:48 PM
2-Chlorophenol	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
<b>2-Methylnaphthalene</b>	<b>94</b>		<b>73</b>	<b>µg/Kg-dry</b>	10	7/11/2023 06:48 PM
2-Methylphenol	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
2-Nitroaniline	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
2-Nitrophenol	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
3&4-Methylphenol	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
3,3'-Dichlorobenzidine	U		1,800	µg/Kg-dry	10	7/11/2023 06:48 PM
3-Nitroaniline	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
4,6-Dinitro-2-methylphenol	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
4-Bromophenyl phenyl ether	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
4-Chloro-3-methylphenol	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
4-Chloroaniline	U		730	µg/Kg-dry	10	7/11/2023 06:48 PM
4-Chlorophenyl phenyl ether	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
4-Nitroaniline	U		1,800	µg/Kg-dry	10	7/11/2023 06:48 PM
4-Nitrophenol	U		1,800	µg/Kg-dry	10	7/11/2023 06:48 PM
Acenaphthene	U		73	µg/Kg-dry	10	7/11/2023 06:48 PM
Acenaphthylene	U		73	µg/Kg-dry	10	7/11/2023 06:48 PM
Acetophenone	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
<b>Anthracene</b>	<b>87</b>		<b>73</b>	<b>µg/Kg-dry</b>	10	7/11/2023 06:48 PM
Atrazine	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
Benzaldehyde	U		730	µg/Kg-dry	10	7/11/2023 06:48 PM
<b>Benzo(a)anthracene</b>	<b>160</b>		<b>73</b>	<b>µg/Kg-dry</b>	10	7/11/2023 06:48 PM
<b>Benzo(a)pyrene</b>	<b>170</b>		<b>73</b>	<b>µg/Kg-dry</b>	10	7/11/2023 06:48 PM
<b>Benzo(b)fluoranthene</b>	<b>170</b>		<b>73</b>	<b>µg/Kg-dry</b>	10	7/11/2023 06:48 PM
<b>Benzo(g,h,i)perylene</b>	<b>87</b>		<b>73</b>	<b>µg/Kg-dry</b>	10	7/11/2023 06:48 PM
<b>Benzo(k)fluoranthene</b>	<b>100</b>		<b>73</b>	<b>µg/Kg-dry</b>	10	7/11/2023 06:48 PM
Bis(2-chloroethoxy)methane	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
Bis(2-chloroethyl)ether	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
Bis(2-ethylhexyl)phthalate	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
Butyl benzyl phthalate	U		730	µg/Kg-dry	10	7/11/2023 06:48 PM
Caprolactam	U		730	µg/Kg-dry	10	7/11/2023 06:48 PM
Carbazole	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
<b>Chrysene</b>	<b>87</b>		<b>73</b>	<b>µg/Kg-dry</b>	10	7/11/2023 06:48 PM
Dibenzo(a,h)anthracene	U		73	µg/Kg-dry	10	7/11/2023 06:48 PM
Dibenzofuran	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
Diethyl phthalate	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
Dimethyl phthalate	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
Di-n-butyl phthalate	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-6 (0-3)  
**Collection Date:** 6/27/2023 03:27 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-11  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
<b>Fluoranthene</b>	<b>220</b>		<b>73</b>	<b>µg/Kg-dry</b>	10	7/11/2023 06:48 PM
Fluorene	U		73	µg/Kg-dry	10	7/11/2023 06:48 PM
Hexachlorobenzene	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
Hexachlorobutadiene	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
Hexachlorocyclopentadiene	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
Hexachloroethane	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
<b>Indeno(1,2,3-cd)pyrene</b>	<b>80</b>		<b>73</b>	<b>µg/Kg-dry</b>	10	7/11/2023 06:48 PM
Isophorone	U		1,800	µg/Kg-dry	10	7/11/2023 06:48 PM
Naphthalene	U		73	µg/Kg-dry	10	7/11/2023 06:48 PM
Nitrobenzene	U		1,800	µg/Kg-dry	10	7/11/2023 06:48 PM
N-Nitrosodi-n-propylamine	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
N-Nitrosodiphenylamine	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
Pentachlorophenol	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
<b>Phenanthrene</b>	<b>220</b>		<b>73</b>	<b>µg/Kg-dry</b>	10	7/11/2023 06:48 PM
Phenol	U		360	µg/Kg-dry	10	7/11/2023 06:48 PM
<b>Pyrene</b>	<b>210</b>		<b>73</b>	<b>µg/Kg-dry</b>	10	7/11/2023 06:48 PM
Pyridine	U		1,800	µg/Kg-dry	10	7/11/2023 06:48 PM
Surr: 2,4,6-Tribromophenol	53.8		48-94	%REC	10	7/11/2023 06:48 PM
Surr: 2-Fluorobiphenyl	81.0		50-103	%REC	10	7/11/2023 06:48 PM
Surr: 2-Fluorophenol	61.6		43-105	%REC	10	7/11/2023 06:48 PM
Surr: 4-Terphenyl-d14	85.0		55-111	%REC	10	7/11/2023 06:48 PM
Surr: Nitrobenzene-d5	75.0		47-100	%REC	10	7/11/2023 06:48 PM
Surr: Phenol-d6	62.8		49-110	%REC	10	7/11/2023 06:48 PM

## VOLATILE ORGANIC COMPOUNDS - LOW LEVEL

SW8260D

Analyst: BAM

1,1,1-Trichloroethane	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
1,1,2,2-Tetrachloroethane	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
1,1,2-Trichloroethane	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
1,1,2-Trichlorotrifluoroethane	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
1,1-Dichloroethane	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
1,1-Dichloroethene	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
1,2,3-Trichlorobenzene	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
1,2,3-Trichloropropane	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
1,2,4-Trichlorobenzene	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
1,2,4-Trimethylbenzene	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
1,2-Dibromo-3-chloropropane	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
1,2-Dibromoethane	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
1,2-Dichlorobenzene	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
1,2-Dichloroethane	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-6 (0-3)  
**Collection Date:** 6/27/2023 03:27 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-11  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
1,3,5-Trimethylbenzene	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
1,3-Dichlorobenzene	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
1,4-Dichlorobenzene	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
2-Butanone	U		12	µg/Kg-dry	1.04	7/11/2023 01:03 AM
2-Hexanone	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
4-Methyl-2-pentanone	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
<b>Acetone</b>	<b>23</b>		<b>12</b>	<b>µg/Kg-dry</b>	1.04	7/11/2023 01:03 AM
<b>Benzene</b>	<b>0.83</b>	J	<b>5.8</b>	<b>µg/Kg-dry</b>	1.04	7/11/2023 01:03 AM
Bromochloromethane	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
Bromodichloromethane	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
Bromoform	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
Bromomethane	U		12	µg/Kg-dry	1.04	7/11/2023 01:03 AM
<b>Carbon disulfide</b>	<b>2.3</b>	J	<b>5.8</b>	<b>µg/Kg-dry</b>	1.04	7/11/2023 01:03 AM
Carbon tetrachloride	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
Chlorobenzene	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
Chloroethane	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
Chloroform	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
Chloromethane	U		12	µg/Kg-dry	1.04	7/11/2023 01:03 AM
cis-1,2-Dichloroethene	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
cis-1,3-Dichloropropene	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
<b>Cyclohexane</b>	<b>3.4</b>	J	<b>12</b>	<b>µg/Kg-dry</b>	1.04	7/11/2023 01:03 AM
Dibromochloromethane	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
Dichlorodifluoromethane	U		12	µg/Kg-dry	1.04	7/11/2023 01:03 AM
Ethylbenzene	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
Isopropylbenzene	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
m,p-Xylene	U		2.9	µg/Kg-dry	1.04	7/11/2023 01:03 AM
Methyl acetate	U		12	µg/Kg-dry	1.04	7/11/2023 01:03 AM
Methyl tert-butyl ether	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
<b>Methylcyclohexane</b>	<b>5.7</b>	J	<b>12</b>	<b>µg/Kg-dry</b>	1.04	7/11/2023 01:03 AM
Methylene chloride	U		12	µg/Kg-dry	1.04	7/11/2023 01:03 AM
o-Xylene	U		2.9	µg/Kg-dry	1.04	7/11/2023 01:03 AM
Styrene	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
Tetrachloroethene	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
Toluene	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
trans-1,2-Dichloroethene	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
trans-1,3-Dichloropropene	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
Trichloroethene	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
Trichlorofluoromethane	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
Vinyl chloride	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-6 (0-3)  
**Collection Date:** 6/27/2023 03:27 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-11  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	U		5.8	µg/Kg-dry	1.04	7/11/2023 01:03 AM
Surr: 1,2-Dichloroethane-d4	125		83-132	%REC	1.04	7/11/2023 01:03 AM
Surr: 4-Bromofluorobenzene	99.0		83-111	%REC	1.04	7/11/2023 01:03 AM
Surr: Dibromofluoromethane	108		77-125	%REC	1.04	7/11/2023 01:03 AM
Surr: Toluene-d8	96.1		86-108	%REC	1.04	7/11/2023 01:03 AM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	10		0.10	% of sample	1	7/7/2023 02:34 PM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-6 (30-35)  
**Collection Date:** 6/27/2023 03:42 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-12  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>		Prep: SW7471 7/5/23 14:09	Analyst: <b>KRA</b>
Mercury	0.020	J	0.021	mg/Kg-dry	1	7/6/2023 01:30 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>		Prep: SW3050B 7/7/23 12:03	Analyst: <b>STP</b>
Aluminum	4,900		230	mg/Kg-dry	100	7/11/2023 03:32 PM
Antimony	0.36		0.28	mg/Kg-dry	1	7/7/2023 06:33 PM
Arsenic	5.9		0.28	mg/Kg-dry	1	7/7/2023 06:33 PM
Barium	170		2.8	mg/Kg-dry	10	7/10/2023 11:07 PM
Beryllium	0.34		0.11	mg/Kg-dry	1	7/7/2023 06:33 PM
Cadmium	0.20		0.11	mg/Kg-dry	1	7/7/2023 06:33 PM
Calcium	21,000		280	mg/Kg-dry	10	7/10/2023 11:07 PM
Chromium	6.5		0.28	mg/Kg-dry	1	7/7/2023 06:33 PM
Cobalt	6.5		0.28	mg/Kg-dry	1	7/7/2023 06:33 PM
Copper	9.3		0.28	mg/Kg-dry	1	7/7/2023 06:33 PM
Iron	9,500		11	mg/Kg-dry	1	7/7/2023 06:33 PM
Lead	8.0		0.28	mg/Kg-dry	1	7/7/2023 06:33 PM
Magnesium	8,000		11	mg/Kg-dry	1	7/7/2023 06:33 PM
Manganese	650		2.8	mg/Kg-dry	10	7/10/2023 11:07 PM
Nickel	14		0.28	mg/Kg-dry	1	7/7/2023 06:33 PM
Potassium	890		11	mg/Kg-dry	1	7/7/2023 06:33 PM
Selenium	U		0.28	mg/Kg-dry	1	7/7/2023 06:33 PM
Silver	0.044	J	0.28	mg/Kg-dry	1	7/7/2023 06:33 PM
Sodium	130		17	mg/Kg-dry	1	7/7/2023 06:33 PM
Thallium	0.19	J	0.28	mg/Kg-dry	1	7/7/2023 06:33 PM
Vanadium	15		0.28	mg/Kg-dry	1	7/7/2023 06:33 PM
Zinc	34		0.57	mg/Kg-dry	1	7/7/2023 06:33 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>		Prep: SW3546 7/10/23 15:46	Analyst: <b>EEW</b>
1,1'-Biphenyl	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
1,2,4,5-Tetrachlorobenzene	U		320	µg/Kg-dry	1	7/11/2023 07:10 PM
1,4-Dioxane	U		320	µg/Kg-dry	1	7/11/2023 07:10 PM
1-Methylnaphthalene	U		13	µg/Kg-dry	1	7/11/2023 07:10 PM
2,2'-Oxybis(1-chloropropane)	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
2,3,4,6-Tetrachlorophenol	U		130	µg/Kg-dry	1	7/11/2023 07:10 PM
2,4,5-Trichlorophenol	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
2,4,6-Trichlorophenol	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
2,4-Dichlorophenol	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
2,4-Dimethylphenol	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
2,4-Dinitrophenol	U		1,300	µg/Kg-dry	1	7/11/2023 07:10 PM
2,4-Dinitrotoluene	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM

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



# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-6 (30-35)  
**Collection Date:** 6/27/2023 03:42 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-12  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
2-Chloronaphthalene	U		13	µg/Kg-dry	1	7/11/2023 07:10 PM
2-Chlorophenol	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
2-Methylnaphthalene	U		13	µg/Kg-dry	1	7/11/2023 07:10 PM
2-Methylphenol	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
2-Nitroaniline	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
2-Nitrophenol	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
3&4-Methylphenol	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
3,3'-Dichlorobenzidine	U		320	µg/Kg-dry	1	7/11/2023 07:10 PM
3-Nitroaniline	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
4,6-Dinitro-2-methylphenol	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
4-Bromophenyl phenyl ether	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
4-Chloro-3-methylphenol	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
4-Chloroaniline	U		130	µg/Kg-dry	1	7/11/2023 07:10 PM
4-Chlorophenyl phenyl ether	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
4-Nitroaniline	U		320	µg/Kg-dry	1	7/11/2023 07:10 PM
4-Nitrophenol	U		320	µg/Kg-dry	1	7/11/2023 07:10 PM
Acenaphthene	U		13	µg/Kg-dry	1	7/11/2023 07:10 PM
Acenaphthylene	U		13	µg/Kg-dry	1	7/11/2023 07:10 PM
Acetophenone	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
Anthracene	U		13	µg/Kg-dry	1	7/11/2023 07:10 PM
Atrazine	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
Benzaldehyde	U		130	µg/Kg-dry	1	7/11/2023 07:10 PM
Benzo(a)anthracene	U		13	µg/Kg-dry	1	7/11/2023 07:10 PM
Benzo(a)pyrene	U		13	µg/Kg-dry	1	7/11/2023 07:10 PM
Benzo(b)fluoranthene	U		13	µg/Kg-dry	1	7/11/2023 07:10 PM
Benzo(g,h,i)perylene	U		13	µg/Kg-dry	1	7/11/2023 07:10 PM
Benzo(k)fluoranthene	U		13	µg/Kg-dry	1	7/11/2023 07:10 PM
Bis(2-chloroethoxy)methane	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
Bis(2-chloroethyl)ether	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
Bis(2-ethylhexyl)phthalate	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
Butyl benzyl phthalate	U		130	µg/Kg-dry	1	7/11/2023 07:10 PM
<b>Caprolactam</b>	<b>180</b>		<b>130</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:10 PM
Carbazole	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
Chrysene	U		13	µg/Kg-dry	1	7/11/2023 07:10 PM
Dibenzo(a,h)anthracene	U		13	µg/Kg-dry	1	7/11/2023 07:10 PM
Dibenzofuran	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
Diethyl phthalate	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
Dimethyl phthalate	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
Di-n-butyl phthalate	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-6 (30-35)  
**Collection Date:** 6/27/2023 03:42 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-12  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
Fluoranthene	U		13	µg/Kg-dry	1	7/11/2023 07:10 PM
Fluorene	U		13	µg/Kg-dry	1	7/11/2023 07:10 PM
Hexachlorobenzene	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
Hexachlorobutadiene	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
Hexachlorocyclopentadiene	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
Hexachloroethane	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
Indeno(1,2,3-cd)pyrene	U		13	µg/Kg-dry	1	7/11/2023 07:10 PM
Isophorone	U		320	µg/Kg-dry	1	7/11/2023 07:10 PM
Naphthalene	U		13	µg/Kg-dry	1	7/11/2023 07:10 PM
Nitrobenzene	U		320	µg/Kg-dry	1	7/11/2023 07:10 PM
N-Nitrosodi-n-propylamine	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
N-Nitrosodiphenylamine	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
Pentachlorophenol	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
Phenanthrene	U		13	µg/Kg-dry	1	7/11/2023 07:10 PM
Phenol	U		64	µg/Kg-dry	1	7/11/2023 07:10 PM
Pyrene	U		13	µg/Kg-dry	1	7/11/2023 07:10 PM
Pyridine	U		320	µg/Kg-dry	1	7/11/2023 07:10 PM
Surr: 2,4,6-Tribromophenol	78.0		48-94	%REC	1	7/11/2023 07:10 PM
Surr: 2-Fluorobiphenyl	87.7		50-103	%REC	1	7/11/2023 07:10 PM
Surr: 2-Fluorophenol	88.0		43-105	%REC	1	7/11/2023 07:10 PM
Surr: 4-Terphenyl-d14	73.1		55-111	%REC	1	7/11/2023 07:10 PM
Surr: Nitrobenzene-d5	85.3		47-100	%REC	1	7/11/2023 07:10 PM
Surr: Phenol-d6	88.5		49-110	%REC	1	7/11/2023 07:10 PM

## VOLATILE ORGANIC COMPOUNDS - LOW LEVEL

SW8260D

Analyst: BAM

1,1,1-Trichloroethane	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
1,1,2,2-Tetrachloroethane	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
1,1,2-Trichloroethane	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
1,1,2-Trichlorotrifluoroethane	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
1,1-Dichloroethane	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
1,1-Dichloroethene	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
1,2,3-Trichlorobenzene	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
1,2,3-Trichloropropane	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
1,2,4-Trichlorobenzene	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
1,2,4-Trimethylbenzene	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
1,2-Dibromo-3-chloropropane	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
1,2-Dibromoethane	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
1,2-Dichlorobenzene	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
1,2-Dichloroethane	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-6 (30-35)  
**Collection Date:** 6/27/2023 03:42 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-12  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
1,3,5-Trimethylbenzene	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
1,3-Dichlorobenzene	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
1,4-Dichlorobenzene	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
2-Butanone	U		16	µg/Kg-dry	1.43	7/11/2023 01:20 AM
2-Hexanone	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
4-Methyl-2-pentanone	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
<b>Acetone</b>	<b>14</b>	<b>J</b>	<b>16</b>	<b>µg/Kg-dry</b>	1.43	7/11/2023 01:20 AM
<b>Benzene</b>	<b>2.5</b>	<b>J</b>	<b>8.0</b>	<b>µg/Kg-dry</b>	1.43	7/11/2023 01:20 AM
Bromochloromethane	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
Bromodichloromethane	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
Bromoform	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
Bromomethane	U		16	µg/Kg-dry	1.43	7/11/2023 01:20 AM
<b>Carbon disulfide</b>	<b>1.4</b>	<b>J</b>	<b>8.0</b>	<b>µg/Kg-dry</b>	1.43	7/11/2023 01:20 AM
Carbon tetrachloride	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
Chlorobenzene	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
Chloroethane	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
Chloroform	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
Chloromethane	U		16	µg/Kg-dry	1.43	7/11/2023 01:20 AM
cis-1,2-Dichloroethene	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
cis-1,3-Dichloropropene	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
<b>Cyclohexane</b>	<b>4.9</b>	<b>J</b>	<b>16</b>	<b>µg/Kg-dry</b>	1.43	7/11/2023 01:20 AM
Dibromochloromethane	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
Dichlorodifluoromethane	U		16	µg/Kg-dry	1.43	7/11/2023 01:20 AM
<b>Ethylbenzene</b>	<b>1.7</b>	<b>J</b>	<b>8.0</b>	<b>µg/Kg-dry</b>	1.43	7/11/2023 01:20 AM
Isopropylbenzene	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
m,p-Xylene	U		4.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
Methyl acetate	U		16	µg/Kg-dry	1.43	7/11/2023 01:20 AM
Methyl tert-butyl ether	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
<b>Methylcyclohexane</b>	<b>8.7</b>	<b>J</b>	<b>16</b>	<b>µg/Kg-dry</b>	1.43	7/11/2023 01:20 AM
Methylene chloride	U		16	µg/Kg-dry	1.43	7/11/2023 01:20 AM
o-Xylene	U		4.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
Styrene	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
Tetrachloroethene	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
<b>Toluene</b>	<b>5.2</b>	<b>J</b>	<b>8.0</b>	<b>µg/Kg-dry</b>	1.43	7/11/2023 01:20 AM
trans-1,2-Dichloroethene	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
trans-1,3-Dichloropropene	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
Trichloroethene	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
Trichlorofluoromethane	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
Vinyl chloride	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM

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

**ALS Group, USA****Date:** 18-Jul-2023**Client:** Tetra Tech**Project:** Boys and Girls Club**Work Order:** 23070106**Sample ID:** SB-6 (30-35)**Lab ID:** 23070106-12**Collection Date:** 6/27/2023 03:42 PM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	U		8.0	µg/Kg-dry	1.43	7/11/2023 01:20 AM
Surr: 1,2-Dichloroethane-d4	118		83-132	%REC	1.43	7/11/2023 01:20 AM
Surr: 4-Bromofluorobenzene	100		83-111	%REC	1.43	7/11/2023 01:20 AM
Surr: Dibromofluoromethane	102		77-125	%REC	1.43	7/11/2023 01:20 AM
Surr: Toluene-d8	96.7		86-108	%REC	1.43	7/11/2023 01:20 AM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	10		0.10	% of sample	1	7/7/2023 02:34 PM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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

# ALS Group, USA

Date: 18-Jul-2023

Client: Tetra Tech  
Project: Boys and Girls Club  
Sample ID: SB-7 (0-3)  
Collection Date: 6/28/2023 09:18 AM

Work Order: 23070106  
Lab ID: 23070106-13  
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>	Prep: SW7471 7/5/23 14:09		Analyst: <b>KRA</b>
Mercury	0.028		0.021	mg/Kg-dry	1	7/6/2023 01:32 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>	Prep: SW3050B 7/7/23 12:03		Analyst: <b>STP</b>
Aluminum	4,700		250	mg/Kg-dry	100	7/11/2023 03:47 PM
Antimony	0.29	J	0.31	mg/Kg-dry	1	7/7/2023 07:00 PM
Arsenic	4.7		0.31	mg/Kg-dry	1	7/7/2023 07:00 PM
Barium	74		0.31	mg/Kg-dry	1	7/7/2023 07:00 PM
Beryllium	0.88		0.13	mg/Kg-dry	1	7/7/2023 07:00 PM
Cadmium	0.16		0.13	mg/Kg-dry	1	7/7/2023 07:00 PM
Calcium	9,400		31	mg/Kg-dry	1	7/7/2023 07:00 PM
Chromium	6.4		0.31	mg/Kg-dry	1	7/7/2023 07:00 PM
Cobalt	4.1		0.31	mg/Kg-dry	1	7/7/2023 07:00 PM
Copper	16		0.31	mg/Kg-dry	1	7/7/2023 07:00 PM
Iron	11,000		13	mg/Kg-dry	1	7/7/2023 07:00 PM
Lead	25		0.31	mg/Kg-dry	1	7/7/2023 07:00 PM
Magnesium	1,900		13	mg/Kg-dry	1	7/7/2023 07:00 PM
Manganese	270		31	mg/Kg-dry	100	7/10/2023 11:30 PM
Nickel	15		0.31	mg/Kg-dry	1	7/7/2023 07:00 PM
Potassium	480		13	mg/Kg-dry	1	7/7/2023 07:00 PM
Selenium	U		0.31	mg/Kg-dry	1	7/7/2023 07:00 PM
Silver	0.049	J	0.31	mg/Kg-dry	1	7/7/2023 07:00 PM
Sodium	150		19	mg/Kg-dry	1	7/7/2023 07:00 PM
Thallium	U		3.1	mg/Kg-dry	10	7/12/2023 08:21 PM
Vanadium	11		0.31	mg/Kg-dry	1	7/7/2023 07:00 PM
Zinc	48		0.63	mg/Kg-dry	1	7/7/2023 07:00 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>	Prep: SW3546 7/10/23 15:46		Analyst: <b>EEW</b>
1,1'-Biphenyl	100		37	µg/Kg-dry	1	7/11/2023 07:33 PM
1,2,4,5-Tetrachlorobenzene	U		190	µg/Kg-dry	1	7/11/2023 07:33 PM
1,4-Dioxane	U		190	µg/Kg-dry	1	7/11/2023 07:33 PM
1-Methylnaphthalene	1,400		7.5	µg/Kg-dry	1	7/11/2023 07:33 PM
2,2'-Oxybis(1-chloropropane)	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
2,3,4,6-Tetrachlorophenol	U		76	µg/Kg-dry	1	7/11/2023 07:33 PM
2,4,5-Trichlorophenol	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
2,4,6-Trichlorophenol	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
2,4-Dichlorophenol	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
2,4-Dimethylphenol	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
2,4-Dinitrophenol	U		750	µg/Kg-dry	1	7/11/2023 07:33 PM
2,4-Dinitrotoluene	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-7 (0-3)  
**Collection Date:** 6/28/2023 09:18 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-13  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
2-Chloronaphthalene	U		7.5	µg/Kg-dry	1	7/11/2023 07:33 PM
2-Chlorophenol	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
<b>2-Methylnaphthalene</b>	<b>1,700</b>		<b>7.5</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:33 PM
2-Methylphenol	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
2-Nitroaniline	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
2-Nitrophenol	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
3&4-Methylphenol	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
3,3'-Dichlorobenzidine	U		190	µg/Kg-dry	1	7/11/2023 07:33 PM
3-Nitroaniline	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
4,6-Dinitro-2-methylphenol	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
4-Bromophenyl phenyl ether	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
4-Chloro-3-methylphenol	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
4-Chloroaniline	U		76	µg/Kg-dry	1	7/11/2023 07:33 PM
4-Chlorophenyl phenyl ether	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
4-Nitroaniline	U		190	µg/Kg-dry	1	7/11/2023 07:33 PM
4-Nitrophenol	U		190	µg/Kg-dry	1	7/11/2023 07:33 PM
Acenaphthene	U		7.5	µg/Kg-dry	1	7/11/2023 07:33 PM
Acenaphthylene	U		7.5	µg/Kg-dry	1	7/11/2023 07:33 PM
Acetophenone	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
<b>Anthracene</b>	<b>56</b>		<b>7.5</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:33 PM
Atrazine	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
Benzaldehyde	U		76	µg/Kg-dry	1	7/11/2023 07:33 PM
<b>Benzo(a)anthracene</b>	<b>89</b>		<b>7.5</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:33 PM
<b>Benzo(a)pyrene</b>	<b>110</b>		<b>7.5</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:33 PM
<b>Benzo(b)fluoranthene</b>	<b>120</b>		<b>7.5</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:33 PM
<b>Benzo(g,h,i)perylene</b>	<b>40</b>		<b>7.5</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:33 PM
<b>Benzo(k)fluoranthene</b>	<b>32</b>		<b>7.5</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:33 PM
Bis(2-chloroethoxy)methane	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
Bis(2-chloroethyl)ether	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
Bis(2-ethylhexyl)phthalate	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
Butyl benzyl phthalate	U		76	µg/Kg-dry	1	7/11/2023 07:33 PM
Caprolactam	U		76	µg/Kg-dry	1	7/11/2023 07:33 PM
Carbazole	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
<b>Chrysene</b>	<b>180</b>		<b>7.5</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:33 PM
<b>Dibenzo(a,h)anthracene</b>	<b>14</b>		<b>7.5</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:33 PM
Dibenzofuran	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
Diethyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
Dimethyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
Di-n-butyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-7 (0-3)  
**Collection Date:** 6/28/2023 09:18 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-13  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
<b>Fluoranthene</b>	<b>190</b>		<b>7.5</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:33 PM
Fluorene	U		7.5	µg/Kg-dry	1	7/11/2023 07:33 PM
Hexachlorobenzene	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
Hexachlorobutadiene	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
Hexachlorocyclopentadiene	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
Hexachloroethane	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
<b>Indeno(1,2,3-cd)pyrene</b>	<b>26</b>		<b>7.5</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:33 PM
Isophorone	U		190	µg/Kg-dry	1	7/11/2023 07:33 PM
<b>Naphthalene</b>	<b>540</b>		<b>7.5</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:33 PM
Nitrobenzene	U		190	µg/Kg-dry	1	7/11/2023 07:33 PM
N-Nitrosodi-n-propylamine	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
N-Nitrosodiphenylamine	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
Pentachlorophenol	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
<b>Phenanthrene</b>	<b>980</b>		<b>7.5</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:33 PM
Phenol	U		37	µg/Kg-dry	1	7/11/2023 07:33 PM
<b>Pyrene</b>	<b>160</b>		<b>7.5</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:33 PM
Pyridine	U		190	µg/Kg-dry	1	7/11/2023 07:33 PM
Surr: 2,4,6-Tribromophenol	74.2		48-94	%REC	1	7/11/2023 07:33 PM
Surr: 2-Fluorobiphenyl	82.9		50-103	%REC	1	7/11/2023 07:33 PM
Surr: 2-Fluorophenol	67.9		43-105	%REC	1	7/11/2023 07:33 PM
Surr: 4-Terphenyl-d14	81.9		55-111	%REC	1	7/11/2023 07:33 PM
Surr: Nitrobenzene-d5	78.1		47-100	%REC	1	7/11/2023 07:33 PM
Surr: Phenol-d6	69.3		49-110	%REC	1	7/11/2023 07:33 PM

## VOLATILE ORGANIC COMPOUNDS - LOW LEVEL

SW8260D

Analyst: BAM

1,1,1-Trichloroethane	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
1,1,2,2-Tetrachloroethane	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
1,1,2-Trichloroethane	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
1,1,2-Trichlorotrifluoroethane	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
1,1-Dichloroethane	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
1,1-Dichloroethene	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
1,2,3-Trichlorobenzene	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
1,2,3-Trichloropropane	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
1,2,4-Trichlorobenzene	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
1,2,4-Trimethylbenzene	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
1,2-Dibromo-3-chloropropane	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
1,2-Dibromoethane	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
1,2-Dichlorobenzene	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
1,2-Dichloroethane	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-7 (0-3)  
**Collection Date:** 6/28/2023 09:18 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-13  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
1,3,5-Trimethylbenzene	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
1,3-Dichlorobenzene	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
1,4-Dichlorobenzene	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
2-Butanone	U		12	µg/Kg-dry	0.977	7/11/2023 06:53 AM
2-Hexanone	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
4-Methyl-2-pentanone	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
<b>Acetone</b>	<b>19</b>		<b>12</b>	<b>µg/Kg-dry</b>	0.977	7/11/2023 06:53 AM
Benzene	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
Bromochloromethane	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
Bromodichloromethane	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
Bromoform	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
Bromomethane	U		12	µg/Kg-dry	0.977	7/11/2023 06:53 AM
<b>Carbon disulfide</b>	<b>0.94</b>	J	<b>5.8</b>	<b>µg/Kg-dry</b>	0.977	7/11/2023 06:53 AM
Carbon tetrachloride	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
Chlorobenzene	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
Chloroethane	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
Chloroform	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
Chloromethane	U		12	µg/Kg-dry	0.977	7/11/2023 06:53 AM
cis-1,2-Dichloroethene	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
cis-1,3-Dichloropropene	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
<b>Cyclohexane</b>	<b>2.5</b>	J	<b>12</b>	<b>µg/Kg-dry</b>	0.977	7/11/2023 06:53 AM
Dibromochloromethane	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
Dichlorodifluoromethane	U		12	µg/Kg-dry	0.977	7/11/2023 06:53 AM
Ethylbenzene	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
Isopropylbenzene	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
m,p-Xylene	U		2.9	µg/Kg-dry	0.977	7/11/2023 06:53 AM
Methyl acetate	U		12	µg/Kg-dry	0.977	7/11/2023 06:53 AM
Methyl tert-butyl ether	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
<b>Methylcyclohexane</b>	<b>4.0</b>	J	<b>12</b>	<b>µg/Kg-dry</b>	0.977	7/11/2023 06:53 AM
Methylene chloride	U		12	µg/Kg-dry	0.977	7/11/2023 06:53 AM
o-Xylene	U		2.9	µg/Kg-dry	0.977	7/11/2023 06:53 AM
Styrene	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
Tetrachloroethene	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
Toluene	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
trans-1,2-Dichloroethene	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
trans-1,3-Dichloropropene	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
Trichloroethene	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
Trichlorofluoromethane	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
Vinyl chloride	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM

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



**ALS Group, USA****Date:** 18-Jul-2023**Client:** Tetra Tech**Project:** Boys and Girls Club**Sample ID:** SB-7 (0-3)**Collection Date:** 6/28/2023 09:18 AM**Work Order:** 23070106**Lab ID:** 23070106-13**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	U		5.8	µg/Kg-dry	0.977	7/11/2023 06:53 AM
Surr: 1,2-Dichloroethane-d4	125		83-132	%REC	0.977	7/11/2023 06:53 AM
Surr: 4-Bromofluorobenzene	95.6		83-111	%REC	0.977	7/11/2023 06:53 AM
Surr: Dibromofluoromethane	106		77-125	%REC	0.977	7/11/2023 06:53 AM
Surr: Toluene-d8	95.9		86-108	%REC	0.977	7/11/2023 06:53 AM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	16		0.10	% of sample	1	7/12/2023 11:44 AM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-7 (12-15)  
**Collection Date:** 6/28/2023 09:38 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-14  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>		Prep: SW7471 7/5/23 14:09	Analyst: <b>KRA</b>
Mercury	0.069		0.019	mg/Kg-dry	1	7/6/2023 01:34 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>		Prep: SW3050B 7/7/23 12:03	Analyst: <b>STP</b>
Aluminum	6,000		250	mg/Kg-dry	100	7/11/2023 03:49 PM
Antimony	0.48		0.31	mg/Kg-dry	1	7/7/2023 07:02 PM
Arsenic	8.1		0.31	mg/Kg-dry	1	7/7/2023 07:02 PM
Barium	250		3.1	mg/Kg-dry	10	7/11/2023 12:00 AM
Beryllium	0.58		0.13	mg/Kg-dry	1	7/7/2023 07:02 PM
Cadmium	0.27		0.13	mg/Kg-dry	1	7/7/2023 07:02 PM
Calcium	23,000		310	mg/Kg-dry	10	7/11/2023 12:00 AM
Chromium	8.3		0.31	mg/Kg-dry	1	7/7/2023 07:02 PM
Cobalt	5.9		0.31	mg/Kg-dry	1	7/7/2023 07:02 PM
Copper	14		0.31	mg/Kg-dry	1	7/7/2023 07:02 PM
Iron	16,000		130	mg/Kg-dry	10	7/11/2023 12:00 AM
Lead	42		0.31	mg/Kg-dry	1	7/7/2023 07:02 PM
Magnesium	8,500		13	mg/Kg-dry	1	7/7/2023 07:02 PM
Manganese	460		3.1	mg/Kg-dry	10	7/11/2023 12:00 AM
Nickel	17		0.31	mg/Kg-dry	1	7/7/2023 07:02 PM
Potassium	1,100		13	mg/Kg-dry	1	7/7/2023 07:02 PM
Selenium	U		3.1	mg/Kg-dry	10	7/11/2023 12:00 AM
Silver	0.10	J	0.31	mg/Kg-dry	1	7/7/2023 07:02 PM
Sodium	610		19	mg/Kg-dry	1	7/7/2023 07:02 PM
Thallium	U		3.5	mg/Kg-dry	10	7/12/2023 08:23 PM
Vanadium	19		0.31	mg/Kg-dry	1	7/7/2023 07:02 PM
Zinc	67		0.63	mg/Kg-dry	1	7/7/2023 07:02 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>		Prep: SW3546 7/10/23 15:46	Analyst: <b>EEW</b>
1,1'-Biphenyl	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
1,2,4,5-Tetrachlorobenzene	U		200	µg/Kg-dry	1	7/11/2023 07:56 PM
1,4-Dioxane	U		200	µg/Kg-dry	1	7/11/2023 07:56 PM
1-Methylnaphthalene	33		7.9	µg/Kg-dry	1	7/11/2023 07:56 PM
2,2'-Oxybis(1-chloropropane)	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
2,3,4,6-Tetrachlorophenol	U		79	µg/Kg-dry	1	7/11/2023 07:56 PM
2,4,5-Trichlorophenol	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
2,4,6-Trichlorophenol	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
2,4-Dichlorophenol	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
2,4-Dimethylphenol	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
2,4-Dinitrophenol	U		790	µg/Kg-dry	1	7/11/2023 07:56 PM
2,4-Dinitrotoluene	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-7 (12-15)  
**Collection Date:** 6/28/2023 09:38 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-14  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
2-Chloronaphthalene	U		7.9	µg/Kg-dry	1	7/11/2023 07:56 PM
2-Chlorophenol	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
<b>2-Methylnaphthalene</b>	<b>36</b>		<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:56 PM
2-Methylphenol	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
2-Nitroaniline	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
2-Nitrophenol	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
3&4-Methylphenol	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
3,3'-Dichlorobenzidine	U		200	µg/Kg-dry	1	7/11/2023 07:56 PM
3-Nitroaniline	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
4,6-Dinitro-2-methylphenol	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
4-Bromophenyl phenyl ether	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
4-Chloro-3-methylphenol	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
4-Chloroaniline	U		79	µg/Kg-dry	1	7/11/2023 07:56 PM
4-Chlorophenyl phenyl ether	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
4-Nitroaniline	U		200	µg/Kg-dry	1	7/11/2023 07:56 PM
4-Nitrophenol	U		200	µg/Kg-dry	1	7/11/2023 07:56 PM
<b>Acenaphthene</b>	<b>8.6</b>		<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:56 PM
Acenaphthylene	U		7.9	µg/Kg-dry	1	7/11/2023 07:56 PM
Acetophenone	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
<b>Anthracene</b>	<b>25</b>		<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:56 PM
Atrazine	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
Benzaldehyde	U		79	µg/Kg-dry	1	7/11/2023 07:56 PM
<b>Benzo(a)anthracene</b>	<b>51</b>		<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:56 PM
<b>Benzo(a)pyrene</b>	<b>55</b>		<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:56 PM
<b>Benzo(b)fluoranthene</b>	<b>78</b>		<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:56 PM
<b>Benzo(g,h,i)perylene</b>	<b>28</b>		<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:56 PM
<b>Benzo(k)fluoranthene</b>	<b>28</b>		<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:56 PM
Bis(2-chloroethoxy)methane	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
Bis(2-chloroethyl)ether	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
Bis(2-ethylhexyl)phthalate	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
Butyl benzyl phthalate	U		79	µg/Kg-dry	1	7/11/2023 07:56 PM
Caprolactam	U		79	µg/Kg-dry	1	7/11/2023 07:56 PM
Carbazole	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
<b>Chrysene</b>	<b>53</b>		<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:56 PM
<b>Dibenzo(a,h)anthracene</b>	<b>11</b>		<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:56 PM
Dibenzofuran	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
Diethyl phthalate	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
Dimethyl phthalate	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
Di-n-butyl phthalate	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-7 (12-15)  
**Collection Date:** 6/28/2023 09:38 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-14  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
<b>Fluoranthene</b>	<b>100</b>		<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:56 PM
<b>Fluorene</b>	<b>11</b>		<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:56 PM
Hexachlorobenzene	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
Hexachlorobutadiene	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
Hexachlorocyclopentadiene	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
Hexachloroethane	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
<b>Indeno(1,2,3-cd)pyrene</b>	<b>31</b>		<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:56 PM
Isophorone	U		200	µg/Kg-dry	1	7/11/2023 07:56 PM
<b>Naphthalene</b>	<b>17</b>		<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:56 PM
Nitrobenzene	U		200	µg/Kg-dry	1	7/11/2023 07:56 PM
N-Nitrosodi-n-propylamine	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
N-Nitrosodiphenylamine	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
Pentachlorophenol	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
<b>Phenanthrene</b>	<b>120</b>		<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:56 PM
Phenol	U		39	µg/Kg-dry	1	7/11/2023 07:56 PM
<b>Pyrene</b>	<b>83</b>		<b>7.9</b>	<b>µg/Kg-dry</b>	1	7/11/2023 07:56 PM
Pyridine	U		200	µg/Kg-dry	1	7/11/2023 07:56 PM
Surr: 2,4,6-Tribromophenol	77.3		48-94	%REC	1	7/11/2023 07:56 PM
Surr: 2-Fluorobiphenyl	82.8		50-103	%REC	1	7/11/2023 07:56 PM
Surr: 2-Fluorophenol	78.9		43-105	%REC	1	7/11/2023 07:56 PM
Surr: 4-Terphenyl-d14	84.0		55-111	%REC	1	7/11/2023 07:56 PM
Surr: Nitrobenzene-d5	81.8		47-100	%REC	1	7/11/2023 07:56 PM
Surr: Phenol-d6	80.0		49-110	%REC	1	7/11/2023 07:56 PM

## VOLATILE ORGANIC COMPOUNDS - LOW LEVEL

SW8260D

Analyst: BAM

1,1,1-Trichloroethane	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
1,1,2,2-Tetrachloroethane	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
1,1,2-Trichloroethane	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
1,1,2-Trichlorotrifluoroethane	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
1,1-Dichloroethane	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
1,1-Dichloroethene	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
1,2,3-Trichlorobenzene	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
1,2,3-Trichloropropane	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
1,2,4-Trichlorobenzene	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
1,2,4-Trimethylbenzene	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
1,2-Dibromo-3-chloropropane	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
1,2-Dibromoethane	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
1,2-Dichlorobenzene	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
1,2-Dichloroethane	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-7 (12-15)  
**Collection Date:** 6/28/2023 09:38 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-14  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
1,3,5-Trimethylbenzene	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
1,3-Dichlorobenzene	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
1,4-Dichlorobenzene	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
2-Butanone	U		15	µg/Kg-dry	1.23	7/11/2023 01:53 AM
2-Hexanone	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
4-Methyl-2-pentanone	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
<b>Acetone</b>	<b>33</b>		<b>15</b>	<b>µg/Kg-dry</b>	1.23	7/11/2023 01:53 AM
Benzene	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Bromochloromethane	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Bromodichloromethane	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Bromoform	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Bromomethane	U		15	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Carbon disulfide	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Carbon tetrachloride	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Chlorobenzene	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Chloroethane	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Chloroform	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Chloromethane	U		15	µg/Kg-dry	1.23	7/11/2023 01:53 AM
cis-1,2-Dichloroethene	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
cis-1,3-Dichloropropene	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Cyclohexane	U		15	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Dibromochloromethane	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Dichlorodifluoromethane	U		15	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Ethylbenzene	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Isopropylbenzene	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
m,p-Xylene	U		3.6	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Methyl acetate	U		15	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Methyl tert-butyl ether	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
<b>Methylcyclohexane</b>	<b>2.5</b>	J	<b>15</b>	<b>µg/Kg-dry</b>	1.23	7/11/2023 01:53 AM
Methylene chloride	U		15	µg/Kg-dry	1.23	7/11/2023 01:53 AM
o-Xylene	U		3.6	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Styrene	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Tetrachloroethene	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Toluene	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
trans-1,2-Dichloroethene	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
trans-1,3-Dichloropropene	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Trichloroethene	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Trichlorofluoromethane	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Vinyl chloride	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM

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

**ALS Group, USA****Date:** 18-Jul-2023**Client:** Tetra Tech**Project:** Boys and Girls Club**Sample ID:** SB-7 (12-15)**Collection Date:** 6/28/2023 09:38 AM**Work Order:** 23070106**Lab ID:** 23070106-14**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	U		7.3	µg/Kg-dry	1.23	7/11/2023 01:53 AM
Surr: 1,2-Dichloroethane-d4	119		83-132	%REC	1.23	7/11/2023 01:53 AM
Surr: 4-Bromofluorobenzene	94.1		83-111	%REC	1.23	7/11/2023 01:53 AM
Surr: Dibromofluoromethane	103		77-125	%REC	1.23	7/11/2023 01:53 AM
Surr: Toluene-d8	97.5		86-108	%REC	1.23	7/11/2023 01:53 AM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	16		0.10	% of sample	1	7/12/2023 11:44 AM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-8 (0-10)  
**Collection Date:** 6/28/2023 10:25 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-15  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>		Prep: SW7471 7/5/23 14:09	Analyst: <b>KRA</b>
Mercury	0.10		0.021	mg/Kg-dry	1	7/6/2023 01:36 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>		Prep: SW3050B 7/7/23 12:03	Analyst: <b>STP</b>
Aluminum	6,200		270	mg/Kg-dry	100	7/11/2023 03:50 PM
Antimony	0.24	J	0.34	mg/Kg-dry	1	7/7/2023 07:04 PM
Arsenic	6.1		0.34	mg/Kg-dry	1	7/7/2023 07:04 PM
Barium	170		3.4	mg/Kg-dry	10	7/11/2023 12:02 AM
Beryllium	0.40		0.14	mg/Kg-dry	1	7/7/2023 07:04 PM
Cadmium	0.21		0.14	mg/Kg-dry	1	7/7/2023 07:04 PM
Calcium	50,000		340	mg/Kg-dry	10	7/11/2023 12:02 AM
Chromium	9.0		0.34	mg/Kg-dry	1	7/7/2023 07:04 PM
Cobalt	5.1		0.34	mg/Kg-dry	1	7/7/2023 07:04 PM
Copper	10		0.34	mg/Kg-dry	1	7/7/2023 07:04 PM
Iron	10,000		14	mg/Kg-dry	1	7/7/2023 07:04 PM
Lead	34		0.34	mg/Kg-dry	1	7/7/2023 07:04 PM
Magnesium	11,000		14	mg/Kg-dry	1	7/7/2023 07:04 PM
Manganese	690		3.4	mg/Kg-dry	10	7/11/2023 12:02 AM
Nickel	14		0.34	mg/Kg-dry	1	7/7/2023 07:04 PM
Potassium	870		14	mg/Kg-dry	1	7/7/2023 07:04 PM
Selenium	U		3.4	mg/Kg-dry	10	7/11/2023 12:02 AM
Silver	0.068	J	0.34	mg/Kg-dry	1	7/7/2023 07:04 PM
Sodium	100		20	mg/Kg-dry	1	7/7/2023 07:04 PM
Thallium	U		2.8	mg/Kg-dry	10	7/12/2023 08:25 PM
Vanadium	17		0.34	mg/Kg-dry	1	7/7/2023 07:04 PM
Zinc	53		0.68	mg/Kg-dry	1	7/7/2023 07:04 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>		Prep: SW3546 7/10/23 15:46	Analyst: <b>EEW</b>
1,1'-Biphenyl	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
1,2,4,5-Tetrachlorobenzene	U		1,800	µg/Kg-dry	10	7/11/2023 08:18 PM
1,4-Dioxane	U		1,800	µg/Kg-dry	10	7/11/2023 08:18 PM
1-Methylnaphthalene	57	J	71	µg/Kg-dry	10	7/11/2023 08:18 PM
2,2'-Oxybis(1-chloropropane)	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
2,3,4,6-Tetrachlorophenol	U		710	µg/Kg-dry	10	7/11/2023 08:18 PM
2,4,5-Trichlorophenol	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
2,4,6-Trichlorophenol	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
2,4-Dichlorophenol	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
2,4-Dimethylphenol	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
2,4-Dinitrophenol	U		7,100	µg/Kg-dry	10	7/11/2023 08:18 PM
2,4-Dinitrotoluene	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-8 (0-10)  
**Collection Date:** 6/28/2023 10:25 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-15  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
2-Chloronaphthalene	U		71	µg/Kg-dry	10	7/11/2023 08:18 PM
2-Chlorophenol	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
<b>2-Methylnaphthalene</b>	<b>57</b>	J	<b>71</b>	<b>µg/Kg-dry</b>	10	7/11/2023 08:18 PM
2-Methylphenol	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
2-Nitroaniline	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
2-Nitrophenol	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
3&4-Methylphenol	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
3,3'-Dichlorobenzidine	U		1,800	µg/Kg-dry	10	7/11/2023 08:18 PM
3-Nitroaniline	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
4,6-Dinitro-2-methylphenol	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
4-Bromophenyl phenyl ether	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
4-Chloro-3-methylphenol	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
4-Chloroaniline	U		710	µg/Kg-dry	10	7/11/2023 08:18 PM
4-Chlorophenyl phenyl ether	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
4-Nitroaniline	U		1,800	µg/Kg-dry	10	7/11/2023 08:18 PM
4-Nitrophenol	U		1,800	µg/Kg-dry	10	7/11/2023 08:18 PM
Acenaphthene	U		71	µg/Kg-dry	10	7/11/2023 08:18 PM
Acenaphthylene	U		71	µg/Kg-dry	10	7/11/2023 08:18 PM
Acetophenone	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
<b>Anthracene</b>	<b>71</b>		<b>71</b>	<b>µg/Kg-dry</b>	10	7/11/2023 08:18 PM
Atrazine	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
Benzaldehyde	U		710	µg/Kg-dry	10	7/11/2023 08:18 PM
<b>Benzo(a)anthracene</b>	<b>160</b>		<b>71</b>	<b>µg/Kg-dry</b>	10	7/11/2023 08:18 PM
<b>Benzo(a)pyrene</b>	<b>160</b>		<b>71</b>	<b>µg/Kg-dry</b>	10	7/11/2023 08:18 PM
<b>Benzo(b)fluoranthene</b>	<b>170</b>		<b>71</b>	<b>µg/Kg-dry</b>	10	7/11/2023 08:18 PM
<b>Benzo(g,h,i)perylene</b>	<b>78</b>		<b>71</b>	<b>µg/Kg-dry</b>	10	7/11/2023 08:18 PM
<b>Benzo(k)fluoranthene</b>	<b>99</b>		<b>71</b>	<b>µg/Kg-dry</b>	10	7/11/2023 08:18 PM
Bis(2-chloroethoxy)methane	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
Bis(2-chloroethyl)ether	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
Bis(2-ethylhexyl)phthalate	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
Butyl benzyl phthalate	U		710	µg/Kg-dry	10	7/11/2023 08:18 PM
Caprolactam	U		710	µg/Kg-dry	10	7/11/2023 08:18 PM
Carbazole	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
<b>Chrysene</b>	<b>110</b>		<b>71</b>	<b>µg/Kg-dry</b>	10	7/11/2023 08:18 PM
Dibenzo(a,h)anthracene	U		71	µg/Kg-dry	10	7/11/2023 08:18 PM
Dibenzofuran	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
Diethyl phthalate	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
Dimethyl phthalate	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
Di-n-butyl phthalate	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM

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



# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-8 (0-10)  
**Collection Date:** 6/28/2023 10:25 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-15  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
<b>Fluoranthene</b>	<b>250</b>		<b>71</b>	<b>µg/Kg-dry</b>	10	7/11/2023 08:18 PM
Fluorene	U		71	µg/Kg-dry	10	7/11/2023 08:18 PM
Hexachlorobenzene	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
Hexachlorobutadiene	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
Hexachlorocyclopentadiene	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
Hexachloroethane	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
<b>Indeno(1,2,3-cd)pyrene</b>	<b>78</b>		<b>71</b>	<b>µg/Kg-dry</b>	10	7/11/2023 08:18 PM
Isophorone	U		1,800	µg/Kg-dry	10	7/11/2023 08:18 PM
Naphthalene	U		71	µg/Kg-dry	10	7/11/2023 08:18 PM
Nitrobenzene	U		1,800	µg/Kg-dry	10	7/11/2023 08:18 PM
N-Nitrosodi-n-propylamine	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
N-Nitrosodiphenylamine	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
Pentachlorophenol	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
<b>Phenanthrene</b>	<b>170</b>		<b>71</b>	<b>µg/Kg-dry</b>	10	7/11/2023 08:18 PM
Phenol	U		350	µg/Kg-dry	10	7/11/2023 08:18 PM
<b>Pyrene</b>	<b>230</b>		<b>71</b>	<b>µg/Kg-dry</b>	10	7/11/2023 08:18 PM
Pyridine	U		1,800	µg/Kg-dry	10	7/11/2023 08:18 PM
Surr: 2,4,6-Tribromophenol	18.4	S	48-94	%REC	10	7/11/2023 08:18 PM
Surr: 2-Fluorobiphenyl	80.4		50-103	%REC	10	7/11/2023 08:18 PM
Surr: 2-Fluorophenol	55.8		43-105	%REC	10	7/11/2023 08:18 PM
Surr: 4-Terphenyl-d14	87.2		55-111	%REC	10	7/11/2023 08:18 PM
Surr: Nitrobenzene-d5	82.0		47-100	%REC	10	7/11/2023 08:18 PM
Surr: Phenol-d6	74.0		49-110	%REC	10	7/11/2023 08:18 PM

## VOLATILE ORGANIC COMPOUNDS - LOW LEVEL

SW8260D

Analyst: BAM

1,1,1-Trichloroethane	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
1,1,2,2-Tetrachloroethane	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
1,1,2-Trichloroethane	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
1,1,2-Trichlorotrifluoroethane	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
1,1-Dichloroethane	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
1,1-Dichloroethene	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
1,2,3-Trichlorobenzene	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
1,2,3-Trichloropropane	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
1,2,4-Trichlorobenzene	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
1,2,4-Trimethylbenzene	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
1,2-Dibromo-3-chloropropane	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
1,2-Dibromoethane	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
1,2-Dichlorobenzene	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
1,2-Dichloroethane	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-8 (0-10)  
**Collection Date:** 6/28/2023 10:25 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-15  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
1,3,5-Trimethylbenzene	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
1,3-Dichlorobenzene	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
1,4-Dichlorobenzene	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
2-Butanone	U		13	µg/Kg-dry	1.19	7/11/2023 02:10 AM
2-Hexanone	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
4-Methyl-2-pentanone	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
<b>Acetone</b>	<b>22</b>		<b>13</b>	<b>µg/Kg-dry</b>	1.19	7/11/2023 02:10 AM
Benzene	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
Bromochloromethane	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
Bromodichloromethane	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
Bromoform	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
Bromomethane	U		13	µg/Kg-dry	1.19	7/11/2023 02:10 AM
<b>Carbon disulfide</b>	<b>2.3</b>	J	<b>6.5</b>	<b>µg/Kg-dry</b>	1.19	7/11/2023 02:10 AM
Carbon tetrachloride	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
Chlorobenzene	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
Chloroethane	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
Chloroform	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
Chloromethane	U		13	µg/Kg-dry	1.19	7/11/2023 02:10 AM
cis-1,2-Dichloroethene	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
cis-1,3-Dichloropropene	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
<b>Cyclohexane</b>	<b>2.6</b>	J	<b>13</b>	<b>µg/Kg-dry</b>	1.19	7/11/2023 02:10 AM
Dibromochloromethane	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
Dichlorodifluoromethane	U		13	µg/Kg-dry	1.19	7/11/2023 02:10 AM
Ethylbenzene	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
Isopropylbenzene	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
m,p-Xylene	U		3.2	µg/Kg-dry	1.19	7/11/2023 02:10 AM
Methyl acetate	U		13	µg/Kg-dry	1.19	7/11/2023 02:10 AM
Methyl tert-butyl ether	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
<b>Methylcyclohexane</b>	<b>4.1</b>	J	<b>13</b>	<b>µg/Kg-dry</b>	1.19	7/11/2023 02:10 AM
Methylene chloride	U		13	µg/Kg-dry	1.19	7/11/2023 02:10 AM
o-Xylene	U		3.2	µg/Kg-dry	1.19	7/11/2023 02:10 AM
Styrene	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
Tetrachloroethene	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
Toluene	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
trans-1,2-Dichloroethene	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
trans-1,3-Dichloropropene	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
Trichloroethene	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
Trichlorofluoromethane	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
Vinyl chloride	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-8 (0-10)  
**Collection Date:** 6/28/2023 10:25 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-15  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	U		6.5	µg/Kg-dry	1.19	7/11/2023 02:10 AM
Surr: 1,2-Dichloroethane-d4	125		83-132	%REC	1.19	7/11/2023 02:10 AM
Surr: 4-Bromofluorobenzene	99.8		83-111	%REC	1.19	7/11/2023 02:10 AM
Surr: Dibromofluoromethane	96.0		77-125	%REC	1.19	7/11/2023 02:10 AM
Surr: Toluene-d8	96.4		86-108	%REC	1.19	7/11/2023 02:10 AM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	7.8		0.10	% of sample	1	7/12/2023 11:44 AM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-8 (32-35)  
**Collection Date:** 6/28/2023 10:47 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-16  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>	Prep: SW7471 7/5/23 14:09		Analyst: <b>KRA</b>
Mercury	0.038		0.018	mg/Kg-dry	1	7/6/2023 01:37 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>	Prep: SW3050B 7/7/23 12:03		Analyst: <b>STP</b>
Aluminum	5,900		270	mg/Kg-dry	100	7/11/2023 03:52 PM
Antimony	U		3.4	mg/Kg-dry	10	7/11/2023 12:04 AM
Arsenic	9.7		3.4	mg/Kg-dry	10	7/11/2023 12:04 AM
Barium	320		3.4	mg/Kg-dry	10	7/11/2023 12:04 AM
Beryllium	0.47		0.14	mg/Kg-dry	1	7/7/2023 07:09 PM
Cadmium	0.33		0.14	mg/Kg-dry	1	7/7/2023 07:09 PM
Calcium	24,000		340	mg/Kg-dry	10	7/11/2023 12:04 AM
Chromium	20		0.34	mg/Kg-dry	1	7/7/2023 07:09 PM
Cobalt	9.2		3.4	mg/Kg-dry	10	7/11/2023 12:04 AM
Copper	28		0.34	mg/Kg-dry	1	7/7/2023 07:09 PM
Iron	16,000		140	mg/Kg-dry	10	7/11/2023 12:04 AM
Lead	11		0.34	mg/Kg-dry	1	7/7/2023 07:09 PM
Magnesium	12,000		140	mg/Kg-dry	10	7/11/2023 12:04 AM
Manganese	1,200		3.4	mg/Kg-dry	10	7/11/2023 12:04 AM
Nickel	46		0.34	mg/Kg-dry	1	7/7/2023 07:09 PM
Potassium	1,300		140	mg/Kg-dry	10	7/11/2023 12:04 AM
Selenium	U		3.4	mg/Kg-dry	10	7/11/2023 12:04 AM
Silver	U		3.4	mg/Kg-dry	10	7/11/2023 12:04 AM
Sodium	2,400		21	mg/Kg-dry	1	7/7/2023 07:09 PM
Thallium	U		3.4	mg/Kg-dry	10	7/12/2023 08:27 PM
Vanadium	22		3.4	mg/Kg-dry	10	7/11/2023 12:04 AM
Zinc	100		0.69	mg/Kg-dry	1	7/7/2023 07:09 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>	Prep: SW3546 7/10/23 15:46		Analyst: <b>EEW</b>
1,1'-Biphenyl	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
1,2,4,5-Tetrachlorobenzene	U		190	µg/Kg-dry	1	7/11/2023 08:41 PM
1,4-Dioxane	U		190	µg/Kg-dry	1	7/11/2023 08:41 PM
1-Methylnaphthalene	U		7.5	µg/Kg-dry	1	7/11/2023 08:41 PM
2,2'-Oxybis(1-chloropropane)	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
2,3,4,6-Tetrachlorophenol	U		76	µg/Kg-dry	1	7/11/2023 08:41 PM
2,4,5-Trichlorophenol	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
2,4,6-Trichlorophenol	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
2,4-Dichlorophenol	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
2,4-Dimethylphenol	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
2,4-Dinitrophenol	U		750	µg/Kg-dry	1	7/11/2023 08:41 PM
2,4-Dinitrotoluene	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-8 (32-35)  
**Collection Date:** 6/28/2023 10:47 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-16  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
2-Chloronaphthalene	U		7.5	µg/Kg-dry	1	7/11/2023 08:41 PM
2-Chlorophenol	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
2-Methylnaphthalene	U		7.5	µg/Kg-dry	1	7/11/2023 08:41 PM
2-Methylphenol	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
2-Nitroaniline	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
2-Nitrophenol	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
3&4-Methylphenol	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
3,3'-Dichlorobenzidine	U		190	µg/Kg-dry	1	7/11/2023 08:41 PM
3-Nitroaniline	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
4,6-Dinitro-2-methylphenol	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
4-Bromophenyl phenyl ether	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
4-Chloro-3-methylphenol	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
4-Chloroaniline	U		76	µg/Kg-dry	1	7/11/2023 08:41 PM
4-Chlorophenyl phenyl ether	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
4-Nitroaniline	U		190	µg/Kg-dry	1	7/11/2023 08:41 PM
4-Nitrophenol	U		190	µg/Kg-dry	1	7/11/2023 08:41 PM
Acenaphthene	U		7.5	µg/Kg-dry	1	7/11/2023 08:41 PM
Acenaphthylene	U		7.5	µg/Kg-dry	1	7/11/2023 08:41 PM
Acetophenone	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
Anthracene	U		7.5	µg/Kg-dry	1	7/11/2023 08:41 PM
Atrazine	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
Benzaldehyde	U		76	µg/Kg-dry	1	7/11/2023 08:41 PM
Benzo(a)anthracene	U		7.5	µg/Kg-dry	1	7/11/2023 08:41 PM
Benzo(a)pyrene	U		7.5	µg/Kg-dry	1	7/11/2023 08:41 PM
Benzo(b)fluoranthene	U		7.5	µg/Kg-dry	1	7/11/2023 08:41 PM
Benzo(g,h,i)perylene	U		7.5	µg/Kg-dry	1	7/11/2023 08:41 PM
Benzo(k)fluoranthene	U		7.5	µg/Kg-dry	1	7/11/2023 08:41 PM
Bis(2-chloroethoxy)methane	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
Bis(2-chloroethyl)ether	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
Bis(2-ethylhexyl)phthalate	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
Butyl benzyl phthalate	U		76	µg/Kg-dry	1	7/11/2023 08:41 PM
Caprolactam	U		76	µg/Kg-dry	1	7/11/2023 08:41 PM
Carbazole	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
Chrysene	U		7.5	µg/Kg-dry	1	7/11/2023 08:41 PM
Dibenzo(a,h)anthracene	U		7.5	µg/Kg-dry	1	7/11/2023 08:41 PM
Dibenzofuran	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
Diethyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
Dimethyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
Di-n-butyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-8 (32-35)  
**Collection Date:** 6/28/2023 10:47 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-16  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
<b>Fluoranthene</b>	<b>6.0</b>	<b>J</b>	<b>7.5</b>	<b>µg/Kg-dry</b>	<b>1</b>	7/11/2023 08:41 PM
Fluorene	U		7.5	µg/Kg-dry	1	7/11/2023 08:41 PM
Hexachlorobenzene	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
Hexachlorobutadiene	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
Hexachlorocyclopentadiene	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
Hexachloroethane	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
Indeno(1,2,3-cd)pyrene	U		7.5	µg/Kg-dry	1	7/11/2023 08:41 PM
Isophorone	U		190	µg/Kg-dry	1	7/11/2023 08:41 PM
Naphthalene	U		7.5	µg/Kg-dry	1	7/11/2023 08:41 PM
Nitrobenzene	U		190	µg/Kg-dry	1	7/11/2023 08:41 PM
N-Nitrosodi-n-propylamine	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
N-Nitrosodiphenylamine	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
Pentachlorophenol	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
Phenanthrene	U		7.5	µg/Kg-dry	1	7/11/2023 08:41 PM
Phenol	U		37	µg/Kg-dry	1	7/11/2023 08:41 PM
Pyrene	U		7.5	µg/Kg-dry	1	7/11/2023 08:41 PM
Pyridine	U		190	µg/Kg-dry	1	7/11/2023 08:41 PM
Surr: 2,4,6-Tribromophenol	36.2	S	48-94	%REC	1	7/11/2023 08:41 PM
Surr: 2-Fluorobiphenyl	81.7		50-103	%REC	1	7/11/2023 08:41 PM
Surr: 2-Fluorophenol	41.9	S	43-105	%REC	1	7/11/2023 08:41 PM
Surr: 4-Terphenyl-d14	85.4		55-111	%REC	1	7/11/2023 08:41 PM
Surr: Nitrobenzene-d5	78.5		47-100	%REC	1	7/11/2023 08:41 PM
Surr: Phenol-d6	52.6		49-110	%REC	1	7/11/2023 08:41 PM

## VOLATILE ORGANIC COMPOUNDS - LOW LEVEL

SW8260D

Analyst: BAM

1,1,1-Trichloroethane	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
1,1,2,2-Tetrachloroethane	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
1,1,2-Trichloroethane	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
1,1,2-Trichlorotrifluoroethane	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
1,1-Dichloroethane	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
1,1-Dichloroethene	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
1,2,3-Trichlorobenzene	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
1,2,3-Trichloropropane	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
1,2,4-Trichlorobenzene	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
1,2,4-Trimethylbenzene	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
1,2-Dibromo-3-chloropropane	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
1,2-Dibromoethane	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
1,2-Dichlorobenzene	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
1,2-Dichloroethane	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-8 (32-35)  
**Collection Date:** 6/28/2023 10:47 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-16  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
1,3,5-Trimethylbenzene	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
1,3-Dichlorobenzene	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
1,4-Dichlorobenzene	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
2-Butanone	U		14	µg/Kg-dry	1.2	7/11/2023 02:27 AM
2-Hexanone	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
4-Methyl-2-pentanone	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
<b>Acetone</b>	<b>12</b>	J	<b>14</b>	<b>µg/Kg-dry</b>	1.2	7/11/2023 02:27 AM
<b>Benzene</b>	<b>2.1</b>	J	<b>6.9</b>	<b>µg/Kg-dry</b>	1.2	7/11/2023 02:27 AM
Bromochloromethane	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
Bromodichloromethane	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
Bromoform	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
Bromomethane	U		14	µg/Kg-dry	1.2	7/11/2023 02:27 AM
Carbon disulfide	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
Carbon tetrachloride	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
Chlorobenzene	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
Chloroethane	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
Chloroform	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
Chloromethane	U		14	µg/Kg-dry	1.2	7/11/2023 02:27 AM
cis-1,2-Dichloroethene	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
cis-1,3-Dichloropropene	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
<b>Cyclohexane</b>	<b>4.0</b>	J	<b>14</b>	<b>µg/Kg-dry</b>	1.2	7/11/2023 02:27 AM
Dibromochloromethane	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
Dichlorodifluoromethane	U		14	µg/Kg-dry	1.2	7/11/2023 02:27 AM
<b>Ethylbenzene</b>	<b>1.4</b>	J	<b>6.9</b>	<b>µg/Kg-dry</b>	1.2	7/11/2023 02:27 AM
Isopropylbenzene	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
m,p-Xylene	U		3.4	µg/Kg-dry	1.2	7/11/2023 02:27 AM
Methyl acetate	U		14	µg/Kg-dry	1.2	7/11/2023 02:27 AM
Methyl tert-butyl ether	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
<b>Methylcyclohexane</b>	<b>7.1</b>	J	<b>14</b>	<b>µg/Kg-dry</b>	1.2	7/11/2023 02:27 AM
Methylene chloride	U		14	µg/Kg-dry	1.2	7/11/2023 02:27 AM
o-Xylene	U		3.4	µg/Kg-dry	1.2	7/11/2023 02:27 AM
Styrene	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
Tetrachloroethene	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
<b>Toluene</b>	<b>4.0</b>	J	<b>6.9</b>	<b>µg/Kg-dry</b>	1.2	7/11/2023 02:27 AM
trans-1,2-Dichloroethene	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
trans-1,3-Dichloropropene	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
Trichloroethene	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
Trichlorofluoromethane	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
Vinyl chloride	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-8 (32-35)  
**Collection Date:** 6/28/2023 10:47 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-16  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	U		6.9	µg/Kg-dry	1.2	7/11/2023 02:27 AM
Surr: 1,2-Dichloroethane-d4	124		83-132	%REC	1.2	7/11/2023 02:27 AM
Surr: 4-Bromofluorobenzene	103		83-111	%REC	1.2	7/11/2023 02:27 AM
Surr: Dibromofluoromethane	99.4		77-125	%REC	1.2	7/11/2023 02:27 AM
Surr: Toluene-d8	97.0		86-108	%REC	1.2	7/11/2023 02:27 AM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	13		0.10	% of sample	1	7/12/2023 12:47 PM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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



# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-9 (2-5)  
**Collection Date:** 6/28/2023 12:45 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-17  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>		Prep: SW7471 7/5/23 14:09	Analyst: <b>KRA</b>
Mercury	0.077		0.023	mg/Kg-dry	1	7/6/2023 01:39 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>		Prep: SW3050B 7/7/23 12:03	Analyst: <b>STP</b>
Aluminum	8,300		280	mg/Kg-dry	100	7/11/2023 03:53 PM
Antimony	0.28	J	0.35	mg/Kg-dry	1	7/7/2023 07:10 PM
Arsenic	8.4		0.35	mg/Kg-dry	1	7/7/2023 07:10 PM
Barium	230		3.5	mg/Kg-dry	10	7/11/2023 12:05 AM
Beryllium	0.54		0.14	mg/Kg-dry	1	7/7/2023 07:10 PM
Cadmium	0.19		0.14	mg/Kg-dry	1	7/7/2023 07:10 PM
Calcium	3,600		35	mg/Kg-dry	1	7/7/2023 07:10 PM
Chromium	9.3		0.35	mg/Kg-dry	1	7/7/2023 07:10 PM
Cobalt	6.5		0.35	mg/Kg-dry	1	7/7/2023 07:10 PM
Copper	10		0.35	mg/Kg-dry	1	7/7/2023 07:10 PM
Iron	18,000		140	mg/Kg-dry	10	7/11/2023 12:05 AM
Lead	16		0.35	mg/Kg-dry	1	7/7/2023 07:10 PM
Magnesium	2,500		14	mg/Kg-dry	1	7/7/2023 07:10 PM
Manganese	700		3.5	mg/Kg-dry	10	7/11/2023 12:05 AM
Nickel	15		0.35	mg/Kg-dry	1	7/7/2023 07:10 PM
Potassium	1,100		14	mg/Kg-dry	1	7/7/2023 07:10 PM
Selenium	U		3.5	mg/Kg-dry	10	7/11/2023 12:05 AM
Silver	0.074	J	0.35	mg/Kg-dry	1	7/7/2023 07:10 PM
Sodium	300		21	mg/Kg-dry	1	7/7/2023 07:10 PM
Thallium	U		3.6	mg/Kg-dry	10	7/12/2023 08:35 PM
Vanadium	21		0.35	mg/Kg-dry	1	7/7/2023 07:10 PM
Zinc	49		0.71	mg/Kg-dry	1	7/7/2023 07:10 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>		Prep: SW3546 7/10/23 15:46	Analyst: <b>EEW</b>
1,1'-Biphenyl	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
1,2,4,5-Tetrachlorobenzene	U		210	µg/Kg-dry	1	7/11/2023 09:03 PM
1,4-Dioxane	U		210	µg/Kg-dry	1	7/11/2023 09:03 PM
1-Methylnaphthalene	U		8.2	µg/Kg-dry	1	7/11/2023 09:03 PM
2,2'-Oxybis(1-chloropropane)	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
2,3,4,6-Tetrachlorophenol	U		83	µg/Kg-dry	1	7/11/2023 09:03 PM
2,4,5-Trichlorophenol	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
2,4,6-Trichlorophenol	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
2,4-Dichlorophenol	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
2,4-Dimethylphenol	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
2,4-Dinitrophenol	U		820	µg/Kg-dry	1	7/11/2023 09:03 PM
2,4-Dinitrotoluene	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-9 (2-5)  
**Collection Date:** 6/28/2023 12:45 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-17  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
2-Chloronaphthalene	U		8.2	µg/Kg-dry	1	7/11/2023 09:03 PM
2-Chlorophenol	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
2-Methylnaphthalene	U		8.2	µg/Kg-dry	1	7/11/2023 09:03 PM
2-Methylphenol	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
2-Nitroaniline	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
2-Nitrophenol	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
3&4-Methylphenol	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
3,3'-Dichlorobenzidine	U		210	µg/Kg-dry	1	7/11/2023 09:03 PM
3-Nitroaniline	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
4,6-Dinitro-2-methylphenol	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
4-Bromophenyl phenyl ether	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
4-Chloro-3-methylphenol	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
4-Chloroaniline	U		83	µg/Kg-dry	1	7/11/2023 09:03 PM
4-Chlorophenyl phenyl ether	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
4-Nitroaniline	U		210	µg/Kg-dry	1	7/11/2023 09:03 PM
4-Nitrophenol	U		210	µg/Kg-dry	1	7/11/2023 09:03 PM
Acenaphthene	U		8.2	µg/Kg-dry	1	7/11/2023 09:03 PM
Acenaphthylene	U		8.2	µg/Kg-dry	1	7/11/2023 09:03 PM
Acetophenone	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
Anthracene	U		8.2	µg/Kg-dry	1	7/11/2023 09:03 PM
Atrazine	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
Benzaldehyde	U		83	µg/Kg-dry	1	7/11/2023 09:03 PM
Benzo(a)anthracene	U		8.2	µg/Kg-dry	1	7/11/2023 09:03 PM
Benzo(a)pyrene	U		8.2	µg/Kg-dry	1	7/11/2023 09:03 PM
Benzo(b)fluoranthene	U		8.2	µg/Kg-dry	1	7/11/2023 09:03 PM
Benzo(g,h,i)perylene	U		8.2	µg/Kg-dry	1	7/11/2023 09:03 PM
Benzo(k)fluoranthene	U		8.2	µg/Kg-dry	1	7/11/2023 09:03 PM
Bis(2-chloroethoxy)methane	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
Bis(2-chloroethyl)ether	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
Bis(2-ethylhexyl)phthalate	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
Butyl benzyl phthalate	U		83	µg/Kg-dry	1	7/11/2023 09:03 PM
Caprolactam	U		83	µg/Kg-dry	1	7/11/2023 09:03 PM
Carbazole	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
Chrysene	U		8.2	µg/Kg-dry	1	7/11/2023 09:03 PM
Dibenzo(a,h)anthracene	U		8.2	µg/Kg-dry	1	7/11/2023 09:03 PM
Dibenzofuran	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
Diethyl phthalate	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
Dimethyl phthalate	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
Di-n-butyl phthalate	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-9 (2-5)  
**Collection Date:** 6/28/2023 12:45 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-17  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
Fluoranthene	U		8.2	µg/Kg-dry	1	7/11/2023 09:03 PM
Fluorene	U		8.2	µg/Kg-dry	1	7/11/2023 09:03 PM
Hexachlorobenzene	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
Hexachlorobutadiene	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
Hexachlorocyclopentadiene	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
Hexachloroethane	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
Indeno(1,2,3-cd)pyrene	U		8.2	µg/Kg-dry	1	7/11/2023 09:03 PM
Isophorone	U		210	µg/Kg-dry	1	7/11/2023 09:03 PM
Naphthalene	U		8.2	µg/Kg-dry	1	7/11/2023 09:03 PM
Nitrobenzene	U		210	µg/Kg-dry	1	7/11/2023 09:03 PM
N-Nitrosodi-n-propylamine	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
N-Nitrosodiphenylamine	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
Pentachlorophenol	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
Phenanthrene	U		8.2	µg/Kg-dry	1	7/11/2023 09:03 PM
Phenol	U		41	µg/Kg-dry	1	7/11/2023 09:03 PM
Pyrene	U		8.2	µg/Kg-dry	1	7/11/2023 09:03 PM
Pyridine	U		210	µg/Kg-dry	1	7/11/2023 09:03 PM
Surr: 2,4,6-Tribromophenol	75.3		48-94	%REC	1	7/11/2023 09:03 PM
Surr: 2-Fluorobiphenyl	80.9		50-103	%REC	1	7/11/2023 09:03 PM
Surr: 2-Fluorophenol	76.8		43-105	%REC	1	7/11/2023 09:03 PM
Surr: 4-Terphenyl-d14	85.8		55-111	%REC	1	7/11/2023 09:03 PM
Surr: Nitrobenzene-d5	78.0		47-100	%REC	1	7/11/2023 09:03 PM
Surr: Phenol-d6	77.9		49-110	%REC	1	7/11/2023 09:03 PM

## VOLATILE ORGANIC COMPOUNDS

SW8260D

Prep: SW5035A 7/5/23 16:17

Analyst: SBR

Acetone	U		140	µg/Kg	1	7/10/2023 12:25 AM
Surr: 1,2-Dichloroethane-d4	103		80-120	%REC	1	7/10/2023 12:25 AM
Surr: 4-Bromofluorobenzene	99.2		80-120	%REC	1	7/10/2023 12:25 AM
Surr: Dibromofluoromethane	94.4		80-120	%REC	1	7/10/2023 12:25 AM
Surr: Toluene-d8	99.1		80-120	%REC	1	7/10/2023 12:25 AM

## VOLATILE ORGANIC COMPOUNDS - LOW LEVEL

SW8260D

Analyst: BAM

1,1,1-Trichloroethane	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
1,1,2,2-Tetrachloroethane	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
1,1,2-Trichloroethane	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
1,1,2-Trichlorotrifluoroethane	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
1,1-Dichloroethane	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
1,1-Dichloroethene	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
1,2,3-Trichlorobenzene	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
1,2,3-Trichloropropane	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-9 (2-5)  
**Collection Date:** 6/28/2023 12:45 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-17  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
1,2,4-Trimethylbenzene	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
1,2-Dibromo-3-chloropropane	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
1,2-Dibromoethane	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
1,2-Dichlorobenzene	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
1,2-Dichloroethane	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
1,2-Dichloropropane	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
1,3,5-Trimethylbenzene	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
1,3-Dichlorobenzene	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
1,4-Dichlorobenzene	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
<b>2-Butanone</b>	<b>31</b>		<b>11</b>	<b>µg/Kg-dry</b>	0.877	7/11/2023 02:43 AM
2-Hexanone	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
4-Methyl-2-pentanone	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Benzene	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Bromochloromethane	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Bromodichloromethane	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Bromoform	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Bromomethane	U		11	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Carbon disulfide	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Carbon tetrachloride	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Chlorobenzene	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Chloroethane	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Chloroform	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Chloromethane	U		11	µg/Kg-dry	0.877	7/11/2023 02:43 AM
cis-1,2-Dichloroethene	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
cis-1,3-Dichloropropene	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Cyclohexane	U		11	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Dibromochloromethane	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Dichlorodifluoromethane	U		11	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Ethylbenzene	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Isopropylbenzene	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
m,p-Xylene	U		2.8	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Methyl acetate	U		11	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Methyl tert-butyl ether	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Methylcyclohexane	U		11	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Methylene chloride	U		11	µg/Kg-dry	0.877	7/11/2023 02:43 AM
o-Xylene	U		2.8	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Styrene	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Tetrachloroethene	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Toluene	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-9 (2-5)  
**Collection Date:** 6/28/2023 12:45 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-17  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,2-Dichloroethene	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
trans-1,3-Dichloropropene	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Trichloroethene	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Trichlorofluoromethane	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Vinyl chloride	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Xylenes, Total	U		5.6	µg/Kg-dry	0.877	7/11/2023 02:43 AM
Surr: 1,2-Dichloroethane-d4	121		83-132	%REC	0.877	7/11/2023 02:43 AM
Surr: 4-Bromofluorobenzene	94.3		83-111	%REC	0.877	7/11/2023 02:43 AM
Surr: Dibromofluoromethane	100		77-125	%REC	0.877	7/11/2023 02:43 AM
Surr: Toluene-d8	96.5		86-108	%REC	0.877	7/11/2023 02:43 AM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	22		0.10	% of sample	1	7/12/2023 12:47 PM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-9 (32-35)  
**Collection Date:** 6/28/2023 01:10 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-18  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>		Prep: SW7471 7/5/23 14:09	Analyst: <b>KRA</b>
Mercury	0.035		0.020	mg/Kg-dry	1	7/6/2023 01:41 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>		Prep: SW3050B 7/7/23 12:03	Analyst: <b>STP</b>
Aluminum	6,300		240	mg/Kg-dry	100	7/11/2023 03:55 PM
Antimony	0.47		0.31	mg/Kg-dry	1	7/7/2023 07:12 PM
Arsenic	7.4		0.31	mg/Kg-dry	1	7/7/2023 07:12 PM
Barium	260		3.1	mg/Kg-dry	10	7/11/2023 12:07 AM
Beryllium	0.49		0.12	mg/Kg-dry	1	7/7/2023 07:12 PM
Cadmium	0.21		0.12	mg/Kg-dry	1	7/7/2023 07:12 PM
Calcium	26,000		310	mg/Kg-dry	10	7/11/2023 12:07 AM
Chromium	8.5		0.31	mg/Kg-dry	1	7/7/2023 07:12 PM
Cobalt	7.7		0.31	mg/Kg-dry	1	7/7/2023 07:12 PM
Copper	12		0.31	mg/Kg-dry	1	7/7/2023 07:12 PM
Iron	17,000		120	mg/Kg-dry	10	7/11/2023 12:07 AM
Lead	11		0.31	mg/Kg-dry	1	7/7/2023 07:12 PM
Magnesium	10,000		12	mg/Kg-dry	1	7/7/2023 07:12 PM
Manganese	910		3.1	mg/Kg-dry	10	7/11/2023 12:07 AM
Nickel	18		0.31	mg/Kg-dry	1	7/7/2023 07:12 PM
Potassium	1,400		12	mg/Kg-dry	1	7/7/2023 07:12 PM
Selenium	U		3.1	mg/Kg-dry	10	7/11/2023 12:07 AM
Silver	0.064	J	0.31	mg/Kg-dry	1	7/7/2023 07:12 PM
Sodium	1,400		18	mg/Kg-dry	1	7/7/2023 07:12 PM
Thallium	U		3.4	mg/Kg-dry	10	7/12/2023 08:37 PM
Vanadium	21		0.31	mg/Kg-dry	1	7/7/2023 07:12 PM
Zinc	43		0.61	mg/Kg-dry	1	7/7/2023 07:12 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>		Prep: SW3546 7/10/23 15:46	Analyst: <b>EEW</b>
1,1'-Biphenyl	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
1,2,4,5-Tetrachlorobenzene	U		190	µg/Kg-dry	1	7/11/2023 09:26 PM
1,4-Dioxane	U		190	µg/Kg-dry	1	7/11/2023 09:26 PM
1-Methylnaphthalene	U		7.7	µg/Kg-dry	1	7/11/2023 09:26 PM
2,2'-Oxybis(1-chloropropane)	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
2,3,4,6-Tetrachlorophenol	U		77	µg/Kg-dry	1	7/11/2023 09:26 PM
2,4,5-Trichlorophenol	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
2,4,6-Trichlorophenol	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
2,4-Dichlorophenol	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
2,4-Dimethylphenol	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
2,4-Dinitrophenol	U		770	µg/Kg-dry	1	7/11/2023 09:26 PM
2,4-Dinitrotoluene	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-9 (32-35)  
**Collection Date:** 6/28/2023 01:10 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-18  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
2-Chloronaphthalene	U		7.7	µg/Kg-dry	1	7/11/2023 09:26 PM
2-Chlorophenol	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
2-Methylnaphthalene	U		7.7	µg/Kg-dry	1	7/11/2023 09:26 PM
2-Methylphenol	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
2-Nitroaniline	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
2-Nitrophenol	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
3&4-Methylphenol	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
3,3'-Dichlorobenzidine	U		190	µg/Kg-dry	1	7/11/2023 09:26 PM
3-Nitroaniline	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
4,6-Dinitro-2-methylphenol	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
4-Bromophenyl phenyl ether	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
4-Chloro-3-methylphenol	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
4-Chloroaniline	U		77	µg/Kg-dry	1	7/11/2023 09:26 PM
4-Chlorophenyl phenyl ether	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
4-Nitroaniline	U		190	µg/Kg-dry	1	7/11/2023 09:26 PM
4-Nitrophenol	U		190	µg/Kg-dry	1	7/11/2023 09:26 PM
Acenaphthene	U		7.7	µg/Kg-dry	1	7/11/2023 09:26 PM
Acenaphthylene	U		7.7	µg/Kg-dry	1	7/11/2023 09:26 PM
Acetophenone	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
Anthracene	U		7.7	µg/Kg-dry	1	7/11/2023 09:26 PM
Atrazine	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
Benzaldehyde	U		77	µg/Kg-dry	1	7/11/2023 09:26 PM
Benzo(a)anthracene	U		7.7	µg/Kg-dry	1	7/11/2023 09:26 PM
Benzo(a)pyrene	U		7.7	µg/Kg-dry	1	7/11/2023 09:26 PM
Benzo(b)fluoranthene	U		7.7	µg/Kg-dry	1	7/11/2023 09:26 PM
Benzo(g,h,i)perylene	U		7.7	µg/Kg-dry	1	7/11/2023 09:26 PM
Benzo(k)fluoranthene	U		7.7	µg/Kg-dry	1	7/11/2023 09:26 PM
Bis(2-chloroethoxy)methane	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
Bis(2-chloroethyl)ether	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
Bis(2-ethylhexyl)phthalate	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
Butyl benzyl phthalate	U		77	µg/Kg-dry	1	7/11/2023 09:26 PM
Caprolactam	U		77	µg/Kg-dry	1	7/11/2023 09:26 PM
Carbazole	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
Chrysene	U		7.7	µg/Kg-dry	1	7/11/2023 09:26 PM
Dibenzo(a,h)anthracene	U		7.7	µg/Kg-dry	1	7/11/2023 09:26 PM
Dibenzofuran	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
Diethyl phthalate	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
Dimethyl phthalate	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
Di-n-butyl phthalate	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-9 (32-35)  
**Collection Date:** 6/28/2023 01:10 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-18  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
Fluoranthene	U		7.7	µg/Kg-dry	1	7/11/2023 09:26 PM
Fluorene	U		7.7	µg/Kg-dry	1	7/11/2023 09:26 PM
Hexachlorobenzene	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
Hexachlorobutadiene	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
Hexachlorocyclopentadiene	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
Hexachloroethane	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
Indeno(1,2,3-cd)pyrene	U		7.7	µg/Kg-dry	1	7/11/2023 09:26 PM
Isophorone	U		190	µg/Kg-dry	1	7/11/2023 09:26 PM
Naphthalene	U		7.7	µg/Kg-dry	1	7/11/2023 09:26 PM
Nitrobenzene	U		190	µg/Kg-dry	1	7/11/2023 09:26 PM
N-Nitrosodi-n-propylamine	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
N-Nitrosodiphenylamine	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
Pentachlorophenol	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
Phenanthrene	U		7.7	µg/Kg-dry	1	7/11/2023 09:26 PM
Phenol	U		38	µg/Kg-dry	1	7/11/2023 09:26 PM
Pyrene	U		7.7	µg/Kg-dry	1	7/11/2023 09:26 PM
Pyridine	U		190	µg/Kg-dry	1	7/11/2023 09:26 PM
Surr: 2,4,6-Tribromophenol	49.2		48-94	%REC	1	7/11/2023 09:26 PM
Surr: 2-Fluorobiphenyl	81.0		50-103	%REC	1	7/11/2023 09:26 PM
Surr: 2-Fluorophenol	55.3		43-105	%REC	1	7/11/2023 09:26 PM
Surr: 4-Terphenyl-d14	85.1		55-111	%REC	1	7/11/2023 09:26 PM
Surr: Nitrobenzene-d5	75.6		47-100	%REC	1	7/11/2023 09:26 PM
Surr: Phenol-d6	64.1		49-110	%REC	1	7/11/2023 09:26 PM

## VOLATILE ORGANIC COMPOUNDS - LOW LEVEL

SW8260D

Analyst: BAM

1,1,1-Trichloroethane	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
1,1,2,2-Tetrachloroethane	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
1,1,2-Trichloroethane	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
1,1,2-Trichlorotrifluoroethane	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
1,1-Dichloroethane	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
1,1-Dichloroethene	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
1,2,3-Trichlorobenzene	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
1,2,3-Trichloropropane	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
1,2,4-Trichlorobenzene	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
1,2,4-Trimethylbenzene	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
1,2-Dibromo-3-chloropropane	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
1,2-Dibromoethane	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
1,2-Dichlorobenzene	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
1,2-Dichloroethane	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM

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



# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-9 (32-35)  
**Collection Date:** 6/28/2023 01:10 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-18  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
1,3,5-Trimethylbenzene	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
1,3-Dichlorobenzene	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
1,4-Dichlorobenzene	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
2-Butanone	U		13	µg/Kg-dry	1.09	7/11/2023 03:00 AM
2-Hexanone	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
4-Methyl-2-pentanone	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
<b>Acetone</b>	<b>16</b>		<b>13</b>	<b>µg/Kg-dry</b>	1.09	7/11/2023 03:00 AM
<b>Benzene</b>	<b>2.6</b>	J	<b>6.4</b>	<b>µg/Kg-dry</b>	1.09	7/11/2023 03:00 AM
Bromochloromethane	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
Bromodichloromethane	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
Bromoform	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
Bromomethane	U		13	µg/Kg-dry	1.09	7/11/2023 03:00 AM
Carbon disulfide	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
Carbon tetrachloride	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
Chlorobenzene	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
Chloroethane	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
Chloroform	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
Chloromethane	U		13	µg/Kg-dry	1.09	7/11/2023 03:00 AM
cis-1,2-Dichloroethene	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
cis-1,3-Dichloropropene	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
<b>Cyclohexane</b>	<b>5.7</b>	J	<b>13</b>	<b>µg/Kg-dry</b>	1.09	7/11/2023 03:00 AM
Dibromochloromethane	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
Dichlorodifluoromethane	U		13	µg/Kg-dry	1.09	7/11/2023 03:00 AM
<b>Ethylbenzene</b>	<b>1.2</b>	J	<b>6.4</b>	<b>µg/Kg-dry</b>	1.09	7/11/2023 03:00 AM
Isopropylbenzene	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
m,p-Xylene	U		3.2	µg/Kg-dry	1.09	7/11/2023 03:00 AM
Methyl acetate	U		13	µg/Kg-dry	1.09	7/11/2023 03:00 AM
Methyl tert-butyl ether	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
<b>Methylcyclohexane</b>	<b>9.3</b>	J	<b>13</b>	<b>µg/Kg-dry</b>	1.09	7/11/2023 03:00 AM
Methylene chloride	U		13	µg/Kg-dry	1.09	7/11/2023 03:00 AM
o-Xylene	U		3.2	µg/Kg-dry	1.09	7/11/2023 03:00 AM
Styrene	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
Tetrachloroethene	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
<b>Toluene</b>	<b>4.9</b>	J	<b>6.4</b>	<b>µg/Kg-dry</b>	1.09	7/11/2023 03:00 AM
trans-1,2-Dichloroethene	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
trans-1,3-Dichloropropene	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
Trichloroethene	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
Trichlorofluoromethane	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
Vinyl chloride	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM

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

**ALS Group, USA****Date:** 18-Jul-2023**Client:** Tetra Tech**Project:** Boys and Girls Club**Work Order:** 23070106**Sample ID:** SB-9 (32-35)**Lab ID:** 23070106-18**Collection Date:** 6/28/2023 01:10 PM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	U		6.4	µg/Kg-dry	1.09	7/11/2023 03:00 AM
Surr: 1,2-Dichloroethane-d4	121		83-132	%REC	1.09	7/11/2023 03:00 AM
Surr: 4-Bromofluorobenzene	102		83-111	%REC	1.09	7/11/2023 03:00 AM
Surr: Dibromofluoromethane	101		77-125	%REC	1.09	7/11/2023 03:00 AM
Surr: Toluene-d8	95.9		86-108	%REC	1.09	7/11/2023 03:00 AM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	15		0.10	% of sample	1	7/12/2023 12:47 PM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-10 (0-3)  
**Collection Date:** 6/28/2023 02:30 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-19  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>	Prep: SW7471 7/5/23 14:09		Analyst: <b>KRA</b>
Mercury	0.11		0.019	mg/Kg-dry	1	7/6/2023 01:43 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>	Prep: SW3050B 7/7/23 12:03		Analyst: <b>STP</b>
Aluminum	7,900		260	mg/Kg-dry	100	7/11/2023 04:00 PM
Antimony	0.27	J	0.32	mg/Kg-dry	1	7/7/2023 07:14 PM
Arsenic	8.3		0.32	mg/Kg-dry	1	7/7/2023 07:14 PM
Barium	240		3.2	mg/Kg-dry	10	7/11/2023 12:09 AM
Beryllium	0.56		0.13	mg/Kg-dry	1	7/7/2023 07:14 PM
Cadmium	0.32		0.13	mg/Kg-dry	1	7/7/2023 07:14 PM
Calcium	9,400		32	mg/Kg-dry	1	7/7/2023 07:14 PM
Chromium	9.5		0.32	mg/Kg-dry	1	7/7/2023 07:14 PM
Cobalt	6.4		0.32	mg/Kg-dry	1	7/7/2023 07:14 PM
Copper	14		0.32	mg/Kg-dry	1	7/7/2023 07:14 PM
Iron	18,000		130	mg/Kg-dry	10	7/11/2023 12:09 AM
Lead	38		0.32	mg/Kg-dry	1	7/7/2023 07:14 PM
Magnesium	3,700		13	mg/Kg-dry	1	7/7/2023 07:14 PM
Manganese	690		3.2	mg/Kg-dry	10	7/11/2023 12:09 AM
Nickel	17		0.32	mg/Kg-dry	1	7/7/2023 07:14 PM
Potassium	960		13	mg/Kg-dry	1	7/7/2023 07:14 PM
Selenium	U		3.2	mg/Kg-dry	10	7/11/2023 12:09 AM
Silver	0.084	J	0.32	mg/Kg-dry	1	7/7/2023 07:14 PM
Sodium	200		19	mg/Kg-dry	1	7/7/2023 07:14 PM
Thallium	U		3.2	mg/Kg-dry	10	7/12/2023 08:39 PM
Vanadium	21		0.32	mg/Kg-dry	1	7/7/2023 07:14 PM
Zinc	86		0.64	mg/Kg-dry	1	7/7/2023 07:14 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>	Prep: SW3546 7/10/23 15:46		Analyst: <b>EEW</b>
1,1'-Biphenyl	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
1,2,4,5-Tetrachlorobenzene	U		180	µg/Kg-dry	1	7/11/2023 09:49 PM
1,4-Dioxane	U		180	µg/Kg-dry	1	7/11/2023 09:49 PM
1-Methylnaphthalene	7.8		7.1	µg/Kg-dry	1	7/11/2023 09:49 PM
2,2'-Oxybis(1-chloropropane)	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
2,3,4,6-Tetrachlorophenol	U		71	µg/Kg-dry	1	7/11/2023 09:49 PM
2,4,5-Trichlorophenol	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
2,4,6-Trichlorophenol	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
2,4-Dichlorophenol	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
2,4-Dimethylphenol	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
2,4-Dinitrophenol	U		710	µg/Kg-dry	1	7/11/2023 09:49 PM
2,4-Dinitrotoluene	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-10 (0-3)  
**Collection Date:** 6/28/2023 02:30 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-19  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
2-Chloronaphthalene	U		7.1	µg/Kg-dry	1	7/11/2023 09:49 PM
2-Chlorophenol	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
<b>2-Methylnaphthalene</b>	<b>8.5</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 09:49 PM
2-Methylphenol	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
2-Nitroaniline	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
2-Nitrophenol	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
3&4-Methylphenol	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
3,3'-Dichlorobenzidine	U		180	µg/Kg-dry	1	7/11/2023 09:49 PM
3-Nitroaniline	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
4,6-Dinitro-2-methylphenol	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
4-Bromophenyl phenyl ether	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
4-Chloro-3-methylphenol	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
4-Chloroaniline	U		71	µg/Kg-dry	1	7/11/2023 09:49 PM
4-Chlorophenyl phenyl ether	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
4-Nitroaniline	U		180	µg/Kg-dry	1	7/11/2023 09:49 PM
4-Nitrophenol	U		180	µg/Kg-dry	1	7/11/2023 09:49 PM
Acenaphthene	U		7.1	µg/Kg-dry	1	7/11/2023 09:49 PM
<b>Acenaphthylene</b>	<b>11</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 09:49 PM
Acetophenone	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
<b>Anthracene</b>	<b>20</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 09:49 PM
Atrazine	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
Benzaldehyde	U		71	µg/Kg-dry	1	7/11/2023 09:49 PM
<b>Benzo(a)anthracene</b>	<b>160</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 09:49 PM
<b>Benzo(a)pyrene</b>	<b>150</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 09:49 PM
<b>Benzo(b)fluoranthene</b>	<b>180</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 09:49 PM
<b>Benzo(g,h,i)perylene</b>	<b>65</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 09:49 PM
<b>Benzo(k)fluoranthene</b>	<b>70</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 09:49 PM
Bis(2-chloroethoxy)methane	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
Bis(2-chloroethyl)ether	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
Bis(2-ethylhexyl)phthalate	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
Butyl benzyl phthalate	U		71	µg/Kg-dry	1	7/11/2023 09:49 PM
Caprolactam	U		71	µg/Kg-dry	1	7/11/2023 09:49 PM
Carbazole	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
<b>Chrysene</b>	<b>150</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 09:49 PM
<b>Dibenzo(a,h)anthracene</b>	<b>20</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 09:49 PM
Dibenzofuran	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
Diethyl phthalate	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
Dimethyl phthalate	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
Di-n-butyl phthalate	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-10 (0-3)  
**Collection Date:** 6/28/2023 02:30 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-19  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
<b>Fluoranthene</b>	<b>300</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 09:49 PM
Fluorene	U		7.1	µg/Kg-dry	1	7/11/2023 09:49 PM
Hexachlorobenzene	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
Hexachlorobutadiene	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
Hexachlorocyclopentadiene	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
Hexachloroethane	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
<b>Indeno(1,2,3-cd)pyrene</b>	<b>75</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 09:49 PM
Isophorone	U		180	µg/Kg-dry	1	7/11/2023 09:49 PM
<b>Naphthalene</b>	<b>5.7</b>	J	<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 09:49 PM
Nitrobenzene	U		180	µg/Kg-dry	1	7/11/2023 09:49 PM
N-Nitrosodi-n-propylamine	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
N-Nitrosodiphenylamine	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
Pentachlorophenol	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
<b>Phenanthrene</b>	<b>130</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 09:49 PM
Phenol	U		35	µg/Kg-dry	1	7/11/2023 09:49 PM
<b>Pyrene</b>	<b>260</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/11/2023 09:49 PM
Pyridine	U		180	µg/Kg-dry	1	7/11/2023 09:49 PM
Surr: 2,4,6-Tribromophenol	71.8		48-94	%REC	1	7/11/2023 09:49 PM
Surr: 2-Fluorobiphenyl	80.8		50-103	%REC	1	7/11/2023 09:49 PM
Surr: 2-Fluorophenol	76.7		43-105	%REC	1	7/11/2023 09:49 PM
Surr: 4-Terphenyl-d14	83.2		55-111	%REC	1	7/11/2023 09:49 PM
Surr: Nitrobenzene-d5	78.6		47-100	%REC	1	7/11/2023 09:49 PM
Surr: Phenol-d6	82.4		49-110	%REC	1	7/11/2023 09:49 PM

## VOLATILE ORGANIC COMPOUNDS

SW8260D

Prep: SW5035A 7/5/23 16:17

Analyst: SBR

Acetone	U		160	µg/Kg	1	7/10/2023 01:01 AM
Surr: 1,2-Dichloroethane-d4	95.9		80-120	%REC	1	7/10/2023 01:01 AM
Surr: 4-Bromofluorobenzene	99.9		80-120	%REC	1	7/10/2023 01:01 AM
Surr: Dibromofluoromethane	93.1		80-120	%REC	1	7/10/2023 01:01 AM
Surr: Toluene-d8	97.3		80-120	%REC	1	7/10/2023 01:01 AM

## VOLATILE ORGANIC COMPOUNDS - LOW LEVEL

SW8260D

Analyst: BAM

1,1,1-Trichloroethane	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
1,1,2,2-Tetrachloroethane	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
1,1,2-Trichloroethane	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
1,1,2-Trichlorotrifluoroethane	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
1,1-Dichloroethane	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
1,1-Dichloroethene	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
1,2,3-Trichlorobenzene	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
1,2,3-Trichloropropane	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-10 (0-3)  
**Collection Date:** 6/28/2023 02:30 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-19  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
1,2,4-Trimethylbenzene	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
1,2-Dibromo-3-chloropropane	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
1,2-Dibromoethane	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
1,2-Dichlorobenzene	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
1,2-Dichloroethane	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
1,2-Dichloropropane	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
1,3,5-Trimethylbenzene	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
1,3-Dichlorobenzene	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
1,4-Dichlorobenzene	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
<b>2-Butanone</b>	<b>41</b>		<b>14</b>	<b>µg/Kg-dry</b>	1.3	7/11/2023 03:17 AM
2-Hexanone	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
4-Methyl-2-pentanone	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
<b>Benzene</b>	<b>0.93</b>	<b>J</b>	<b>7.1</b>	<b>µg/Kg-dry</b>	1.3	7/11/2023 03:17 AM
Bromochloromethane	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Bromodichloromethane	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Bromoform	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Bromomethane	U		14	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Carbon disulfide	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Carbon tetrachloride	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Chlorobenzene	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Chloroethane	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Chloroform	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Chloromethane	U		14	µg/Kg-dry	1.3	7/11/2023 03:17 AM
cis-1,2-Dichloroethene	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
cis-1,3-Dichloropropene	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Cyclohexane	U		14	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Dibromochloromethane	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Dichlorodifluoromethane	U		14	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Ethylbenzene	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Isopropylbenzene	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
m,p-Xylene	U		3.6	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Methyl acetate	U		14	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Methyl tert-butyl ether	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Methylcyclohexane	U		14	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Methylene chloride	U		14	µg/Kg-dry	1.3	7/11/2023 03:17 AM
o-Xylene	U		3.6	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Styrene	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Tetrachloroethene	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Toluene	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM

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

**ALS Group, USA****Date:** 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-10 (0-3)  
**Collection Date:** 6/28/2023 02:30 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-19  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,2-Dichloroethene	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
trans-1,3-Dichloropropene	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Trichloroethene	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Trichlorofluoromethane	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Vinyl chloride	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Xylenes, Total	U		7.1	µg/Kg-dry	1.3	7/11/2023 03:17 AM
Surr: 1,2-Dichloroethane-d4	122		83-132	%REC	1.3	7/11/2023 03:17 AM
Surr: 4-Bromofluorobenzene	101		83-111	%REC	1.3	7/11/2023 03:17 AM
Surr: Dibromofluoromethane	102		77-125	%REC	1.3	7/11/2023 03:17 AM
Surr: Toluene-d8	94.8		86-108	%REC	1.3	7/11/2023 03:17 AM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	9.0		0.10	% of sample	1	7/12/2023 12:47 PM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-10 (25-35)  
**Collection Date:** 6/28/2023 03:10 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-20  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>		Prep: SW7471 7/5/23 14:09	Analyst: <b>KRA</b>
Mercury	0.098		0.019	mg/Kg-dry	1	7/6/2023 01:50 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>		Prep: SW3050B 7/7/23 12:03	Analyst: <b>STP</b>
Aluminum	6,100		230	mg/Kg-dry	100	7/11/2023 04:02 PM
Antimony	0.41		0.28	mg/Kg-dry	1	7/7/2023 07:16 PM
Arsenic	7.2		0.28	mg/Kg-dry	1	7/7/2023 07:16 PM
Barium	270		2.8	mg/Kg-dry	10	7/11/2023 12:11 AM
Beryllium	0.46		0.11	mg/Kg-dry	1	7/7/2023 07:16 PM
Cadmium	0.26		0.11	mg/Kg-dry	1	7/7/2023 07:16 PM
Calcium	26,000		280	mg/Kg-dry	10	7/11/2023 12:11 AM
Chromium	16		0.28	mg/Kg-dry	1	7/7/2023 07:16 PM
Cobalt	7.4		0.28	mg/Kg-dry	1	7/7/2023 07:16 PM
Copper	14		0.28	mg/Kg-dry	1	7/7/2023 07:16 PM
Iron	17,000		110	mg/Kg-dry	10	7/11/2023 12:11 AM
Lead	11		0.28	mg/Kg-dry	1	7/7/2023 07:16 PM
Magnesium	9,900		11	mg/Kg-dry	1	7/7/2023 07:16 PM
Manganese	890		2.8	mg/Kg-dry	10	7/11/2023 12:11 AM
Nickel	19		0.28	mg/Kg-dry	1	7/7/2023 07:16 PM
Potassium	1,300		11	mg/Kg-dry	1	7/7/2023 07:16 PM
Selenium	U		2.8	mg/Kg-dry	10	7/11/2023 12:11 AM
Silver	0.061	J	0.28	mg/Kg-dry	1	7/7/2023 07:16 PM
Sodium	140		17	mg/Kg-dry	1	7/7/2023 07:16 PM
Thallium	U		3.2	mg/Kg-dry	10	7/12/2023 08:40 PM
Vanadium	20		0.28	mg/Kg-dry	1	7/7/2023 07:16 PM
Zinc	45		0.57	mg/Kg-dry	1	7/7/2023 07:16 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>		Prep: SW3546 7/10/23 15:46	Analyst: <b>EEW</b>
1,1'-Biphenyl	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
1,2,4,5-Tetrachlorobenzene	U		170	µg/Kg-dry	1	7/11/2023 10:12 PM
1,4-Dioxane	U		170	µg/Kg-dry	1	7/11/2023 10:12 PM
1-Methylnaphthalene	U		6.9	µg/Kg-dry	1	7/11/2023 10:12 PM
2,2'-Oxybis(1-chloropropane)	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
2,3,4,6-Tetrachlorophenol	U		70	µg/Kg-dry	1	7/11/2023 10:12 PM
2,4,5-Trichlorophenol	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
2,4,6-Trichlorophenol	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
2,4-Dichlorophenol	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
2,4-Dimethylphenol	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
2,4-Dinitrophenol	U		690	µg/Kg-dry	1	7/11/2023 10:12 PM
2,4-Dinitrotoluene	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM

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



# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-10 (25-35)  
**Collection Date:** 6/28/2023 03:10 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-20  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
2-Chloronaphthalene	U		6.9	µg/Kg-dry	1	7/11/2023 10:12 PM
2-Chlorophenol	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
2-Methylnaphthalene	U		6.9	µg/Kg-dry	1	7/11/2023 10:12 PM
2-Methylphenol	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
2-Nitroaniline	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
2-Nitrophenol	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
3&4-Methylphenol	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
3,3'-Dichlorobenzidine	U		170	µg/Kg-dry	1	7/11/2023 10:12 PM
3-Nitroaniline	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
4,6-Dinitro-2-methylphenol	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
4-Bromophenyl phenyl ether	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
4-Chloro-3-methylphenol	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
4-Chloroaniline	U		70	µg/Kg-dry	1	7/11/2023 10:12 PM
4-Chlorophenyl phenyl ether	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
4-Nitroaniline	U		170	µg/Kg-dry	1	7/11/2023 10:12 PM
4-Nitrophenol	U		170	µg/Kg-dry	1	7/11/2023 10:12 PM
Acenaphthene	U		6.9	µg/Kg-dry	1	7/11/2023 10:12 PM
Acenaphthylene	U		6.9	µg/Kg-dry	1	7/11/2023 10:12 PM
Acetophenone	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
Anthracene	U		6.9	µg/Kg-dry	1	7/11/2023 10:12 PM
Atrazine	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
Benzaldehyde	U		70	µg/Kg-dry	1	7/11/2023 10:12 PM
Benzo(a)anthracene	U		6.9	µg/Kg-dry	1	7/11/2023 10:12 PM
Benzo(a)pyrene	U		6.9	µg/Kg-dry	1	7/11/2023 10:12 PM
Benzo(b)fluoranthene	U		6.9	µg/Kg-dry	1	7/11/2023 10:12 PM
Benzo(g,h,i)perylene	U		6.9	µg/Kg-dry	1	7/11/2023 10:12 PM
Benzo(k)fluoranthene	U		6.9	µg/Kg-dry	1	7/11/2023 10:12 PM
Bis(2-chloroethoxy)methane	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
Bis(2-chloroethyl)ether	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
Bis(2-ethylhexyl)phthalate	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
Butyl benzyl phthalate	U		70	µg/Kg-dry	1	7/11/2023 10:12 PM
Caprolactam	U		70	µg/Kg-dry	1	7/11/2023 10:12 PM
Carbazole	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
Chrysene	U		6.9	µg/Kg-dry	1	7/11/2023 10:12 PM
Dibenzo(a,h)anthracene	U		6.9	µg/Kg-dry	1	7/11/2023 10:12 PM
Dibenzofuran	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
Diethyl phthalate	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
Dimethyl phthalate	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
Di-n-butyl phthalate	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-10 (25-35)  
**Collection Date:** 6/28/2023 03:10 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-20  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
<b>Fluoranthene</b>	<b>4.2</b>	<b>J</b>	<b>6.9</b>	<b>µg/Kg-dry</b>	<b>1</b>	7/11/2023 10:12 PM
Fluorene	U		6.9	µg/Kg-dry	1	7/11/2023 10:12 PM
Hexachlorobenzene	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
Hexachlorobutadiene	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
Hexachlorocyclopentadiene	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
Hexachloroethane	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
Indeno(1,2,3-cd)pyrene	U		6.9	µg/Kg-dry	1	7/11/2023 10:12 PM
Isophorone	U		170	µg/Kg-dry	1	7/11/2023 10:12 PM
Naphthalene	U		6.9	µg/Kg-dry	1	7/11/2023 10:12 PM
Nitrobenzene	U		170	µg/Kg-dry	1	7/11/2023 10:12 PM
N-Nitrosodi-n-propylamine	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
N-Nitrosodiphenylamine	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
Pentachlorophenol	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
Phenanthrene	U		6.9	µg/Kg-dry	1	7/11/2023 10:12 PM
Phenol	U		34	µg/Kg-dry	1	7/11/2023 10:12 PM
Pyrene	U		6.9	µg/Kg-dry	1	7/11/2023 10:12 PM
Pyridine	U		170	µg/Kg-dry	1	7/11/2023 10:12 PM
Surr: 2,4,6-Tribromophenol	67.7		48-94	%REC	1	7/11/2023 10:12 PM
Surr: 2-Fluorobiphenyl	86.3		50-103	%REC	1	7/11/2023 10:12 PM
Surr: 2-Fluorophenol	72.4		43-105	%REC	1	7/11/2023 10:12 PM
Surr: 4-Terphenyl-d14	88.8		55-111	%REC	1	7/11/2023 10:12 PM
Surr: Nitrobenzene-d5	83.3		47-100	%REC	1	7/11/2023 10:12 PM
Surr: Phenol-d6	78.2		49-110	%REC	1	7/11/2023 10:12 PM

## VOLATILE ORGANIC COMPOUNDS - LOW LEVEL

SW8260D

Analyst: BAM

1,1,1-Trichloroethane	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
1,1,2,2-Tetrachloroethane	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
1,1,2-Trichloroethane	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
1,1,2-Trichlorotrifluoroethane	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
1,1-Dichloroethane	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
1,1-Dichloroethene	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
1,2,3-Trichlorobenzene	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
1,2,3-Trichloropropane	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
1,2,4-Trichlorobenzene	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
1,2,4-Trimethylbenzene	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
1,2-Dibromo-3-chloropropane	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
1,2-Dibromoethane	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
1,2-Dichlorobenzene	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
1,2-Dichloroethane	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-10 (25-35)  
**Collection Date:** 6/28/2023 03:10 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-20  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
1,3,5-Trimethylbenzene	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
1,3-Dichlorobenzene	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
1,4-Dichlorobenzene	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
2-Butanone	U		12	µg/Kg-dry	1.14	7/11/2023 03:33 AM
2-Hexanone	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
4-Methyl-2-pentanone	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
<b>Acetone</b>	<b>32</b>		<b>12</b>	<b>µg/Kg-dry</b>	1.14	7/11/2023 03:33 AM
<b>Benzene</b>	<b>2.2</b>	J	<b>6.2</b>	<b>µg/Kg-dry</b>	1.14	7/11/2023 03:33 AM
Bromochloromethane	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
Bromodichloromethane	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
Bromoform	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
Bromomethane	U		12	µg/Kg-dry	1.14	7/11/2023 03:33 AM
<b>Carbon disulfide</b>	<b>3.3</b>	J	<b>6.2</b>	<b>µg/Kg-dry</b>	1.14	7/11/2023 03:33 AM
Carbon tetrachloride	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
Chlorobenzene	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
Chloroethane	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
Chloroform	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
Chloromethane	U		12	µg/Kg-dry	1.14	7/11/2023 03:33 AM
cis-1,2-Dichloroethene	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
cis-1,3-Dichloropropene	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
<b>Cyclohexane</b>	<b>4.2</b>	J	<b>12</b>	<b>µg/Kg-dry</b>	1.14	7/11/2023 03:33 AM
Dibromochloromethane	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
Dichlorodifluoromethane	U		12	µg/Kg-dry	1.14	7/11/2023 03:33 AM
<b>Ethylbenzene</b>	<b>1.2</b>	J	<b>6.2</b>	<b>µg/Kg-dry</b>	1.14	7/11/2023 03:33 AM
Isopropylbenzene	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
m,p-Xylene	U		3.1	µg/Kg-dry	1.14	7/11/2023 03:33 AM
Methyl acetate	U		12	µg/Kg-dry	1.14	7/11/2023 03:33 AM
Methyl tert-butyl ether	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
<b>Methylcyclohexane</b>	<b>7.3</b>	J	<b>12</b>	<b>µg/Kg-dry</b>	1.14	7/11/2023 03:33 AM
Methylene chloride	U		12	µg/Kg-dry	1.14	7/11/2023 03:33 AM
o-Xylene	U		3.1	µg/Kg-dry	1.14	7/11/2023 03:33 AM
Styrene	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
Tetrachloroethene	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
<b>Toluene</b>	<b>4.2</b>	J	<b>6.2</b>	<b>µg/Kg-dry</b>	1.14	7/11/2023 03:33 AM
trans-1,2-Dichloroethene	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
trans-1,3-Dichloropropene	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
Trichloroethene	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
Trichlorofluoromethane	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
Vinyl chloride	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM

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

**ALS Group, USA****Date:** 18-Jul-2023**Client:** Tetra Tech**Project:** Boys and Girls Club**Work Order:** 23070106**Sample ID:** SB-10 (25-35)**Lab ID:** 23070106-20**Collection Date:** 6/28/2023 03:10 PM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	U		6.2	µg/Kg-dry	1.14	7/11/2023 03:33 AM
Surr: 1,2-Dichloroethane-d4	123		83-132	%REC	1.14	7/11/2023 03:33 AM
Surr: 4-Bromofluorobenzene	100		83-111	%REC	1.14	7/11/2023 03:33 AM
Surr: Dibromofluoromethane	104		77-125	%REC	1.14	7/11/2023 03:33 AM
Surr: Toluene-d8	95.5		86-108	%REC	1.14	7/11/2023 03:33 AM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	7.4		0.10	% of sample	1	7/12/2023 12:47 PM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-11 (0-3)  
**Collection Date:** 6/29/2023 08:20 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-21  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>		Prep: SW7471 7/5/23 14:09	Analyst: <b>KRA</b>
Mercury	0.052		0.024	mg/Kg-dry	1	7/6/2023 01:52 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>		Prep: SW3050B 7/7/23 12:03	Analyst: <b>STP</b>
Aluminum	8,800		250	mg/Kg-dry	100	7/11/2023 04:03 PM
Antimony	0.23	J	0.31	mg/Kg-dry	1	7/7/2023 07:18 PM
Arsenic	9.9		0.31	mg/Kg-dry	1	7/7/2023 07:18 PM
Barium	230		3.1	mg/Kg-dry	10	7/11/2023 12:12 AM
Beryllium	0.62		0.12	mg/Kg-dry	1	7/7/2023 07:18 PM
Cadmium	0.14		0.12	mg/Kg-dry	1	7/7/2023 07:18 PM
Calcium	3,800		31	mg/Kg-dry	1	7/7/2023 07:18 PM
Chromium	10		0.31	mg/Kg-dry	1	7/7/2023 07:18 PM
Cobalt	7.6		0.31	mg/Kg-dry	1	7/7/2023 07:18 PM
Copper	15		0.31	mg/Kg-dry	1	7/7/2023 07:18 PM
Iron	21,000		120	mg/Kg-dry	10	7/11/2023 12:12 AM
Lead	14		0.31	mg/Kg-dry	1	7/7/2023 07:18 PM
Magnesium	3,500		12	mg/Kg-dry	1	7/7/2023 07:18 PM
Manganese	720		3.1	mg/Kg-dry	10	7/11/2023 12:12 AM
Nickel	20		0.31	mg/Kg-dry	1	7/7/2023 07:18 PM
Potassium	750		12	mg/Kg-dry	1	7/7/2023 07:18 PM
Selenium	U		3.1	mg/Kg-dry	10	7/11/2023 12:12 AM
Silver	0.057	J	0.31	mg/Kg-dry	1	7/7/2023 07:18 PM
Sodium	74		19	mg/Kg-dry	1	7/7/2023 07:18 PM
Thallium	U		3.5	mg/Kg-dry	10	7/12/2023 08:42 PM
Vanadium	22		0.31	mg/Kg-dry	1	7/7/2023 07:18 PM
Zinc	54		0.62	mg/Kg-dry	1	7/7/2023 07:18 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>		Prep: SW3546 7/11/23 14:16	Analyst: <b>EEW</b>
1,1'-Biphenyl	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
1,2,4,5-Tetrachlorobenzene	U		200	µg/Kg-dry	1	7/12/2023 05:33 PM
1,4-Dioxane	U		200	µg/Kg-dry	1	7/12/2023 05:33 PM
1-Methylnaphthalene	U		7.9	µg/Kg-dry	1	7/12/2023 05:33 PM
2,2'-Oxybis(1-chloropropane)	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
2,3,4,6-Tetrachlorophenol	U		80	µg/Kg-dry	1	7/12/2023 05:33 PM
2,4,5-Trichlorophenol	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
2,4,6-Trichlorophenol	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
2,4-Dichlorophenol	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
2,4-Dimethylphenol	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
2,4-Dinitrophenol	U		790	µg/Kg-dry	1	7/12/2023 05:33 PM
2,4-Dinitrotoluene	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-11 (0-3)  
**Collection Date:** 6/29/2023 08:20 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-21  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
2-Chloronaphthalene	U		7.9	µg/Kg-dry	1	7/12/2023 05:33 PM
2-Chlorophenol	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
2-Methylnaphthalene	U		7.9	µg/Kg-dry	1	7/12/2023 05:33 PM
2-Methylphenol	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
2-Nitroaniline	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
2-Nitrophenol	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
3&4-Methylphenol	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
3,3'-Dichlorobenzidine	U		200	µg/Kg-dry	1	7/12/2023 05:33 PM
3-Nitroaniline	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
4,6-Dinitro-2-methylphenol	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
4-Bromophenyl phenyl ether	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
4-Chloro-3-methylphenol	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
4-Chloroaniline	U		80	µg/Kg-dry	1	7/12/2023 05:33 PM
4-Chlorophenyl phenyl ether	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
4-Nitroaniline	U		200	µg/Kg-dry	1	7/12/2023 05:33 PM
4-Nitrophenol	U		200	µg/Kg-dry	1	7/12/2023 05:33 PM
Acenaphthene	U		7.9	µg/Kg-dry	1	7/12/2023 05:33 PM
Acenaphthylene	U		7.9	µg/Kg-dry	1	7/12/2023 05:33 PM
Acetophenone	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
Anthracene	U		7.9	µg/Kg-dry	1	7/12/2023 05:33 PM
Atrazine	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
Benzaldehyde	U		80	µg/Kg-dry	1	7/12/2023 05:33 PM
Benzo(a)anthracene	U		7.9	µg/Kg-dry	1	7/12/2023 05:33 PM
Benzo(a)pyrene	U		7.9	µg/Kg-dry	1	7/12/2023 05:33 PM
Benzo(b)fluoranthene	U		7.9	µg/Kg-dry	1	7/12/2023 05:33 PM
Benzo(g,h,i)perylene	U		7.9	µg/Kg-dry	1	7/12/2023 05:33 PM
Benzo(k)fluoranthene	U		7.9	µg/Kg-dry	1	7/12/2023 05:33 PM
Bis(2-chloroethoxy)methane	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
Bis(2-chloroethyl)ether	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
Bis(2-ethylhexyl)phthalate	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
Butyl benzyl phthalate	U		80	µg/Kg-dry	1	7/12/2023 05:33 PM
<b>Caprolactam</b>	<b>170</b>		<b>80</b>	<b>µg/Kg-dry</b>	1	7/12/2023 05:33 PM
Carbazole	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
Chrysene	U		7.9	µg/Kg-dry	1	7/12/2023 05:33 PM
Dibenzo(a,h)anthracene	U		7.9	µg/Kg-dry	1	7/12/2023 05:33 PM
Dibenzofuran	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
Diethyl phthalate	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
Dimethyl phthalate	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
Di-n-butyl phthalate	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-11 (0-3)  
**Collection Date:** 6/29/2023 08:20 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-21  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
Fluoranthene	U		7.9	µg/Kg-dry	1	7/12/2023 05:33 PM
Fluorene	U		7.9	µg/Kg-dry	1	7/12/2023 05:33 PM
Hexachlorobenzene	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
Hexachlorobutadiene	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
Hexachlorocyclopentadiene	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
Hexachloroethane	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
Indeno(1,2,3-cd)pyrene	U		7.9	µg/Kg-dry	1	7/12/2023 05:33 PM
Isophorone	U		200	µg/Kg-dry	1	7/12/2023 05:33 PM
Naphthalene	U		7.9	µg/Kg-dry	1	7/12/2023 05:33 PM
Nitrobenzene	U		200	µg/Kg-dry	1	7/12/2023 05:33 PM
N-Nitrosodi-n-propylamine	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
N-Nitrosodiphenylamine	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
Pentachlorophenol	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
Phenanthrene	U		7.9	µg/Kg-dry	1	7/12/2023 05:33 PM
Phenol	U		39	µg/Kg-dry	1	7/12/2023 05:33 PM
Pyrene	U		7.9	µg/Kg-dry	1	7/12/2023 05:33 PM
Pyridine	U		200	µg/Kg-dry	1	7/12/2023 05:33 PM
Surr: 2,4,6-Tribromophenol	58.8		48-94	%REC	1	7/12/2023 05:33 PM
Surr: 2-Fluorobiphenyl	71.1		50-103	%REC	1	7/12/2023 05:33 PM
Surr: 2-Fluorophenol	63.9		43-105	%REC	1	7/12/2023 05:33 PM
Surr: 4-Terphenyl-d14	75.1		55-111	%REC	1	7/12/2023 05:33 PM
Surr: Nitrobenzene-d5	75.8		47-100	%REC	1	7/12/2023 05:33 PM
Surr: Phenol-d6	66.7		49-110	%REC	1	7/12/2023 05:33 PM

## VOLATILE ORGANIC COMPOUNDS

SW8260D

Prep: SW5035A 7/6/23 11:37

Analyst: SBR

Acetone	U		140	µg/Kg	1	7/10/2023 01:37 AM
Surr: 1,2-Dichloroethane-d4	101		80-120	%REC	1	7/10/2023 01:37 AM
Surr: 4-Bromofluorobenzene	95.7		80-120	%REC	1	7/10/2023 01:37 AM
Surr: Dibromofluoromethane	93.7		80-120	%REC	1	7/10/2023 01:37 AM
Surr: Toluene-d8	97.1		80-120	%REC	1	7/10/2023 01:37 AM

## VOLATILE ORGANIC COMPOUNDS - LOW LEVEL

SW8260D

Analyst: BAM

1,1,1-Trichloroethane	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
1,1,2,2-Tetrachloroethane	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
1,1,2-Trichloroethane	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
1,1,2-Trichlorotrifluoroethane	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
1,1-Dichloroethane	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
1,1-Dichloroethene	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
1,2,3-Trichlorobenzene	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
1,2,3-Trichloropropane	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-11 (0-3)  
**Collection Date:** 6/29/2023 08:20 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-21  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
1,2,4-Trimethylbenzene	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
1,2-Dibromo-3-chloropropane	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
1,2-Dibromoethane	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
1,2-Dichlorobenzene	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
1,2-Dichloroethane	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
1,2-Dichloropropane	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
1,3,5-Trimethylbenzene	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
1,3-Dichlorobenzene	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
1,4-Dichlorobenzene	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
<b>2-Butanone</b>	<b>26</b>		<b>11</b>	<b>µg/Kg-dry</b>	0.945	7/11/2023 03:50 AM
2-Hexanone	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
4-Methyl-2-pentanone	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Benzene	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Bromochloromethane	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Bromodichloromethane	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Bromoform	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Bromomethane	U		11	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Carbon disulfide	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Carbon tetrachloride	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Chlorobenzene	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Chloroethane	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Chloroform	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Chloromethane	U		11	µg/Kg-dry	0.945	7/11/2023 03:50 AM
cis-1,2-Dichloroethene	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
cis-1,3-Dichloropropene	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Cyclohexane	U		11	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Dibromochloromethane	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Dichlorodifluoromethane	U		11	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Ethylbenzene	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Isopropylbenzene	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
m,p-Xylene	U		2.9	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Methyl acetate	U		11	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Methyl tert-butyl ether	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Methylcyclohexane	U		11	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Methylene chloride	U		11	µg/Kg-dry	0.945	7/11/2023 03:50 AM
o-Xylene	U		2.9	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Styrene	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Tetrachloroethene	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Toluene	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM

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



# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-11 (0-3)  
**Collection Date:** 6/29/2023 08:20 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-21  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,2-Dichloroethene	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
trans-1,3-Dichloropropene	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Trichloroethene	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Trichlorofluoromethane	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Vinyl chloride	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Xylenes, Total	U		5.7	µg/Kg-dry	0.945	7/11/2023 03:50 AM
Surr: 1,2-Dichloroethane-d4	124		83-132	%REC	0.945	7/11/2023 03:50 AM
Surr: 4-Bromofluorobenzene	100		83-111	%REC	0.945	7/11/2023 03:50 AM
Surr: Dibromofluoromethane	108		77-125	%REC	0.945	7/11/2023 03:50 AM
Surr: Toluene-d8	95.3		86-108	%REC	0.945	7/11/2023 03:50 AM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	17		0.10	% of sample	1	7/12/2023 04:07 PM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-11 (27-30)  
**Collection Date:** 6/29/2023 09:00 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-22  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>	Prep: SW7471 7/5/23 14:09		Analyst: <b>KRA</b>
Mercury	0.038		0.019	mg/Kg-dry	1	7/6/2023 01:54 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>	Prep: SW3050B 7/7/23 12:03		Analyst: <b>STP</b>
Aluminum	6,100		280	mg/Kg-dry	100	7/11/2023 04:05 PM
Antimony	0.50		0.35	mg/Kg-dry	1	7/7/2023 07:19 PM
Arsenic	7.7		0.35	mg/Kg-dry	1	7/7/2023 07:19 PM
Barium	300		3.5	mg/Kg-dry	10	7/11/2023 12:14 AM
Beryllium	0.50		0.14	mg/Kg-dry	1	7/7/2023 07:19 PM
Cadmium	0.18		0.14	mg/Kg-dry	1	7/7/2023 07:19 PM
Calcium	28,000		350	mg/Kg-dry	10	7/11/2023 12:14 AM
Chromium	8.4		0.35	mg/Kg-dry	1	7/7/2023 07:19 PM
Cobalt	7.5		0.35	mg/Kg-dry	1	7/7/2023 07:19 PM
Copper	12		0.35	mg/Kg-dry	1	7/7/2023 07:19 PM
Iron	17,000		140	mg/Kg-dry	10	7/11/2023 12:14 AM
Lead	11		0.35	mg/Kg-dry	1	7/7/2023 07:19 PM
Magnesium	10,000		14	mg/Kg-dry	1	7/7/2023 07:19 PM
Manganese	880		3.5	mg/Kg-dry	10	7/11/2023 12:14 AM
Nickel	18		0.35	mg/Kg-dry	1	7/7/2023 07:19 PM
Potassium	1,300		14	mg/Kg-dry	1	7/7/2023 07:19 PM
Selenium	U		3.5	mg/Kg-dry	10	7/11/2023 12:14 AM
Silver	0.079	J	0.35	mg/Kg-dry	1	7/7/2023 07:19 PM
Sodium	140		21	mg/Kg-dry	1	7/7/2023 07:19 PM
Thallium	U		3.5	mg/Kg-dry	10	7/12/2023 08:44 PM
Vanadium	21		0.35	mg/Kg-dry	1	7/7/2023 07:19 PM
Zinc	45		0.70	mg/Kg-dry	1	7/7/2023 07:19 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>	Prep: SW3546 7/11/23 14:16		Analyst: <b>EEW</b>
1,1'-Biphenyl	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
1,2,4,5-Tetrachlorobenzene	U		180	µg/Kg-dry	1	7/12/2023 05:57 PM
1,4-Dioxane	U		180	µg/Kg-dry	1	7/12/2023 05:57 PM
1-Methylnaphthalene	U		7.3	µg/Kg-dry	1	7/12/2023 05:57 PM
2,2'-Oxybis(1-chloropropane)	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
2,3,4,6-Tetrachlorophenol	U		74	µg/Kg-dry	1	7/12/2023 05:57 PM
2,4,5-Trichlorophenol	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
2,4,6-Trichlorophenol	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
2,4-Dichlorophenol	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
2,4-Dimethylphenol	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
2,4-Dinitrophenol	U		730	µg/Kg-dry	1	7/12/2023 05:57 PM
2,4-Dinitrotoluene	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-11 (27-30)  
**Collection Date:** 6/29/2023 09:00 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-22  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
2-Chloronaphthalene	U		7.3	µg/Kg-dry	1	7/12/2023 05:57 PM
2-Chlorophenol	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
2-Methylnaphthalene	U		7.3	µg/Kg-dry	1	7/12/2023 05:57 PM
2-Methylphenol	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
2-Nitroaniline	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
2-Nitrophenol	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
3&4-Methylphenol	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
3,3'-Dichlorobenzidine	U		180	µg/Kg-dry	1	7/12/2023 05:57 PM
3-Nitroaniline	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
4,6-Dinitro-2-methylphenol	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
4-Bromophenyl phenyl ether	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
4-Chloro-3-methylphenol	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
4-Chloroaniline	U		74	µg/Kg-dry	1	7/12/2023 05:57 PM
4-Chlorophenyl phenyl ether	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
4-Nitroaniline	U		180	µg/Kg-dry	1	7/12/2023 05:57 PM
4-Nitrophenol	U		180	µg/Kg-dry	1	7/12/2023 05:57 PM
Acenaphthene	U		7.3	µg/Kg-dry	1	7/12/2023 05:57 PM
Acenaphthylene	U		7.3	µg/Kg-dry	1	7/12/2023 05:57 PM
Acetophenone	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
Anthracene	U		7.3	µg/Kg-dry	1	7/12/2023 05:57 PM
Atrazine	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
Benzaldehyde	U		74	µg/Kg-dry	1	7/12/2023 05:57 PM
Benzo(a)anthracene	U		7.3	µg/Kg-dry	1	7/12/2023 05:57 PM
Benzo(a)pyrene	U		7.3	µg/Kg-dry	1	7/12/2023 05:57 PM
Benzo(b)fluoranthene	U		7.3	µg/Kg-dry	1	7/12/2023 05:57 PM
Benzo(g,h,i)perylene	U		7.3	µg/Kg-dry	1	7/12/2023 05:57 PM
Benzo(k)fluoranthene	U		7.3	µg/Kg-dry	1	7/12/2023 05:57 PM
Bis(2-chloroethoxy)methane	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
Bis(2-chloroethyl)ether	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
Bis(2-ethylhexyl)phthalate	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
Butyl benzyl phthalate	U		74	µg/Kg-dry	1	7/12/2023 05:57 PM
Caprolactam	U		74	µg/Kg-dry	1	7/12/2023 05:57 PM
Carbazole	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
Chrysene	U		7.3	µg/Kg-dry	1	7/12/2023 05:57 PM
Dibenzo(a,h)anthracene	U		7.3	µg/Kg-dry	1	7/12/2023 05:57 PM
Dibenzofuran	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
Diethyl phthalate	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
Dimethyl phthalate	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
Di-n-butyl phthalate	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-11 (27-30)  
**Collection Date:** 6/29/2023 09:00 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-22  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
Fluoranthene	U		7.3	µg/Kg-dry	1	7/12/2023 05:57 PM
Fluorene	U		7.3	µg/Kg-dry	1	7/12/2023 05:57 PM
Hexachlorobenzene	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
Hexachlorobutadiene	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
Hexachlorocyclopentadiene	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
Hexachloroethane	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
Indeno(1,2,3-cd)pyrene	U		7.3	µg/Kg-dry	1	7/12/2023 05:57 PM
Isophorone	U		180	µg/Kg-dry	1	7/12/2023 05:57 PM
Naphthalene	U		7.3	µg/Kg-dry	1	7/12/2023 05:57 PM
Nitrobenzene	U		180	µg/Kg-dry	1	7/12/2023 05:57 PM
N-Nitrosodi-n-propylamine	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
N-Nitrosodiphenylamine	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
Pentachlorophenol	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
Phenanthrene	U		7.3	µg/Kg-dry	1	7/12/2023 05:57 PM
Phenol	U		36	µg/Kg-dry	1	7/12/2023 05:57 PM
Pyrene	U		7.3	µg/Kg-dry	1	7/12/2023 05:57 PM
Pyridine	U		180	µg/Kg-dry	1	7/12/2023 05:57 PM
Surr: 2,4,6-Tribromophenol	34.4	S	48-94	%REC	1	7/12/2023 05:57 PM
Surr: 2-Fluorobiphenyl	67.6		50-103	%REC	1	7/12/2023 05:57 PM
Surr: 2-Fluorophenol	39.5	S	43-105	%REC	1	7/12/2023 05:57 PM
Surr: 4-Terphenyl-d14	76.6		55-111	%REC	1	7/12/2023 05:57 PM
Surr: Nitrobenzene-d5	67.3		47-100	%REC	1	7/12/2023 05:57 PM
Surr: Phenol-d6	48.7	S	49-110	%REC	1	7/12/2023 05:57 PM

## VOLATILE ORGANIC COMPOUNDS - LOW LEVEL

SW8260D

Analyst: BAM

1,1,1-Trichloroethane	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
1,1,2,2-Tetrachloroethane	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
1,1,2-Trichloroethane	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
1,1,2-Trichlorotrifluoroethane	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
1,1-Dichloroethane	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
1,1-Dichloroethene	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
1,2,3-Trichlorobenzene	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
1,2,3-Trichloropropane	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
1,2,4-Trichlorobenzene	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
1,2,4-Trimethylbenzene	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
1,2-Dibromo-3-chloropropane	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
1,2-Dibromoethane	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
1,2-Dichlorobenzene	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
1,2-Dichloroethane	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-11 (27-30)  
**Collection Date:** 6/29/2023 09:00 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-22  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
1,3,5-Trimethylbenzene	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
1,3-Dichlorobenzene	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
1,4-Dichlorobenzene	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
2-Butanone	U		12	µg/Kg-dry	1.07	7/11/2023 04:07 AM
2-Hexanone	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
4-Methyl-2-pentanone	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
<b>Acetone</b>	<b>11</b>	<b>J</b>	<b>12</b>	<b>µg/Kg-dry</b>	1.07	7/11/2023 04:07 AM
<b>Benzene</b>	<b>2.2</b>	<b>J</b>	<b>6.2</b>	<b>µg/Kg-dry</b>	1.07	7/11/2023 04:07 AM
Bromochloromethane	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
Bromodichloromethane	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
Bromoform	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
Bromomethane	U		12	µg/Kg-dry	1.07	7/11/2023 04:07 AM
Carbon disulfide	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
Carbon tetrachloride	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
Chlorobenzene	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
Chloroethane	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
Chloroform	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
Chloromethane	U		12	µg/Kg-dry	1.07	7/11/2023 04:07 AM
cis-1,2-Dichloroethene	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
cis-1,3-Dichloropropene	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
<b>Cyclohexane</b>	<b>4.5</b>	<b>J</b>	<b>12</b>	<b>µg/Kg-dry</b>	1.07	7/11/2023 04:07 AM
Dibromochloromethane	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
Dichlorodifluoromethane	U		12	µg/Kg-dry	1.07	7/11/2023 04:07 AM
Ethylbenzene	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
Isopropylbenzene	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
m,p-Xylene	U		3.1	µg/Kg-dry	1.07	7/11/2023 04:07 AM
Methyl acetate	U		12	µg/Kg-dry	1.07	7/11/2023 04:07 AM
Methyl tert-butyl ether	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
<b>Methylcyclohexane</b>	<b>6.6</b>	<b>J</b>	<b>12</b>	<b>µg/Kg-dry</b>	1.07	7/11/2023 04:07 AM
Methylene chloride	U		12	µg/Kg-dry	1.07	7/11/2023 04:07 AM
o-Xylene	U		3.1	µg/Kg-dry	1.07	7/11/2023 04:07 AM
Styrene	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
Tetrachloroethene	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
<b>Toluene</b>	<b>3.8</b>	<b>J</b>	<b>6.2</b>	<b>µg/Kg-dry</b>	1.07	7/11/2023 04:07 AM
trans-1,2-Dichloroethene	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
trans-1,3-Dichloropropene	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
Trichloroethene	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
Trichlorofluoromethane	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
Vinyl chloride	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-11 (27-30)  
**Collection Date:** 6/29/2023 09:00 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-22  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	U		6.2	µg/Kg-dry	1.07	7/11/2023 04:07 AM
Surr: 1,2-Dichloroethane-d4	124		83-132	%REC	1.07	7/11/2023 04:07 AM
Surr: 4-Bromofluorobenzene	103		83-111	%REC	1.07	7/11/2023 04:07 AM
Surr: Dibromofluoromethane	104		77-125	%REC	1.07	7/11/2023 04:07 AM
Surr: Toluene-d8	94.4		86-108	%REC	1.07	7/11/2023 04:07 AM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	13		0.10	% of sample	1	7/12/2023 04:07 PM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-12 (0-3)  
**Collection Date:** 6/29/2023 09:26 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-23  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>	Prep: SW7471 7/5/23 14:09		Analyst: <b>KRA</b>
Mercury	0.066		0.019	mg/Kg-dry	1	7/6/2023 01:55 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>	Prep: SW3050B 7/7/23 12:03		Analyst: <b>STP</b>
Aluminum	5,300		240	mg/Kg-dry	100	7/11/2023 04:06 PM
Antimony	0.30		0.30	mg/Kg-dry	1	7/7/2023 07:21 PM
Arsenic	5.7		0.30	mg/Kg-dry	1	7/7/2023 07:21 PM
Barium	160		3.0	mg/Kg-dry	10	7/11/2023 12:19 AM
Beryllium	0.45		0.12	mg/Kg-dry	1	7/7/2023 07:21 PM
Cadmium	0.79		0.12	mg/Kg-dry	1	7/7/2023 07:21 PM
Calcium	14,000		300	mg/Kg-dry	10	7/11/2023 12:19 AM
Chromium	6.1		0.30	mg/Kg-dry	1	7/7/2023 07:21 PM
Cobalt	4.6		0.30	mg/Kg-dry	1	7/7/2023 07:21 PM
Copper	8.8		0.30	mg/Kg-dry	1	7/7/2023 07:21 PM
Iron	9,500		12	mg/Kg-dry	1	7/7/2023 07:21 PM
Lead	22		0.30	mg/Kg-dry	1	7/7/2023 07:21 PM
Magnesium	4,600		12	mg/Kg-dry	1	7/7/2023 07:21 PM
Manganese	610		3.0	mg/Kg-dry	10	7/11/2023 12:19 AM
Nickel	12		0.30	mg/Kg-dry	1	7/7/2023 07:21 PM
Potassium	680		12	mg/Kg-dry	1	7/7/2023 07:21 PM
Selenium	0.29	J	0.30	mg/Kg-dry	1	7/7/2023 07:21 PM
Silver	0.049	J	0.30	mg/Kg-dry	1	7/7/2023 07:21 PM
Sodium	71		18	mg/Kg-dry	1	7/7/2023 07:21 PM
Thallium	U		3.1	mg/Kg-dry	10	7/12/2023 08:46 PM
Vanadium	15		0.30	mg/Kg-dry	1	7/7/2023 07:21 PM
Zinc	89		0.60	mg/Kg-dry	1	7/7/2023 07:21 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>	Prep: SW3546 7/11/23 14:16		Analyst: <b>EEW</b>
1,1'-Biphenyl	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
1,2,4,5-Tetrachlorobenzene	U		180	µg/Kg-dry	1	7/12/2023 06:20 PM
1,4-Dioxane	U		180	µg/Kg-dry	1	7/12/2023 06:20 PM
1-Methylnaphthalene	U		7.1	µg/Kg-dry	1	7/12/2023 06:20 PM
2,2'-Oxybis(1-chloropropane)	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
2,3,4,6-Tetrachlorophenol	U		71	µg/Kg-dry	1	7/12/2023 06:20 PM
2,4,5-Trichlorophenol	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
2,4,6-Trichlorophenol	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
2,4-Dichlorophenol	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
2,4-Dimethylphenol	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
2,4-Dinitrophenol	U		710	µg/Kg-dry	1	7/12/2023 06:20 PM
2,4-Dinitrotoluene	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-12 (0-3)  
**Collection Date:** 6/29/2023 09:26 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-23  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
2-Chloronaphthalene	U		7.1	µg/Kg-dry	1	7/12/2023 06:20 PM
2-Chlorophenol	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
<b>2-Methylnaphthalene</b>	<b>4.3</b>	J	<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/12/2023 06:20 PM
2-Methylphenol	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
2-Nitroaniline	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
2-Nitrophenol	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
3&4-Methylphenol	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
3,3'-Dichlorobenzidine	U		180	µg/Kg-dry	1	7/12/2023 06:20 PM
3-Nitroaniline	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
4,6-Dinitro-2-methylphenol	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
4-Bromophenyl phenyl ether	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
4-Chloro-3-methylphenol	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
4-Chloroaniline	U		71	µg/Kg-dry	1	7/12/2023 06:20 PM
4-Chlorophenyl phenyl ether	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
4-Nitroaniline	U		180	µg/Kg-dry	1	7/12/2023 06:20 PM
4-Nitrophenol	U		180	µg/Kg-dry	1	7/12/2023 06:20 PM
Acenaphthene	U		7.1	µg/Kg-dry	1	7/12/2023 06:20 PM
Acenaphthylene	U		7.1	µg/Kg-dry	1	7/12/2023 06:20 PM
Acetophenone	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
<b>Anthracene</b>	<b>5.7</b>	J	<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/12/2023 06:20 PM
Atrazine	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
Benzaldehyde	U		71	µg/Kg-dry	1	7/12/2023 06:20 PM
<b>Benzo(a)anthracene</b>	<b>13</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/12/2023 06:20 PM
<b>Benzo(a)pyrene</b>	<b>18</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/12/2023 06:20 PM
<b>Benzo(b)fluoranthene</b>	<b>18</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/12/2023 06:20 PM
<b>Benzo(g,h,i)perylene</b>	<b>7.8</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/12/2023 06:20 PM
<b>Benzo(k)fluoranthene</b>	<b>11</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/12/2023 06:20 PM
Bis(2-chloroethoxy)methane	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
Bis(2-chloroethyl)ether	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
Bis(2-ethylhexyl)phthalate	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
Butyl benzyl phthalate	U		71	µg/Kg-dry	1	7/12/2023 06:20 PM
Caprolactam	U		71	µg/Kg-dry	1	7/12/2023 06:20 PM
Carbazole	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
<b>Chrysene</b>	<b>8.5</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/12/2023 06:20 PM
Dibenzo(a,h)anthracene	U		7.1	µg/Kg-dry	1	7/12/2023 06:20 PM
Dibenzofuran	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
Diethyl phthalate	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
Dimethyl phthalate	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
Di-n-butyl phthalate	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM

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



# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-12 (0-3)  
**Collection Date:** 6/29/2023 09:26 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-23  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
<b>Fluoranthene</b>	<b>21</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/12/2023 06:20 PM
Fluorene	U		7.1	µg/Kg-dry	1	7/12/2023 06:20 PM
Hexachlorobenzene	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
Hexachlorobutadiene	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
Hexachlorocyclopentadiene	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
Hexachloroethane	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
Indeno(1,2,3-cd)pyrene	U		7.1	µg/Kg-dry	1	7/12/2023 06:20 PM
Isophorone	U		180	µg/Kg-dry	1	7/12/2023 06:20 PM
Naphthalene	U		7.1	µg/Kg-dry	1	7/12/2023 06:20 PM
Nitrobenzene	U		180	µg/Kg-dry	1	7/12/2023 06:20 PM
N-Nitrosodi-n-propylamine	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
N-Nitrosodiphenylamine	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
Pentachlorophenol	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
<b>Phenanthrene</b>	<b>11</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/12/2023 06:20 PM
Phenol	U		35	µg/Kg-dry	1	7/12/2023 06:20 PM
<b>Pyrene</b>	<b>20</b>		<b>7.1</b>	<b>µg/Kg-dry</b>	1	7/12/2023 06:20 PM
Pyridine	U		180	µg/Kg-dry	1	7/12/2023 06:20 PM
Surr: 2,4,6-Tribromophenol	51.3		48-94	%REC	1	7/12/2023 06:20 PM
Surr: 2-Fluorobiphenyl	63.0		50-103	%REC	1	7/12/2023 06:20 PM
Surr: 2-Fluorophenol	46.3		43-105	%REC	1	7/12/2023 06:20 PM
Surr: 4-Terphenyl-d14	68.3		55-111	%REC	1	7/12/2023 06:20 PM
Surr: Nitrobenzene-d5	62.0		47-100	%REC	1	7/12/2023 06:20 PM
Surr: Phenol-d6	52.0		49-110	%REC	1	7/12/2023 06:20 PM

## VOLATILE ORGANIC COMPOUNDS

SW8260D

Prep: SW5035A 7/6/23 11:37

Analyst: EZH

1,1,1-Trichloroethane	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
1,1,2,2-Tetrachloroethane	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
1,1,2-Trichloroethane	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
1,1,2-Trichlorotrifluoroethane	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
1,1-Dichloroethane	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
1,1-Dichloroethene	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
1,2,3-Trichlorobenzene	U		130	µg/Kg-dry	1	7/12/2023 09:18 PM
1,2,3-Trichloropropane	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
1,2,4-Trichlorobenzene	U		130	µg/Kg-dry	1	7/12/2023 09:18 PM
1,2,4-Trimethylbenzene	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
1,2-Dibromo-3-chloropropane	U		130	µg/Kg-dry	1	7/12/2023 09:18 PM
1,2-Dibromoethane	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
1,2-Dichlorobenzene	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
1,2-Dichloroethane	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-12 (0-3)  
**Collection Date:** 6/29/2023 09:26 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-23  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
1,3,5-Trimethylbenzene	U		130	µg/Kg-dry	1	7/12/2023 09:18 PM
1,3-Dichlorobenzene	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
1,4-Dichlorobenzene	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
2-Butanone	U		250	µg/Kg-dry	1	7/12/2023 09:18 PM
2-Hexanone	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
4-Methyl-2-pentanone	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
Acetone	U		130	µg/Kg-dry	1	7/12/2023 09:18 PM
Benzene	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
Bromochloromethane	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
Bromodichloromethane	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
Bromoform	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
Bromomethane	U		130	µg/Kg-dry	1	7/12/2023 09:18 PM
Carbon disulfide	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
Carbon tetrachloride	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
Chlorobenzene	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
Chloroethane	U		130	µg/Kg-dry	1	7/12/2023 09:18 PM
Chloroform	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
Chloromethane	U		130	µg/Kg-dry	1	7/12/2023 09:18 PM
cis-1,2-Dichloroethene	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
cis-1,3-Dichloropropene	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
Cyclohexane	U		130	µg/Kg-dry	1	7/12/2023 09:18 PM
Dibromochloromethane	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
Dichlorodifluoromethane	U		130	µg/Kg-dry	1	7/12/2023 09:18 PM
Ethylbenzene	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
Isopropylbenzene	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
m,p-Xylene	U		76	µg/Kg-dry	1	7/12/2023 09:18 PM
<b>Methyl acetate</b>	<b>55</b>	<b>J</b>	<b>320</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>7/12/2023 09:18 PM</b>
Methyl tert-butyl ether	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
Methylcyclohexane	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
Methylene chloride	U		320	µg/Kg-dry	1	7/12/2023 09:18 PM
o-Xylene	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
Styrene	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
Tetrachloroethene	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
Toluene	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
trans-1,2-Dichloroethene	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
trans-1,3-Dichloropropene	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
Trichloroethene	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
Trichlorofluoromethane	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM
Vinyl chloride	U		38	µg/Kg-dry	1	7/12/2023 09:18 PM

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

**ALS Group, USA**

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-12 (0-3)  
**Collection Date:** 6/29/2023 09:26 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-23  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	U		110	µg/Kg-dry	1	7/12/2023 09:18 PM
Surr: 1,2-Dichloroethane-d4	102		80-120	%REC	1	7/12/2023 09:18 PM
Surr: 4-Bromofluorobenzene	100		80-120	%REC	1	7/12/2023 09:18 PM
Surr: Dibromofluoromethane	99.1		80-120	%REC	1	7/12/2023 09:18 PM
Surr: Toluene-d8	96.9		80-120	%REC	1	7/12/2023 09:18 PM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	8.3		0.10	% of sample	1	7/12/2023 04:07 PM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-12 (32-35)  
**Collection Date:** 6/29/2023 09:50 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-24  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>	Prep: SW7471 7/5/23 14:09		Analyst: <b>KRA</b>
Mercury	0.029		0.019	mg/Kg-dry	1	7/6/2023 01:57 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>	Prep: SW3050B 7/7/23 12:03		Analyst: <b>STP</b>
Aluminum	4,700		230	mg/Kg-dry	100	7/11/2023 04:08 PM
Antimony	0.40		0.29	mg/Kg-dry	1	7/7/2023 07:23 PM
Arsenic	6.0		0.29	mg/Kg-dry	1	7/7/2023 07:23 PM
Barium	210		2.9	mg/Kg-dry	10	7/11/2023 12:21 AM
Beryllium	0.41		0.12	mg/Kg-dry	1	7/7/2023 07:23 PM
Cadmium	0.18		0.12	mg/Kg-dry	1	7/7/2023 07:23 PM
Calcium	21,000		290	mg/Kg-dry	10	7/11/2023 12:21 AM
Chromium	6.7		0.29	mg/Kg-dry	1	7/7/2023 07:23 PM
Cobalt	6.6		0.29	mg/Kg-dry	1	7/7/2023 07:23 PM
Copper	11		0.29	mg/Kg-dry	1	7/7/2023 07:23 PM
Iron	10,000		12	mg/Kg-dry	1	7/7/2023 07:23 PM
Lead	8.7		0.29	mg/Kg-dry	1	7/7/2023 07:23 PM
Magnesium	8,800		12	mg/Kg-dry	1	7/7/2023 07:23 PM
Manganese	720		2.9	mg/Kg-dry	10	7/11/2023 12:21 AM
Nickel	16		0.29	mg/Kg-dry	1	7/7/2023 07:23 PM
Potassium	1,100		12	mg/Kg-dry	1	7/7/2023 07:23 PM
Selenium	0.27	J	0.29	mg/Kg-dry	1	7/7/2023 07:23 PM
Silver	0.060	J	0.29	mg/Kg-dry	1	7/7/2023 07:23 PM
Sodium	75		17	mg/Kg-dry	1	7/7/2023 07:23 PM
Thallium	U		3.3	mg/Kg-dry	10	7/12/2023 08:48 PM
Vanadium	17		0.29	mg/Kg-dry	1	7/7/2023 07:23 PM
Zinc	37		0.58	mg/Kg-dry	1	7/7/2023 07:23 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>	Prep: SW3546 7/11/23 14:16		Analyst: <b>EEW</b>
1,1'-Biphenyl	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
1,2,4,5-Tetrachlorobenzene	U		180	µg/Kg-dry	1	7/12/2023 06:43 PM
1,4-Dioxane	U		180	µg/Kg-dry	1	7/12/2023 06:43 PM
1-Methylnaphthalene	U		7.2	µg/Kg-dry	1	7/12/2023 06:43 PM
2,2'-Oxybis(1-chloropropane)	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
2,3,4,6-Tetrachlorophenol	U		72	µg/Kg-dry	1	7/12/2023 06:43 PM
2,4,5-Trichlorophenol	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
2,4,6-Trichlorophenol	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
2,4-Dichlorophenol	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
2,4-Dimethylphenol	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
2,4-Dinitrophenol	U		720	µg/Kg-dry	1	7/12/2023 06:43 PM
2,4-Dinitrotoluene	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-12 (32-35)  
**Collection Date:** 6/29/2023 09:50 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-24  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
2-Chloronaphthalene	U		7.2	µg/Kg-dry	1	7/12/2023 06:43 PM
2-Chlorophenol	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
2-Methylnaphthalene	U		7.2	µg/Kg-dry	1	7/12/2023 06:43 PM
2-Methylphenol	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
2-Nitroaniline	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
2-Nitrophenol	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
3&4-Methylphenol	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
3,3'-Dichlorobenzidine	U		180	µg/Kg-dry	1	7/12/2023 06:43 PM
3-Nitroaniline	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
4,6-Dinitro-2-methylphenol	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
4-Bromophenyl phenyl ether	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
4-Chloro-3-methylphenol	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
4-Chloroaniline	U		72	µg/Kg-dry	1	7/12/2023 06:43 PM
4-Chlorophenyl phenyl ether	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
4-Nitroaniline	U		180	µg/Kg-dry	1	7/12/2023 06:43 PM
4-Nitrophenol	U		180	µg/Kg-dry	1	7/12/2023 06:43 PM
Acenaphthene	U		7.2	µg/Kg-dry	1	7/12/2023 06:43 PM
Acenaphthylene	U		7.2	µg/Kg-dry	1	7/12/2023 06:43 PM
Acetophenone	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
Anthracene	U		7.2	µg/Kg-dry	1	7/12/2023 06:43 PM
Atrazine	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
Benzaldehyde	U		72	µg/Kg-dry	1	7/12/2023 06:43 PM
Benzo(a)anthracene	U		7.2	µg/Kg-dry	1	7/12/2023 06:43 PM
Benzo(a)pyrene	U		7.2	µg/Kg-dry	1	7/12/2023 06:43 PM
Benzo(b)fluoranthene	U		7.2	µg/Kg-dry	1	7/12/2023 06:43 PM
Benzo(g,h,i)perylene	U		7.2	µg/Kg-dry	1	7/12/2023 06:43 PM
Benzo(k)fluoranthene	U		7.2	µg/Kg-dry	1	7/12/2023 06:43 PM
Bis(2-chloroethoxy)methane	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
Bis(2-chloroethyl)ether	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
Bis(2-ethylhexyl)phthalate	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
Butyl benzyl phthalate	U		72	µg/Kg-dry	1	7/12/2023 06:43 PM
Caprolactam	U		72	µg/Kg-dry	1	7/12/2023 06:43 PM
Carbazole	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
Chrysene	U		7.2	µg/Kg-dry	1	7/12/2023 06:43 PM
Dibenzo(a,h)anthracene	U		7.2	µg/Kg-dry	1	7/12/2023 06:43 PM
Dibenzofuran	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
Diethyl phthalate	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
Dimethyl phthalate	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
Di-n-butyl phthalate	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-12 (32-35)  
**Collection Date:** 6/29/2023 09:50 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-24  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
Fluoranthene	U		7.2	µg/Kg-dry	1	7/12/2023 06:43 PM
Fluorene	U		7.2	µg/Kg-dry	1	7/12/2023 06:43 PM
Hexachlorobenzene	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
Hexachlorobutadiene	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
Hexachlorocyclopentadiene	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
Hexachloroethane	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
Indeno(1,2,3-cd)pyrene	U		7.2	µg/Kg-dry	1	7/12/2023 06:43 PM
Isophorone	U		180	µg/Kg-dry	1	7/12/2023 06:43 PM
Naphthalene	U		7.2	µg/Kg-dry	1	7/12/2023 06:43 PM
Nitrobenzene	U		180	µg/Kg-dry	1	7/12/2023 06:43 PM
N-Nitrosodi-n-propylamine	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
N-Nitrosodiphenylamine	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
Pentachlorophenol	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
Phenanthrene	U		7.2	µg/Kg-dry	1	7/12/2023 06:43 PM
Phenol	U		36	µg/Kg-dry	1	7/12/2023 06:43 PM
Pyrene	U		7.2	µg/Kg-dry	1	7/12/2023 06:43 PM
Pyridine	U		180	µg/Kg-dry	1	7/12/2023 06:43 PM
Surr: 2,4,6-Tribromophenol	47.9	S	48-94	%REC	1	7/12/2023 06:43 PM
Surr: 2-Fluorobiphenyl	62.3		50-103	%REC	1	7/12/2023 06:43 PM
Surr: 2-Fluorophenol	58.4		43-105	%REC	1	7/12/2023 06:43 PM
Surr: 4-Terphenyl-d14	54.8	S	55-111	%REC	1	7/12/2023 06:43 PM
Surr: Nitrobenzene-d5	73.2		47-100	%REC	1	7/12/2023 06:43 PM
Surr: Phenol-d6	61.4		49-110	%REC	1	7/12/2023 06:43 PM

## VOLATILE ORGANIC COMPOUNDS

SW8260D

Prep: SW5035A 7/6/23 11:37

Analyst: EZH

1,1,1-Trichloroethane	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
1,1,2,2-Tetrachloroethane	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
1,1,2-Trichloroethane	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
1,1,2-Trichlorotrifluoroethane	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
1,1-Dichloroethane	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
1,1-Dichloroethene	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
1,2,3-Trichlorobenzene	U		130	µg/Kg-dry	1	7/12/2023 09:36 PM
1,2,3-Trichloropropane	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
1,2,4-Trichlorobenzene	U		130	µg/Kg-dry	1	7/12/2023 09:36 PM
1,2,4-Trimethylbenzene	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
1,2-Dibromo-3-chloropropane	U		130	µg/Kg-dry	1	7/12/2023 09:36 PM
1,2-Dibromoethane	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
1,2-Dichlorobenzene	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
1,2-Dichloroethane	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-12 (32-35)  
**Collection Date:** 6/29/2023 09:50 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-24  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
1,3,5-Trimethylbenzene	U		130	µg/Kg-dry	1	7/12/2023 09:36 PM
1,3-Dichlorobenzene	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
1,4-Dichlorobenzene	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
2-Butanone	U		260	µg/Kg-dry	1	7/12/2023 09:36 PM
2-Hexanone	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
4-Methyl-2-pentanone	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
Acetone	U		130	µg/Kg-dry	1	7/12/2023 09:36 PM
Benzene	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
Bromochloromethane	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
Bromodichloromethane	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
Bromoform	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
Bromomethane	U		130	µg/Kg-dry	1	7/12/2023 09:36 PM
Carbon disulfide	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
Carbon tetrachloride	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
Chlorobenzene	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
Chloroethane	U		130	µg/Kg-dry	1	7/12/2023 09:36 PM
Chloroform	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
Chloromethane	U		130	µg/Kg-dry	1	7/12/2023 09:36 PM
cis-1,2-Dichloroethene	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
cis-1,3-Dichloropropene	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
Cyclohexane	U		130	µg/Kg-dry	1	7/12/2023 09:36 PM
Dibromochloromethane	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
Dichlorodifluoromethane	U		130	µg/Kg-dry	1	7/12/2023 09:36 PM
Ethylbenzene	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
Isopropylbenzene	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
m,p-Xylene	U		78	µg/Kg-dry	1	7/12/2023 09:36 PM
Methyl acetate	U		320	µg/Kg-dry	1	7/12/2023 09:36 PM
Methyl tert-butyl ether	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
Methylcyclohexane	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
Methylene chloride	U		320	µg/Kg-dry	1	7/12/2023 09:36 PM
o-Xylene	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
Styrene	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
Tetrachloroethene	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
Toluene	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
trans-1,2-Dichloroethene	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
trans-1,3-Dichloropropene	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
Trichloroethene	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
Trichlorofluoromethane	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM
Vinyl chloride	U		39	µg/Kg-dry	1	7/12/2023 09:36 PM

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

**ALS Group, USA****Date:** 18-Jul-2023**Client:** Tetra Tech**Project:** Boys and Girls Club**Work Order:** 23070106**Sample ID:** SB-12 (32-35)**Lab ID:** 23070106-24**Collection Date:** 6/29/2023 09:50 AM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	U		120	µg/Kg-dry	1	7/12/2023 09:36 PM
Surr: 1,2-Dichloroethane-d4	102		80-120	%REC	1	7/12/2023 09:36 PM
Surr: 4-Bromofluorobenzene	101		80-120	%REC	1	7/12/2023 09:36 PM
Surr: Dibromofluoromethane	95.6		80-120	%REC	1	7/12/2023 09:36 PM
Surr: Toluene-d8	99.4		80-120	%REC	1	7/12/2023 09:36 PM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	11		0.10	% of sample	1	7/12/2023 04:07 PM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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



# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** Trip Blank  
**Collection Date:** 6/29/2023 10:00 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-25  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260D</b>	Prep: SW5035A 7/6/23 11:37	Analyst: EZH	
1,1,1-Trichloroethane	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
1,1,2,2-Tetrachloroethane	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
1,1,2-Trichloroethane	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
1,1,2-Trichlorotrifluoroethane	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
1,1-Dichloroethane	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
1,1-Dichloroethene	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
1,2,3-Trichlorobenzene	U		100	µg/Kg-dry	1	7/12/2023 09:54 PM
1,2,3-Trichloropropane	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
1,2,4-Trichlorobenzene	U		100	µg/Kg-dry	1	7/12/2023 09:54 PM
1,2,4-Trimethylbenzene	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
1,2-Dibromo-3-chloropropane	U		100	µg/Kg-dry	1	7/12/2023 09:54 PM
1,2-Dibromoethane	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
1,2-Dichlorobenzene	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
1,2-Dichloroethane	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
1,2-Dichloropropane	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
1,3,5-Trimethylbenzene	U		100	µg/Kg-dry	1	7/12/2023 09:54 PM
1,3-Dichlorobenzene	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
1,4-Dichlorobenzene	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
2-Butanone	U		200	µg/Kg-dry	1	7/12/2023 09:54 PM
2-Hexanone	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
4-Methyl-2-pentanone	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
Acetone	U		100	µg/Kg-dry	1	7/12/2023 09:54 PM
Benzene	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
Bromochloromethane	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
Bromodichloromethane	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
Bromoform	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
Bromomethane	U		100	µg/Kg-dry	1	7/12/2023 09:54 PM
Carbon disulfide	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
Carbon tetrachloride	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
Chlorobenzene	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
Chloroethane	U		100	µg/Kg-dry	1	7/12/2023 09:54 PM
Chloroform	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
Chloromethane	U		100	µg/Kg-dry	1	7/12/2023 09:54 PM
cis-1,2-Dichloroethene	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
cis-1,3-Dichloropropene	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
Cyclohexane	U		100	µg/Kg-dry	1	7/12/2023 09:54 PM
Dibromochloromethane	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
Dichlorodifluoromethane	U		100	µg/Kg-dry	1	7/12/2023 09:54 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** Trip Blank  
**Collection Date:** 6/29/2023 10:00 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-25  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
Isopropylbenzene	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
m,p-Xylene	U		60	µg/Kg-dry	1	7/12/2023 09:54 PM
Methyl acetate	U		250	µg/Kg-dry	1	7/12/2023 09:54 PM
Methyl tert-butyl ether	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
Methylcyclohexane	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
Methylene chloride	U		250	µg/Kg-dry	1	7/12/2023 09:54 PM
o-Xylene	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
Styrene	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
Tetrachloroethene	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
Toluene	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
trans-1,2-Dichloroethene	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
trans-1,3-Dichloropropene	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
Trichloroethene	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
Trichlorofluoromethane	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
Vinyl chloride	U		30	µg/Kg-dry	1	7/12/2023 09:54 PM
Xylenes, Total	U		90	µg/Kg-dry	1	7/12/2023 09:54 PM
Surr: 1,2-Dichloroethane-d4	101		80-120	%REC	1	7/12/2023 09:54 PM
Surr: 4-Bromofluorobenzene	99.6		80-120	%REC	1	7/12/2023 09:54 PM
Surr: Dibromofluoromethane	95.6		80-120	%REC	1	7/12/2023 09:54 PM
Surr: Toluene-d8	97.8		80-120	%REC	1	7/12/2023 09:54 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** Trip Blank  
**Collection Date:** 6/29/2023 10:00 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-26  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260D</b>	Prep: SW5035A 7/6/23 11:37	Analyst: EZH	
1,1,1-Trichloroethane	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
1,1,2,2-Tetrachloroethane	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
1,1,2-Trichloroethane	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
1,1,2-Trichlorotrifluoroethane	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
1,1-Dichloroethane	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
1,1-Dichloroethene	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
1,2,3-Trichlorobenzene	U		100	µg/Kg-dry	1	7/12/2023 10:12 PM
1,2,3-Trichloropropane	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
1,2,4-Trichlorobenzene	U		100	µg/Kg-dry	1	7/12/2023 10:12 PM
1,2,4-Trimethylbenzene	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
1,2-Dibromo-3-chloropropane	U		100	µg/Kg-dry	1	7/12/2023 10:12 PM
1,2-Dibromoethane	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
1,2-Dichlorobenzene	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
1,2-Dichloroethane	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
1,2-Dichloropropane	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
1,3,5-Trimethylbenzene	U		100	µg/Kg-dry	1	7/12/2023 10:12 PM
1,3-Dichlorobenzene	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
1,4-Dichlorobenzene	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
2-Butanone	U		200	µg/Kg-dry	1	7/12/2023 10:12 PM
2-Hexanone	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
4-Methyl-2-pentanone	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
Acetone	U		100	µg/Kg-dry	1	7/12/2023 10:12 PM
Benzene	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
Bromochloromethane	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
Bromodichloromethane	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
Bromoform	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
Bromomethane	U		100	µg/Kg-dry	1	7/12/2023 10:12 PM
Carbon disulfide	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
Carbon tetrachloride	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
Chlorobenzene	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
Chloroethane	U		100	µg/Kg-dry	1	7/12/2023 10:12 PM
Chloroform	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
Chloromethane	U		100	µg/Kg-dry	1	7/12/2023 10:12 PM
cis-1,2-Dichloroethene	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
cis-1,3-Dichloropropene	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
Cyclohexane	U		100	µg/Kg-dry	1	7/12/2023 10:12 PM
Dibromochloromethane	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
Dichlorodifluoromethane	U		100	µg/Kg-dry	1	7/12/2023 10:12 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** Trip Blank  
**Collection Date:** 6/29/2023 10:00 AM

**Work Order:** 23070106  
**Lab ID:** 23070106-26  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
Isopropylbenzene	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
m,p-Xylene	U		60	µg/Kg-dry	1	7/12/2023 10:12 PM
Methyl acetate	U		250	µg/Kg-dry	1	7/12/2023 10:12 PM
Methyl tert-butyl ether	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
Methylcyclohexane	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
Methylene chloride	U		250	µg/Kg-dry	1	7/12/2023 10:12 PM
o-Xylene	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
Styrene	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
Tetrachloroethene	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
Toluene	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
trans-1,2-Dichloroethene	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
trans-1,3-Dichloropropene	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
Trichloroethene	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
Trichlorofluoromethane	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
Vinyl chloride	U		30	µg/Kg-dry	1	7/12/2023 10:12 PM
Xylenes, Total	U		90	µg/Kg-dry	1	7/12/2023 10:12 PM
Surr: 1,2-Dichloroethane-d4	106		80-120	%REC	1	7/12/2023 10:12 PM
Surr: 4-Bromofluorobenzene	99.0		80-120	%REC	1	7/12/2023 10:12 PM
Surr: Dibromofluoromethane	99.3		80-120	%REC	1	7/12/2023 10:12 PM
Surr: Toluene-d8	101		80-120	%REC	1	7/12/2023 10:12 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-4(32-35)  
**Collection Date:** 6/27/2023 01:23 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-27  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>		Prep: SW7471 7/5/23 14:09	Analyst: <b>KRA</b>
Mercury	0.056		0.021	mg/Kg-dry	1	7/6/2023 01:59 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020B</b>		Prep: SW3050B 7/7/23 12:03	Analyst: <b>STP</b>
Aluminum	4,600		280	mg/Kg-dry	100	7/11/2023 04:10 PM
Antimony	0.56		0.35	mg/Kg-dry	1	7/7/2023 07:25 PM
Arsenic	7.5		0.35	mg/Kg-dry	1	7/7/2023 07:25 PM
Barium	280		3.5	mg/Kg-dry	10	7/11/2023 12:23 AM
Beryllium	0.47		0.14	mg/Kg-dry	1	7/7/2023 07:25 PM
Cadmium	0.27		0.14	mg/Kg-dry	1	7/7/2023 07:25 PM
Calcium	30,000		350	mg/Kg-dry	10	7/11/2023 12:23 AM
Chromium	11		0.35	mg/Kg-dry	1	7/7/2023 07:25 PM
Cobalt	7.7		0.35	mg/Kg-dry	1	7/7/2023 07:25 PM
Copper	14		0.35	mg/Kg-dry	1	7/7/2023 07:25 PM
Iron	13,000		14	mg/Kg-dry	1	7/7/2023 07:25 PM
Lead	10		0.35	mg/Kg-dry	1	7/7/2023 07:25 PM
Magnesium	12,000		14	mg/Kg-dry	1	7/7/2023 07:25 PM
Manganese	960		3.5	mg/Kg-dry	10	7/11/2023 12:23 AM
Nickel	18		0.35	mg/Kg-dry	1	7/7/2023 07:25 PM
Potassium	1,200		14	mg/Kg-dry	1	7/7/2023 07:25 PM
Selenium	0.33	J	0.35	mg/Kg-dry	1	7/7/2023 07:25 PM
Silver	0.066	J	0.35	mg/Kg-dry	1	7/7/2023 07:25 PM
Sodium	370		21	mg/Kg-dry	1	7/7/2023 07:25 PM
Thallium	U		3.5	mg/Kg-dry	10	7/12/2023 08:49 PM
Vanadium	21		0.35	mg/Kg-dry	1	7/7/2023 07:25 PM
Zinc	47		0.71	mg/Kg-dry	1	7/7/2023 07:25 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270E</b>		Prep: SW3546 7/11/23 14:16	Analyst: <b>EEW</b>
1,1'-Biphenyl	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
1,2,4,5-Tetrachlorobenzene	U		190	µg/Kg-dry	1	7/12/2023 07:07 PM
1,4-Dioxane	U		190	µg/Kg-dry	1	7/12/2023 07:07 PM
1-Methylnaphthalene	U		7.6	µg/Kg-dry	1	7/12/2023 07:07 PM
2,2'-Oxybis(1-chloropropane)	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
2,3,4,6-Tetrachlorophenol	U		76	µg/Kg-dry	1	7/12/2023 07:07 PM
2,4,5-Trichlorophenol	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
2,4,6-Trichlorophenol	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
2,4-Dichlorophenol	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
2,4-Dimethylphenol	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
2,4-Dinitrophenol	U		760	µg/Kg-dry	1	7/12/2023 07:07 PM
2,4-Dinitrotoluene	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-4(32-35)  
**Collection Date:** 6/27/2023 01:23 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-27  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2,6-Dinitrotoluene	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
2-Chloronaphthalene	U		7.6	µg/Kg-dry	1	7/12/2023 07:07 PM
2-Chlorophenol	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
2-Methylnaphthalene	U		7.6	µg/Kg-dry	1	7/12/2023 07:07 PM
2-Methylphenol	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
2-Nitroaniline	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
2-Nitrophenol	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
3&4-Methylphenol	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
3,3'-Dichlorobenzidine	U		190	µg/Kg-dry	1	7/12/2023 07:07 PM
3-Nitroaniline	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
4,6-Dinitro-2-methylphenol	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
4-Bromophenyl phenyl ether	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
4-Chloro-3-methylphenol	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
4-Chloroaniline	U		76	µg/Kg-dry	1	7/12/2023 07:07 PM
4-Chlorophenyl phenyl ether	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
4-Nitroaniline	U		190	µg/Kg-dry	1	7/12/2023 07:07 PM
4-Nitrophenol	U		190	µg/Kg-dry	1	7/12/2023 07:07 PM
Acenaphthene	U		7.6	µg/Kg-dry	1	7/12/2023 07:07 PM
<b>Acenaphthylene</b>	<b>5.3</b>	J	<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/12/2023 07:07 PM
Acetophenone	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
<b>Anthracene</b>	<b>15</b>		<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/12/2023 07:07 PM
Atrazine	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
Benzaldehyde	U		76	µg/Kg-dry	1	7/12/2023 07:07 PM
<b>Benzo(a)anthracene</b>	<b>64</b>		<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/12/2023 07:07 PM
<b>Benzo(a)pyrene</b>	<b>55</b>		<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/12/2023 07:07 PM
<b>Benzo(b)fluoranthene</b>	<b>82</b>		<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/12/2023 07:07 PM
<b>Benzo(g,h,i)perylene</b>	<b>25</b>		<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/12/2023 07:07 PM
<b>Benzo(k)fluoranthene</b>	<b>29</b>		<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/12/2023 07:07 PM
Bis(2-chloroethoxy)methane	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
Bis(2-chloroethyl)ether	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
Bis(2-ethylhexyl)phthalate	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
Butyl benzyl phthalate	U		76	µg/Kg-dry	1	7/12/2023 07:07 PM
Caprolactam	U		76	µg/Kg-dry	1	7/12/2023 07:07 PM
Carbazole	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
<b>Chrysene</b>	<b>51</b>		<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/12/2023 07:07 PM
<b>Dibenzo(a,h)anthracene</b>	<b>9.8</b>		<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/12/2023 07:07 PM
Dibenzofuran	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
Diethyl phthalate	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
Dimethyl phthalate	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
Di-n-butyl phthalate	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-4(32-35)  
**Collection Date:** 6/27/2023 01:23 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-27  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-octyl phthalate	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
<b>Fluoranthene</b>	<b>140</b>		<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/12/2023 07:07 PM
Fluorene	U		7.6	µg/Kg-dry	1	7/12/2023 07:07 PM
Hexachlorobenzene	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
Hexachlorobutadiene	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
Hexachlorocyclopentadiene	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
Hexachloroethane	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
<b>Indeno(1,2,3-cd)pyrene</b>	<b>29</b>		<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/12/2023 07:07 PM
Isophorone	U		190	µg/Kg-dry	1	7/12/2023 07:07 PM
Naphthalene	U		7.6	µg/Kg-dry	1	7/12/2023 07:07 PM
Nitrobenzene	U		190	µg/Kg-dry	1	7/12/2023 07:07 PM
N-Nitrosodi-n-propylamine	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
N-Nitrosodiphenylamine	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
Pentachlorophenol	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
<b>Phenanthrene</b>	<b>68</b>		<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/12/2023 07:07 PM
Phenol	U		37	µg/Kg-dry	1	7/12/2023 07:07 PM
<b>Pyrene</b>	<b>100</b>		<b>7.6</b>	<b>µg/Kg-dry</b>	1	7/12/2023 07:07 PM
Pyridine	U		190	µg/Kg-dry	1	7/12/2023 07:07 PM
Surr: 2,4,6-Tribromophenol	48.0	S	48-94	%REC	1	7/12/2023 07:07 PM
Surr: 2-Fluorobiphenyl	74.3		50-103	%REC	1	7/12/2023 07:07 PM
Surr: 2-Fluorophenol	52.5		43-105	%REC	1	7/12/2023 07:07 PM
Surr: 4-Terphenyl-d14	83.1		55-111	%REC	1	7/12/2023 07:07 PM
Surr: Nitrobenzene-d5	74.6		47-100	%REC	1	7/12/2023 07:07 PM
Surr: Phenol-d6	61.0		49-110	%REC	1	7/12/2023 07:07 PM

## VOLATILE ORGANIC COMPOUNDS

SW8260D

Prep: SW5035A 7/6/23 11:37

Analyst: SBR

1,1,1-Trichloroethane	U		38	µg/Kg	1	7/10/2023 03:23 AM
1,1,2,2-Tetrachloroethane	U		38	µg/Kg	1	7/10/2023 03:23 AM
1,1,2-Trichloroethane	U		38	µg/Kg	1	7/10/2023 03:23 AM
1,1,2-Trichlorotrifluoroethane	U		38	µg/Kg	1	7/10/2023 03:23 AM
1,1-Dichloroethane	U		38	µg/Kg	1	7/10/2023 03:23 AM
1,1-Dichloroethene	U		38	µg/Kg	1	7/10/2023 03:23 AM
1,2,3-Trichlorobenzene	U		130	µg/Kg	1	7/10/2023 03:23 AM
1,2,3-Trichloropropane	U		38	µg/Kg	1	7/10/2023 03:23 AM
1,2,4-Trichlorobenzene	U		130	µg/Kg	1	7/10/2023 03:23 AM
1,2,4-Trimethylbenzene	U		38	µg/Kg	1	7/10/2023 03:23 AM
1,2-Dibromo-3-chloropropane	U		130	µg/Kg	1	7/10/2023 03:23 AM
1,2-Dibromoethane	U		38	µg/Kg	1	7/10/2023 03:23 AM
1,2-Dichlorobenzene	U		38	µg/Kg	1	7/10/2023 03:23 AM
1,2-Dichloroethane	U		38	µg/Kg	1	7/10/2023 03:23 AM

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

# ALS Group, USA

Date: 18-Jul-2023

**Client:** Tetra Tech  
**Project:** Boys and Girls Club  
**Sample ID:** SB-4(32-35)  
**Collection Date:** 6/27/2023 01:23 PM

**Work Order:** 23070106  
**Lab ID:** 23070106-27  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	U		38	µg/Kg	1	7/10/2023 03:23 AM
1,3,5-Trimethylbenzene	U		130	µg/Kg	1	7/10/2023 03:23 AM
1,3-Dichlorobenzene	U		38	µg/Kg	1	7/10/2023 03:23 AM
1,4-Dichlorobenzene	U		38	µg/Kg	1	7/10/2023 03:23 AM
2-Butanone	U		250	µg/Kg	1	7/10/2023 03:23 AM
2-Hexanone	U		38	µg/Kg	1	7/10/2023 03:23 AM
4-Methyl-2-pentanone	U		38	µg/Kg	1	7/10/2023 03:23 AM
Acetone	U		130	µg/Kg	1	7/10/2023 03:23 AM
Benzene	U		38	µg/Kg	1	7/10/2023 03:23 AM
Bromochloromethane	U		38	µg/Kg	1	7/10/2023 03:23 AM
Bromodichloromethane	U		38	µg/Kg	1	7/10/2023 03:23 AM
Bromoform	U		38	µg/Kg	1	7/10/2023 03:23 AM
Bromomethane	U		130	µg/Kg	1	7/10/2023 03:23 AM
Carbon disulfide	U		38	µg/Kg	1	7/10/2023 03:23 AM
Carbon tetrachloride	U		38	µg/Kg	1	7/10/2023 03:23 AM
Chlorobenzene	U		38	µg/Kg	1	7/10/2023 03:23 AM
Chloroethane	U		130	µg/Kg	1	7/10/2023 03:23 AM
Chloroform	U		38	µg/Kg	1	7/10/2023 03:23 AM
Chloromethane	U		130	µg/Kg	1	7/10/2023 03:23 AM
cis-1,2-Dichloroethene	U		38	µg/Kg	1	7/10/2023 03:23 AM
cis-1,3-Dichloropropene	U		38	µg/Kg	1	7/10/2023 03:23 AM
Cyclohexane	U		130	µg/Kg	1	7/10/2023 03:23 AM
Dibromochloromethane	U		38	µg/Kg	1	7/10/2023 03:23 AM
Dichlorodifluoromethane	U		130	µg/Kg	1	7/10/2023 03:23 AM
Ethylbenzene	U		38	µg/Kg	1	7/10/2023 03:23 AM
Isopropylbenzene	U		38	µg/Kg	1	7/10/2023 03:23 AM
m,p-Xylene	U		76	µg/Kg	1	7/10/2023 03:23 AM
Methyl acetate	U		320	µg/Kg	1	7/10/2023 03:23 AM
Methyl tert-butyl ether	U		38	µg/Kg	1	7/10/2023 03:23 AM
Methylcyclohexane	U		38	µg/Kg	1	7/10/2023 03:23 AM
<b>Methylene chloride</b>	<b>790</b>		<b>320</b>	<b>µg/Kg</b>	1	7/10/2023 03:23 AM
o-Xylene	U		38	µg/Kg	1	7/10/2023 03:23 AM
Styrene	U		38	µg/Kg	1	7/10/2023 03:23 AM
Tetrachloroethene	U		38	µg/Kg	1	7/10/2023 03:23 AM
Toluene	U		38	µg/Kg	1	7/10/2023 03:23 AM
trans-1,2-Dichloroethene	U		38	µg/Kg	1	7/10/2023 03:23 AM
trans-1,3-Dichloropropene	U		38	µg/Kg	1	7/10/2023 03:23 AM
Trichloroethene	U		38	µg/Kg	1	7/10/2023 03:23 AM
Trichlorofluoromethane	U		38	µg/Kg	1	7/10/2023 03:23 AM
Vinyl chloride	U		38	µg/Kg	1	7/10/2023 03:23 AM

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



**ALS Group, USA****Date:** 18-Jul-2023**Client:** Tetra Tech**Project:** Boys and Girls Club**Work Order:** 23070106**Sample ID:** SB-4(32-35)**Lab ID:** 23070106-27**Collection Date:** 6/27/2023 01:23 PM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	U		110	µg/Kg	1	7/10/2023 03:23 AM
Surr: 1,2-Dichloroethane-d4	104		80-120	%REC	1	7/10/2023 03:23 AM
Surr: 4-Bromofluorobenzene	103		80-120	%REC	1	7/10/2023 03:23 AM
Surr: Dibromofluoromethane	95.9		80-120	%REC	1	7/10/2023 03:23 AM
Surr: Toluene-d8	98.3		80-120	%REC	1	7/10/2023 03:23 AM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>SGH</b>
Moisture	13		0.10	% of sample	1	7/7/2023 12:37 PM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>EF</b>
Subcontracted Analyses	See attached			as noted	1	7/14/2023

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

## ALS Group, USA

Date: 18-Jul-23

**Client:** Tetra Tech  
**Work Order:** 23070106  
**Project:** Boys and Girls Club

## QC BATCH REPORT

Batch ID: **219299** Instrument ID **HG4** Method: **SW7471B**

<b>MBLK</b>		Sample ID: <b>MBLK-219299-219299</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/5/2023 12:04 PM</b>			
Client ID:		Run ID: <b>HG4_230705A</b>				SeqNo: <b>9732966</b>		Prep Date: <b>7/4/2023</b>		DF: <b>1</b>	
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								

<b>LCS</b>		Sample ID: <b>LCS-219299-219299</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/5/2023 12:06 PM</b>			
Client ID:		Run ID: <b>HG4_230705A</b>				SeqNo: <b>9732967</b>		Prep Date: <b>7/4/2023</b>		DF: <b>1</b>	
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			

<b>MS</b>		Sample ID: <b>23070119-04AMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/5/2023 12:44 PM</b>			
Client ID:		Run ID: <b>HG4_230705A</b>				SeqNo: <b>9732986</b>		Prep Date: <b>7/4/2023</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1396	0.012	0.017	0.141	0.005882	94.9	75-125	0			

<b>MSD</b>		Sample ID: <b>23070119-04AMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/5/2023 12:45 PM</b>			
Client ID:		Run ID: <b>HG4_230705A</b>				SeqNo: <b>9732987</b>		Prep Date: <b>7/4/2023</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.157	0.013	0.019	0.156	0.005882	96.8	75-125	0.1396	11.7	35	

The following samples were analyzed in this batch: 23070106-01A 23070106-02A 23070106-03A

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

**Client:** Tetra Tech  
**Work Order:** 23070106  
**Project:** Boys and Girls Club

## QC BATCH REPORT

Batch ID: **219300** Instrument ID **HG4** Method: **SW7471B**

<b>MBLK</b>		Sample ID: <b>MBLK-219300-219300</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/5/2023 01:02 PM</b>			
Client ID:		Run ID: <b>HG4_230705A</b>				SeqNo: <b>9732996</b>		Prep Date: <b>7/4/2023</b>		DF: <b>1</b>	
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								

<b>LCS</b>		Sample ID: <b>LCS-219300-219300</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/5/2023 01:03 PM</b>			
Client ID:		Run ID: <b>HG4_230705A</b>				SeqNo: <b>9732997</b>		Prep Date: <b>7/4/2023</b>		DF: <b>1</b>	
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			

<b>MS</b>		Sample ID: <b>23070106-11AMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/5/2023 01:25 PM</b>			
Client ID: <b>SB-6 (0-3)</b>		Run ID: <b>HG4_230705A</b>				SeqNo: <b>9733009</b>		Prep Date: <b>7/4/2023</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1846	0.013	0.019	0.160	0.03636	92.4	75-125	0			

<b>MSD</b>		Sample ID: <b>23070106-11AMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/5/2023 01:27 PM</b>			
Client ID: <b>SB-6 (0-3)</b>		Run ID: <b>HG4_230705A</b>				SeqNo: <b>9733010</b>		Prep Date: <b>7/4/2023</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1888	0.013	0.019	0.156	0.03636	97.8	75-125	0.1846	2.24	35	

The following samples were analyzed in this batch:

23070106-04A	23070106-05A	23070106-06A
23070106-07A	23070106-08A	23070106-09A
23070106-10A	23070106-11A	

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **219343** Instrument ID **HG4** Method: **SW7471B**

<b>MBLK</b>		Sample ID: <b>MBLK-219343-219343</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/6/2023 01:27 PM</b>			
Client ID:		Run ID: <b>HG4_230706A</b>				SeqNo: <b>9738293</b>		Prep Date: <b>7/5/2023</b>		DF: <b>1</b>	
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								

<b>LCS</b>		Sample ID: <b>LCS-219343-219343</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/6/2023 01:29 PM</b>			
Client ID:		Run ID: <b>HG4_230706A</b>				SeqNo: <b>9738294</b>		Prep Date: <b>7/5/2023</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1617	0.014	0.020	0.167	0	97.1	80-120	0			

<b>MS</b>		Sample ID: <b>23070106-27AMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/6/2023 02:01 PM</b>			
Client ID: <b>SB-4(32-35)</b>		Run ID: <b>HG4_230706A</b>				SeqNo: <b>9738312</b>		Prep Date: <b>7/5/2023</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1865	0.013	0.019	0.155	0.04901	88.9	75-125	0			

<b>MSD</b>		Sample ID: <b>23070106-27AMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/6/2023 02:02 PM</b>			
Client ID: <b>SB-4(32-35)</b>		Run ID: <b>HG4_230706A</b>				SeqNo: <b>9738313</b>		Prep Date: <b>7/5/2023</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.2056	0.012	0.018	0.151	0.04901	104	75-125	0.1865	9.71	35	

The following samples were analyzed in this batch:

23070106-12A	23070106-13A	23070106-14A
23070106-15A	23070106-16A	23070106-17A
23070106-18A	23070106-19A	23070106-20A
23070106-21A	23070106-22A	23070106-23A
23070106-24A	23070106-27A	

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **219307** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK		Sample ID: <b>MBLK-219307-219307</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/5/2023 09:05 PM</b>			
Client ID:		Run ID: <b>ICPMS3_230705B</b>				SeqNo: <b>9735800</b>		Prep Date: <b>7/5/2023</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.067	0.25								
Barium	U	0.23	0.25								
Beryllium	U	0.017	0.10								
Cadmium	U	0.015	0.10								
Calcium	U	12	25								
Lead	U	0.12	0.25								
Manganese	U	0.21	0.25								
Potassium	U	4.2	10								
Silver	U	0.033	0.25								
Thallium	U	0.039	0.25								
Vanadium	U	0.064	0.25								

MBLK		Sample ID: <b>MBLK-219307-219307</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/6/2023 03:00 PM</b>			
Client ID:		Run ID: <b>ICPMS3_230706B</b>				SeqNo: <b>9739305</b>		Prep Date: <b>7/5/2023</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.03	0.25								
Chromium	U	0.11	0.25								
Cobalt	U	0.041	0.25								
Copper	U	0.25	0.25								
Iron	U	8	10								
Magnesium	U	7	10								
Selenium	U	0.23	0.25								
Sodium	U	13	15								
Zinc	U	0.49	0.50								

MBLK		Sample ID: <b>MBLK-219307-219307</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/6/2023 04:22 PM</b>			
Client ID:		Run ID: <b>ICPMS3_230706B</b>				SeqNo: <b>9740767</b>		Prep Date: <b>7/5/2023</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nickel	U	0.13	0.25								

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **219307** Instrument ID **ICPMS3** Method: **SW6020B**

LCS Sample ID: <b>LCS-219307-219307</b>					Units: <b>mg/Kg</b>		Analysis Date: <b>7/5/2023 09:07 PM</b>				
Client ID:		Run ID: <b>ICPMS3_230705B</b>			SeqNo: <b>9735801</b>		Prep Date: <b>7/5/2023</b>		DF: <b>1</b>		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	5.303	0.067	0.25	5	0	106	80-120	0			
Barium	5.6	0.23	0.25	5	0	112	80-120	0			
Beryllium	5.512	0.017	0.10	5	0	110	80-120	0			
Cadmium	4.994	0.015	0.10	5	0	99.9	80-120	0			
Calcium	527.9	12	25	500	0	106	80-120	0			
Lead	5.191	0.12	0.25	5	0	104	80-120	0			
Manganese	4.849	0.21	0.25	5	0	97	80-120	0			
Potassium	506.6	4.2	10	500	0	101	80-120	0			
Silver	5.009	0.033	0.25	5	0	100	80-120	0			
Thallium	4.972	0.039	0.25	5	0	99.4	80-120	0			
Vanadium	5.249	0.064	0.25	5	0	105	80-120	0			

LCS Sample ID: <b>LCS-219307-219307</b>					Units: <b>mg/Kg</b>		Analysis Date: <b>7/6/2023 03:02 PM</b>				
Client ID:		Run ID: <b>ICPMS3_230706B</b>			SeqNo: <b>9739306</b>		Prep Date: <b>7/5/2023</b>		DF: <b>1</b>		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.222	0.03	0.25	5	0	104	80-120	0			
Chromium	5.329	0.11	0.25	5	0	107	80-120	0			
Cobalt	5.422	0.041	0.25	5	0	108	80-120	0			
Copper	5.248	0.25	0.25	5	0	105	80-120	0			
Iron	533.4	8	10	500	0	107	80-120	0			
Magnesium	542.2	7	10	500	0	108	80-120	0			
Selenium	5.346	0.23	0.25	5	0	107	80-120	0			
Sodium	532.2	13	15	500	0	106	80-120	0			
Zinc	5.329	0.49	0.50	5	0	107	80-120	0			

LCS Sample ID: <b>LCS-219307-219307</b>					Units: <b>mg/Kg</b>		Analysis Date: <b>7/6/2023 04:24 PM</b>				
Client ID:		Run ID: <b>ICPMS3_230706B</b>			SeqNo: <b>9740768</b>		Prep Date: <b>7/5/2023</b>		DF: <b>1</b>		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nickel	5.249	0.13	0.25	5	0	105	80-120	0			

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: 219307 Instrument ID ICPMS3 Method: SW6020B

MS Sample ID: 23070106-07AMS					Units: mg/Kg		Analysis Date: 7/5/2023 09:30 PM				
Client ID: SB-4 (0-3)			Run ID: ICPMS3_230705B		SeqNo: 9735814		Prep Date: 7/5/2023		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	2.184	0.071	0.27	5.325	0.3763	34	75-125	0			S
Beryllium	3.216	0.018	0.11	5.325	0.3861	53.1	75-125	0			S
Cadmium	2.3	0.016	0.11	5.325	0.2344	38.8	75-125	0			S
Lead	14.87	0.13	0.27	5.325	10.25	86.8	75-125	0			
Potassium	1375	4.5	11	532.5	1064	58.5	75-125	0			S
Silver	2.1	0.035	0.27	5.325	0.0378	38.7	75-125	0			S
Thallium	2.714	0.042	0.27	5.325	0.1967	47.3	75-125	0			S
Vanadium	20.63	0.068	0.27	5.325	15.75	91.6	75-125	0			

MS Sample ID: 23070106-07AMS					Units: mg/Kg		Analysis Date: 7/6/2023 04:54 PM				
Client ID: SB-4 (0-3)			Run ID: ICPMS3_230706B		SeqNo: 9740786		Prep Date: 7/5/2023		DF: 10		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.7	0.32	2.7	5.325	7.384	62.2	75-125	0			S
Barium	267.8	2.4	2.7	5.325	237.6	566	75-125	0			SO
Calcium	20730	130	270	532.5	22770	-384	75-125	0			SO
Chromium	12.12	1.2	2.7	5.325	8.686	64.4	75-125	0			S
Cobalt	10.34	0.44	2.7	5.325	8.912	26.8	75-125	0			S
Copper	15.44	2.7	2.7	5.325	12.31	58.7	75-125	0			S
Iron	13660	85	110	532.5	13160	94.7	75-125	0			O
Magnesium	9177	75	110	532.5	9022	29.2	75-125	0			SO
Manganese	820.5	2.2	2.7	5.325	722.9	1830	75-125	0			SO
Nickel	22.42	1.4	2.7	5.325	20.88	29	75-125	0			S
Selenium	3.245	2.4	2.7	5.325	0.7408	47	75-125	0			S
Sodium	925.8	140	160	532.5	622.3	57	75-125	0			S
Zinc	55.61	5.2	5.3	5.325	52.27	62.7	75-125	0			SO

MSD Sample ID: 23070106-07AMSD					Units: mg/Kg		Analysis Date: 7/5/2023 09:32 PM				
Client ID: SB-4 (0-3)			Run ID: ICPMS3_230705B		SeqNo: 9735815		Prep Date: 7/5/2023		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	2.239	0.07	0.26	5.241	0.3763	35.5	75-125	2.184	2.46	20	S
Beryllium	3.242	0.018	0.10	5.241	0.3861	54.5	75-125	3.216	0.823	20	S
Cadmium	2.168	0.016	0.10	5.241	0.2344	36.9	75-125	2.3	5.87	20	S
Lead	12.28	0.13	0.26	5.241	10.25	38.7	75-125	14.87	19.1	20	S
Potassium	1429	4.4	10	524.1	1064	69.7	75-125	1375	3.83	20	S
Silver	2.051	0.035	0.26	5.241	0.0378	38.4	75-125	2.1	2.36	20	S
Thallium	2.752	0.041	0.26	5.241	0.1967	48.8	75-125	2.714	1.39	20	S
Vanadium	20.32	0.067	0.26	5.241	15.75	87.1	75-125	20.63	1.54	20	

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: 219307 Instrument ID ICPMS3 Method: SW6020B

MSD					Sample ID: 23070106-07AMSD			Units: mg/Kg		Analysis Date: 7/6/2023 04:56 PM		
Client ID: SB-4 (0-3)				Run ID: ICPMS3_230706B			SeqNo: 9740787		Prep Date: 7/5/2023		DF: 10	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	10.51	0.31	2.6	5.241	7.384	59.7	75-125	10.7	1.74	20	S	
Barium	231.2	2.4	2.6	5.241	237.6	-124	75-125	267.8	14.7	20	SO	
Calcium	22730	130	260	524.1	22770	-7.21	75-125	20730	9.22	20	SO	
Chromium	12.7	1.2	2.6	5.241	8.686	76.6	75-125	12.12	4.73	20		
Cobalt	10.22	0.43	2.6	5.241	8.912	24.9	75-125	10.34	1.19	20	S	
Copper	15.13	2.6	2.6	5.241	12.31	53.7	75-125	15.44	2.02	20	S	
Iron	13950	84	100	524.1	13160	151	75-125	13660	2.08	20	SO	
Magnesium	9179	73	100	524.1	9022	30	75-125	9177	0.0161	20	SO	
Manganese	566.5	2.2	2.6	5.241	722.9	-2980	75-125	820.5	36.6	20	SRO	
Nickel	20.41	1.4	2.6	5.241	20.88	-8.86	75-125	22.42	9.37	20	S	
Selenium	2.933	2.4	2.6	5.241	0.7408	41.8	75-125	3.245	10.1	20	S	
Sodium	908.8	140	160	524.1	622.3	54.7	75-125	925.8	1.85	20	S	
Zinc	55.33	5.1	5.2	5.241	52.27	58.4	75-125	55.61	0.505	20	SO	

The following samples were analyzed in this batch:

23070106-01A	23070106-02A	23070106-03A
23070106-04A	23070106-05A	23070106-06A
23070106-07A		

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



Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **219477** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK		Sample ID: <b>MBLK-219477-219477</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/7/2023 05:37 PM</b>			
Client ID:		Run ID: <b>ICPMS3_230707B</b>				SeqNo: <b>9745453</b>		Prep Date: <b>7/7/2023</b>		DF: <b>1</b>	
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	0.04115	0.039	0.25								J
Vanadium	U	0.064	0.25								
Zinc	U	0.49	0.50								

MBLK		Sample ID: <b>MBLK-219477-219477</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/10/2023 10:28 PM</b>			
Client ID:		Run ID: <b>ICPMS3_230710B</b>				SeqNo: <b>9751339</b>		Prep Date: <b>7/7/2023</b>		DF: <b>1</b>	
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: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **219477** Instrument ID **ICPMS3** Method: **SW6020B**

LCS		Sample ID: <b>LCS-219477-219477</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/7/2023 05:38 PM</b>			
Client ID:		Run ID: <b>ICPMS3_230707B</b>				SeqNo: <b>9745454</b>		Prep Date: <b>7/7/2023</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	5.088	0.067	0.25	5	0	102	80-120	0			
Arsenic	4.819	0.03	0.25	5	0	96.4	80-120	0			
Barium	5.264	0.23	0.25	5	0	105	80-120	0			
Beryllium	5.036	0.017	0.10	5	0	101	80-120	0			
Cadmium	4.958	0.015	0.10	5	0	99.2	80-120	0			
Calcium	506.7	12	25	500	0	101	80-120	0			
Chromium	4.978	0.11	0.25	5	0	99.6	80-120	0			
Cobalt	5.107	0.041	0.25	5	0	102	80-120	0			
Copper	4.971	0.25	0.25	5	0	99.4	80-120	0			
Iron	505	8	10	500	0	101	80-120	0			B
Lead	5.022	0.12	0.25	5	0	100	80-120	0			
Magnesium	514.5	7	10	500	0	103	80-120	0			
Manganese	4.981	0.21	0.25	5	0	99.6	80-120	0			
Nickel	4.965	0.13	0.25	5	0	99.3	80-120	0			
Potassium	504.5	4.2	10	500	0	101	80-120	0			
Selenium	4.804	0.23	0.25	5	0	96.1	80-120	0			
Silver	5.227	0.033	0.25	5	0	105	80-120	0			
Sodium	512.8	13	15	500	0	103	80-120	0			
Thallium	4.82	0.039	0.25	5	0	96.4	80-120	0			
Vanadium	5.028	0.064	0.25	5	0	101	80-120	0			
Zinc	5.032	0.49	0.50	5	0	101	80-120	0			

LCS		Sample ID: <b>LCS-219477-219477</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/11/2023 03:09 PM</b>			
Client ID:		Run ID: <b>ICPMS3_230711B</b>				SeqNo: <b>9754977</b>		Prep Date: <b>7/7/2023</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	5.546	1.6	2.0	5	0	111	80-120	0			

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: 219477 Instrument ID ICPMS3 Method: SW6020B

MS Sample ID: 23070106-12AMS					Units: mg/Kg		Analysis Date: 7/7/2023 06:35 PM				
Client ID: SB-6 (30-35)			Run ID: ICPMS3_230707B		SeqNo: 9745487		Prep Date: 7/7/2023		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	3.559	0.071	0.27	5.33	0.3198	60.8	75-125	0			S
Arsenic	9.072	0.032	0.27	5.33	5.331	70.2	75-125	0			S
Beryllium	4.646	0.018	0.11	5.33	0.3036	81.5	75-125	0			
Cadmium	3.766	0.016	0.11	5.33	0.182	67.2	75-125	0			S
Chromium	11.18	0.12	0.27	5.33	5.842	100	75-125	0			
Cobalt	11.87	0.044	0.27	5.33	5.8	114	75-125	0			
Copper	12.19	0.27	0.27	5.33	8.382	71.5	75-125	0			S
Iron	9486	8.5	11	533	8555	175	75-125	0			SO
Lead	10.85	0.13	0.27	5.33	7.15	69.4	75-125	0			S
Magnesium	7213	7.5	11	533	7159	10.1	75-125	0			SO
Nickel	17.83	0.14	0.27	5.33	12.81	94.2	75-125	0			
Potassium	1348	4.5	11	533	796	104	75-125	0			
Selenium	3.78	0.25	0.27	5.33	0	70.9	75-125	0			S
Silver	3.694	0.035	0.27	5.33	0.03936	68.6	75-125	0			S
Sodium	525.9	14	16	533	120.6	76	75-125	0			
Thallium	4.285	0.042	0.27	5.33	0.1692	77.2	75-125	0			
Vanadium	23.3	0.068	0.27	5.33	13.45	185	75-125	0			S
Zinc	35.4	0.52	0.53	5.33	30.44	93.1	75-125	0			O

MS Sample ID: 23070106-12AMS					Units: mg/Kg		Analysis Date: 7/10/2023 11:09 PM				
Client ID: SB-6 (30-35)			Run ID: ICPMS3_230710B		SeqNo: 9751364		Prep Date: 7/7/2023		DF: 10		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	181.8	2.5	2.7	5.33	154.2	518	75-125	0			SO
Calcium	17760	130	270	533	18670	-171	75-125	0			SO
Manganese	756.6	2.2	2.7	5.33	583.2	3250	75-125	0			SO

MS Sample ID: 23070106-12AMS					Units: mg/Kg		Analysis Date: 7/11/2023 03:40 PM				
Client ID: SB-6 (30-35)			Run ID: ICPMS3_230711B		SeqNo: 9755307		Prep Date: 7/7/2023		DF: 100		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	6641	170	210	5.33	4436	41400	75-125	0			SO

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: 219477 Instrument ID ICPMS3 Method: SW6020B

MSD Sample ID: 23070106-12AMSD					Units: mg/Kg			Analysis Date: 7/7/2023 06:37 PM			
Client ID: SB-6 (30-35)				Run ID: ICPMS3_230707B		SeqNo: 9745488		Prep Date: 7/7/2023		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	3.504	0.071	0.26	5.285	0.3198	60.3	75-125	3.559	1.56	20	S
Arsenic	8.718	0.032	0.26	5.285	5.331	64.1	75-125	9.072	3.97	20	S
Beryllium	4.666	0.018	0.11	5.285	0.3036	82.5	75-125	4.646	0.415	20	
Cadmium	3.717	0.016	0.11	5.285	0.182	66.9	75-125	3.766	1.32	20	S
Chromium	11.15	0.12	0.26	5.285	5.842	100	75-125	11.18	0.324	20	
Cobalt	8.827	0.043	0.26	5.285	5.8	57.3	75-125	11.87	29.4	20	SR
Copper	11.55	0.26	0.26	5.285	8.382	60	75-125	12.19	5.39	20	S
Iron	9482	8.5	11	528.5	8555	175	75-125	9486	0.0391	20	SO
Lead	10.9	0.13	0.26	5.285	7.15	71	75-125	10.85	0.492	20	S
Magnesium	7368	7.4	11	528.5	7159	39.5	75-125	7213	2.13	20	SO
Nickel	15.36	0.14	0.26	5.285	12.81	48.1	75-125	17.83	14.9	20	S
Potassium	1354	4.4	11	528.5	796	106	75-125	1348	0.467	20	
Selenium	3.644	0.24	0.26	5.285	0	68.9	75-125	3.78	3.67	20	S
Silver	3.68	0.035	0.26	5.285	0.03936	68.9	75-125	3.694	0.369	20	S
Sodium	522.8	14	16	528.5	120.6	76.1	75-125	525.9	0.586	20	
Thallium	4.273	0.041	0.26	5.285	0.1692	77.7	75-125	4.285	0.28	20	
Vanadium	23.29	0.068	0.26	5.285	13.45	186	75-125	23.3	0.0215	20	S
Zinc	34.4	0.52	0.53	5.285	30.44	75	75-125	35.4	2.85	20	O

MSD					Sample ID: 23070106-12AMSD				Units: mg/Kg			Analysis Date: 7/10/2023 11:10 PM		
Client ID: SB-6 (30-35)				Run ID: ICPMS3_230710B				SeqNo: 9751365		Prep Date: 7/7/2023		DF: 10		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Barium	181.8	2.4	2.6	5.285	154.2	522	75-125	181.8	0.0171	20	SO			
Calcium	18990	130	260	528.5	18670	60.1	75-125	17760	6.68	20	SO			
Manganese	539.2	2.2	2.6	5.285	583.2	-833	75-125	756.6	33.6	20	SRO			

MSD					Sample ID: 23070106-12AMSD					Units: mg/Kg			Analysis Date: 7/11/2023 03:42 PM		
Client ID: SB-6 (30-35)					Run ID: ICPMS3_230711B					SeqNo: 9755308		Prep Date: 7/7/2023		DF: 100	
					SPK Ref Value		Control Limit		RPD Ref Value		RPD Limit				
Analyte	Result	MDL	PQL	SPK Val		%REC				%RPD			Qual		
Aluminum	7477	170	210	5.285		4436 57500	75-125		6641	11.8	20		SO		

The following samples were analyzed in this batch:

23070106-01A	23070106-02A	23070106-03A
23070106-04A	23070106-05A	23070106-06A
23070106-07A	23070106-08A	23070106-09A
23070106-10A	23070106-11A	23070106-12A

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **219480** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK				Sample ID: <b>MBLK-219480-219480</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/7/2023 06:57 PM</b>		
Client ID:				Run ID: <b>ICPMS3_230707B</b>				SeqNo: <b>9745499</b>		Prep Date: <b>7/7/2023</b>		DF: <b>1</b>
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	8.953	8	10								J	
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									
Vanadium	U	0.064	0.25									
Zinc	U	0.49	0.50									

LCS				Sample ID: <b>LCS-219480-219480</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/7/2023 06:59 PM</b>		
Client ID:				Run ID: <b>ICPMS3_230707B</b>				SeqNo: <b>9745500</b>		Prep Date: <b>7/7/2023</b>		DF: <b>1</b>
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Antimony	4.209	0.067	0.25	5	0	84.2	80-120	0				
Arsenic	4.017	0.03	0.25	5	0	80.3	80-120	0				
Barium	4.243	0.23	0.25	5	0	84.9	80-120	0				
Beryllium	4.288	0.017	0.10	5	0	85.8	80-120	0				
Cadmium	4.071	0.015	0.10	5	0	81.4	80-120	0				
Calcium	412.5	12	25	500	0	82.5	80-120	0				
Cobalt	4.021	0.041	0.25	5	0	80.4	80-120	0				
Lead	4.06	0.12	0.25	5	0	81.2	80-120	0				
Magnesium	409.3	7	10	500	0	81.9	80-120	0				
Potassium	413	4.2	10	500	0	82.6	80-120	0				
Selenium	4.027	0.23	0.25	5	0	80.5	80-120	0				
Silver	4.254	0.033	0.25	5	0	85.1	80-120	0				
Vanadium	4.185	0.064	0.25	5	0	83.7	80-120	0				

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **219480** Instrument ID **ICPMS3** Method: **SW6020B**

LCS Sample ID: <b>LCS-219480-219480</b>					Units: <b>mg/Kg</b>		Analysis Date: <b>7/10/2023 11:28 PM</b>				
Client ID:		Run ID: <b>ICPMS3_230710B</b>			SeqNo: <b>9751375</b>		Prep Date: <b>7/7/2023</b>		DF: <b>1</b>		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium	4.449	0.11	0.25	5	0	89	80-120	0			
Copper	4.238	0.25	0.25	5	0	84.8	80-120	0			
Iron	435.3	8	10	500	0	87.1	80-120	0			
Manganese	4.412	0.21	0.25	5	0	88.2	80-120	0			
Nickel	4.384	0.13	0.25	5	0	87.7	80-120	0			
Sodium	438.8	13	15	500	0	87.8	80-120	0			
Zinc	4.176	0.49	0.50	5	0	83.5	80-120	0			

LCS Sample ID: <b>LCS-219480-219480</b>					Units: <b>mg/Kg</b>		Analysis Date: <b>7/11/2023 03:45 PM</b>				
Client ID:		Run ID: <b>ICPMS3_230711B</b>			SeqNo: <b>9755310</b>		Prep Date: <b>7/7/2023</b>		DF: <b>1</b>		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	4.697	1.6	2.0	5	0	93.9	80-120	0			

MS Sample ID: <b>23070106-27AMS</b>					Units: <b>mg/Kg</b>		Analysis Date: <b>7/7/2023 08:00 PM</b>				
Client ID: <b>SB-4(32-35)</b>		Run ID: <b>ICPMS3_230707B</b>			SeqNo: <b>9745536</b>		Prep Date: <b>7/7/2023</b>		DF: <b>1</b>		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	4.468	0.079	0.29	5.869	0.4848	67.9	75-125	0			S
Arsenic	11.62	0.035	0.29	5.869	6.543	86.5	75-125	0			
Beryllium	6.226	0.02	0.12	5.869	0.4082	99.1	75-125	0			
Cadmium	4.822	0.018	0.12	5.869	0.2356	78.2	75-125	0			
Chromium	15.29	0.13	0.29	5.869	9.214	103	75-125	0			
Cobalt	11.81	0.048	0.29	5.869	6.745	86.3	75-125	0			
Copper	15.72	0.29	0.29	5.869	12.19	60.2	75-125	0			S
Iron	13190	9.4	12	586.9	11090	357	75-125	0			SEO
Lead	15.61	0.14	0.29	5.869	8.713	117	75-125	0			
Magnesium	11840	8.2	12	586.9	10660	201	75-125	0			SEO
Nickel	21.34	0.15	0.29	5.869	16.08	89.7	75-125	0			
Potassium	1929	4.9	12	586.9	1044	151	75-125	0			S
Selenium	4.948	0.27	0.29	5.869	0.2868	79.4	75-125	0			
Silver	4.898	0.039	0.29	5.869	0.05709	82.5	75-125	0			
Sodium	918.1	16	18	586.9	324.4	101	75-125	0			
Vanadium	31.72	0.075	0.29	5.869	18.27	229	75-125	0			S
Zinc	46.45	0.58	0.59	5.869	40.55	101	75-125	0			O

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: 219480 Instrument ID ICPMS3 Method: SW6020B

MS Sample ID: 23070106-27AMS					Units: mg/Kg		Analysis Date: 7/11/2023 12:24 AM				
Client ID: SB-4(32-35)			Run ID: ICPMS3_230710B		SeqNo: 9751409		Prep Date: 7/7/2023		DF: 10		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	263.2	2.7	2.9	5.869	242.6	351	75-125	0			SO
Calcium	27760	140	290	586.9	25890	317	75-125	0			SO
Manganese	871.8	2.5	2.9	5.869	835.1	624	75-125	0			SO

MS Sample ID: 23070106-27AMS					Units: mg/Kg		Analysis Date: 7/11/2023 04:11 PM				
Client ID: SB-4(32-35)			Run ID: ICPMS3_230711B		SeqNo: 9755326		Prep Date: 7/7/2023		DF: 100		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	6769	190	230	5.869	4031	46700	75-125	0			SO

MSD Sample ID: 23070106-27AMSD					Units: mg/Kg		Analysis Date: 7/7/2023 08:02 PM				
Client ID: SB-4(32-35)			Run ID: ICPMS3_230707B		SeqNo: 9745537		Prep Date: 7/7/2023		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	3.945	0.079	0.30	5.931	0.4848	58.3	75-125	4.468	12.4	20	S
Arsenic	10.52	0.036	0.30	5.931	6.543	67.1	75-125	11.62	9.88	20	S
Beryllium	5.188	0.02	0.12	5.931	0.4082	80.6	75-125	6.226	18.2	20	
Cadmium	4.043	0.018	0.12	5.931	0.2356	64.2	75-125	4.822	17.6	20	S
Chromium	15.21	0.13	0.30	5.931	9.214	101	75-125	15.29	0.488	20	
Cobalt	10.83	0.049	0.30	5.931	6.745	68.8	75-125	11.81	8.68	20	S
Copper	15.01	0.3	0.30	5.931	12.19	47.6	75-125	15.72	4.63	20	S
Iron	12450	9.5	12	593.1	11090	230	75-125	13190	5.73	20	SEO
Lead	13.58	0.14	0.30	5.931	8.713	82.1	75-125	15.61	13.9	20	
Magnesium	10710	8.3	12	593.1	10660	8.09	75-125	11840	10	20	SEO
Nickel	19.53	0.15	0.30	5.931	16.08	58.3	75-125	21.34	8.84	20	S
Potassium	1696	5	12	593.1	1044	110	75-125	1929	12.8	20	
Selenium	4.002	0.27	0.30	5.931	0.2868	62.6	75-125	4.948	21.2	20	SR
Silver	4.298	0.039	0.30	5.931	0.05709	71.5	75-125	4.898	13.1	20	S
Sodium	798.5	16	18	593.1	324.4	79.9	75-125	918.1	13.9	20	
Vanadium	29.6	0.076	0.30	5.931	18.27	191	75-125	31.72	6.91	20	S
Zinc	44.56	0.58	0.59	5.931	40.55	67.5	75-125	46.45	4.17	20	SO

MSD Sample ID: 23070106-27AMSD					Units: mg/Kg		Analysis Date: 7/11/2023 12:26 AM				
Client ID: SB-4(32-35)			Run ID: ICPMS3_230710B		SeqNo: 9751410		Prep Date: 7/7/2023		DF: 10		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	237.4	2.7	3.0	5.931	242.6	-87.9	75-125	263.2	10.3	20	SO
Calcium	24510	140	300	593.1	25890	-233	75-125	27760	12.4	20	SO
Manganese	785.2	2.5	3.0	5.931	835.1	-842	75-125	871.8	10.5	20	SO

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

**Client:** Tetra Tech  
**Work Order:** 23070106  
**Project:** Boys and Girls Club

**QC BATCH REPORT**

Batch ID: 219480      Instrument ID ICPMS3      Method: SW6020B

MSD		Sample ID: 23070106-27AMSD				Units: mg/Kg		Analysis Date: 7/11/2023 04:13 PM			
Client ID: SB-4(32-35)		Run ID: ICPMS3_230711B				SeqNo: 9755327		Prep Date: 7/7/2023		DF: 100	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	6370	190	240	5.931	4031	39400	75-125	6769	6.07	20	SO

The following samples were analyzed in this batch:	23070106-13A	23070106-14A	23070106-15A
	23070106-16A	23070106-17A	23070106-18A
	23070106-19A	23070106-20A	23070106-21A
	23070106-22A	23070106-23A	23070106-24A
	23070106-27A		

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



Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: 219705 Instrument ID ICPMS3 Method: SW6020B

MBLK				Sample ID: MBLK-219705-219705				Units: mg/Kg			Analysis Date: 7/12/2023 08:16 PM		
Client ID:			Run ID: ICPMS3_230712B				SeqNo: 9759986		Prep Date: 7/12/2023		DF: 1		
Analyte	Result	MDL	PQL	SPK	Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	U	0.03	0.25										
Barium	U	0.23	0.25										
Cadmium	U	0.015	0.10										
Chromium	U	0.11	0.25										
Copper	U	0.25	0.25										
Lead	U	0.12	0.25										
Silver	U	0.033	0.25										
Thallium	U	0.039	0.25										
Zinc	U	0.49	0.50										

MBLK				Sample ID: MBLK-219705-219705				Units: mg/Kg			Analysis Date: 7/13/2023 12:14 PM		
Client ID:				Run ID: ICPMS3_230713B				SeqNo: 9762305		Prep Date: 7/12/2023		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Selenium	U	0.23	0.25										

LCS					Sample ID: LCS-219705-219705				Units: mg/Kg			Analysis Date: 7/12/2023 08:18 PM		
Client ID:			Run ID: ICPMS3_230712B				SeqNo: 9759987		Prep Date: 7/12/2023		DF: 1			
Analyte	Result	MDL	PQL	SPK	Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Arsenic	4.462	0.03	0.25	5		0	89.2	80-120	0					
Barium	4.813	0.23	0.25	5		0	96.3	80-120	0					
Cadmium	4.63	0.015	0.10	5		0	92.6	80-120	0					
Chromium	4.553	0.11	0.25	5		0	91.1	80-120	0					
Copper	4.465	0.25	0.25	5		0	89.3	80-120	0					
Lead	4.593	0.12	0.25	5		0	91.9	80-120	0					
Silver	4.723	0.033	0.25	5		0	94.5	80-120	0					
Thallium	4.47	0.039	0.25	5		0	89.4	80-120	0					
Zinc	4.644	0.49	0.50	5		0	92.9	80-120	0					

LCS				Sample ID: LCS-219705-219705				Units: mg/Kg			Analysis Date: 7/13/2023 12:16 PM		
Client ID:			Run ID: ICPMS3_230713B			SeqNo: 9762306			Prep Date: 7/12/2023		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Selenium	4.792	0.23	0.25	5	0	95.8	80-120	0					

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: 219705 Instrument ID ICPMS3 Method: SW6020B

MS Sample ID: 23070106-27AMS					Units: mg/Kg		Analysis Date: 7/12/2023 08:51 PM				
Client ID: SB-4(32-35)			Run ID: ICPMS3_230712B			SeqNo: 9760006		Prep Date: 7/12/2023		DF: 10	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.75	0.31	2.6	5.123	9.854	76	75-125	0			
Barium	317.5	2.4	2.6	5.123	326.7	-181	75-125	0			SO
Cadmium	5.449	0.15	1.0	5.123	0.3657	99.2	75-125	0			
Chromium	18.22	1.1	2.6	5.123	11.89	123	75-125	0			
Copper	18.92	2.6	2.6	5.123	15.96	57.7	75-125	0			S
Lead	15.05	1.2	2.6	5.123	10.82	82.6	75-125	0			
Silver	5.295	0.34	2.6	5.123	0.0799	102	75-125	0			
Thallium	5.327	0.4	2.6	5.123	0.275	98.6	75-125	0			
Zinc	57.55	5	5.1	5.123	59.26	-33.4	75-125	0			SO

MS Sample ID: 23070106-27AMS					Units: mg/Kg		Analysis Date: 7/13/2023 12:17 PM				
Client ID: SB-4(32-35)			Run ID: ICPMS3_230713B			SeqNo: 9762307		Prep Date: 7/12/2023		DF: 10	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	5.715	2.4	2.6	5.123	0	112	75-125	0			

MSD Sample ID: 23070106-27AMSD					Units: mg/Kg		Analysis Date: 7/12/2023 08:56 PM				
Client ID: SB-4(32-35)			Run ID: ICPMS3_230712B			SeqNo: 9760009		Prep Date: 7/12/2023		DF: 10	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.85	0.32	2.7	5.388	9.854	74.2	75-125	13.75	0.751	20	S
Barium	295	2.5	2.7	5.388	326.7	-589	75-125	317.5	7.33	20	SO
Cadmium	5.598	0.16	1.1	5.388	0.3657	97.1	75-125	5.449	2.7	20	
Chromium	18.66	1.2	2.7	5.388	11.89	126	75-125	18.22	2.41	20	S
Copper	19.32	2.7	2.7	5.388	15.96	62.3	75-125	18.92	2.1	20	S
Lead	15.09	1.3	2.7	5.388	10.82	79.2	75-125	15.05	0.239	20	
Silver	5.451	0.36	2.7	5.388	0.0799	99.7	75-125	5.295	2.91	20	
Thallium	5.406	0.42	2.7	5.388	0.275	95.2	75-125	5.327	1.48	20	
Zinc	58.77	5.3	5.4	5.388	59.26	-9.2	75-125	57.55	2.09	20	SO

MSD Sample ID: 23070106-27AMSD					Units: mg/Kg		Analysis Date: 7/13/2023 12:19 PM				
Client ID: SB-4(32-35)			Run ID: ICPMS3_230713B			SeqNo: 9762308		Prep Date: 7/12/2023		DF: 10	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	5.194	2.5	2.7	5.388	0	96.4	75-125	5.715	9.55	20	

The following samples were analyzed in this batch:

23070106-13A	23070106-14A	23070106-15A
23070106-16A	23070106-17A	23070106-18A
23070106-19A	23070106-20A	23070106-21A
23070106-22A	23070106-23A	23070106-24A
23070106-27A		

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **219591** Instrument ID **SVMS9** Method: **SW8270E**

MBLK				Sample ID: SBLKS1-219591-219591				Units: µg/Kg		Analysis Date: 7/11/2023 01:26 PM		
Client ID:		Run ID: SVMS9_230711A			SeqNo: 9761918		Prep Date: 7/10/2023		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:** 23070106  
**Project:** Boys and Girls Club

## QC BATCH REPORT

Batch ID: <b>219591</b>		Instrument ID <b>SVMS9</b>		Method: <b>SW8270E</b>	
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		
Pyridine	U	66	170		
<i>Surr: 2,4,6-Tribromophenol</i>	<i>2147</i>	0	0	3333	0 64.4 48-94 0
<i>Surr: 2-Fluorobiphenyl</i>	<i>2584</i>	0	0	3333	0 77.5 50-103 0
<i>Surr: 2-Fluorophenol</i>	<i>2507</i>	0	0	3333	0 75.2 43-105 0
<i>Surr: 4-Terphenyl-d14</i>	<i>2851</i>	0	0	3333	0 85.5 55-111 0
<i>Surr: Nitrobenzene-d5</i>	<i>2449</i>	0	0	3333	0 73.5 47-100 0
<i>Surr: Phenol-d6</i>	<i>2567</i>	0	0	3333	0 77 49-110 0

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **219591** Instrument ID **SVMS9** Method: **SW8270E**

LCS		Sample ID: <b>SLCSS1-219591-219591</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/11/2023 01:49 PM</b>			
Client ID:		Run ID: <b>SVMS9_230711A</b>				SeqNo: <b>9761919</b>		Prep Date: <b>7/10/2023</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	986	23	33	1333	0	74	57-101	0			
1,2,4,5-Tetrachlorobenzene	929.3	30	170	1333	0	69.7	54-98	0			
1-Methylnaphthalene	949.3	4.8	6.7	1333	0	71.2	56-100	0			
2,2'-Oxybis(1-chloropropane)	958	23	33	1333	0	71.9	50-101	0			
2,3,4,6-Tetrachlorophenol	968.7	24	67	1333	0	72.7	48-103	0			
2,4,5-Trichlorophenol	1065	20	33	1333	0	79.9	54-98	0			
2,4,6-Trichlorophenol	1031	8.9	33	1333	0	77.3	56-97	0			
2,4-Dichlorophenol	974	18	33	1333	0	73.1	54-99	0			
2,4-Dimethylphenol	1139	17	33	1333	0	85.4	47-102	0			
2,4-Dinitrophenol	970	59	670	1333	0	72.8	10-100	0			
2,4-Dinitrotoluene	1076	22	33	1333	0	80.7	62-105	0			
2,6-Dinitrotoluene	1029	22	33	1333	0	77.2	62-103	0			
2-Chloronaphthalene	996.7	4.7	6.7	1333	0	74.8	57-101	0			
2-Chlorophenol	966.7	22	33	1333	0	72.5	52-102	0			
2-Methylnaphthalene	998	3.4	6.7	1333	0	74.9	55-102	0			
2-Methylphenol	997.3	20	33	1333	0	74.8	54-103	0			
2-Nitroaniline	1109	19	33	1333	0	83.2	57-103	0			
2-Nitrophenol	1013	21	33	1333	0	76	52-102	0			
3&4-Methylphenol	992	18	33	1333	0	74.4	56-103	0			
3,3'-Dichlorobenzidine	686	16	170	1333	0	51.5	41-91	0			
3-Nitroaniline	823.3	19	33	1333	0	61.8	35-107	0			
4,6-Dinitro-2-methylphenol	1165	28	33	1333	0	87.4	42-104	0			
4-Bromophenyl phenyl ether	1054	18	33	1333	0	79.1	63-104	0			
4-Chloro-3-methylphenol	1045	25	33	1333	0	78.4	57-103	0			
4-Chloroaniline	1054	17	67	1333	0	79.1	32-99	0			
4-Chlorophenyl phenyl ether	1013	22	33	1333	0	76	62-100	0			
4-Nitroaniline	697.3	52	170	1333	0	52.3	19-124	0			
4-Nitrophenol	1271	16	170	1333	0	95.3	44-106	0			
Acenaphthene	1042	4.8	6.7	1333	0	78.2	60-101	0			
Acenaphthylene	982.7	4.3	6.7	1333	0	73.7	59-101	0			
Acetophenone	970	21	33	1333	0	72.8	54-102	0			
Anthracene	1081	4.7	6.7	1333	0	81.1	63-103	0			
Atrazine	1035	20	33	1333	0	77.7	60-110	0			
Benzaldehyde	350.7	51	67	1333	0	26.3	10-143	0			
Benzo(a)anthracene	1065	5.8	6.7	1333	0	79.9	66-102	0			
Benzo(a)pyrene	1133	4.1	6.7	1333	0	85	66-105	0			
Benzo(b)fluoranthene	1129	5	6.7	1333	0	84.7	67-105	0			
Benzo(g,h,i)perylene	1014	5.1	6.7	1333	0	76.1	59-110	0			
Benzo(k)fluoranthene	1122	5	6.7	1333	0	84.2	68-106	0			
Bis(2-chloroethoxy)methane	1000	21	33	1333	0	75	54-102	0			
Bis(2-chloroethyl)ether	943.3	24	33	1333	0	70.8	51-101	0			
Bis(2-ethylhexyl)phthalate	1194	28	33	1333	0	89.6	63-114	0			
Butyl benzyl phthalate	1083	42	67	1333	0	81.2	59-107	0			

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: 219591		Instrument ID SVMS9		Method: SW8270E				
Caprolactam	1031	51	67	1333	0	77.4	49-103	0
Carbazole	1052	24	33	1333	0	78.9	63-103	0
Chrysene	1030	5.4	6.7	1333	0	77.3	66-105	0
Dibenzo(a,h)anthracene	1012	3.6	6.7	1333	0	75.9	61-109	0
Dibenzofuran	1045	21	33	1333	0	78.4	61-101	0
Diethyl phthalate	1056	26	33	1333	0	79.2	63-105	0
Dimethyl phthalate	1039	25	33	1333	0	77.9	64-104	0
Di-n-butyl phthalate	1133	20	33	1333	0	85	66-108	0
Di-n-octyl phthalate	1293	29	33	1333	0	97	53-126	0
Fluoranthene	1041	3.2	6.7	1333	0	78.1	66-105	0
Fluorene	1014	4.8	6.7	1333	0	76.1	62-101	0
Hexachlorobenzene	1027	21	33	1333	0	77	61-104	0
Hexachlorobutadiene	978	26	33	1333	0	73.4	52-99	0
Hexachlorocyclopentadiene	1179	32	33	1333	0	88.5	39-106	0
Hexachloroethane	1018	14	33	1333	0	76.4	59-99	0
Indeno(1,2,3-cd)pyrene	1028	4.6	6.7	1333	0	77.1	57-114	0
Isophorone	1045	24	170	1333	0	78.4	55-101	0
Naphthalene	982.7	4.3	6.7	1333	0	73.7	54-99	0
Nitrobenzene	1023	25	170	1333	0	76.8	53-100	0
N-Nitrosodi-n-propylamine	1006	32	33	1333	0	75.5	52-104	0
N-Nitrosodiphenylamine	1057	19	33	1333	0	79.3	61-104	0
Pentachlorophenol	1000	26	33	1333	0	75	35-100	0
Phenanthrene	1057	3.1	6.7	1333	0	79.3	64-101	0
Phenol	1069	17	33	1333	0	80.2	51-107	0
Pyrene	1047	6.3	6.7	1333	0	78.6	62-114	0
Pyridine	889.3	66	170	1333	0	66.7	40-84	0
Surr: 2,4,6-Tribromophenol	2501	0	0	3333	0	75	48-94	0
Surr: 2-Fluorobiphenyl	2569	0	0	3333	0	77.1	50-103	0
Surr: 2-Fluorophenol	2452	0	0	3333	0	73.6	43-105	0
Surr: 4-Terphenyl-d14	2719	0	0	3333	0	81.6	55-111	0
Surr: Nitrobenzene-d5	2477	0	0	3333	0	74.3	47-100	0
Surr: Phenol-d6	2612	0	0	3333	0	78.4	49-110	0

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: 219591 Instrument ID SVMS9 Method: SW8270E

MS Sample ID: 23070106-03A MS					Units: µg/Kg		Analysis Date: 7/11/2023 02:13 PM				
Client ID: SB-2 (0-3)			Run ID: SVMS9_230711A		SeqNo: 9761920		Prep Date: 7/10/2023		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	1002	23	32	1307	9.804	75.9	57-101	0			
1,2,4,5-Tetrachlorobenzene	969.9	29	160	1307	0	74.2	54-98	0			
1-Methylnaphthalene	992.8	4.7	6.5	1307	2.614	75.8	56-100	0			
2,2'-Oxybis(1-chloropropane)	958.2	22	32	1307	0	73.3	50-101	0			
2,3,4,6-Tetrachlorophenol	977.8	24	66	1307	0	74.8	48-103	0			
2,4,5-Trichlorophenol	1044	19	32	1307	0	79.9	54-98	0			
2,4,6-Trichlorophenol	915.7	8.7	32	1307	0	70.1	56-97	0			
2,4-Dichlorophenol	900.7	18	32	1307	0	68.9	54-99	0			
2,4-Dimethylphenol	303.3	17	32	1307	0	23.2	47-102	0			S
2,4-Dinitrophenol	619.6	58	650	1307	0	47.4	10-100	0			J
2,4-Dinitrotoluene	1102	21	32	1307	0	84.3	62-105	0			
2,6-Dinitrotoluene	1073	21	32	1307	0	82.1	62-103	0			
2-Chloronaphthalene	1034	4.6	6.5	1307	0	79.1	57-101	0			
2-Chlorophenol	919.6	22	32	1307	0	70.4	52-102	0			
2-Methylnaphthalene	1032	3.3	6.5	1307	3.268	78.7	55-102	0			
2-Methylphenol	647.1	20	32	1307	0	49.5	54-103	0			S
2-Nitroaniline	1136	18	32	1307	0	86.9	57-103	0			
2-Nitrophenol	1035	21	32	1307	0	79.2	52-102	0			
3&4-Methylphenol	715.7	18	32	1307	0	54.8	56-103	0			S
3,3'-Dichlorobenzidine	599.3	15	160	1307	0	45.9	41-91	0			
3-Nitroaniline	821.6	19	32	1307	0	62.9	35-107	0			
4,6-Dinitro-2-methylphenol	1061	27	32	1307	0	81.2	42-104	0			
4-Bromophenyl phenyl ether	1065	18	32	1307	0	81.5	63-104	0			
4-Chloro-3-methylphenol	881.7	24	32	1307	0	67.5	57-103	0			
4-Chloroaniline	1057	17	66	1307	0	80.9	32-99	0			
4-Chlorophenyl phenyl ether	1050	21	32	1307	0	80.3	62-100	0			
4-Nitroaniline	520.3	51	160	1307	0	39.8	19-124	0			
4-Nitrophenol	1292	16	160	1307	0	98.8	44-106	0			
Acenaphthene	1042	4.7	6.5	1307	0	79.8	60-101	0			
Acenaphthylene	1007	4.2	6.5	1307	0	77.1	59-101	0			
Acetophenone	971.2	21	32	1307	0	74.3	54-102	0			
Anthracene	1090	4.6	6.5	1307	0	83.4	63-103	0			
Atrazine	1133	19	32	1307	0	86.7	60-110	0			
Benzaldehyde	371.9	50	66	1307	0	28.5	10-143	0			
Benzo(a)anthracene	1071	5.6	6.5	1307	0	81.9	66-102	0			
Benzo(a)pyrene	1125	4	6.5	1307	0	86.1	66-105	0			
Benzo(b)fluoranthene	1125	4.9	6.5	1307	0	86.1	67-105	0			
Benzo(g,h,i)perylene	1008	5	6.5	1307	0	77.1	59-110	0			
Benzo(k)fluoranthene	1133	5	6.5	1307	0	86.7	68-106	0			
Bis(2-chloroethoxy)methane	1012	21	32	1307	0	77.5	54-102	0			
Bis(2-chloroethyl)ether	975.2	23	32	1307	0	74.6	51-101	0			
Bis(2-ethylhexyl)phthalate	1220	27	32	1307	0	93.4	63-114	0			
Butyl benzyl phthalate	1106	41	66	1307	0	84.6	59-107	0			

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

**Client:** Tetra Tech  
**Work Order:** 23070106  
**Project:** Boys and Girls Club

## QC BATCH REPORT

Batch ID: <b>219591</b>		Instrument ID <b>SVMS9</b>		Method: <b>SW8270E</b>					
Caprolactam	899.3	50	66	1307	0	68.8	49-103	0	
Carbazole	1071	24	32	1307	0	81.9	63-103	0	
Chrysene	1036	5.3	6.5	1307	0	79.3	66-105	0	
Dibenzo(a,h)anthracene	1012	3.5	6.5	1307	0	77.5	61-109	0	
Dibenzofuran	1073	20	32	1307	0	82.1	61-101	0	
Diethyl phthalate	1080	26	32	1307	0	82.6	63-105	0	
Dimethyl phthalate	1049	25	32	1307	0	80.3	64-104	0	
Di-n-butyl phthalate	1178	20	32	1307	0	90.1	66-108	0	
Di-n-octyl phthalate	1354	28	32	1307	0	104	53-126	0	
Fluoranthene	1124	3.1	6.5	1307	0	86	66-105	0	
Fluorene	1054	4.7	6.5	1307	0	80.6	62-101	0	
Hexachlorobenzene	1042	20	32	1307	0	79.8	61-104	0	
Hexachlorobutadiene	1011	25	32	1307	0	77.4	52-99	0	
Hexachlorocyclopentadiene	1277	31	32	1307	0	97.7	39-106	0	
Hexachloroethane	1037	14	32	1307	0	79.3	59-99	0	
Indeno(1,2,3-cd)pyrene	1049	4.5	6.5	1307	0	80.3	57-114	0	
Isophorone	1044	23	160	1307	0	79.9	55-101	0	
Naphthalene	1011	4.2	6.5	1307	1.307	77.3	54-99	0	
Nitrobenzene	1057	25	160	1307	0	80.9	53-100	0	
N-Nitrosodi-n-propylamine	1009	32	32	1307	0	77.2	52-104	0	
N-Nitrosodiphenylamine	949	19	32	1307	0	72.6	61-104	0	
Pentachlorophenol	965.4	26	32	1307	0	73.9	35-100	0	
Phenanthrene	1059	3	6.5	1307	0	81	64-101	0	
Phenol	988.9	16	32	1307	0	75.7	51-107	0	
Pyrene	1032	6.2	6.5	1307	0	79	62-114	0	
Pyridine	820.9	64	160	1307	0	62.8	40-84	0	
Surr: 2,4,6-Tribromophenol	2114	0	0	3268	0	64.7	48-94	0	
Surr: 2-Fluorobiphenyl	2581	0	0	3268	0	79	50-103	0	
Surr: 2-Fluorophenol	2230	0	0	3268	0	68.2	43-105	0	
Surr: 4-Terphenyl-d14	2606	0	0	3268	0	79.7	55-111	0	
Surr: Nitrobenzene-d5	2546	0	0	3268	0	77.9	47-100	0	
Surr: Phenol-d6	2432	0	0	3268	0	74.4	49-110	0	

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



Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: 219591 Instrument ID SVMS9 Method: SW8270E

MSD Sample ID: 23070106-03A MSD					Units: µg/Kg			Analysis Date: 7/11/2023 02:36 PM			
Client ID: SB-2 (0-3)			Run ID: SVMS9_230711A		SeqNo: 9761921		Prep Date: 7/10/2023		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	912.4	22	31	1269	9.804	71.1	57-101	1002	9.35	30	
1,2,4,5-Tetrachlorobenzene	873.7	28	160	1269	0	68.9	54-98	969.9	10.4	30	
1-Methylnaphthalene	894	4.6	6.3	1269	2.614	70.3	56-100	992.8	10.5	30	
2,2'-Oxybis(1-chloropropane)	885.2	22	31	1269	0	69.8	50-101	958.2	7.92	30	
2,3,4,6-Tetrachlorophenol	912.4	23	64	1269	0	71.9	48-103	977.8	6.91	30	
2,4,5-Trichlorophenol	970.8	19	31	1269	0	76.5	54-98	1044	7.24	30	
2,4,6-Trichlorophenol	898.5	8.4	31	1269	0	70.8	56-97	915.7	1.9	30	
2,4-Dichlorophenol	870.6	17	31	1269	0	68.6	54-99	900.7	3.4	30	
2,4-Dimethylphenol	379.4	16	31	1269	0	29.9	47-102	303.3	22.3	30	S
2,4-Dinitrophenol	566.6	57	630	1269	0	44.7	10-100	619.6	0	30	J
2,4-Dinitrotoluene	1025	21	31	1269	0	80.8	62-105	1102	7.2	30	
2,6-Dinitrotoluene	979.1	21	31	1269	0	77.2	62-103	1073	9.17	30	
2-Chloronaphthalene	941	4.4	6.3	1269	0	74.2	57-101	1034	9.42	30	
2-Chlorophenol	878.8	21	31	1269	0	69.3	52-102	919.6	4.54	30	
2-Methylnaphthalene	946.1	3.2	6.3	1269	3.268	74.3	55-102	1032	8.69	30	
2-Methylphenol	704.3	19	31	1269	0	55.5	54-103	647.1	8.47	30	
2-Nitroaniline	1025	18	31	1269	0	80.8	57-103	1136	10.2	30	
2-Nitrophenol	940.4	20	31	1269	0	74.1	52-102	1035	9.55	30	
3&4-Methylphenol	746.2	17	31	1269	0	58.8	56-103	715.7	4.17	30	
3,3'-Dichlorobenzidine	695.4	15	160	1269	0	54.8	41-91	599.3	14.8	30	
3-Nitroaniline	770.3	18	31	1269	0	60.7	35-107	821.6	6.44	30	
4,6-Dinitro-2-methylphenol	1025	26	31	1269	0	80.8	42-104	1061	3.46	30	
4-Bromophenyl phenyl ether	1004	17	31	1269	0	79.2	63-104	1065	5.89	30	
4-Chloro-3-methylphenol	876.3	23	31	1269	0	69.1	57-103	881.7	0.618	30	
4-Chloroaniline	981	16	64	1269	0	77.3	32-99	1057	7.45	30	
4-Chlorophenyl phenyl ether	968.9	21	31	1269	0	76.4	62-100	1050	8	30	
4-Nitroaniline	500.6	49	160	1269	0	39.5	19-124	520.3	3.85	30	
4-Nitrophenol	1206	15	160	1269	0	95	44-106	1292	6.88	30	
Acenaphthene	957.5	4.6	6.3	1269	0	75.5	60-101	1042	8.5	30	
Acenaphthylene	919.4	4.1	6.3	1269	0	72.5	59-101	1007	9.11	30	
Acetophenone	901.6	20	31	1269	0	71.1	54-102	971.2	7.43	30	
Anthracene	1013	4.5	6.3	1269	0	79.9	63-103	1090	7.25	30	
Atrazine	1013	19	31	1269	0	79.9	60-110	1133	11.2	30	
Benzaldehyde	316	49	64	1269	0	24.9	10-143	371.9	16.3	30	
Benzo(a)anthracene	1026	5.5	6.3	1269	0	80.9	66-102	1071	4.25	30	
Benzo(a)pyrene	1076	3.9	6.3	1269	0	84.8	66-105	1125	4.48	30	
Benzo(b)fluoranthene	1065	4.7	6.3	1269	0	83.9	67-105	1125	5.55	30	
Benzo(g,h,i)perylene	968.9	4.9	6.3	1269	0	76.4	59-110	1008	3.94	30	
Benzo(k)fluoranthene	1089	4.8	6.3	1269	0	85.8	68-106	1133	3.95	30	
Bis(2-chloroethoxy)methane	933.4	20	31	1269	0	73.6	54-102	1012	8.12	30	
Bis(2-chloroethyl)ether	893.4	22	31	1269	0	70.4	51-101	975.2	8.75	30	
Bis(2-ethylhexyl)phthalate	1160	26	31	1269	0	91.4	63-114	1220	5.07	30	
Butyl benzyl phthalate	1067	40	64	1269	0	84.1	59-107	1106	3.55	30	

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: <b>219591</b>		Instrument ID <b>SVMS9</b>			Method: <b>SW8270E</b>					
Caprolactam	970.2	49	64	1269	0	76.5	49-103	899.3	7.58	30
Carbazole	993	23	31	1269	0	78.3	63-103	1071	7.52	30
Chrysene	1014	5.1	6.3	1269	0	79.9	66-105	1036	2.15	30
Dibenzo(a,h)anthracene	971.4	3.4	6.3	1269	0	76.6	61-109	1012	4.13	30
Dibenzofuran	982.9	20	31	1269	0	77.5	61-101	1073	8.79	30
Diethyl phthalate	1006	25	31	1269	0	79.3	63-105	1080	7.04	30
Dimethyl phthalate	977.8	24	31	1269	0	77.1	64-104	1049	7.03	30
Di-n-butyl phthalate	1094	19	31	1269	0	86.2	66-108	1178	7.38	30
Di-n-octyl phthalate	1254	27	31	1269	0	98.9	53-126	1354	7.65	30
Fluoranthene	1013	3	6.3	1269	0	79.8	66-105	1124	10.4	30
Fluorene	957.5	4.6	6.3	1269	0	75.5	62-101	1054	9.56	30
Hexachlorobenzene	989.8	20	31	1269	0	78	61-104	1042	5.18	30
Hexachlorobutadiene	918.1	25	31	1269	0	72.4	52-99	1011	9.64	30
Hexachlorocyclopentadiene	1121	30	31	1269	0	88.4	39-106	1277	13	30
Hexachloroethane	930.2	13	31	1269	0	73.3	59-99	1037	10.8	30
Indeno(1,2,3-cd)pyrene	993.7	4.4	6.3	1269	0	78.3	57-114	1049	5.42	30
Isophorone	965.1	23	160	1269	0	76.1	55-101	1044	7.9	30
Naphthalene	909.9	4.1	6.3	1269	1.307	71.6	54-99	1011	10.5	30
Nitrobenzene	955	24	160	1269	0	75.3	53-100	1057	10.1	30
N-Nitrosodi-n-propylamine	928.3	31	31	1269	0	73.2	52-104	1009	8.35	30
N-Nitrosodiphenylamine	938.5	18	31	1269	0	74	61-104	949	1.12	30
Pentachlorophenol	943.5	25	31	1269	0	74.4	35-100	965.4	2.29	30
Phenanthrene	993.7	3	6.3	1269	0	78.3	64-101	1059	6.35	30
Phenol	941.6	16	31	1269	0	74.2	51-107	988.9	4.9	30
Pyrene	1016	6	6.3	1269	0	80.1	62-114	1032	1.52	30
Pyridine	890.9	62	160	1269	0	70.2	40-84	820.9	8.17	30
<i>Surr: 2,4,6-Tribromophenol</i>	<i>2163</i>	0	0	3172	0	<i>68.2</i>	<i>48-94</i>	2114	<i>2.31</i>	<i>40</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>2390</i>	0	0	3172	0	<i>75.3</i>	<i>50-103</i>	2581	<i>7.68</i>	<i>40</i>
<i>Surr: 2-Fluorophenol</i>	<i>2098</i>	0	0	3172	0	<i>66.1</i>	<i>43-105</i>	2230	<i>6.09</i>	<i>40</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>2589</i>	0	0	3172	0	<i>81.6</i>	<i>55-111</i>	2606	<i>0.632</i>	<i>40</i>
<i>Surr: Nitrobenzene-d5</i>	<i>2291</i>	0	0	3172	0	<i>72.2</i>	<i>47-100</i>	2546	<i>10.5</i>	<i>40</i>
<i>Surr: Phenol-d6</i>	<i>2298</i>	0	0	3172	0	<i>72.4</i>	<i>49-110</i>	2432	<i>5.69</i>	<i>40</i>

The following samples were analyzed in this batch:

23070106-01A	23070106-02A	23070106-03A
23070106-04A	23070106-05A	23070106-06A
23070106-07A	23070106-08A	23070106-09A
23070106-10A	23070106-11A	23070106-12A
23070106-13A	23070106-14A	23070106-15A
23070106-16A	23070106-17A	23070106-18A
23070106-19A	23070106-20A	

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **219647** Instrument ID **SVMS9** Method: **SW8270E**

MBLK		Sample ID: <b>SBLKS1-219647-219647</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/12/2023 02:52 PM</b>			
Client ID:		Run ID: <b>SVMS9_230712A</b>				SeqNo: <b>9764199</b>		Prep Date: <b>7/11/2023</b>		DF: <b>1</b>	
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:** 23070106  
**Project:** Boys and Girls Club

## QC BATCH REPORT

Batch ID: <b>219647</b>		Instrument ID <b>SVMS9</b>		Method: <b>SW8270E</b>	
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		
Pyridine	U	66	170		
<i>Surr: 2,4,6-Tribromophenol</i>	<i>1001</i>	0	0	3333	0 30 48-94 0 S
<i>Surr: 2-Fluorobiphenyl</i>	<i>1218</i>	0	0	3333	0 36.5 50-103 0 S
<i>Surr: 2-Fluorophenol</i>	<i>1203</i>	0	0	3333	0 36.1 43-105 0 S
<i>Surr: 4-Terphenyl-d14</i>	<i>1322</i>	0	0	3333	0 39.7 55-111 0 S
<i>Surr: Nitrobenzene-d5</i>	<i>1209</i>	0	0	3333	0 36.3 47-100 0 S
<i>Surr: Phenol-d6</i>	<i>1203</i>	0	0	3333	0 36.1 49-110 0 S

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **219647** Instrument ID **SVMS9** Method: **SW8270E**

LCS		Sample ID: <b>SLCSS1-219647-219647</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/12/2023 03:15 PM</b>			
Client ID:		Run ID: <b>SVMS9_230712A</b>				SeqNo: <b>9764200</b>		Prep Date: <b>7/11/2023</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	1006	23	33	1333	0	75.5	57-101	0			
1,2,4,5-Tetrachlorobenzene	933.3	30	170	1333	0	70	54-98	0			
1-Methylnaphthalene	982.7	4.8	6.7	1333	0	73.7	56-100	0			
2,2'-Oxybis(1-chloropropane)	1023	23	33	1333	0	76.7	50-101	0			
2,3,4,6-Tetrachlorophenol	1036	24	67	1333	0	77.7	48-103	0			
2,4,5-Trichlorophenol	1038	20	33	1333	0	77.9	54-98	0			
2,4,6-Trichlorophenol	1021	8.9	33	1333	0	76.6	56-97	0			
2,4-Dichlorophenol	983.3	18	33	1333	0	73.8	54-99	0			
2,4-Dimethylphenol	1139	17	33	1333	0	85.5	47-102	0			
2,4-Dinitrophenol	975.3	59	670	1333	0	73.2	10-100	0			
2,4-Dinitrotoluene	1115	22	33	1333	0	83.6	62-105	0			
2,6-Dinitrotoluene	1066	22	33	1333	0	80	62-103	0			
2-Chloronaphthalene	1005	4.7	6.7	1333	0	75.4	57-101	0			
2-Chlorophenol	996.7	22	33	1333	0	74.8	52-102	0			
2-Methylnaphthalene	1033	3.4	6.7	1333	0	77.5	55-102	0			
2-Methylphenol	1025	20	33	1333	0	76.9	54-103	0			
2-Nitroaniline	1130	19	33	1333	0	84.8	57-103	0			
2-Nitrophenol	988	21	33	1333	0	74.1	52-102	0			
3&4-Methylphenol	1017	18	33	1333	0	76.3	56-103	0			
3,3'-Dichlorobenzidine	687.3	16	170	1333	0	51.6	41-91	0			
3-Nitroaniline	857.3	19	33	1333	0	64.3	35-107	0			
4,6-Dinitro-2-methylphenol	1129	28	33	1333	0	84.7	42-104	0			
4-Bromophenyl phenyl ether	1027	18	33	1333	0	77.1	63-104	0			
4-Chloro-3-methylphenol	1075	25	33	1333	0	80.6	57-103	0			
4-Chloroaniline	1116	17	67	1333	0	83.7	32-99	0			
4-Chlorophenyl phenyl ether	1063	22	33	1333	0	79.7	62-100	0			
4-Nitroaniline	756	52	170	1333	0	56.7	19-124	0			
4-Nitrophenol	1374	16	170	1333	0	103	44-106	0			
Acenaphthene	1045	4.8	6.7	1333	0	78.4	60-101	0			
Acenaphthylene	995.3	4.3	6.7	1333	0	74.7	59-101	0			
Acetophenone	1029	21	33	1333	0	77.2	54-102	0			
Anthracene	1088	4.7	6.7	1333	0	81.6	63-103	0			
Atrazine	1168	20	33	1333	0	87.6	60-110	0			
Benzaldehyde	364	51	67	1333	0	27.3	10-143	0			
Benzo(a)anthracene	1085	5.8	6.7	1333	0	81.4	66-102	0			
Benzo(a)pyrene	1141	4.1	6.7	1333	0	85.6	66-105	0			
Benzo(b)fluoranthene	1125	5	6.7	1333	0	84.4	67-105	0			
Benzo(g,h,i)perylene	1036	5.1	6.7	1333	0	77.7	59-110	0			
Benzo(k)fluoranthene	1124	5	6.7	1333	0	84.3	68-106	0			
Bis(2-chloroethoxy)methane	1035	21	33	1333	0	77.7	54-102	0			
Bis(2-chloroethyl)ether	964	24	33	1333	0	72.3	51-101	0			
Bis(2-ethylhexyl)phthalate	1238	28	33	1333	0	92.9	63-114	0			
Butyl benzyl phthalate	1139	42	67	1333	0	85.5	59-107	0			

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

**Client:** Tetra Tech  
**Work Order:** 23070106  
**Project:** Boys and Girls Club

## QC BATCH REPORT

Batch ID: <b>219647</b>		Instrument ID <b>SVMS9</b>			Method: <b>SW8270E</b>			
Caprolactam	1141	51	67	1333	0	85.6	49-103	0
Carbazole	1085	24	33	1333	0	81.4	63-103	0
Chrysene	1067	5.4	6.7	1333	0	80	66-105	0
Dibenzo(a,h)anthracene	1005	3.6	6.7	1333	0	75.4	61-109	0
Dibenzofuran	1063	21	33	1333	0	79.7	61-101	0
Diethyl phthalate	1127	26	33	1333	0	84.6	63-105	0
Dimethyl phthalate	1071	25	33	1333	0	80.4	64-104	0
Di-n-butyl phthalate	1208	20	33	1333	0	90.6	66-108	0
Di-n-octyl phthalate	1317	29	33	1333	0	98.8	53-126	0
Fluoranthene	1097	3.2	6.7	1333	0	82.3	66-105	0
Fluorene	1054	4.8	6.7	1333	0	79.1	62-101	0
Hexachlorobenzene	978.7	21	33	1333	0	73.4	61-104	0
Hexachlorobutadiene	988.7	26	33	1333	0	74.2	52-99	0
Hexachlorocyclopentadiene	1071	32	33	1333	0	80.4	39-106	0
Hexachloroethane	1071	14	33	1333	0	80.3	59-99	0
Indeno(1,2,3-cd)pyrene	1043	4.6	6.7	1333	0	78.3	57-114	0
Isophorone	1067	24	170	1333	0	80	55-101	0
Naphthalene	994	4.3	6.7	1333	0	74.6	54-99	0
Nitrobenzene	1047	25	170	1333	0	78.5	53-100	0
N-Nitrosodi-n-propylamine	1059	32	33	1333	0	79.4	52-104	0
N-Nitrosodiphenylamine	1026	19	33	1333	0	77	61-104	0
Pentachlorophenol	1045	26	33	1333	0	78.4	35-100	0
Phenanthrene	1066	3.1	6.7	1333	0	80	64-101	0
Phenol	1088	17	33	1333	0	81.6	51-107	0
Pyrene	1081	6.3	6.7	1333	0	81.1	62-114	0
Pyridine	916	66	170	1333	0	68.7	40-84	0
<i>Surr: 2,4,6-Tribromophenol</i>	<i>2415</i>	0	0	3333	0	<i>72.5</i>	<i>48-94</i>	0
<i>Surr: 2-Fluorobiphenyl</i>	<i>2595</i>	0	0	3333	0	<i>77.8</i>	<i>50-103</i>	0
<i>Surr: 2-Fluorophenol</i>	<i>2461</i>	0	0	3333	0	<i>73.8</i>	<i>43-105</i>	0
<i>Surr: 4-Terphenyl-d14</i>	<i>2759</i>	0	0	3333	0	<i>82.8</i>	<i>55-111</i>	0
<i>Surr: Nitrobenzene-d5</i>	<i>2555</i>	0	0	3333	0	<i>76.7</i>	<i>47-100</i>	0
<i>Surr: Phenol-d6</i>	<i>2597</i>	0	0	3333	0	<i>77.9</i>	<i>49-110</i>	0

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **219647** Instrument ID **SVMS9** Method: **SW8270E**

MS Sample ID: <b>23070459-01A MS</b>					Units: <b>µg/Kg</b>		Analysis Date: <b>7/12/2023 03:38 PM</b>				
Client ID:		Run ID: <b>SVMS9_230712A</b>			SeqNo: <b>9764201</b>		Prep Date: <b>7/11/2023</b>		DF: <b>1</b>		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	992.2	23	32	1304	0	76.1	57-101	0			
1,2,4,5-Tetrachlorobenzene	928.9	29	160	1304	0	71.2	54-98	0			
1-Methylnaphthalene	1053	4.7	6.5	1304	85.66	74.2	56-100	0			
2,2'-Oxybis(1-chloropropane)	944.6	22	32	1304	0	72.4	50-101	0			
2,3,4,6-Tetrachlorophenol	889.8	24	66	1304	0	68.2	48-103	0			
2,4,5-Trichlorophenol	1014	19	32	1304	0	77.8	54-98	0			
2,4,6-Trichlorophenol	1003	8.7	32	1304	0	76.9	56-97	0			
2,4-Dichlorophenol	950.4	18	32	1304	0	72.9	54-99	0			
2,4-Dimethylphenol	962.8	17	32	1304	0	73.8	47-102	0			
2,4-Dinitrophenol	231.6	58	650	1304	0	17.8	10-100	0			J
2,4-Dinitrotoluene	1046	21	32	1304	0	80.2	62-105	0			
2,6-Dinitrotoluene	1022	21	32	1304	0	78.4	62-103	0			
2-Chloronaphthalene	989.6	4.6	6.5	1304	0	75.9	57-101	0			
2-Chlorophenol	937.4	22	32	1304	0	71.9	52-102	0			
2-Methylnaphthalene	1267	3.3	6.5	1304	244	78.4	55-102	0			
2-Methylphenol	921.1	20	32	1304	0	70.6	54-103	0			
2-Nitroaniline	1098	18	32	1304	0	84.2	57-103	0			
2-Nitrophenol	973.9	21	32	1304	0	74.7	52-102	0			
3&4-Methylphenol	926.9	18	32	1304	0	71.1	56-103	0			
3,3'-Dichlorobenzidine	425.3	15	160	1304	0	32.6	41-91	0			S
3-Nitroaniline	537.5	19	32	1304	0	41.2	35-107	0			
4,6-Dinitro-2-methylphenol	583.8	27	32	1304	0	44.8	42-104	0			
4-Bromophenyl phenyl ether	1046	18	32	1304	0	80.2	63-104	0			
4-Chloro-3-methylphenol	1054	24	32	1304	0	80.8	57-103	0			
4-Chloroaniline	816.7	17	66	1304	0	62.6	32-99	0			
4-Chlorophenyl phenyl ether	1035	21	32	1304	0	79.4	62-100	0			
4-Nitroaniline	450.8	51	160	1304	0	34.6	19-124	0			
4-Nitrophenol	1179	16	160	1304	0	90.4	44-106	0			
Acenaphthene	988.9	4.7	6.5	1304	11.03	75	60-101	0			
Acenaphthylene	962.8	4.2	6.5	1304	0	73.8	59-101	0			
Acetophenone	955.6	21	32	1304	0	73.3	54-102	0			
Anthracene	1149	4.6	6.5	1304	96.69	80.7	63-103	0			
Atrazine	1081	19	32	1304	0	82.9	60-110	0			
Benzaldehyde	442.9	50	66	1304	43.48	30.6	10-143	0			
Benzo(a)anthracene	1530	5.6	6.5	1304	549	75.2	66-102	0			
Benzo(a)pyrene	1736	4	6.5	1304	729.4	77.2	66-105	0			
Benzo(b)fluoranthene	1672	4.9	6.5	1304	685.3	75.6	67-105	0			
Benzo(g,h,i)perylene	1167	5	6.5	1304	388.7	59.7	59-110	0			
Benzo(k)fluoranthene	1379	4.9	6.5	1304	211.6	89.5	68-106	0			
Bis(2-chloroethoxy)methane	946.5	21	32	1304	0	72.6	54-102	0			
Bis(2-chloroethyl)ether	1023	23	32	1304	0	78.5	51-101	0			
Bis(2-ethylhexyl)phthalate	1285	27	32	1304	0	98.5	63-114	0			
Butyl benzyl phthalate	1215	41	66	1304	0	93.1	59-107	0			

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: <b>219647</b>		Instrument ID <b>SVMS9</b>		Method: <b>SW8270E</b>					
Caprolactam	1039	50	66	1304	44.13	76.3	49-103	0	
Carbazole	1082	24	32	1304	46.72	79.3	63-103	0	
Chrysene	1603	5.3	6.5	1304	636.6	74.1	66-105	0	
Dibenzo(a,h)anthracene	896.9	3.5	6.5	1304	155.1	56.9	61-109	0	S
Dibenzofuran	1079	20	32	1304	35.69	80	61-101	0	
Diethyl phthalate	1065	26	32	1304	0	81.7	63-105	0	
Dimethyl phthalate	1011	25	32	1304	0	77.5	64-104	0	
Di-n-butyl phthalate	1210	20	32	1304	0	92.8	66-108	0	
Di-n-octyl phthalate	1577	28	32	1304	0	121	53-126	0	
Fluoranthene	1553	3.1	6.5	1304	655.4	68.8	66-105	0	
Fluorene	1046	4.7	6.5	1304	20.77	78.6	62-101	0	
Hexachlorobenzene	985	20	32	1304	0	75.5	61-104	0	
Hexachlorobutadiene	956.3	25	32	1304	0	73.3	52-99	0	
Hexachlorocyclopentadiene	810.8	31	32	1304	0	62.2	39-106	0	
Hexachloroethane	1016	14	32	1304	0	77.9	59-99	0	
Indeno(1,2,3-cd)pyrene	1020	4.5	6.5	1304	264.8	57.9	57-114	0	
Isophorone	983	23	160	1304	0	75.4	55-101	0	
Naphthalene	1085	4.2	6.5	1304	127.8	73.4	54-99	0	
Nitrobenzene	989.6	25	160	1304	0	75.9	53-100	0	
N-Nitrosodi-n-propylamine	987.6	32	32	1304	0	75.7	52-104	0	
N-Nitrosodiphenylamine	1056	19	32	1304	0	81	61-104	0	
Pentachlorophenol	645.1	26	32	1304	0	49.5	35-100	0	
Phenanthrene	1367	3	6.5	1304	349.8	78	64-101	0	
Phenol	1001	16	32	1304	0	76.7	51-107	0	
Pyrene	1635	6.2	6.5	1304	697.6	71.9	62-114	0	
Pyridine	865.6	64	160	1304	0	66.4	40-84	0	
Surr: 2,4,6-Tribromophenol	2393	0	0	3261	0	73.4	48-94	0	
Surr: 2-Fluorobiphenyl	2446	0	0	3261	0	75	50-103	0	
Surr: 2-Fluorophenol	2209	0	0	3261	0	67.7	43-105	0	
Surr: 4-Terphenyl-d14	2673	0	0	3261	0	81.9	55-111	0	
Surr: Nitrobenzene-d5	2394	0	0	3261	0	73.4	47-100	0	
Surr: Phenol-d6	2429	0	0	3261	0	74.5	49-110	0	

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



Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **219647** Instrument ID **SVMS9** Method: **SW8270E**

MSD Sample ID: <b>23070459-01A MSD</b>					Units: <b>µg/Kg</b>			Analysis Date: <b>7/12/2023 04:01 PM</b>			
Client ID:		Run ID: <b>SVMS9_230712A</b>			SeqNo: <b>9764202</b>		Prep Date: <b>7/11/2023</b>		DF: <b>1</b>		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	1049	22	32	1285	0	81.6	57-101	992.2	5.55	30	
1,2,4,5-Tetrachlorobenzene	981.4	29	160	1285	0	76.4	54-98	928.9	5.49	30	
1-Methylnaphthalene	1112	4.6	6.4	1285	85.66	79.9	56-100	1053	5.39	30	
2,2'-Oxybis(1-chloropropane)	993.6	22	32	1285	0	77.3	50-101	944.6	5.06	30	
2,3,4,6-Tetrachlorophenol	948.6	24	65	1285	0	73.8	48-103	889.8	6.4	30	
2,4,5-Trichlorophenol	1048	19	32	1285	0	81.6	54-98	1014	3.28	30	
2,4,6-Trichlorophenol	1058	8.6	32	1285	0	82.4	56-97	1003	5.42	30	
2,4-Dichlorophenol	1018	17	32	1285	0	79.2	54-99	950.4	6.87	30	
2,4-Dimethylphenol	996.1	17	32	1285	0	77.5	47-102	962.8	3.4	30	
2,4-Dinitrophenol	281.5	57	640	1285	0	21.9	10-100	231.6	0	30	J
2,4-Dinitrotoluene	1082	21	32	1285	0	84.2	62-105	1046	3.38	30	
2,6-Dinitrotoluene	1093	21	32	1285	0	85.1	62-103	1022	6.71	30	
2-Chloronaphthalene	1055	4.5	6.4	1285	0	82.1	57-101	989.6	6.37	30	
2-Chlorophenol	998.1	22	32	1285	0	77.7	52-102	937.4	6.27	30	
2-Methylnaphthalene	1325	3.3	6.4	1285	244	84.1	55-102	1267	4.46	30	
2-Methylphenol	987.1	20	32	1285	0	76.8	54-103	921.1	6.93	30	
2-Nitroaniline	1152	18	32	1285	0	89.7	57-103	1098	4.84	30	
2-Nitrophenol	1056	20	32	1285	0	82.2	52-102	973.9	8.08	30	
3&4-Methylphenol	1003	18	32	1285	0	78	56-103	926.9	7.84	30	
3,3'-Dichlorobenzidine	468.5	15	160	1285	0	36.5	41-91	425.3	9.67	30	S
3-Nitroaniline	580.3	19	32	1285	0	45.2	35-107	537.5	7.66	30	
4,6-Dinitro-2-methylphenol	653	27	32	1285	0	50.8	42-104	583.8	11.2	30	
4-Bromophenyl phenyl ether	1123	18	32	1285	0	87.4	63-104	1046	7.17	30	
4-Chloro-3-methylphenol	1077	24	32	1285	0	83.8	57-103	1054	2.16	30	
4-Chloroaniline	846.4	16	65	1285	0	65.9	32-99	816.7	3.57	30	
4-Chlorophenyl phenyl ether	1062	21	32	1285	0	82.7	62-100	1035	2.58	30	
4-Nitroaniline	455	50	160	1285	0	35.4	19-124	450.8	0.941	30	
4-Nitrophenol	1209	16	160	1285	0	94.1	44-106	1179	2.47	30	
Acenaphthene	1044	4.6	6.4	1285	11.03	80.4	60-101	988.9	5.45	30	
Acenaphthylene	1022	4.2	6.4	1285	0	79.5	59-101	962.8	5.95	30	
Acetophenone	1036	20	32	1285	0	80.6	54-102	955.6	8.07	30	
Anthracene	1223	4.5	6.4	1285	96.69	87.6	63-103	1149	6.21	30	
Atrazine	1117	19	32	1285	0	86.9	60-110	1081	3.28	30	
Benzaldehyde	483.9	49	65	1285	43.48	34.3	10-143	442.9	8.85	30	
Benzo(a)anthracene	1593	5.6	6.4	1285	549	81.3	66-102	1530	4.07	30	
Benzo(a)pyrene	1782	3.9	6.4	1285	729.4	81.9	66-105	1736	2.63	30	
Benzo(b)fluoranthene	1758	4.8	6.4	1285	685.3	83.5	67-105	1672	5	30	
Benzo(g,h,i)perylene	1192	4.9	6.4	1285	388.7	62.5	59-110	1167	2.08	30	
Benzo(k)fluoranthene	1409	4.9	6.4	1285	211.6	93.2	68-106	1379	2.18	30	
Bis(2-chloroethoxy)methane	1017	20	32	1285	0	79.2	54-102	946.5	7.21	30	
Bis(2-chloroethyl)ether	1026	23	32	1285	0	79.8	51-101	1023	0.218	30	
Bis(2-ethylhexyl)phthalate	1340	27	32	1285	0	104	63-114	1285	4.18	30	
Butyl benzyl phthalate	1363	40	65	1285	0	106	59-107	1215	11.5	30	

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

**Client:** Tetra Tech  
**Work Order:** 23070106  
**Project:** Boys and Girls Club

## QC BATCH REPORT

Batch ID: <b>219647</b>		Instrument ID <b>SVMS9</b>			Method: <b>SW8270E</b>					
Caprolactam	1116	49	65	1285	44.13	83.4	49-103	1039	7.1	30
Carbazole	1132	23	32	1285	46.72	84.5	63-103	1082	4.59	30
Chrysene	1647	5.2	6.4	1285	636.6	78.6	66-105	1603	2.73	30
Dibenzo(a,h)anthracene	936.4	3.5	6.4	1285	155.1	60.8	61-109	896.9	4.3	30 S
Dibenzofuran	1120	20	32	1285	35.69	84.4	61-101	1079	3.75	30
Diethyl phthalate	1092	25	32	1285	0	85	63-105	1065	2.47	30
Dimethyl phthalate	1061	24	32	1285	0	82.6	64-104	1011	4.82	30
Di-n-butyl phthalate	1264	20	32	1285	0	98.3	66-108	1210	4.32	30
Di-n-octyl phthalate	1652	28	32	1285	0	129	53-126	1577	4.61	30 S
Fluoranthene	1664	3.1	6.4	1285	655.4	78.5	66-105	1553	6.93	30
Fluorene	1098	4.7	6.4	1285	20.77	83.9	62-101	1046	4.91	30
Hexachlorobenzene	1052	20	32	1285	0	81.9	61-104	985	6.58	30
Hexachlorobutadiene	1006	25	32	1285	0	78.3	52-99	956.3	5.11	30
Hexachlorocyclopentadiene	766.1	30	32	1285	0	59.6	39-106	810.8	5.68	30
Hexachloroethane	1057	13	32	1285	0	82.3	59-99	1016	3.94	30
Indeno(1,2,3-cd)pyrene	1070	4.5	6.4	1285	264.8	62.7	57-114	1020	4.83	30
Isophorone	1072	23	160	1285	0	83.4	55-101	983	8.66	30
Naphthalene	1145	4.1	6.4	1285	127.8	79.2	54-99	1085	5.36	30
Nitrobenzene	1037	24	160	1285	0	80.7	53-100	989.6	4.71	30
N-Nitrosodi-n-propylamine	1070	31	32	1285	0	83.3	52-104	987.6	8.01	30
N-Nitrosodiphenylamine	1128	18	32	1285	0	87.8	61-104	1056	6.57	30
Pentachlorophenol	746.1	26	32	1285	0	58.1	35-100	645.1	14.5	30
Phenanthrene	1437	3	6.4	1285	349.8	84.6	64-101	1367	4.98	30
Phenol	1062	16	32	1285	0	82.6	51-107	1001	5.92	30
Pyrene	1746	6.1	6.4	1285	697.6	81.6	62-114	1635	6.55	30
Pyridine	952.4	63	160	1285	0	74.1	40-84	865.6	9.55	30
<i>Surr: 2,4,6-Tribromophenol</i>	<i>2548</i>	0	0	3213	0	79.3	48-94	2393	6.24	40
<i>Surr: 2-Fluorobiphenyl</i>	<i>2540</i>	0	0	3213	0	79.1	50-103	2446	3.81	40
<i>Surr: 2-Fluorophenol</i>	<i>2336</i>	0	0	3213	0	72.7	43-105	2209	5.58	40
<i>Surr: 4-Terphenyl-d14</i>	<i>2711</i>	0	0	3213	0	84.4	55-111	2673	1.42	40
<i>Surr: Nitrobenzene-d5</i>	<i>2504</i>	0	0	3213	0	77.9	47-100	2394	4.49	40
<i>Surr: Phenol-d6</i>	<i>2580</i>	0	0	3213	0	80.3	49-110	2429	6.06	40

The following samples were analyzed in this batch:

23070106-21A	23070106-22A	23070106-23A
23070106-24A	23070106-27A	

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **219372** Instrument ID **VMS8** Method: **SW8260D**

MBLK		Sample ID: <b>MBLK-219372-219372</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>7/6/2023 01:31 PM</b>			
Client ID:		Run ID: <b>VMS8_230706A</b>				SeqNo: <b>9741190</b>		Prep Date: <b>7/5/2023</b>		DF: <b>1</b>	
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	18	30								
1,2-Dichlorobenzene	U	11	30								
1,2-Dichloroethane	U	26	30								
1,2-Dichloropropane	U	22	30								
1,3,5-Trimethylbenzene	U	21	100								
1,3-Dichlorobenzene	U	21	30								
1,4-Dichlorobenzene	U	24	30								
2-Butanone	U	71	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	84	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	23	100								
Dibromochloromethane	U	17	30								
Dichlorodifluoromethane	U	36	100								
Ethylbenzene	U	21	30								
Isopropylbenzene	U	19	30								
m,p-Xylene	U	40	60								
Methyl acetate	U	36	250								
Methyl tert-butyl ether	U	22	30								

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

**Client:** Tetra Tech  
**Work Order:** 23070106  
**Project:** Boys and Girls Club

## QC BATCH REPORT

Batch ID: <b>219372</b>		Instrument ID <b>VMS8</b>		Method: <b>SW8260D</b>	
Methylcyclohexane	U	11	30		
Methylene chloride	U	80	250		
o-Xylene	U	12	30		
Styrene	U	12	30		
Tetrachloroethene	U	18	30		
Toluene	U	25	30		
trans-1,2-Dichloroethene	U	25	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>975.5</i>	0	0	<i>1000</i>	0
<i>Surr: 4-Bromofluorobenzene</i>	<i>1070</i>	0	0	<i>1000</i>	0
<i>Surr: Dibromofluoromethane</i>	<i>1003</i>	0	0	<i>1000</i>	0
<i>Surr: Toluene-d8</i>	<i>974</i>	0	0	<i>1000</i>	0

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **219372** Instrument ID **VMS8** Method: **SW8260D**

LCS Sample ID: <b>LCS-219372-219372</b>					Units: <b>µg/Kg-dry</b>		Analysis Date: <b>7/6/2023 12:36 PM</b>				
Client ID:		Run ID: <b>VMS8_230706A</b>			SeqNo: <b>9741188</b>		Prep Date: <b>7/5/2023</b>		DF: <b>1</b>		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1022	14	30	1000	0	102	75-121	0			
1,1,2,2-Tetrachloroethane	1154	13	30	1000	0	115	79-125	0			
1,1,2-Trichloroethane	1090	13	30	1000	0	109	80-123	0			
1,1,2-Trichlorotrifluoroethane	999.5	19	30	1000	0	100	62-129	0			
1,1-Dichloroethane	971	11	30	1000	0	97.1	74-124	0			
1,1-Dichloroethene	991.5	9.7	30	1000	0	99.2	68-131	0			
1,2,3-Trichlorobenzene	1108	36	100	1000	0	111	60-135	0			
1,2,3-Trichloropropane	1102	13	30	1000	0	110	77-121	0			
1,2,4-Trichlorobenzene	1141	34	100	1000	0	114	63-130	0			
1,2,4-Trimethylbenzene	1112	22	30	1000	0	111	64-126	0			
1,2-Dibromo-3-chloropropane	1135	28	100	1000	0	114	55-135	0			
1,2-Dibromoethane	1266	18	30	1000	0	127	63-155	0			
1,2-Dichlorobenzene	1046	11	30	1000	0	105	77-122	0			
1,2-Dichloroethane	928	26	30	1000	0	92.8	70-130	0			
1,2-Dichloropropane	1046	22	30	1000	0	105	71-130	0			
1,3,5-Trimethylbenzene	1176	21	100	1000	0	118	66-130	0			
1,3-Dichlorobenzene	1029	21	30	1000	0	103	78-121	0			
1,4-Dichlorobenzene	1052	24	30	1000	0	105	78-122	0			
2-Butanone	1084	71	200	1000	0	108	47-164	0			
2-Hexanone	1138	15	30	1000	0	114	70-137	0			
4-Methyl-2-pentanone	988.5	28	30	1000	0	98.8	57-200	0			
Acetone	1120	89	100	1000	0	112	52-190	0			
Benzene	1068	15	30	1000	0	107	78-122	0			
Bromochloromethane	964.5	15	30	1000	0	96.4	68-130	0			
Bromodichloromethane	1044	17	30	1000	0	104	75-125	0			
Bromoform	945.5	13	30	1000	0	94.6	59-120	0			
Bromomethane	996.5	57	100	1000	0	99.6	31-169	0			
Carbon disulfide	1068	16	30	1000	0	107	60-163	0			
Carbon tetrachloride	998	12	30	1000	0	99.8	69-123	0			
Chlorobenzene	1092	10	30	1000	0	109	79-120	0			
Chloroethane	956	84	100	1000	0	95.6	38-132	0			
Chloroform	916	11	30	1000	0	91.6	72-122	0			
Chloromethane	672.5	82	100	1000	0	67.2	24-119	0			
cis-1,2-Dichloroethene	1085	19	30	1000	0	108	74-125	0			
cis-1,3-Dichloropropene	1016	23	30	1000	0	102	62-124	0			
Dibromochloromethane	935.5	17	30	1000	0	93.6	57-123	0			
Dichlorodifluoromethane	878.5	36	100	1000	0	87.8	28-137	0			
Ethylbenzene	1154	21	30	1000	0	115	75-121	0			
Isopropylbenzene	1032	19	30	1000	0	103	74-121	0			
m,p-Xylene	2030	40	60	2000	0	101	67-129	0			
Methyl acetate	1008	36	250	1000	0	101	61-125	0			
Methyl tert-butyl ether	1026	22	30	1000	0	103	79-139	0			
Methylene chloride	1009	80	250	1000	0	101	62-135	0			

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

**Client:** Tetra Tech  
**Work Order:** 23070106  
**Project:** Boys and Girls Club

## QC BATCH REPORT

Batch ID: <b>219372</b>		Instrument ID <b>VMS8</b>			Method: <b>SW8260D</b>			
o-Xylene	1132	12	30	1000	0	113	75-120	0
Styrene	1160	12	30	1000	0	116	74-126	0
Tetrachloroethene	1178	18	30	1000	0	118	76-128	0
Toluene	1079	25	30	1000	0	108	76-120	0
trans-1,2-Dichloroethene	1052	25	30	1000	0	105	72-127	0
trans-1,3-Dichloropropene	1125	17	30	1000	0	112	66-120	0
Trichloroethene	1015	13	30	1000	0	102	75-122	0
Trichlorofluoromethane	712	15	30	1000	0	71.2	51-115	0
Vinyl chloride	901	20	30	1000	0	90.1	43-128	0
Xylenes, Total	3161	40	90	3000	0	105	67-129	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1012</i>	0	0	<i>1000</i>	0	<i>101</i>	<i>80-120</i>	0
<i>Surr: 4-Bromofluorobenzene</i>	<i>979.5</i>	0	0	<i>1000</i>	0	<i>98</i>	<i>80-120</i>	0
<i>Surr: Dibromofluoromethane</i>	<i>1032</i>	0	0	<i>1000</i>	0	<i>103</i>	<i>80-120</i>	0
<i>Surr: Toluene-d8</i>	<i>991</i>	0	0	<i>1000</i>	0	<i>99.1</i>	<i>80-120</i>	0

The following samples were analyzed in this batch:

23070106-01B	23070106-02B	23070106-03B
23070106-04B	23070106-05B	23070106-06B
23070106-07B	23070106-08B	23070106-09B
23070106-10B	23070106-17B	23070106-19B

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **219385** Instrument ID **VMS12** Method: **SW8260D**

MBLK		Sample ID: <b>MBLK-219385-219385</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>7/13/2023 12:32 AM</b>			
Client ID:		Run ID: <b>VMS12_230712B</b>				SeqNo: <b>9760772</b>		Prep Date: <b>7/6/2023</b>		DF: <b>1</b>	
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	0	0	0	0-0	0			
1,1,2,2-Tetrachloroethane	U	13	30	0	0	0	0-0	0			
1,1,2-Trichloroethane	U	13	30	0	0	0	0-0	0			
1,1,2-Trichlorotrifluoroethane	U	19	30	0	0	0		0			
1,1-Dichloroethane	U	11	30	0	0	0	0-0	0			
1,1-Dichloroethene	U	9.7	30	0	0	0	0-0	0			
1,2,3-Trichlorobenzene	U	36	100	0	0	0	0-0	0			
1,2,3-Trichloropropane	U	13	30	0	0	0	0-0	0			
1,2,4-Trichlorobenzene	U	34	100	0	0	0	0-0	0			
1,2,4-Trimethylbenzene	U	22	30	0	0	0	0-0	0			
1,2-Dibromo-3-chloropropane	U	28	100	0	0	0	0-0	0			
1,2-Dibromoethane	U	18	30	0	0	0	0-0	0			
1,2-Dichlorobenzene	U	11	30	0	0	0	0-0	0			
1,2-Dichloroethane	U	26	30	0	0	0	0-0	0			
1,2-Dichloropropane	U	22	30	0	0	0	0-0	0			
1,3,5-Trimethylbenzene	U	21	100	0	0	0	0-0	0			
1,3-Dichlorobenzene	U	21	30	0	0	0	0-0	0			
1,4-Dichlorobenzene	U	24	30	0	0	0	0-0	0			
2-Butanone	U	71	200	0	0	0	0-0	0			
2-Hexanone	U	15	30	0	0	0	0-0	0			
4-Methyl-2-pentanone	U	28	30	0	0	0	0-0	0			
Acetone	U	89	100	0	0	0	0-0	0			
Benzene	U	15	30	0	0	0	0-0	0			
Bromochloromethane	U	15	30	0	0	0	0-0	0			
Bromodichloromethane	U	17	30	0	0	0	0-0	0			
Bromoform	U	13	30	0	0	0	0-0	0			
Bromomethane	U	57	100	0	0	0	0-0	0			
Carbon disulfide	U	16	30	0	0	0	0-0	0			
Carbon tetrachloride	U	12	30	0	0	0	0-0	0			
Chlorobenzene	U	10	30	0	0	0	0-0	0			
Chloroethane	U	84	100	0	0	0	0-0	0			
Chloroform	U	11	30	0	0	0	0-0	0			
Chloromethane	U	82	100	0	0	0	0-0	0			
cis-1,2-Dichloroethene	U	19	30	0	0	0	0-0	0			
cis-1,3-Dichloropropene	U	23	30	0	0	0	0-0	0			
Cyclohexane	U	23	100	0	0	0		0			
Dibromochloromethane	U	17	30	0	0	0	0-0	0			
Dichlorodifluoromethane	U	36	100	0	0	0	0-0	0			
Ethylbenzene	U	21	30	0	0	0	0-0	0			
Isopropylbenzene	U	19	30	0	0	0	0-0	0			
m,p-Xylene	U	40	60	0	0	0	0-0	0			
Methyl acetate	U	36	250	0	0	0		0			
Methyl tert-butyl ether	U	22	30	0	0	0	0-0	0			

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

**Client:** Tetra Tech  
**Work Order:** 23070106  
**Project:** Boys and Girls Club

## QC BATCH REPORT

Batch ID: <b>219385</b>		Instrument ID <b>VMS12</b>		Method: <b>SW8260D</b>					
Methylcyclohexane	U	11	30	0	0	0		0	
Methylene chloride	U	80	250	0	0	0	0-0	0	
o-Xylene	U	12	30	0	0	0	0-0	0	
Styrene	U	12	30	0	0	0	0-0	0	
Tetrachloroethene	U	18	30	0	0	0	0-0	0	
Toluene	U	25	30	0	0	0	0-0	0	
trans-1,2-Dichloroethene	U	25	30	0	0	0	0-0	0	
trans-1,3-Dichloropropene	U	17	30	0	0	0	0-0	0	
Trichloroethene	U	13	30	0	0	0	0-0	0	
Trichlorofluoromethane	U	15	30	0	0	0	0-0	0	
Vinyl chloride	U	20	30	0	0	0	0-0	0	
Xylenes, Total	U	40	90	0	0	0	0-0	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1026</i>	0	0	<i>1000</i>	0	<i>103</i>	<i>80-120</i>	0	
<i>Surr: 4-Bromofluorobenzene</i>	<i>956.5</i>	0	0	<i>1000</i>	0	<i>95.6</i>	<i>80-120</i>	0	
<i>Surr: Dibromofluoromethane</i>	<i>926</i>	0	0	<i>1000</i>	0	<i>92.6</i>	<i>80-120</i>	0	
<i>Surr: Toluene-d8</i>	<i>988.5</i>	0	0	<i>1000</i>	0	<i>98.8</i>	<i>80-120</i>	0	

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



Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: 219385 Instrument ID VMS12 Method: SW8260D

MBLK		Sample ID: MBLK-219385-219385				Units: µg/Kg-dry		Analysis Date: 7/13/2023 12:32 AM			
Client ID:		Run ID: VMS12_230712B				SeqNo: 9760833		Prep Date: 7/6/2023		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	0	0	0	0-0	0			
1,1,2,2-Tetrachloroethane	U	13	30	0	0	0	0-0	0			
1,1,2-Trichloroethane	U	13	30	0	0	0	0-0	0			
1,1,2-Trichlorotrifluoroethane	U	19	30	0	0	0		0			
1,1-Dichloroethane	U	11	30	0	0	0	0-0	0			
1,1-Dichloroethene	U	9.7	30	0	0	0	0-0	0			
1,2,3-Trichlorobenzene	U	36	100	0	0	0	0-0	0			
1,2,3-Trichloropropane	U	13	30	0	0	0	0-0	0			
1,2,4-Trichlorobenzene	U	34	100	0	0	0	0-0	0			
1,2,4-Trimethylbenzene	U	22	30	0	0	0	0-0	0			
1,2-Dibromo-3-chloropropane	U	28	100	0	0	0	0-0	0			
1,2-Dibromoethane	U	18	30	0	0	0	0-0	0			
1,2-Dichlorobenzene	U	11	30	0	0	0	0-0	0			
1,2-Dichloroethane	U	26	30	0	0	0	0-0	0			
1,2-Dichloropropane	U	22	30	0	0	0	0-0	0			
1,3,5-Trimethylbenzene	U	21	100	0	0	0	0-0	0			
1,3-Dichlorobenzene	U	21	30	0	0	0	0-0	0			
1,4-Dichlorobenzene	U	24	30	0	0	0	0-0	0			
2-Butanone	U	71	200	0	0	0	0-0	0			
2-Hexanone	U	15	30	0	0	0	0-0	0			
4-Methyl-2-pentanone	U	28	30	0	0	0	0-0	0			
Acetone	U	89	100	0	0	0	0-0	0			
Benzene	U	15	30	0	0	0	0-0	0			
Bromochloromethane	U	15	30	0	0	0	0-0	0			
Bromodichloromethane	U	17	30	0	0	0	0-0	0			
Bromoform	U	13	30	0	0	0	0-0	0			
Bromomethane	U	57	100	0	0	0	0-0	0			
Carbon disulfide	U	16	30	0	0	0	0-0	0			
Carbon tetrachloride	U	12	30	0	0	0	0-0	0			
Chlorobenzene	U	10	30	0	0	0	0-0	0			
Chloroethane	U	84	100	0	0	0	0-0	0			
Chloroform	U	11	30	0	0	0	0-0	0			
Chloromethane	U	82	100	0	0	0	0-0	0			
cis-1,2-Dichloroethene	U	19	30	0	0	0	0-0	0			
cis-1,3-Dichloropropene	U	23	30	0	0	0	0-0	0			
Cyclohexane	U	23	100	0	0	0		0			
Dibromochloromethane	U	17	30	0	0	0	0-0	0			
Dichlorodifluoromethane	U	36	100	0	0	0	0-0	0			
Ethylbenzene	U	21	30	0	0	0	0-0	0			
Isopropylbenzene	U	19	30	0	0	0	0-0	0			
m,p-Xylene	U	40	60	0	0	0	0-0	0			
Methyl acetate	U	36	250	0	0	0		0			
Methyl tert-butyl ether	U	22	30	0	0	0	0-0	0			

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

**Client:** Tetra Tech  
**Work Order:** 23070106  
**Project:** Boys and Girls Club

## QC BATCH REPORT

Batch ID: <b>219385</b>		Instrument ID <b>VMS12</b>		Method: <b>SW8260D</b>				
Methylcyclohexane	U	11	30	0	0	0	0	0
Methylene chloride	U	80	250	0	0	0	0-0	0
o-Xylene	U	12	30	0	0	0	0-0	0
Styrene	U	12	30	0	0	0	0-0	0
Tetrachloroethene	U	18	30	0	0	0	0-0	0
Toluene	U	25	30	0	0	0	0-0	0
trans-1,2-Dichloroethene	U	25	30	0	0	0	0-0	0
trans-1,3-Dichloropropene	U	17	30	0	0	0	0-0	0
Trichloroethene	U	13	30	0	0	0	0-0	0
Trichlorofluoromethane	U	15	30	0	0	0	0-0	0
Vinyl chloride	U	20	30	0	0	0	0-0	0
Xylenes, Total	U	40	90	0	0	0	0-0	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1026</i>	0	0	<i>1000</i>	0	<i>103</i>	<i>80-120</i>	0
<i>Surr: 4-Bromofluorobenzene</i>	<i>956.5</i>	0	0	<i>1000</i>	0	<i>95.6</i>	<i>80-120</i>	0
<i>Surr: Dibromofluoromethane</i>	<i>926</i>	0	0	<i>1000</i>	0	<i>92.6</i>	<i>80-120</i>	0
<i>Surr: Toluene-d8</i>	<i>988.5</i>	0	0	<i>1000</i>	0	<i>98.8</i>	<i>80-120</i>	0

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **219385** Instrument ID **VMS12** Method: **SW8260D**

LCS					Sample ID: LCS-219385-219385			Units: µg/Kg-dry			Analysis Date: 7/12/2023 11:21 PM		
Client ID:			Run ID: VMS12_230712B			SeqNo: 9760770		Prep Date: 7/6/2023		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	989	14	30	1000	0	98.9	75-121	0					
1,1,2,2-Tetrachloroethane	1051	13	30	1000	0	105	79-125	0					
1,1,2-Trichloroethane	1048	13	30	1000	0	105	80-123	0					
1,1,2-Trichlorotrifluoroethane	1008	19	30	1000	0	101	62-129	0					
1,1-Dichloroethane	1014	11	30	1000	0	101	74-124	0					
1,1-Dichloroethene	1063	9.7	30	1000	0	106	68-131	0					
1,2,3-Trichlorobenzene	1082	36	100	1000	0	108	60-135	0					
1,2,3-Trichloropropane	1048	13	30	1000	0	105	77-121	0					
1,2,4-Trichlorobenzene	1176	34	100	1000	0	118	63-130	0					
1,2,4-Trimethylbenzene	1039	22	30	1000	0	104	64-126	0					
1,2-Dibromo-3-chloropropane	994.5	28	100	1000	0	99.4	55-135	0					
1,2-Dibromoethane	1014	18	30	1000	0	101	63-155	0					
1,2-Dichlorobenzene	995.5	11	30	1000	0	99.6	77-122	0					
1,2-Dichloroethane	1081	26	30	1000	0	108	70-130	0					
1,2-Dichloropropane	1038	22	30	1000	0	104	71-130	0					
1,3,5-Trimethylbenzene	1050	21	100	1000	0	105	66-130	0					
1,3-Dichlorobenzene	1004	21	30	1000	0	100	78-121	0					
1,4-Dichlorobenzene	1012	24	30	1000	0	101	78-122	0					
2-Butanone	1198	71	200	1000	0	120	47-164	0					
2-Hexanone	1126	15	30	1000	0	113	70-137	0					
4-Methyl-2-pentanone	1333	28	30	1000	0	133	57-200	0					
Acetone	1152	89	100	1000	0	115	52-190	0					
Benzene	1076	15	30	1000	0	108	78-122	0					
Bromochloromethane	1105	15	30	1000	0	110	68-130	0					
Bromodichloromethane	989	17	30	1000	0	98.9	75-125	0					
Bromoform	963.5	13	30	1000	0	96.4	59-120	0					
Bromomethane	821.5	57	100	1000	0	82.2	31-169	0					
Carbon disulfide	998.5	16	30	1000	0	99.8	60-163	0					
Carbon tetrachloride	971	12	30	1000	0	97.1	69-123	0					
Chlorobenzene	1059	10	30	1000	0	106	79-120	0					
Chloroethane	921	84	100	1000	0	92.1	38-132	0					
Chloroform	1062	11	30	1000	0	106	72-122	0					
Chloromethane	650	82	100	1000	0	65	24-119	0					
cis-1,2-Dichloroethene	1074	19	30	1000	0	107	74-125	0					
cis-1,3-Dichloropropene	1014	23	30	1000	0	101	62-124	0					
Dibromochloromethane	960	17	30	1000	0	96	57-123	0					
Dichlorodifluoromethane	751.5	36	100	1000	0	75.2	28-137	0					
Ethylbenzene	1066	21	30	1000	0	107	75-121	0					
Isopropylbenzene	1056	19	30	1000	0	106	74-121	0					
m,p-Xylene	2039	40	60	2000	0	102	67-129	0					
Methyl acetate	1020	36	250	1000	0	102	61-125	0					
Methyl tert-butyl ether	1015	22	30	1000	0	102	79-139	0					
Methylene chloride	1030	80	250	1000	0	103	62-135	0					

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

**Client:** Tetra Tech  
**Work Order:** 23070106  
**Project:** Boys and Girls Club

## QC BATCH REPORT

Batch ID: <b>219385</b>		Instrument ID <b>VMS12</b>		Method: <b>SW8260D</b>					
o-Xylene	1033	12	30	1000	0	103	75-120	0	
Styrene	1030	12	30	1000	0	103	74-126	0	
Tetrachloroethene	1091	18	30	1000	0	109	76-128	0	
Toluene	1085	25	30	1000	0	108	76-120	0	
trans-1,2-Dichloroethene	1040	25	30	1000	0	104	72-127	0	
trans-1,3-Dichloropropene	950.5	17	30	1000	0	95	66-120	0	
Trichloroethene	1026	13	30	1000	0	103	75-122	0	
Trichlorofluoromethane	864.5	15	30	1000	0	86.4	51-115	0	
Vinyl chloride	785.5	20	30	1000	0	78.6	43-128	0	
Xylenes, Total	3072	40	90	3000	0	102	67-129	0	
Surr: 1,2-Dichloroethane-d4	1023	0	0	1000	0	102	80-120	0	
Surr: 4-Bromofluorobenzene	1008	0	0	1000	0	101	80-120	0	
Surr: Dibromofluoromethane	1058	0	0	1000	0	106	80-120	0	
Surr: Toluene-d8	1012	0	0	1000	0	101	80-120	0	

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **219385** Instrument ID **VMS12** Method: **SW8260D**

LCS		Sample ID: <b>LCS-219385-219385</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>7/12/2023 11:21 PM</b>			
Client ID:		Run ID: <b>VMS12_230712B</b>				SeqNo: <b>9760831</b>		Prep Date: <b>7/6/2023</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	989	14	30	1000	0	98.9	75-121	0			
1,1,2,2-Tetrachloroethane	1051	13	30	1000	0	105	79-125	0			
1,1,2-Trichloroethane	1048	13	30	1000	0	105	80-123	0			
1,1,2-Trichlorotrifluoroethane	1008	19	30	1000	0	101	62-129	0			
1,1-Dichloroethane	1014	11	30	1000	0	101	74-124	0			
1,1-Dichloroethene	1063	9.7	30	1000	0	106	68-131	0			
1,2,3-Trichlorobenzene	1082	36	100	1000	0	108	60-135	0			
1,2,3-Trichloropropane	1048	13	30	1000	0	105	77-121	0			
1,2,4-Trichlorobenzene	1176	34	100	1000	0	118	63-130	0			
1,2,4-Trimethylbenzene	1039	22	30	1000	0	104	64-126	0			
1,2-Dibromo-3-chloropropane	994.5	28	100	1000	0	99.4	55-135	0			
1,2-Dibromoethane	1014	18	30	1000	0	101	63-155	0			
1,2-Dichlorobenzene	995.5	11	30	1000	0	99.6	77-122	0			
1,2-Dichloroethane	1081	26	30	1000	0	108	70-130	0			
1,2-Dichloropropane	1038	22	30	1000	0	104	71-130	0			
1,3,5-Trimethylbenzene	1050	21	100	1000	0	105	66-130	0			
1,3-Dichlorobenzene	1004	21	30	1000	0	100	78-121	0			
1,4-Dichlorobenzene	1012	24	30	1000	0	101	78-122	0			
2-Butanone	1198	71	200	1000	0	120	47-164	0			
2-Hexanone	1126	15	30	1000	0	113	70-137	0			
4-Methyl-2-pentanone	1333	28	30	1000	0	133	57-200	0			
Acetone	1152	89	100	1000	0	115	52-190	0			
Benzene	1076	15	30	1000	0	108	78-122	0			
Bromochloromethane	1105	15	30	1000	0	110	68-130	0			
Bromodichloromethane	989	17	30	1000	0	98.9	75-125	0			
Bromoform	963.5	13	30	1000	0	96.4	59-120	0			
Bromomethane	821.5	57	100	1000	0	82.2	31-169	0			
Carbon disulfide	998.5	16	30	1000	0	99.8	60-163	0			
Carbon tetrachloride	971	12	30	1000	0	97.1	69-123	0			
Chlorobenzene	1059	10	30	1000	0	106	79-120	0			
Chloroethane	921	84	100	1000	0	92.1	38-132	0			
Chloroform	1062	11	30	1000	0	106	72-122	0			
Chloromethane	650	82	100	1000	0	65	24-119	0			
cis-1,2-Dichloroethene	1074	19	30	1000	0	107	74-125	0			
cis-1,3-Dichloropropene	1014	23	30	1000	0	101	62-124	0			
Dibromochloromethane	960	17	30	1000	0	96	57-123	0			
Dichlorodifluoromethane	751.5	36	100	1000	0	75.2	28-137	0			
Ethylbenzene	1066	21	30	1000	0	107	75-121	0			
Isopropylbenzene	1056	19	30	1000	0	106	74-121	0			
m,p-Xylene	2039	40	60	2000	0	102	67-129	0			
Methyl acetate	1020	36	250	1000	0	102	61-125	0			
Methyl tert-butyl ether	1015	22	30	1000	0	102	79-139	0			
Methylene chloride	1030	80	250	1000	0	103	62-135	0			

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

**Client:** Tetra Tech  
**Work Order:** 23070106  
**Project:** Boys and Girls Club

## QC BATCH REPORT

Batch ID: <b>219385</b>		Instrument ID <b>VMS12</b>		Method: <b>SW8260D</b>				
o-Xylene	1033	12	30	1000	0	103	75-120	0
Styrene	1030	12	30	1000	0	103	74-126	0
Tetrachloroethene	1091	18	30	1000	0	109	76-128	0
Toluene	1085	25	30	1000	0	108	76-120	0
trans-1,2-Dichloroethene	1040	25	30	1000	0	104	72-127	0
trans-1,3-Dichloropropene	950.5	17	30	1000	0	95	66-120	0
Trichloroethene	1026	13	30	1000	0	103	75-122	0
Trichlorofluoromethane	864.5	15	30	1000	0	86.4	51-115	0
Vinyl chloride	785.5	20	30	1000	0	78.6	43-128	0
Xylenes, Total	3072	40	90	3000	0	102	67-129	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1023</i>	<i>0</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>80-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1008</i>	<i>0</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>80-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>1058</i>	<i>0</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>106</i>	<i>80-120</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>1012</i>	<i>0</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</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: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: 219385 Instrument ID VMS12 Method: SW8260D

MS Sample ID: 23070096-04B MS					Units: µg/Kg-dry		Analysis Date: 7/13/2023 12:03 AM				
Client ID:		Run ID: VMS11_230712A			SeqNo: 9760145		Prep Date: 7/6/2023		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	1534	21	46	1531	0	100	75-121	0			
1,1,2,2-Tetrachloroethane	1456	20	46	1531	0	95.1	79-125	0			
1,1,2-Trichloroethane	1454	20	46	1531	0	95	80-123	0			
1,1,2-Trichlorotrifluoroethane	1616	29	46	1531	0	106	62-129	0			
1,1-Dichloroethane	1429	17	46	1531	0	93.4	74-124	0			
1,1-Dichloroethene	1564	15	46	1531	0	102	68-131	0			
1,2,3-Trichlorobenzene	1861	55	150	1531	0	122	60-135	0			
1,2,3-Trichloropropane	1401	19	46	1531	0	91.5	77-121	0			
1,2,4-Trichlorobenzene	1503	52	150	1531	0	98.2	63-130	0			
1,2,4-Trimethylbenzene	1555	34	46	1531	177.6	90	64-126	0			
1,2-Dibromo-3-chloropropane	1201	42	150	1531	0	78.4	55-135	0			
1,2-Dibromoethane	1414	27	46	1531	0	92.4	63-155	0			
1,2-Dichlorobenzene	1440	17	46	1531	0	94.1	77-122	0			
1,2-Dichloroethane	1468	40	46	1531	0	95.9	70-130	0			
1,2-Dichloropropane	1510	34	46	1531	0	98.7	71-130	0			
1,3,5-Trimethylbenzene	1498	32	150	1531	42.32	95.1	66-130	0			
1,3-Dichlorobenzene	1435	32	46	1531	0	93.8	78-121	0			
1,4-Dichlorobenzene	1448	37	46	1531	0	94.6	78-122	0			
2-Butanone	1622	110	310	1531	31.74	104	47-164	0			
2-Hexanone	1675	23	46	1531	0	109	70-137	0			
4-Methyl-2-pentanone	2058	43	46	1531	0	134	57-200	0			
Acetone	1429	140	150	1531	79.35	88.2	52-190	0			
Benzene	1591	22	46	1531	58.95	100	78-122	0			
Bromochloromethane	1476	23	46	1531	0	96.5	68-130	0			
Bromodichloromethane	1408	26	46	1531	0	92	75-125	0			
Bromoform	1128	19	46	1531	0	73.7	59-120	0			
Bromomethane	1675	88	150	1531	0	109	31-169	0			
Carbon disulfide	1489	24	46	1531	0	97.3	60-163	0			
Carbon tetrachloride	1551	18	46	1531	0	101	69-123	0			
Chlorobenzene	1467	15	46	1531	0	95.9	79-120	0			
Chloroethane	1577	130	150	1531	0	103	38-132	0			
Chloroform	1437	17	46	1531	0	93.9	72-122	0			
Chloromethane	1150	130	150	1531	0	75.2	24-119	0			
cis-1,2-Dichloroethene	1430	30	46	1531	0	93.5	74-125	0			
cis-1,3-Dichloropropene	1229	35	46	1531	0	80.3	62-124	0			
Dibromochloromethane	1257	26	46	1531	0	82.1	57-123	0			
Dichlorodifluoromethane	1612	56	150	1531	0	105	28-137	0			
Ethylbenzene	1493	33	46	1531	69.53	93	75-121	0			
Isopropylbenzene	1524	29	46	1531	29.47	97.6	74-121	0			
m,p-Xylene	3023	61	92	3062	63.48	96.7	67-129	0			
Methyl acetate	1382	55	380	1531	0	90.3	61-125	0			
Methyl tert-butyl ether	1401	33	46	1531	0	91.5	79-139	0			
Methylene chloride	1966	120	380	1531	717.2	81.6	62-135	0			

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

**Client:** Tetra Tech  
**Work Order:** 23070106  
**Project:** Boys and Girls Club

## QC BATCH REPORT

Batch ID: <b>219385</b>		Instrument ID <b>VMS12</b>		Method: <b>SW8260D</b>				
o-Xylene	1490	18	46	1531	29.47	95.4	75-120	0
Styrene	1472	18	46	1531	0	96.2	74-126	0
Tetrachloroethene	1636	28	46	1531	0	107	76-128	0
Toluene	1526	38	46	1531	87.66	94	76-120	0
trans-1,2-Dichloroethene	1476	38	46	1531	0	96.5	72-127	0
trans-1,3-Dichloropropene	1262	26	46	1531	0	82.4	66-120	0
Trichloroethene	1518	21	46	1531	0	99.2	75-122	0
Trichlorofluoromethane	1525	23	46	1531	0	99.7	51-115	0
Vinyl chloride	1389	31	46	1531	0	90.8	43-128	0
Xylenes, Total	4513	61	140	4592	92	96.3	67-129	0
Surr: 1,2-Dichloroethane-d4	1517	0	0	1531	0	99.1	80-120	0
Surr: 4-Bromofluorobenzene	1577	0	0	1531	0	103	80-120	0
Surr: Dibromofluoromethane	1523	0	0	1531	0	99.5	80-120	0
Surr: Toluene-d8	1534	0	0	1531	0	100	80-120	0

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



Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: 219385 Instrument ID VMS12 Method: SW8260D

MS Sample ID: 23070096-04B MS					Units: µg/Kg-dry		Analysis Date: 7/13/2023 12:03 AM				
Client ID:		Run ID: VMS11_230712A			SeqNo: 9760283		Prep Date: 7/6/2023		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	1534	21	46	1531	0	100	75-121	0			
1,1,2,2-Tetrachloroethane	1456	20	46	1531	0	95.1	79-125	0			
1,1,2-Trichloroethane	1454	20	46	1531	0	95	80-123	0			
1,1,2-Trichlorotrifluoroethane	1616	29	46	1531	0	106	62-129	0			
1,1-Dichloroethane	1429	17	46	1531	0	93.4	74-124	0			
1,1-Dichloroethene	1564	15	46	1531	0	102	68-131	0			
1,2,3-Trichlorobenzene	1861	55	150	1531	0	122	60-135	0			
1,2,3-Trichloropropane	1401	19	46	1531	0	91.5	77-121	0			
1,2,4-Trichlorobenzene	1503	52	150	1531	0	98.2	63-130	0			
1,2,4-Trimethylbenzene	1555	34	46	1531	177.6	90	64-126	0			
1,2-Dibromo-3-chloropropane	1201	42	150	1531	0	78.4	55-135	0			
1,2-Dibromoethane	1414	27	46	1531	0	92.4	63-155	0			
1,2-Dichlorobenzene	1440	17	46	1531	0	94.1	77-122	0			
1,2-Dichloroethane	1468	40	46	1531	0	95.9	70-130	0			
1,2-Dichloropropane	1510	34	46	1531	0	98.7	71-130	0			
1,3,5-Trimethylbenzene	1498	32	150	1531	42.32	95.1	66-130	0			
1,3-Dichlorobenzene	1435	32	46	1531	0	93.8	78-121	0			
1,4-Dichlorobenzene	1448	37	46	1531	0	94.6	78-122	0			
2-Butanone	1622	110	310	1531	31.74	104	47-164	0			
2-Hexanone	1675	23	46	1531	0	109	70-137	0			
4-Methyl-2-pentanone	2058	43	46	1531	0	134	57-200	0			
Acetone	1429	140	150	1531	79.35	88.2	52-190	0			
Benzene	1591	22	46	1531	58.95	100	78-122	0			
Bromochloromethane	1476	23	46	1531	0	96.5	68-130	0			
Bromodichloromethane	1408	26	46	1531	0	92	75-125	0			
Bromoform	1128	19	46	1531	0	73.7	59-120	0			
Bromomethane	1675	88	150	1531	0	109	31-169	0			
Carbon disulfide	1489	24	46	1531	0	97.3	60-163	0			
Carbon tetrachloride	1551	18	46	1531	0	101	69-123	0			
Chlorobenzene	1467	15	46	1531	0	95.9	79-120	0			
Chloroethane	1577	130	150	1531	0	103	38-132	0			
Chloroform	1437	17	46	1531	0	93.9	72-122	0			
Chloromethane	1150	130	150	1531	0	75.2	24-119	0			
cis-1,2-Dichloroethene	1430	30	46	1531	0	93.5	74-125	0			
cis-1,3-Dichloropropene	1229	35	46	1531	0	80.3	62-124	0			
Dibromochloromethane	1257	26	46	1531	0	82.1	57-123	0			
Dichlorodifluoromethane	1612	56	150	1531	0	105	28-137	0			
Ethylbenzene	1493	33	46	1531	69.53	93	75-121	0			
Isopropylbenzene	1524	29	46	1531	29.47	97.6	74-121	0			
m,p-Xylene	3023	61	92	3062	63.48	96.7	67-129	0			
Methyl acetate	1382	55	380	1531	0	90.3	61-125	0			
Methyl tert-butyl ether	1401	33	46	1531	0	91.5	79-139	0			
Methylene chloride	1966	120	380	1531	717.2	81.6	62-135	0			

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

**Client:** Tetra Tech  
**Work Order:** 23070106  
**Project:** Boys and Girls Club

## QC BATCH REPORT

Batch ID: <b>219385</b>		Instrument ID <b>VMS12</b>			Method: <b>SW8260D</b>			
o-Xylene	1490	18	46	1531	29.47	95.4	75-120	0
Styrene	1472	18	46	1531	0	96.2	74-126	0
Tetrachloroethene	1636	28	46	1531	0	107	76-128	0
Toluene	1526	38	46	1531	87.66	94	76-120	0
trans-1,2-Dichloroethene	1476	38	46	1531	0	96.5	72-127	0
trans-1,3-Dichloropropene	1262	26	46	1531	0	82.4	66-120	0
Trichloroethene	1518	21	46	1531	0	99.2	75-122	0
Trichlorofluoromethane	1525	23	46	1531	0	99.7	51-115	0
Vinyl chloride	1389	31	46	1531	0	90.8	43-128	0
Xylenes, Total	4513	61	140	4592	92	96.3	67-129	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1517</i>	<i>0</i>	<i>0</i>	<i>1531</i>	<i>0</i>	<i>99.1</i>	<i>80-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1577</i>	<i>0</i>	<i>0</i>	<i>1531</i>	<i>0</i>	<i>103</i>	<i>80-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>1523</i>	<i>0</i>	<i>0</i>	<i>1531</i>	<i>0</i>	<i>99.5</i>	<i>80-120</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>1534</i>	<i>0</i>	<i>0</i>	<i>1531</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: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: 219385 Instrument ID VMS12 Method: SW8260D

MSD Sample ID: 23070096-04B MSD					Units: µg/Kg-dry			Analysis Date: 7/13/2023 12:25 AM			
Client ID:		Run ID: VMS11_230712A			SeqNo: 9760146		Prep Date: 7/6/2023		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	1486	21	46	1531	0	97.1	75-121	1534	3.14	30	
1,1,2,2-Tetrachloroethane	1445	20	46	1531	0	94.4	79-125	1456	0.739	30	
1,1,2-Trichloroethane	1440	20	46	1531	0	94.1	80-123	1454	0.952	30	
1,1,2-Trichlorotrifluoroethane	1649	29	46	1531	0	108	62-129	1616	2.02	30	
1,1-Dichloroethane	1540	17	46	1531	0	101	74-124	1429	7.48	30	
1,1-Dichloroethene	1646	15	46	1531	0	108	68-131	1564	5.1	30	
1,2,3-Trichlorobenzene	1959	55	150	1531	0	128	60-135	1861	5.13	30	
1,2,3-Trichloropropane	1454	19	46	1531	0	95	77-121	1401	3.75	30	
1,2,4-Trichlorobenzene	1612	52	150	1531	0	105	63-130	1503	6.98	30	
1,2,4-Trimethylbenzene	1589	34	46	1531	177.6	92.2	64-126	1555	2.14	30	
1,2-Dibromo-3-chloropropane	1219	42	150	1531	0	79.6	55-135	1201	1.52	30	
1,2-Dibromoethane	1426	27	46	1531	0	93.2	63-155	1414	0.863	30	
1,2-Dichlorobenzene	1455	17	46	1531	0	95.1	77-122	1440	1	30	
1,2-Dichloroethane	1470	40	46	1531	0	96	70-130	1468	0.104	30	
1,2-Dichloropropane	1437	34	46	1531	0	93.9	71-130	1510	4.99	30	
1,3,5-Trimethylbenzene	1490	32	150	1531	42.32	94.6	66-130	1498	0.512	30	
1,3-Dichlorobenzene	1428	32	46	1531	0	93.3	78-121	1435	0.481	30	
1,4-Dichlorobenzene	1471	37	46	1531	0	96.1	78-122	1448	1.57	30	
2-Butanone	1672	110	310	1531	31.74	107	47-164	1622	3.07	30	
2-Hexanone	1637	23	46	1531	0	107	70-137	1675	2.31	30	
4-Methyl-2-pentanone	2062	43	46	1531	0	135	57-200	2058	0.186	30	
Acetone	1475	140	150	1531	79.35	91.2	52-190	1429	3.16	30	
Benzene	1562	22	46	1531	58.95	98.2	78-122	1591	1.85	30	
Bromochloromethane	1489	23	46	1531	0	97.3	68-130	1476	0.826	30	
Bromodichloromethane	1378	26	46	1531	0	90	75-125	1408	2.2	30	
Bromoform	1103	19	46	1531	0	72.1	59-120	1128	2.26	30	
Bromomethane	1157	88	150	1531	0	75.6	31-169	1675	36.5	30	R
Carbon disulfide	1513	24	46	1531	0	98.9	60-163	1489	1.63	30	
Carbon tetrachloride	1535	18	46	1531	0	100	69-123	1551	1.04	30	
Chlorobenzene	1471	15	46	1531	0	96.1	79-120	1467	0.26	30	
Chloroethane	1727	130	150	1531	0	113	38-132	1577	9.08	30	
Chloroform	1518	17	46	1531	0	99.2	72-122	1437	5.44	30	
Chloromethane	1232	130	150	1531	0	80.5	24-119	1150	6.87	30	
cis-1,2-Dichloroethene	1462	30	46	1531	0	95.5	74-125	1430	2.17	30	
cis-1,3-Dichloropropene	1189	35	46	1531	0	77.7	62-124	1229	3.36	30	
Dibromochloromethane	1253	26	46	1531	0	81.9	57-123	1257	0.305	30	
Dichlorodifluoromethane	1688	56	150	1531	0	110	28-137	1612	4.59	30	
Ethylbenzene	1510	33	46	1531	69.53	94.1	75-121	1493	1.12	30	
Isopropylbenzene	1538	29	46	1531	29.47	98.5	74-121	1524	0.9	30	
m,p-Xylene	3041	61	92	3062	63.48	97.3	67-129	3023	0.58	30	
Methyl acetate	1404	55	380	1531	0	91.7	61-125	1382	1.54	30	
Methyl tert-butyl ether	1456	33	46	1531	0	95.1	79-139	1401	3.86	30	
Methylene chloride	2033	120	380	1531	717.2	85.9	62-135	1966	3.33	30	

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

**Client:** Tetra Tech  
**Work Order:** 23070106  
**Project:** Boys and Girls Club

## QC BATCH REPORT

Batch ID: <b>219385</b>		Instrument ID <b>VMS12</b>		Method: <b>SW8260D</b>						
o-Xylene	1506	18	46	1531	29.47	96.4	75-120	1490	1.02	30
Styrene	1465	18	46	1531	0	95.7	74-126	1472	0.469	30
Tetrachloroethene	1666	28	46	1531	0	109	76-128	1636	1.81	30
Toluene	1522	38	46	1531	87.66	93.7	76-120	1526	0.251	30
trans-1,2-Dichloroethene	1558	38	46	1531	0	102	72-127	1476	5.35	30
trans-1,3-Dichloropropene	1241	26	46	1531	0	81	66-120	1262	1.71	30
Trichloroethene	1486	21	46	1531	0	97.1	75-122	1518	2.09	30
Trichlorofluoromethane	1651	23	46	1531	0	108	51-115	1525	7.9	30
Vinyl chloride	1401	31	46	1531	0	91.5	43-128	1389	0.823	30
Xylenes, Total	4546	61	140	4592	92	97	67-129	4513	0.727	30
Surr: 1,2-Dichloroethane-d4	1473	0	0	1531	0	96.3	80-120	1517	2.92	30
Surr: 4-Bromofluorobenzene	1552	0	0	1531	0	101	80-120	1577	1.57	30
Surr: Dibromofluoromethane	1524	0	0	1531	0	99.6	80-120	1523	0.0505	30
Surr: Toluene-d8	1521	0	0	1531	0	99.3	80-120	1534	0.852	30

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: 219385 Instrument ID VMS12 Method: SW8260D

MSD Sample ID: 23070096-04B MSD					Units: µg/Kg-dry			Analysis Date: 7/13/2023 12:25 AM			
Client ID:		Run ID: VMS11_230712A			SeqNo: 9760284		Prep Date: 7/6/2023		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	1486	21	46	1531	0	97.1	75-121	1534	3.14	30	
1,1,2,2-Tetrachloroethane	1445	20	46	1531	0	94.4	79-125	1456	0.739	30	
1,1,2-Trichloroethane	1440	20	46	1531	0	94.1	80-123	1454	0.952	30	
1,1,2-Trichlorotrifluoroethane	1649	29	46	1531	0	108	62-129	1616	2.02	30	
1,1-Dichloroethane	1540	17	46	1531	0	101	74-124	1429	7.48	30	
1,1-Dichloroethene	1646	15	46	1531	0	108	68-131	1564	5.1	30	
1,2,3-Trichlorobenzene	1959	55	150	1531	0	128	60-135	1861	5.13	30	
1,2,3-Trichloropropane	1454	19	46	1531	0	95	77-121	1401	3.75	30	
1,2,4-Trichlorobenzene	1612	52	150	1531	0	105	63-130	1503	6.98	30	
1,2,4-Trimethylbenzene	1589	34	46	1531	177.6	92.2	64-126	1555	2.14	30	
1,2-Dibromo-3-chloropropane	1219	42	150	1531	0	79.6	55-135	1201	1.52	30	
1,2-Dibromoethane	1426	27	46	1531	0	93.2	63-155	1414	0.863	30	
1,2-Dichlorobenzene	1455	17	46	1531	0	95.1	77-122	1440	1	30	
1,2-Dichloroethane	1470	40	46	1531	0	96	70-130	1468	0.104	30	
1,2-Dichloropropane	1437	34	46	1531	0	93.9	71-130	1510	4.99	30	
1,3,5-Trimethylbenzene	1490	32	150	1531	42.32	94.6	66-130	1498	0.512	30	
1,3-Dichlorobenzene	1428	32	46	1531	0	93.3	78-121	1435	0.481	30	
1,4-Dichlorobenzene	1471	37	46	1531	0	96.1	78-122	1448	1.57	30	
2-Butanone	1672	110	310	1531	31.74	107	47-164	1622	3.07	30	
2-Hexanone	1637	23	46	1531	0	107	70-137	1675	2.31	30	
4-Methyl-2-pentanone	2062	43	46	1531	0	135	57-200	2058	0.186	30	
Acetone	1475	140	150	1531	79.35	91.2	52-190	1429	3.16	30	
Benzene	1562	22	46	1531	58.95	98.2	78-122	1591	1.85	30	
Bromochloromethane	1489	23	46	1531	0	97.3	68-130	1476	0.826	30	
Bromodichloromethane	1378	26	46	1531	0	90	75-125	1408	2.2	30	
Bromoform	1103	19	46	1531	0	72.1	59-120	1128	2.26	30	
Bromomethane	1157	88	150	1531	0	75.6	31-169	1675	36.5	30	R
Carbon disulfide	1513	24	46	1531	0	98.9	60-163	1489	1.63	30	
Carbon tetrachloride	1535	18	46	1531	0	100	69-123	1551	1.04	30	
Chlorobenzene	1471	15	46	1531	0	96.1	79-120	1467	0.26	30	
Chloroethane	1727	130	150	1531	0	113	38-132	1577	9.08	30	
Chloroform	1518	17	46	1531	0	99.2	72-122	1437	5.44	30	
Chloromethane	1232	130	150	1531	0	80.5	24-119	1150	6.87	30	
cis-1,2-Dichloroethene	1462	30	46	1531	0	95.5	74-125	1430	2.17	30	
cis-1,3-Dichloropropene	1189	35	46	1531	0	77.7	62-124	1229	3.36	30	
Dibromochloromethane	1253	26	46	1531	0	81.9	57-123	1257	0.305	30	
Dichlorodifluoromethane	1688	56	150	1531	0	110	28-137	1612	4.59	30	
Ethylbenzene	1510	33	46	1531	69.53	94.1	75-121	1493	1.12	30	
Isopropylbenzene	1538	29	46	1531	29.47	98.5	74-121	1524	0.9	30	
m,p-Xylene	3041	61	92	3062	63.48	97.3	67-129	3023	0.58	30	
Methyl acetate	1404	55	380	1531	0	91.7	61-125	1382	1.54	30	
Methyl tert-butyl ether	1456	33	46	1531	0	95.1	79-139	1401	3.86	30	
Methylene chloride	2033	120	380	1531	717.2	85.9	62-135	1966	3.33	30	

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

**Client:** Tetra Tech  
**Work Order:** 23070106  
**Project:** Boys and Girls Club

## QC BATCH REPORT

Batch ID: <b>219385</b>		Instrument ID <b>VMS12</b>			Method: <b>SW8260D</b>					
o-Xylene	1506	18	46	1531	29.47	96.4	75-120	1490	1.02	30
Styrene	1465	18	46	1531	0	95.7	74-126	1472	0.469	30
Tetrachloroethene	1666	28	46	1531	0	109	76-128	1636	1.81	30
Toluene	1522	38	46	1531	87.66	93.7	76-120	1526	0.251	30
trans-1,2-Dichloroethene	1558	38	46	1531	0	102	72-127	1476	5.35	30
trans-1,3-Dichloropropene	1241	26	46	1531	0	81	66-120	1262	1.71	30
Trichloroethene	1486	21	46	1531	0	97.1	75-122	1518	2.09	30
Trichlorofluoromethane	1651	23	46	1531	0	108	51-115	1525	7.9	30
Vinyl chloride	1401	31	46	1531	0	91.5	43-128	1389	0.823	30
Xylenes, Total	4546	61	140	4592	92	97	67-129	4513	0.727	30
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1473</i>	<i>0</i>	<i>0</i>	<i>1531</i>	<i>0</i>	<i>96.3</i>	<i>80-120</i>	<i>1517</i>	<i>2.92</i>	<i>30</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1552</i>	<i>0</i>	<i>0</i>	<i>1531</i>	<i>0</i>	<i>101</i>	<i>80-120</i>	<i>1577</i>	<i>1.57</i>	<i>30</i>
<i>Surr: Dibromofluoromethane</i>	<i>1524</i>	<i>0</i>	<i>0</i>	<i>1531</i>	<i>0</i>	<i>99.6</i>	<i>80-120</i>	<i>1523</i>	<i>0.0505</i>	<i>30</i>
<i>Surr: Toluene-d8</i>	<i>1521</i>	<i>0</i>	<i>0</i>	<i>1531</i>	<i>0</i>	<i>99.3</i>	<i>80-120</i>	<i>1534</i>	<i>0.852</i>	<i>30</i>

The following samples were analyzed in this batch:

23070106-21B	23070106-23B	23070106-24B
23070106-25A	23070106-26A	23070106-27B

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **R376267a** Instrument ID **VMS10** Method: **SW8260D**

MBLK				Sample ID: 10V-BLKS2-230710-R376267a				Units: µg/Kg		Analysis Date: 7/10/2023 10:33 PM		
Client ID:		Run ID: VMS10_230710A			SeqNo: 9752525		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	0.79	5.0									
1,1,2,2-Tetrachloroethane	U	3.2	5.0									
1,1,2-Trichloroethane	U	0.67	5.0									
1,1,2-Trichlorotrifluoroethane	U	1.1	5.0									
1,1-Dichloroethane	U	0.62	5.0									
1,1-Dichloroethene	U	0.98	5.0									
1,2,3-Trichlorobenzene	U	1.8	5.0									
1,2,3-Trichloropropane	U	0.83	5.0									
1,2,4-Trichlorobenzene	U	1.1	5.0									
1,2,4-Trimethylbenzene	U	1.8	5.0									
1,2-Dibromo-3-chloropropane	U	2.1	5.0									
1,2-Dibromoethane	U	1.1	5.0									
1,2-Dichlorobenzene	U	0.7	5.0									
1,2-Dichloroethane	U	0.56	5.0									
1,2-Dichloropropane	U	0.9	5.0									
1,3,5-Trimethylbenzene	U	1.6	5.0									
1,3-Dichlorobenzene	U	0.61	5.0									
1,4-Dichlorobenzene	U	0.64	5.0									
2-Butanone	U	5.1	10									
2-Hexanone	U	1.8	5.0									
4-Methyl-2-pentanone	U	3.7	5.0									
Acetone	U	4.6	10									
Benzene	U	0.52	5.0									
Bromochloromethane	U	0.54	5.0									
Bromodichloromethane	U	0.6	5.0									
Bromoform	U	1.1	5.0									
Bromomethane	U	2.5	10									
Carbon disulfide	U	0.59	5.0									
Carbon tetrachloride	U	1	5.0									
Chlorobenzene	U	0.63	5.0									
Chloroethane	U	1.9	5.0									
Chloroform	U	0.82	5.0									
Chloromethane	U	1	10									
cis-1,2-Dichloroethene	U	0.54	5.0									
cis-1,3-Dichloropropene	U	1.4	5.0									
Cyclohexane	U	1.7	10									
Dibromochloromethane	U	0.51	5.0									
Dichlorodifluoromethane	U	2.5	10									
Ethylbenzene	U	0.87	5.0									
Isopropylbenzene	U	0.85	5.0									
m,p-Xylene	U	2.2	2.5									
Methyl acetate	U	2.5	10									
Methyl tert-butyl ether	U	0.61	5.0									

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

**Client:** Tetra Tech  
**Work Order:** 23070106  
**Project:** Boys and Girls Club

## QC BATCH REPORT

Batch ID: <b>R376267a</b>		Instrument ID <b>VMS10</b>		Method: <b>SW8260D</b>	
Methylcyclohexane	U	1.5	10		
Methylene chloride	U	6.2	10		
o-Xylene	U	1.2	2.5		
Styrene	U	0.75	5.0		
Tetrachloroethene	U	0.38	5.0		
Toluene	U	1.7	5.0		
trans-1,2-Dichloroethene	U	0.5	5.0		
trans-1,3-Dichloropropene	U	1.1	5.0		
Trichloroethene	U	0.72	5.0		
Trichlorofluoromethane	U	0.71	5.0		
Vinyl chloride	U	0.7	5.0		
Xylenes, Total	U	2.2	5.0		
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>20.64</i>	0	0	20	0 103 83-132 0
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.41</i>	0	0	20	0 97 83-111 0
<i>Surr: Dibromofluoromethane</i>	<i>19.29</i>	0	0	20	0 96.4 77-125 0
<i>Surr: Toluene-d8</i>	<i>19.9</i>	0	0	20	0 99.5 86-108 0

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



Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **R376267a** Instrument ID **VMS10** Method: **SW8260D**

LCS		Sample ID: <b>10V-LCSS1-230710-R376267a</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/10/2023 09:10 PM</b>			
Client ID:		Run ID: <b>VMS10_230710A</b>				SeqNo: <b>9752523</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.67	0.79	5.0	20	0	103	73-138	0			
1,1,2,2-Tetrachloroethane	22.14	3.2	5.0	20	0	111	71-126	0			
1,1,2-Trichloroethane	21.53	0.67	5.0	20	0	108	77-123	0			
1,1,2-Trichlorotrifluoroethane	21.28	1.1	5.0	20	0	106	50-150	0			
1,1-Dichloroethane	21.89	0.62	5.0	20	0	109	63-148	0			
1,1-Dichloroethene	22.3	0.98	5.0	20	0	112	67-156	0			
1,2,3-Trichlorobenzene	21.26	1.8	5.0	20	0	106	73-129	0			
1,2,3-Trichloropropane	21.94	0.83	5.0	20	0	110	70-126	0			
1,2,4-Trichlorobenzene	21.17	1.1	5.0	20	0	106	70-132	0			
1,2,4-Trimethylbenzene	21.53	1.8	5.0	20	0	108	71-133	0			
1,2-Dibromo-3-chloropropane	20.28	2.1	5.0	20	0	101	48-127	0			
1,2-Dibromoethane	20.12	1.1	5.0	20	0	101	71-144	0			
1,2-Dichlorobenzene	21.05	0.7	5.0	20	0	105	77-127	0			
1,2-Dichloroethane	20.96	0.56	5.0	20	0	105	77-127	0			
1,2-Dichloropropane	21.13	0.9	5.0	20	0	106	74-130	0			
1,3,5-Trimethylbenzene	21.77	1.6	5.0	20	0	109	71-139	0			
1,3-Dichlorobenzene	21.36	0.61	5.0	20	0	107	75-133	0			
1,4-Dichlorobenzene	21.23	0.64	5.0	20	0	106	74-130	0			
2-Butanone	17.05	5.1	10	20	0	85.2	55-132	0			
2-Hexanone	22.3	1.8	5.0	20	0	112	55-124	0			
4-Methyl-2-pentanone	26.05	3.7	5.0	20	0	130	67-159	0			
Acetone	18.72	4.6	10	20	0	93.6	31-156	0			
Benzene	21.94	0.52	5.0	20	0	110	77-133	0			
Bromochloromethane	22.08	0.54	5.0	20	0	110	72-139	0			
Bromodichloromethane	20.48	0.6	5.0	20	0	102	69-133	0			
Bromoform	19.06	1.1	5.0	20	0	95.3	55-126	0			
Bromomethane	27.69	2.5	10	20	0	138	31-174	0			
Carbon disulfide	21.01	0.59	5.0	20	0	105	45-160	0			
Carbon tetrachloride	20.42	1	5.0	20	0	102	69-140	0			
Chlorobenzene	21.73	0.63	5.0	20	0	109	76-130	0			
Chloroethane	19.44	1.9	5.0	20	0	97.2	53-150	0			
Chloroform	21.53	0.82	5.0	20	0	108	72-132	0			
Chloromethane	14.67	1	10	20	0	73.4	43-150	0			
cis-1,2-Dichloroethene	22.32	0.54	5.0	20	0	112	74-134	0			
cis-1,3-Dichloropropene	19.17	1.4	5.0	20	0	95.8	62-134	0			
Cyclohexane	19.71	1.7	10	20	0	98.6	50-150	0			
Dibromochloromethane	18.39	0.51	5.0	20	0	92	57-118	0			
Dichlorodifluoromethane	17.68	2.5	10	20	0	88.4	43-126	0			
Ethylbenzene	21.78	0.87	5.0	20	0	109	75-133	0			
Isopropylbenzene	22.21	0.85	5.0	20	0	111	74-137	0			
m,p-Xylene	43.82	2.2	2.5	40	0	110	75-134	0			
Methyl tert-butyl ether	22.39	0.61	5.0	20	0	112	62-136	0			
Methylcyclohexane	20.23	1.5	10	20	0	101	50-150	0			

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

**Client:** Tetra Tech  
**Work Order:** 23070106  
**Project:** Boys and Girls Club

## QC BATCH REPORT

Batch ID: <b>R376267a</b>		Instrument ID <b>VMS10</b>			Method: <b>SW8260D</b>			
Methylene chloride	21.78	6.2	10	20	0	109	55-157	0
o-Xylene	22.22	1.2	2.5	20	0	111	76-130	0
Styrene	21.32	0.75	5.0	20	0	107	72-138	0
Tetrachloroethene	22.25	0.38	5.0	20	0	111	70-171	0
Toluene	22.2	1.7	5.0	20	0	111	76-130	0
trans-1,2-Dichloroethene	22.58	0.5	5.0	20	0	113	65-137	0
trans-1,3-Dichloropropene	20.11	1.1	5.0	20	0	101	58-126	0
Trichloroethene	20.63	0.72	5.0	20	0	103	75-135	0
Trichlorofluoromethane	18.88	0.71	5.0	20	0	94.4	62-136	0
Vinyl chloride	17.34	0.7	5.0	20	0	86.7	57-143	0
Xylenes, Total	66.04	2.2	5.0	60	0	110	75-132	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>20.44</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>102</i>	<i>83-132</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.86</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.3</i>	<i>83-111</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.83</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.2</i>	<i>77-125</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>20.51</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>103</i>	<i>86-108</i>	<i>0</i>

The following samples were analyzed in this batch:

23070106-11B	23070106-12B	23070106-13B
23070106-14B	23070106-15B	23070106-16B
23070106-17B	23070106-18B	23070106-19B
23070106-20B	23070106-21B	23070106-22B

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **R376203** Instrument ID **MOIST** Method: **SW3550C**

<b>MBLK</b>		Sample ID: <b>WBLKS-R376203</b>				Units: % of sample			Analysis Date: <b>7/7/2023 11:56 AM</b>		
Client ID:		Run ID: <b>MOIST_230707B</b>				SeqNo: <b>9747486</b>			Prep Date:		DF: <b>1</b>
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								

<b>LCS</b>		Sample ID: <b>LCS-R376203</b>				Units: % of sample			Analysis Date: <b>7/7/2023 11:56 AM</b>		
Client ID:		Run ID: <b>MOIST_230707B</b>				SeqNo: <b>9747485</b>			Prep Date:		DF: <b>1</b>
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			

<b>DUP</b>		Sample ID: <b>23062583-09A DUP</b>				Units: % of sample			Analysis Date: <b>7/7/2023 11:56 AM</b>		
Client ID:		Run ID: <b>MOIST_230707B</b>				SeqNo: <b>9747464</b>			Prep Date:		DF: <b>1</b>
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	17.06	0.1	0.10	0	0	0	0-0	17.5	2.55	10	

<b>DUP</b>		Sample ID: <b>23062705-06B DUP</b>				Units: % of sample			Analysis Date: <b>7/7/2023 11:56 AM</b>		
Client ID:		Run ID: <b>MOIST_230707B</b>				SeqNo: <b>9747475</b>			Prep Date:		DF: <b>1</b>
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	14.25	0.1	0.10	0	0	0	0-0	14.71	3.18	10	

The following samples were analyzed in this batch:

23070106-01C	23070106-02C	23070106-03C
23070106-04C		

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **R376207** Instrument ID **MOIST** Method: **SW3550C**

<b>MBLK</b>		Sample ID: <b>WBLKS-R376207</b>				Units: % of sample		Analysis Date: <b>7/7/2023 12:37 PM</b>			
Client ID:		Run ID: <b>MOIST_230707C</b>				SeqNo: <b>9747547</b>		Prep Date:		DF: <b>1</b>	
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								

<b>LCS</b>		Sample ID: <b>LCS-R376207</b>				Units: % of sample		Analysis Date: <b>7/7/2023 12:37 PM</b>			
Client ID:		Run ID: <b>MOIST_230707C</b>				SeqNo: <b>9747546</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.1	0.10	100	0	100	98-102	0			

<b>DUP</b>		Sample ID: <b>23062764-07A DUP</b>				Units: % of sample		Analysis Date: <b>7/7/2023 12:37 PM</b>			
Client ID:		Run ID: <b>MOIST_230707C</b>				SeqNo: <b>9747528</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	19.59	0.1	0.10	0	0	0	0-0	18.75	4.38	10	

<b>DUP</b>		Sample ID: <b>23070106-05C DUP</b>				Units: % of sample		Analysis Date: <b>7/7/2023 12:37 PM</b>			
Client ID: <b>SB-3 (0-3)</b>		Run ID: <b>MOIST_230707C</b>				SeqNo: <b>9747539</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	8.67	0.1	0.10	0	0	0	0-0	8.6	0.811	10	

The following samples were analyzed in this batch:

23070106-05C	23070106-06C	23070106-07C
23070106-08C	23070106-09C	23070106-10C
23070106-27C		

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **R376210** Instrument ID **MOIST** Method: **SW3550C**

<b>MBLK</b>		Sample ID: <b>WBLKS-R376210</b>				Units: % of sample			Analysis Date: <b>7/7/2023 02:34 PM</b>		
Client ID:		Run ID: <b>MOIST_230707D</b>				SeqNo: <b>9747753</b>			Prep Date:		DF: <b>1</b>
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								

<b>LCS</b>		Sample ID: <b>LCS-R376210</b>				Units: % of sample			Analysis Date: <b>7/7/2023 02:34 PM</b>		
Client ID:		Run ID: <b>MOIST_230707D</b>				SeqNo: <b>9747752</b>			Prep Date:		DF: <b>1</b>
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			

<b>DUP</b>		Sample ID: <b>23062746-05A DUP</b>				Units: % of sample			Analysis Date: <b>7/7/2023 02:34 PM</b>		
Client ID:		Run ID: <b>MOIST_230707D</b>				SeqNo: <b>9747735</b>			Prep Date:		DF: <b>1</b>
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	18.93	0.1	0.10	0	0	0	0-0	18.66	1.44	10	

<b>DUP</b>		Sample ID: <b>23062764-01A DUP</b>				Units: % of sample			Analysis Date: <b>7/7/2023 02:34 PM</b>		
Client ID:		Run ID: <b>MOIST_230707D</b>				SeqNo: <b>9747744</b>			Prep Date:		DF: <b>1</b>
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	9.45	0.1	0.10	0	0	0	0-0	9.64	1.99	10	

The following samples were analyzed in this batch: 23070106-11C 23070106-12C

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **R376485** Instrument ID **MOIST** Method: **SW3550C**

<b>MBLK</b>		Sample ID: <b>WBLKS-R376485</b>				Units: % of sample		Analysis Date: <b>7/12/2023 11:44 AM</b>			
Client ID:		Run ID: <b>MOIST_230712A</b>				SeqNo: <b>9761159</b>		Prep Date:		DF: <b>1</b>	
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								

<b>LCS</b>		Sample ID: <b>LCS-R376485</b>				Units: % of sample		Analysis Date: <b>7/12/2023 11:44 AM</b>			
Client ID:		Run ID: <b>MOIST_230712A</b>				SeqNo: <b>9761158</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.1	0.10	100	0	100	98-102	0			

<b>DUP</b>		Sample ID: <b>23070106-14C DUP</b>				Units: % of sample		Analysis Date: <b>7/12/2023 11:44 AM</b>			
Client ID: <b>SB-7 (12-15)</b>		Run ID: <b>MOIST_230712A</b>				SeqNo: <b>9761138</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	16.23	0.1	0.10	0	0	0	0-0	15.58	4.09	10	

<b>DUP</b>		Sample ID: <b>23070454-05A DUP</b>				Units: % of sample		Analysis Date: <b>7/12/2023 11:44 AM</b>			
Client ID:		Run ID: <b>MOIST_230712A</b>				SeqNo: <b>9761145</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	21.6	0.1	0.10	0	0	0	0-0	21.73	0.6	10	

The following samples were analyzed in this batch:

23070106-13C	23070106-14C	23070106-15C
--------------	--------------	--------------

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **R376486** Instrument ID **MOIST** Method: **SW3550C**

<b>MBLK</b>		Sample ID: <b>WBLKS-R376486</b>				Units: % of sample			Analysis Date: <b>7/12/2023 12:47 PM</b>		
Client ID:		Run ID: <b>MOIST_230712B</b>				SeqNo: <b>9761183</b>			Prep Date:		
									DF: <b>1</b>		
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								

<b>LCS</b>		Sample ID: <b>LCS-R376486</b>				Units: % of sample			Analysis Date: <b>7/12/2023 12:47 PM</b>		
Client ID:		Run ID: <b>MOIST_230712B</b>				SeqNo: <b>9761182</b>			Prep Date:		
									DF: <b>1</b>		
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			

<b>DUP</b>		Sample ID: <b>23070106-16C DUP</b>				Units: % of sample			Analysis Date: <b>7/12/2023 12:47 PM</b>		
Client ID: <b>SB-8 (32-35)</b>		Run ID: <b>MOIST_230712B</b>				SeqNo: <b>9761161</b>			Prep Date:		
									DF: <b>1</b>		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	13.19	0.1	0.10	0	0	0	0-0	12.91	2.15	10	

<b>DUP</b>		Sample ID: <b>23070427-05A DUP</b>				Units: % of sample			Analysis Date: <b>7/12/2023 12:47 PM</b>		
Client ID:		Run ID: <b>MOIST_230712B</b>				SeqNo: <b>9761172</b>			Prep Date:		
									DF: <b>1</b>		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	9.08	0.1	0.10	0	0	0	0-0	8.42	7.54	10	

The following samples were analyzed in this batch:

23070106-16C	23070106-17C	23070106-18C
23070106-19C	23070106-20C	

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

Client: Tetra Tech  
 Work Order: 23070106  
 Project: Boys and Girls Club

## QC BATCH REPORT

Batch ID: **R376487** Instrument ID **MOIST** Method: **SW3550C**

<b>MBLK</b>		Sample ID: <b>WBLKS-R376487</b>				Units: % of sample		Analysis Date: <b>7/12/2023 04:07 PM</b>			
Client ID:		Run ID: <b>MOIST_230712C</b>				SeqNo: <b>9761207</b>		Prep Date:		DF: <b>1</b>	
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								

<b>LCS</b>		Sample ID: <b>LCS-R376487</b>				Units: % of sample		Analysis Date: <b>7/12/2023 04:07 PM</b>			
Client ID:		Run ID: <b>MOIST_230712C</b>				SeqNo: <b>9761206</b>		Prep Date:		DF: <b>1</b>	
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			

<b>DUP</b>		Sample ID: <b>23070106-23C DUP</b>				Units: % of sample		Analysis Date: <b>7/12/2023 04:07 PM</b>			
Client ID: <b>SB-12 (0-3)</b>		Run ID: <b>MOIST_230712C</b>				SeqNo: <b>9761187</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	8.65	0.1	0.10	0	0	0	0-0	8.31	4.01	10	

<b>DUP</b>		Sample ID: <b>23070427-06A DUP</b>				Units: % of sample		Analysis Date: <b>7/12/2023 04:07 PM</b>			
Client ID:		Run ID: <b>MOIST_230712C</b>				SeqNo: <b>9761200</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	7.34	0.1	0.10	0	0	0	0-0	7.19	2.06	10	

The following samples were analyzed in this batch:

23070106-21C	23070106-22C	23070106-23C
23070106-24C		

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



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Jodi Blouw  
ALS Global  
3352 128th Ave  
Holland, Michigan 49424

Generated 7/14/2023 2:31:43 PM

## JOB DESCRIPTION

23070106

## JOB NUMBER

310-259451-1

# Eurofins Cedar Falls

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

## Authorization



Generated  
7/14/2023 2:31:43 PM

Authorized for release by  
Zach Bindert, Client Service Manager  
[Zach.Bindert@et.eurofinsus.com](mailto:Zach.Bindert@et.eurofinsus.com)  
(319)277-2401



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Case Narrative . . . . .	4
Sample Summary . . . . .	5
Detection Summary . . . . .	6
Client Sample Results . . . . .	8
Definitions . . . . .	33
Surrogate Summary . . . . .	34
QC Sample Results . . . . .	35
QC Association . . . . .	37
Chronicle . . . . .	39
Certification Summary . . . . .	44
Method Summary . . . . .	45
Chain of Custody . . . . .	46
Receipt Checklists . . . . .	49

## Case Narrative

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

**Job ID: 310-259451-1**

**Laboratory: Eurofins Cedar Falls**

### Narrative

#### Job Narrative 310-259451-1

#### Receipt

The samples were received on 7/1/2023 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.9°C

#### Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

## Sample Summary

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-259451-1	23070106-01D SB-1 (0-3)	Solid	06/27/23 09:12	07/01/23 09:15
310-259451-2	23070106-02D SB-1 (32-35)	Solid	06/27/23 09:37	07/01/23 09:15
310-259451-3	23070106-03D SB-2 (0-3)	Solid	06/27/23 10:15	07/01/23 09:15
310-259451-4	23070106-04D SB-2 (32-35)	Solid	06/27/23 10:36	07/01/23 09:15
310-259451-5	23070106-05D SB-3 (0-3)	Solid	06/27/23 11:15	07/01/23 09:15
310-259451-6	23070106-06D SB-3 (32-35)	Solid	06/27/23 11:27	07/01/23 09:15
310-259451-7	23070106-07D SB-4 (0-3)	Solid	06/27/23 13:10	07/01/23 09:15
310-259451-8	23070106-08D SB-4 (0-3) Dup	Solid	06/27/23 13:10	07/01/23 09:15
310-259451-9	23070106-09D SB-5 (0-3)	Solid	06/27/23 14:55	07/01/23 09:15
310-259451-10	23070106-10D SB-5 (15-18)	Solid	06/27/23 15:04	07/01/23 09:15
310-259451-11	23070106-11D SB-6 (0-3)	Solid	06/27/23 15:27	07/01/23 09:15
310-259451-12	23070106-12D SB-6 (30-35)	Solid	06/27/23 15:42	07/01/23 09:15
310-259451-13	23070106-13D SB-7 (0-3)	Solid	06/28/23 09:18	07/01/23 09:15
310-259451-14	23070106-14D SB-7 (12-15)	Solid	06/28/23 09:38	07/01/23 09:15
310-259451-15	23070106-15D SB-8 (0-10)	Solid	06/28/23 10:25	07/01/23 09:15
310-259451-16	23070106-16D SB-8 (32-35)	Solid	06/28/23 10:47	07/01/23 09:15
310-259451-17	23070106-17D SB-9 (2-5)	Solid	06/28/23 12:45	07/01/23 09:15
310-259451-18	23070106-18D SB-9 (32-35)	Solid	06/28/23 13:10	07/01/23 09:15
310-259451-19	23070106-19D SB-10 (0-3)	Solid	06/28/23 14:30	07/01/23 09:15
310-259451-20	23070106-20D SB-10 (25-35)	Solid	06/28/23 15:10	07/01/23 09:15
310-259451-21	23070106-21D SB-11 (0-3)	Solid	06/29/23 08:20	07/01/23 09:15
310-259451-22	23070106-22D SB-11 (27-30)	Solid	06/29/23 09:00	07/01/23 09:15
310-259451-23	23070106-23D SB-12 (0-3)	Solid	06/29/23 09:02	07/01/23 09:15
310-259451-24	23070106-24D SB-12 (32-35)	Solid	06/29/23 09:50	07/01/23 09:15
310-259451-25	23070106-27D SB-4 (32-35)	Solid	06/27/23 13:23	07/01/23 09:15

## Detection Summary

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

### Client Sample ID: 23070106-01D SB-1 (0-3)

Lab Sample ID: 310-259451-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Extractable Hydrocarbons	9.2	J Z	15	3.8	mg/Kg	1		OA-2	Total/NA

### Client Sample ID: 23070106-02D SB-1 (32-35)

Lab Sample ID: 310-259451-2

No Detections.

### Client Sample ID: 23070106-03D SB-2 (0-3)

Lab Sample ID: 310-259451-3

No Detections.

### Client Sample ID: 23070106-04D SB-2 (32-35)

Lab Sample ID: 310-259451-4

No Detections.

### Client Sample ID: 23070106-05D SB-3 (0-3)

Lab Sample ID: 310-259451-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Extractable Hydrocarbons	4.4	J Z	15	3.8	mg/Kg	1		OA-2	Total/NA

### Client Sample ID: 23070106-06D SB-3 (32-35)

Lab Sample ID: 310-259451-6

No Detections.

### Client Sample ID: 23070106-07D SB-4 (0-3)

Lab Sample ID: 310-259451-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Waste Oil	48		10	2.0	mg/Kg	1		OA-2	Total/NA

### Client Sample ID: 23070106-08D SB-4 (0-3) Dup

Lab Sample ID: 310-259451-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Waste Oil	41		10	2.0	mg/Kg	1		OA-2	Total/NA

### Client Sample ID: 23070106-09D SB-5 (0-3)

Lab Sample ID: 310-259451-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Extractable Hydrocarbons	8.4	J Z	15	4.0	mg/Kg	1		OA-2	Total/NA

### Client Sample ID: 23070106-10D SB-5 (15-18)

Lab Sample ID: 310-259451-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Extractable Hydrocarbons	9.9	J Z	15	3.9	mg/Kg	1		OA-2	Total/NA

### Client Sample ID: 23070106-11D SB-6 (0-3)

Lab Sample ID: 310-259451-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Waste Oil	1000		10	2.0	mg/Kg	1		OA-2	Total/NA

### Client Sample ID: 23070106-12D SB-6 (30-35)

Lab Sample ID: 310-259451-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Extractable Hydrocarbons	6.0	J Z	15	4.0	mg/Kg	1		OA-2	Total/NA

### Client Sample ID: 23070106-13D SB-7 (0-3)

Lab Sample ID: 310-259451-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Extractable Hydrocarbons	49	Z	15	3.8	mg/Kg	1		OA-2	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

## Detection Summary

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

### Client Sample ID: 23070106-14D SB-7 (12-15)

Lab Sample ID: 310-259451-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Extractable Hydrocarbons	35	Z	15	3.8	mg/Kg	1		OA-2	Total/NA

### Client Sample ID: 23070106-15D SB-8 (0-10)

Lab Sample ID: 310-259451-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Extractable Hydrocarbons	67	Z	15	3.9	mg/Kg	1		OA-2	Total/NA

### Client Sample ID: 23070106-16D SB-8 (32-35)

Lab Sample ID: 310-259451-16

No Detections.

### Client Sample ID: 23070106-17D SB-9 (2-5)

Lab Sample ID: 310-259451-17

No Detections.

### Client Sample ID: 23070106-18D SB-9 (32-35)

Lab Sample ID: 310-259451-18

No Detections.

### Client Sample ID: 23070106-19D SB-10 (0-3)

Lab Sample ID: 310-259451-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Extractable Hydrocarbons	33	Z	15	3.9	mg/Kg	1		OA-2	Total/NA

### Client Sample ID: 23070106-20D SB-10 (25-35)

Lab Sample ID: 310-259451-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	17		10	7.4	mg/Kg	1		OA-2	Total/NA

### Client Sample ID: 23070106-21D SB-11 (0-3)

Lab Sample ID: 310-259451-21

No Detections.

### Client Sample ID: 23070106-22D SB-11 (27-30)

Lab Sample ID: 310-259451-22

No Detections.

### Client Sample ID: 23070106-23D SB-12 (0-3)

Lab Sample ID: 310-259451-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Extractable Hydrocarbons	8.6	J Z	15	3.9	mg/Kg	1		OA-2	Total/NA

### Client Sample ID: 23070106-24D SB-12 (32-35)

Lab Sample ID: 310-259451-24

No Detections.

### Client Sample ID: 23070106-27D SB-4 (32-35)

Lab Sample ID: 310-259451-25

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-01D SB-1 (0-3)

Lab Sample ID: 310-259451-1

Date Collected: 06/27/23 09:12

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.2		10	7.2	mg/Kg		07/10/23 13:45	07/12/23 13:58	1
Diesel	<3.8		10	3.8	mg/Kg		07/10/23 13:45	07/12/23 13:58	1
Waste Oil	<2.0		10	2.0	mg/Kg		07/10/23 13:45	07/12/23 13:58	1
<b>Total Extractable Hydrocarbons</b>	<b>9.2</b>	<b>J Z</b>	15	3.8	mg/Kg		07/10/23 13:45	07/12/23 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane	76		12 - 126	07/10/23 13:45	07/12/23 13:58	1



# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-02D SB-1 (32-35)

Lab Sample ID: 310-259451-2

Date Collected: 06/27/23 09:37

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.5		10	7.5	mg/Kg		07/10/23 13:45	07/12/23 14:13	1
Diesel	<4.0		10	4.0	mg/Kg		07/10/23 13:45	07/12/23 14:13	1
Waste Oil	<2.0		10	2.0	mg/Kg		07/10/23 13:45	07/12/23 14:13	1
Total Extractable Hydrocarbons	<4.0		15	4.0	mg/Kg		07/10/23 13:45	07/12/23 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	74		12 - 126	07/10/23 13:45	07/12/23 14:13	1

# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-03D SB-2 (0-3)

Lab Sample ID: 310-259451-3

Date Collected: 06/27/23 10:15

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.3		10	7.3	mg/Kg		07/10/23 13:45	07/12/23 14:28	1
Diesel	<3.9		10	3.9	mg/Kg		07/10/23 13:45	07/12/23 14:28	1
Waste Oil	<2.0		10	2.0	mg/Kg		07/10/23 13:45	07/12/23 14:28	1
Total Extractable Hydrocarbons	<3.9		15	3.9	mg/Kg		07/10/23 13:45	07/12/23 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	73		12 - 126	07/10/23 13:45	07/12/23 14:28	1

# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-04D SB-2 (32-35)

Lab Sample ID: 310-259451-4

Date Collected: 06/27/23 10:36

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.3		10	7.3	mg/Kg		07/10/23 13:45	07/12/23 14:43	1
Diesel	<3.9		10	3.9	mg/Kg		07/10/23 13:45	07/12/23 14:43	1
Waste Oil	<2.0		10	2.0	mg/Kg		07/10/23 13:45	07/12/23 14:43	1
Total Extractable Hydrocarbons	<3.9		15	3.9	mg/Kg		07/10/23 13:45	07/12/23 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	75		12 - 126	07/10/23 13:45	07/12/23 14:43	1

# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-05D SB-3 (0-3)

Lab Sample ID: 310-259451-5

Date Collected: 06/27/23 11:15

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.1		10	7.1	mg/Kg		07/10/23 13:45	07/12/23 14:58	1
Diesel	<3.8		10	3.8	mg/Kg		07/10/23 13:45	07/12/23 14:58	1
Waste Oil	<1.9		10	1.9	mg/Kg		07/10/23 13:45	07/12/23 14:58	1
<b>Total Extractable Hydrocarbons</b>	<b>4.4</b>	<b>J Z</b>	15	3.8	mg/Kg		07/10/23 13:45	07/12/23 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane	83		12 - 126	07/10/23 13:45	07/12/23 14:58	1

# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-06D SB-3 (32-35)

Lab Sample ID: 310-259451-6

Date Collected: 06/27/23 11:27

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.3		10	7.3	mg/Kg		07/10/23 13:45	07/12/23 15:13	1
Diesel	<3.9		10	3.9	mg/Kg		07/10/23 13:45	07/12/23 15:13	1
Waste Oil	<2.0		10	2.0	mg/Kg		07/10/23 13:45	07/12/23 15:13	1
Total Extractable Hydrocarbons	<3.9		15	3.9	mg/Kg		07/10/23 13:45	07/12/23 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	84		12 - 126	07/10/23 13:45	07/12/23 15:13	1

# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-07D SB-4 (0-3)

Lab Sample ID: 310-259451-7

Date Collected: 06/27/23 13:10

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.2		10	7.2	mg/Kg		07/10/23 13:45	07/12/23 15:28	1
Diesel	<3.8		10	3.8	mg/Kg		07/10/23 13:45	07/12/23 15:28	1
Waste Oil	48		10	2.0	mg/Kg		07/10/23 13:45	07/12/23 15:28	1
Total Extractable Hydrocarbons	<3.8		15	3.8	mg/Kg		07/10/23 13:45	07/12/23 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	79		12 - 126	07/10/23 13:45	07/12/23 15:28	1

# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-08D SB-4 (0-3) Dup

Lab Sample ID: 310-259451-8

Date Collected: 06/27/23 13:10

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.3		10	7.3	mg/Kg		07/10/23 13:45	07/12/23 15:43	1
Diesel	<3.9		10	3.9	mg/Kg		07/10/23 13:45	07/12/23 15:43	1
Waste Oil	41		10	2.0	mg/Kg		07/10/23 13:45	07/12/23 15:43	1
Total Extractable Hydrocarbons	<3.9		15	3.9	mg/Kg		07/10/23 13:45	07/12/23 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	78		12 - 126	07/10/23 13:45	07/12/23 15:43	1

# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-09D SB-5 (0-3)

Lab Sample ID: 310-259451-9

Date Collected: 06/27/23 14:55

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.5		10	7.5	mg/Kg		07/10/23 13:45	07/12/23 15:58	1
Diesel	<4.0		10	4.0	mg/Kg		07/10/23 13:45	07/12/23 15:58	1
Waste Oil	<2.0		10	2.0	mg/Kg		07/10/23 13:45	07/12/23 15:58	1
<b>Total Extractable Hydrocarbons</b>	<b>8.4</b>	<b>J Z</b>	15	4.0	mg/Kg		07/10/23 13:45	07/12/23 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane	90		12 - 126	07/10/23 13:45	07/12/23 15:58	1



# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-10D SB-5 (15-18)

Lab Sample ID: 310-259451-10

Date Collected: 06/27/23 15:04

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.2		10	7.2	mg/Kg		07/10/23 13:45	07/12/23 16:13	1
Diesel	<3.9		10	3.9	mg/Kg		07/10/23 13:45	07/12/23 16:13	1
Waste Oil	<2.0		10	2.0	mg/Kg		07/10/23 13:45	07/12/23 16:13	1
<b>Total Extractable Hydrocarbons</b>	<b>9.9</b>	<b>J Z</b>	15	3.9	mg/Kg		07/10/23 13:45	07/12/23 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane	86		12 - 126	07/10/23 13:45	07/12/23 16:13	1

# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-11D SB-6 (0-3)

Lab Sample ID: 310-259451-11

Date Collected: 06/27/23 15:27

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.3		10	7.3	mg/Kg		07/10/23 13:45	07/12/23 16:28	1
Diesel	<3.9		10	3.9	mg/Kg		07/10/23 13:45	07/12/23 16:28	1
Waste Oil	1000		10	2.0	mg/Kg		07/10/23 13:45	07/12/23 16:28	1
Total Extractable Hydrocarbons	<3.9		15	3.9	mg/Kg		07/10/23 13:45	07/12/23 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	105		12 - 126	07/10/23 13:45	07/12/23 16:28	1

# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-12D SB-6 (30-35)

Lab Sample ID: 310-259451-12

Date Collected: 06/27/23 15:42

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.4		10	7.4	mg/Kg		07/10/23 13:45	07/12/23 16:44	1
Diesel	<4.0		10	4.0	mg/Kg		07/10/23 13:45	07/12/23 16:44	1
Waste Oil	<2.0		10	2.0	mg/Kg		07/10/23 13:45	07/12/23 16:44	1
<b>Total Extractable Hydrocarbons</b>	<b>6.0</b>	<b>J Z</b>	15	4.0	mg/Kg		07/10/23 13:45	07/12/23 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane	77		12 - 126	07/10/23 13:45	07/12/23 16:44	1

# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-13D SB-7 (0-3)

Lab Sample ID: 310-259451-13

Date Collected: 06/28/23 09:18

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.2		10	7.2	mg/Kg		07/11/23 13:37	07/13/23 17:34	1
Diesel	<3.8		10	3.8	mg/Kg		07/11/23 13:37	07/13/23 17:34	1
Waste Oil	<2.0		10	2.0	mg/Kg		07/11/23 13:37	07/13/23 17:34	1
<b>Total Extractable Hydrocarbons</b>	<b>49</b>	<b>Z</b>	15	3.8	mg/Kg		07/11/23 13:37	07/13/23 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	96		12 - 126	07/11/23 13:37	07/13/23 17:34	1

# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-14D SB-7 (12-15)

Lab Sample ID: 310-259451-14

Date Collected: 06/28/23 09:38

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.2		10	7.2	mg/Kg		07/11/23 13:37	07/13/23 17:49	1
Diesel	<3.8		10	3.8	mg/Kg		07/11/23 13:37	07/13/23 17:49	1
Waste Oil	<1.9		10	1.9	mg/Kg		07/11/23 13:37	07/13/23 17:49	1
<b>Total Extractable Hydrocarbons</b>	<b>35</b>	<b>Z</b>	15	3.8	mg/Kg		07/11/23 13:37	07/13/23 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane	93		12 - 126	07/11/23 13:37	07/13/23 17:49	1

# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-15D SB-8 (0-10)

Lab Sample ID: 310-259451-15

Date Collected: 06/28/23 10:25

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.3		10	7.3	mg/Kg		07/11/23 13:37	07/13/23 18:04	1
Diesel	<3.9		10	3.9	mg/Kg		07/11/23 13:37	07/13/23 18:04	1
Waste Oil	<2.0		10	2.0	mg/Kg		07/11/23 13:37	07/13/23 18:04	1
<b>Total Extractable Hydrocarbons</b>	<b>67</b>	<b>Z</b>	15	3.9	mg/Kg		07/11/23 13:37	07/13/23 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane	89		12 - 126	07/11/23 13:37	07/13/23 18:04	1

# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-16D SB-8 (32-35)

Lab Sample ID: 310-259451-16

Date Collected: 06/28/23 10:47

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.3		10	7.3	mg/Kg		07/11/23 13:37	07/13/23 13:03	1
Diesel	<3.9		10	3.9	mg/Kg		07/11/23 13:37	07/13/23 13:03	1
Waste Oil	<2.0		10	2.0	mg/Kg		07/11/23 13:37	07/13/23 13:03	1
Total Extractable Hydrocarbons	<3.9		15	3.9	mg/Kg		07/11/23 13:37	07/13/23 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	86		12 - 126	07/11/23 13:37	07/13/23 13:03	1

# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-17D SB-9 (2-5)

Lab Sample ID: 310-259451-17

Date Collected: 06/28/23 12:45

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.1		10	7.1	mg/Kg		07/11/23 13:37	07/13/23 13:18	1
Diesel	<3.8		10	3.8	mg/Kg		07/11/23 13:37	07/13/23 13:18	1
Waste Oil	<1.9		10	1.9	mg/Kg		07/11/23 13:37	07/13/23 13:18	1
Total Extractable Hydrocarbons	<3.8		15	3.8	mg/Kg		07/11/23 13:37	07/13/23 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	72		12 - 126	07/11/23 13:37	07/13/23 13:18	1



# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-18D SB-9 (32-35)

Lab Sample ID: 310-259451-18

Date Collected: 06/28/23 13:10

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.0		10	7.0	mg/Kg		07/11/23 13:37	07/13/23 13:33	1
Diesel	<3.7		10	3.7	mg/Kg		07/11/23 13:37	07/13/23 13:33	1
Waste Oil	<1.9		10	1.9	mg/Kg		07/11/23 13:37	07/13/23 13:33	1
Total Extractable Hydrocarbons	<3.7		15	3.7	mg/Kg		07/11/23 13:37	07/13/23 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	79		12 - 126	07/11/23 13:37	07/13/23 13:33	1

# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-19D SB-10 (0-3)

Lab Sample ID: 310-259451-19

Date Collected: 06/28/23 14:30

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.3		10	7.3	mg/Kg		07/11/23 13:37	07/13/23 13:48	1
Diesel	<3.9		10	3.9	mg/Kg		07/11/23 13:37	07/13/23 13:48	1
Waste Oil	<2.0		10	2.0	mg/Kg		07/11/23 13:37	07/13/23 13:48	1
<b>Total Extractable Hydrocarbons</b>	<b>33</b>	<b>Z</b>	15	3.9	mg/Kg		07/11/23 13:37	07/13/23 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane	84		12 - 126	07/11/23 13:37	07/13/23 13:48	1

# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-20D SB-10 (25-35)

Lab Sample ID: 310-259451-20

Date Collected: 06/28/23 15:10

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	17		10	7.4	mg/Kg		07/10/23 09:31	07/12/23 10:18	1
Diesel	<3.9		10	3.9	mg/Kg		07/10/23 09:31	07/12/23 10:18	1
Waste Oil	<2.0		10	2.0	mg/Kg		07/10/23 09:31	07/12/23 10:18	1
Total Extractable Hydrocarbons	<3.9		15	3.9	mg/Kg		07/10/23 09:31	07/12/23 10:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	70		12 - 126	07/10/23 09:31	07/12/23 10:18	1

# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-21D SB-11 (0-3)

Lab Sample ID: 310-259451-21

Date Collected: 06/29/23 08:20

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.4		10	7.4	mg/Kg		07/11/23 13:42	07/13/23 12:39	1
Diesel	<3.9		10	3.9	mg/Kg		07/11/23 13:42	07/13/23 12:39	1
Waste Oil	<2.0		10	2.0	mg/Kg		07/11/23 13:42	07/13/23 12:39	1
Total Extractable Hydrocarbons	<3.9		15	3.9	mg/Kg		07/11/23 13:42	07/13/23 12:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	103		12 - 126				07/11/23 13:42	07/13/23 12:39	1

# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-22D SB-11 (27-30)

Lab Sample ID: 310-259451-22

Date Collected: 06/29/23 09:00

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.5		10	7.5	mg/Kg		07/11/23 13:42	07/13/23 12:54	1
Diesel	<4.0		10	4.0	mg/Kg		07/11/23 13:42	07/13/23 12:54	1
Waste Oil	<2.0		10	2.0	mg/Kg		07/11/23 13:42	07/13/23 12:54	1
Total Extractable Hydrocarbons	<4.0		15	4.0	mg/Kg		07/11/23 13:42	07/13/23 12:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	96		12 - 126	07/11/23 13:42	07/13/23 12:54	1

# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-23D SB-12 (0-3)

Lab Sample ID: 310-259451-23

Date Collected: 06/29/23 09:02

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.3		10	7.3	mg/Kg		07/11/23 13:42	07/13/23 13:24	1
Diesel	<3.9		10	3.9	mg/Kg		07/11/23 13:42	07/13/23 13:24	1
Waste Oil	<2.0		10	2.0	mg/Kg		07/11/23 13:42	07/13/23 13:24	1
<b>Total Extractable Hydrocarbons</b>	<b>8.6</b>	<b>J Z</b>	15	3.9	mg/Kg		07/11/23 13:42	07/13/23 13:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane	98		12 - 126	07/11/23 13:42	07/13/23 13:24	1

# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-24D SB-12 (32-35)

Lab Sample ID: 310-259451-24

Date Collected: 06/29/23 09:50

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.3		10	7.3	mg/Kg		07/11/23 13:42	07/13/23 13:09	1
Diesel	<3.9		10	3.9	mg/Kg		07/11/23 13:42	07/13/23 13:09	1
Waste Oil	<2.0		10	2.0	mg/Kg		07/11/23 13:42	07/13/23 13:09	1
Total Extractable Hydrocarbons	<3.9		15	3.9	mg/Kg		07/11/23 13:42	07/13/23 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	97		12 - 126	07/11/23 13:42	07/13/23 13:09	1

# Client Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-27D SB-4 (32-35)

Lab Sample ID: 310-259451-25

Date Collected: 06/27/23 13:23

Matrix: Solid

Date Received: 07/01/23 09:15

## Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.1		10	7.1	mg/Kg		07/10/23 13:45	07/12/23 16:59	1
Diesel	<3.8		10	3.8	mg/Kg		07/10/23 13:45	07/12/23 16:59	1
Waste Oil	<1.9		10	1.9	mg/Kg		07/10/23 13:45	07/12/23 16:59	1
Total Extractable Hydrocarbons	<3.8		15	3.8	mg/Kg		07/10/23 13:45	07/12/23 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	71		12 - 126				07/10/23 13:45	07/12/23 16:59	1



## Definitions/Glossary

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

### Qualifiers

#### GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Z	The chromatographic response does not resemble a typical fuel pattern.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Surrogate Summary

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)				
Lab Sample ID	Client Sample ID	OTCN				
		(12-126)				
310-259451-1	23070106-01D SB-1 (0-3)	76				
310-259451-2	23070106-02D SB-1 (32-35)	74				
310-259451-3	23070106-03D SB-2 (0-3)	73				
310-259451-4	23070106-04D SB-2 (32-35)	75				
310-259451-5	23070106-05D SB-3 (0-3)	83				
310-259451-6	23070106-06D SB-3 (32-35)	84				
310-259451-7	23070106-07D SB-4 (0-3)	79				
310-259451-8	23070106-08D SB-4 (0-3) Dup	78				
310-259451-9	23070106-09D SB-5 (0-3)	90				
310-259451-10	23070106-10D SB-5 (15-18)	86				
310-259451-11	23070106-11D SB-6 (0-3)	105				
310-259451-12	23070106-12D SB-6 (30-35)	77				
310-259451-13	23070106-13D SB-7 (0-3)	96				
310-259451-14	23070106-14D SB-7 (12-15)	93				
310-259451-15	23070106-15D SB-8 (0-10)	89				
310-259451-16	23070106-16D SB-8 (32-35)	86				
310-259451-17	23070106-17D SB-9 (2-5)	72				
310-259451-18	23070106-18D SB-9 (32-35)	79				
310-259451-19	23070106-19D SB-10 (0-3)	84				
310-259451-20	23070106-20D SB-10 (25-35)	70				
310-259451-21	23070106-21D SB-11 (0-3)	103				
310-259451-22	23070106-22D SB-11 (27-30)	96				
310-259451-23	23070106-23D SB-12 (0-3)	98				
310-259451-24	23070106-24D SB-12 (32-35)	97				
310-259451-25	23070106-27D SB-4 (32-35)	71				
LCS 310-393031/2-A	Lab Control Sample	75				
LCS 310-393078/2-A	Lab Control Sample	93				
LCS 310-393204/2-A	Lab Control Sample	104				
LCS 310-393207/2-A	Lab Control Sample	99				
MB 310-393031/1-A	Method Blank	87				
MB 310-393078/1-A	Method Blank	77				
MB 310-393204/1-A	Method Blank	92				
MB 310-393207/1-A	Method Blank	100				

## Surrogate Legend

OTCN = n-Octacosane

# QC Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

## Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 310-393031/1-A

Matrix: Solid

Analysis Batch: 393127

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 393031

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.2		10	7.2	mg/Kg		07/10/23 09:31	07/11/23 10:41	1
Diesel	<3.8		10	3.8	mg/Kg		07/10/23 09:31	07/11/23 10:41	1
Waste Oil	<2.0		10	2.0	mg/Kg		07/10/23 09:31	07/11/23 10:41	1
Total Extractable Hydrocarbons	<3.8		15	3.8	mg/Kg		07/10/23 09:31	07/11/23 10:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	87		12 - 126	07/10/23 09:31	07/11/23 10:41	1

Lab Sample ID: LCS 310-393031/2-A

Matrix: Solid

Analysis Batch: 393127

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 393031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel	133	108		mg/Kg		81	34 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	75		12 - 126

Lab Sample ID: MB 310-393078/1-A

Matrix: Solid

Analysis Batch: 393258

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 393078

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.4		10	7.4	mg/Kg		07/10/23 13:45	07/12/23 11:03	1
Diesel	<3.9		10	3.9	mg/Kg		07/10/23 13:45	07/12/23 11:03	1
Waste Oil	<2.0		10	2.0	mg/Kg		07/10/23 13:45	07/12/23 11:03	1
Total Extractable Hydrocarbons	<3.9		15	3.9	mg/Kg		07/10/23 13:45	07/12/23 11:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	77		12 - 126	07/10/23 13:45	07/12/23 11:03	1

Lab Sample ID: LCS 310-393078/2-A

Matrix: Solid

Analysis Batch: 393258

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 393078

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel	132	109		mg/Kg		82	34 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	93		12 - 126

Lab Sample ID: MB 310-393204/1-A

Matrix: Solid

Analysis Batch: 393409

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 393204

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.3		10	7.3	mg/Kg		07/11/23 13:37	07/13/23 12:33	1

Eurofins Cedar Falls

# QC Sample Results

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

## Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: MB 310-393204/1-A

Matrix: Solid

Analysis Batch: 393409

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 393204

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	<3.9		10	3.9	mg/Kg		07/11/23 13:37	07/13/23 12:33	1
Waste Oil	<2.0		10	2.0	mg/Kg		07/11/23 13:37	07/13/23 12:33	1
Total Extractable Hydrocarbons	<3.9		15	3.9	mg/Kg		07/11/23 13:37	07/13/23 12:33	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	92		12 - 126				07/11/23 13:37	07/13/23 12:33	1

Lab Sample ID: LCS 310-393204/2-A

Matrix: Solid

Analysis Batch: 393409

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 393204

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel	125	115		mg/Kg		92	34 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
n-Octacosane	104		12 - 126				

Lab Sample ID: MB 310-393207/1-A

Matrix: Solid

Analysis Batch: 393407

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 393207

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<7.2		10	7.2	mg/Kg		07/11/23 13:42	07/13/23 12:09	1
Diesel	<3.8		10	3.8	mg/Kg		07/11/23 13:42	07/13/23 12:09	1
Waste Oil	<2.0		10	2.0	mg/Kg		07/11/23 13:42	07/13/23 12:09	1
Total Extractable Hydrocarbons	<3.8		15	3.8	mg/Kg		07/11/23 13:42	07/13/23 12:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	100		12 - 126				07/11/23 13:42	07/13/23 12:09	1

Lab Sample ID: LCS 310-393207/2-A

Matrix: Solid

Analysis Batch: 393407

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 393207

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel	132	104		mg/Kg		79	34 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
n-Octacosane	99		12 - 126				

Eurofins Cedar Falls

# QC Association Summary

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

## GC Semi VOA

### Prep Batch: 393031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-259451-20	23070106-20D SB-10 (25-35)	Total/NA	Solid	3546	
MB 310-393031/1-A	Method Blank	Total/NA	Solid	3546	
LCS 310-393031/2-A	Lab Control Sample	Total/NA	Solid	3546	

### Prep Batch: 393078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-259451-1	23070106-01D SB-1 (0-3)	Total/NA	Solid	3546	
310-259451-2	23070106-02D SB-1 (32-35)	Total/NA	Solid	3546	
310-259451-3	23070106-03D SB-2 (0-3)	Total/NA	Solid	3546	
310-259451-4	23070106-04D SB-2 (32-35)	Total/NA	Solid	3546	
310-259451-5	23070106-05D SB-3 (0-3)	Total/NA	Solid	3546	
310-259451-6	23070106-06D SB-3 (32-35)	Total/NA	Solid	3546	
310-259451-7	23070106-07D SB-4 (0-3)	Total/NA	Solid	3546	
310-259451-8	23070106-08D SB-4 (0-3) Dup	Total/NA	Solid	3546	
310-259451-9	23070106-09D SB-5 (0-3)	Total/NA	Solid	3546	
310-259451-10	23070106-10D SB-5 (15-18)	Total/NA	Solid	3546	
310-259451-11	23070106-11D SB-6 (0-3)	Total/NA	Solid	3546	
310-259451-12	23070106-12D SB-6 (30-35)	Total/NA	Solid	3546	
310-259451-25	23070106-27D SB-4 (32-35)	Total/NA	Solid	3546	
MB 310-393078/1-A	Method Blank	Total/NA	Solid	3546	
LCS 310-393078/2-A	Lab Control Sample	Total/NA	Solid	3546	

### Analysis Batch: 393127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-393031/1-A	Method Blank	Total/NA	Solid	OA-2	393031
LCS 310-393031/2-A	Lab Control Sample	Total/NA	Solid	OA-2	393031

### Prep Batch: 393204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-259451-13	23070106-13D SB-7 (0-3)	Total/NA	Solid	3546	
310-259451-14	23070106-14D SB-7 (12-15)	Total/NA	Solid	3546	
310-259451-15	23070106-15D SB-8 (0-10)	Total/NA	Solid	3546	
310-259451-16	23070106-16D SB-8 (32-35)	Total/NA	Solid	3546	
310-259451-17	23070106-17D SB-9 (2-5)	Total/NA	Solid	3546	
310-259451-18	23070106-18D SB-9 (32-35)	Total/NA	Solid	3546	
310-259451-19	23070106-19D SB-10 (0-3)	Total/NA	Solid	3546	
MB 310-393204/1-A	Method Blank	Total/NA	Solid	3546	
LCS 310-393204/2-A	Lab Control Sample	Total/NA	Solid	3546	

### Prep Batch: 393207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-259451-21	23070106-21D SB-11 (0-3)	Total/NA	Solid	3546	
310-259451-22	23070106-22D SB-11 (27-30)	Total/NA	Solid	3546	
310-259451-23	23070106-23D SB-12 (0-3)	Total/NA	Solid	3546	
310-259451-24	23070106-24D SB-12 (32-35)	Total/NA	Solid	3546	
MB 310-393207/1-A	Method Blank	Total/NA	Solid	3546	
LCS 310-393207/2-A	Lab Control Sample	Total/NA	Solid	3546	

### Analysis Batch: 393258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-259451-1	23070106-01D SB-1 (0-3)	Total/NA	Solid	OA-2	393078

Eurofins Cedar Falls

## QC Association Summary

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

### GC Semi VOA (Continued)

#### Analysis Batch: 393258 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-259451-2	23070106-02D SB-1 (32-35)	Total/NA	Solid	OA-2	393078
310-259451-3	23070106-03D SB-2 (0-3)	Total/NA	Solid	OA-2	393078
310-259451-4	23070106-04D SB-2 (32-35)	Total/NA	Solid	OA-2	393078
310-259451-5	23070106-05D SB-3 (0-3)	Total/NA	Solid	OA-2	393078
310-259451-6	23070106-06D SB-3 (32-35)	Total/NA	Solid	OA-2	393078
310-259451-7	23070106-07D SB-4 (0-3)	Total/NA	Solid	OA-2	393078
310-259451-8	23070106-08D SB-4 (0-3) Dup	Total/NA	Solid	OA-2	393078
310-259451-9	23070106-09D SB-5 (0-3)	Total/NA	Solid	OA-2	393078
310-259451-10	23070106-10D SB-5 (15-18)	Total/NA	Solid	OA-2	393078
310-259451-11	23070106-11D SB-6 (0-3)	Total/NA	Solid	OA-2	393078
310-259451-12	23070106-12D SB-6 (30-35)	Total/NA	Solid	OA-2	393078
310-259451-20	23070106-20D SB-10 (25-35)	Total/NA	Solid	OA-2	393031
310-259451-25	23070106-27D SB-4 (32-35)	Total/NA	Solid	OA-2	393078
MB 310-393078/1-A	Method Blank	Total/NA	Solid	OA-2	393078
LCS 310-393078/2-A	Lab Control Sample	Total/NA	Solid	OA-2	393078

#### Analysis Batch: 393407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-259451-21	23070106-21D SB-11 (0-3)	Total/NA	Solid	OA-2	393207
310-259451-22	23070106-22D SB-11 (27-30)	Total/NA	Solid	OA-2	393207
310-259451-23	23070106-23D SB-12 (0-3)	Total/NA	Solid	OA-2	393207
310-259451-24	23070106-24D SB-12 (32-35)	Total/NA	Solid	OA-2	393207
MB 310-393207/1-A	Method Blank	Total/NA	Solid	OA-2	393207
LCS 310-393207/2-A	Lab Control Sample	Total/NA	Solid	OA-2	393207

#### Analysis Batch: 393409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-259451-13	23070106-13D SB-7 (0-3)	Total/NA	Solid	OA-2	393204
310-259451-14	23070106-14D SB-7 (12-15)	Total/NA	Solid	OA-2	393204
310-259451-15	23070106-15D SB-8 (0-10)	Total/NA	Solid	OA-2	393204
310-259451-16	23070106-16D SB-8 (32-35)	Total/NA	Solid	OA-2	393204
310-259451-17	23070106-17D SB-9 (2-5)	Total/NA	Solid	OA-2	393204
310-259451-18	23070106-18D SB-9 (32-35)	Total/NA	Solid	OA-2	393204
310-259451-19	23070106-19D SB-10 (0-3)	Total/NA	Solid	OA-2	393204
MB 310-393204/1-A	Method Blank	Total/NA	Solid	OA-2	393204
LCS 310-393204/2-A	Lab Control Sample	Total/NA	Solid	OA-2	393204

# Lab Chronicle

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

**Client Sample ID: 23070106-01D SB-1 (0-3)**

**Lab Sample ID: 310-259451-1**

Date Collected: 06/27/23 09:12

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393078	GW4G	EET CF	07/10/23 13:45
Total/NA	Analysis	OA-2		1	393258	C3AA	EET CF	07/12/23 13:58

**Client Sample ID: 23070106-02D SB-1 (32-35)**

**Lab Sample ID: 310-259451-2**

Date Collected: 06/27/23 09:37

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393078	GW4G	EET CF	07/10/23 13:45
Total/NA	Analysis	OA-2		1	393258	C3AA	EET CF	07/12/23 14:13

**Client Sample ID: 23070106-03D SB-2 (0-3)**

**Lab Sample ID: 310-259451-3**

Date Collected: 06/27/23 10:15

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393078	GW4G	EET CF	07/10/23 13:45
Total/NA	Analysis	OA-2		1	393258	C3AA	EET CF	07/12/23 14:28

**Client Sample ID: 23070106-04D SB-2 (32-35)**

**Lab Sample ID: 310-259451-4**

Date Collected: 06/27/23 10:36

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393078	GW4G	EET CF	07/10/23 13:45
Total/NA	Analysis	OA-2		1	393258	C3AA	EET CF	07/12/23 14:43

**Client Sample ID: 23070106-05D SB-3 (0-3)**

**Lab Sample ID: 310-259451-5**

Date Collected: 06/27/23 11:15

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393078	GW4G	EET CF	07/10/23 13:45
Total/NA	Analysis	OA-2		1	393258	C3AA	EET CF	07/12/23 14:58

**Client Sample ID: 23070106-06D SB-3 (32-35)**

**Lab Sample ID: 310-259451-6**

Date Collected: 06/27/23 11:27

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393078	GW4G	EET CF	07/10/23 13:45
Total/NA	Analysis	OA-2		1	393258	C3AA	EET CF	07/12/23 15:13

Eurofins Cedar Falls

# Lab Chronicle

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

**Client Sample ID: 23070106-07D SB-4 (0-3)**

**Lab Sample ID: 310-259451-7**

Date Collected: 06/27/23 13:10

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393078	GW4G	EET CF	07/10/23 13:45
Total/NA	Analysis	OA-2		1	393258	C3AA	EET CF	07/12/23 15:28

**Client Sample ID: 23070106-08D SB-4 (0-3) Dup**

**Lab Sample ID: 310-259451-8**

Date Collected: 06/27/23 13:10

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393078	GW4G	EET CF	07/10/23 13:45
Total/NA	Analysis	OA-2		1	393258	C3AA	EET CF	07/12/23 15:43

**Client Sample ID: 23070106-09D SB-5 (0-3)**

**Lab Sample ID: 310-259451-9**

Date Collected: 06/27/23 14:55

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393078	GW4G	EET CF	07/10/23 13:45
Total/NA	Analysis	OA-2		1	393258	C3AA	EET CF	07/12/23 15:58

**Client Sample ID: 23070106-10D SB-5 (15-18)**

**Lab Sample ID: 310-259451-10**

Date Collected: 06/27/23 15:04

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393078	GW4G	EET CF	07/10/23 13:45
Total/NA	Analysis	OA-2		1	393258	C3AA	EET CF	07/12/23 16:13

**Client Sample ID: 23070106-11D SB-6 (0-3)**

**Lab Sample ID: 310-259451-11**

Date Collected: 06/27/23 15:27

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393078	GW4G	EET CF	07/10/23 13:45
Total/NA	Analysis	OA-2		1	393258	C3AA	EET CF	07/12/23 16:28

**Client Sample ID: 23070106-12D SB-6 (30-35)**

**Lab Sample ID: 310-259451-12**

Date Collected: 06/27/23 15:42

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393078	GW4G	EET CF	07/10/23 13:45
Total/NA	Analysis	OA-2		1	393258	C3AA	EET CF	07/12/23 16:44

Eurofins Cedar Falls



# Lab Chronicle

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

**Client Sample ID: 23070106-13D SB-7 (0-3)**

**Lab Sample ID: 310-259451-13**

Date Collected: 06/28/23 09:18

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393204	GW4G	EET CF	07/11/23 13:37
Total/NA	Analysis	OA-2		1	393409	C3AA	EET CF	07/13/23 17:34

**Client Sample ID: 23070106-14D SB-7 (12-15)**

**Lab Sample ID: 310-259451-14**

Date Collected: 06/28/23 09:38

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393204	GW4G	EET CF	07/11/23 13:37
Total/NA	Analysis	OA-2		1	393409	C3AA	EET CF	07/13/23 17:49

**Client Sample ID: 23070106-15D SB-8 (0-10)**

**Lab Sample ID: 310-259451-15**

Date Collected: 06/28/23 10:25

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393204	GW4G	EET CF	07/11/23 13:37
Total/NA	Analysis	OA-2		1	393409	C3AA	EET CF	07/13/23 18:04

**Client Sample ID: 23070106-16D SB-8 (32-35)**

**Lab Sample ID: 310-259451-16**

Date Collected: 06/28/23 10:47

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393204	GW4G	EET CF	07/11/23 13:37
Total/NA	Analysis	OA-2		1	393409	C3AA	EET CF	07/13/23 13:03

**Client Sample ID: 23070106-17D SB-9 (2-5)**

**Lab Sample ID: 310-259451-17**

Date Collected: 06/28/23 12:45

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393204	GW4G	EET CF	07/11/23 13:37
Total/NA	Analysis	OA-2		1	393409	C3AA	EET CF	07/13/23 13:18

**Client Sample ID: 23070106-18D SB-9 (32-35)**

**Lab Sample ID: 310-259451-18**

Date Collected: 06/28/23 13:10

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393204	GW4G	EET CF	07/11/23 13:37
Total/NA	Analysis	OA-2		1	393409	C3AA	EET CF	07/13/23 13:33

Eurofins Cedar Falls

# Lab Chronicle

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

**Client Sample ID: 23070106-19D SB-10 (0-3)**

**Lab Sample ID: 310-259451-19**

Date Collected: 06/28/23 14:30

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393204	GW4G	EET CF	07/11/23 13:37
Total/NA	Analysis	OA-2		1	393409	C3AA	EET CF	07/13/23 13:48

**Client Sample ID: 23070106-20D SB-10 (25-35)**

**Lab Sample ID: 310-259451-20**

Date Collected: 06/28/23 15:10

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393031	GW4G	EET CF	07/10/23 09:31
Total/NA	Analysis	OA-2		1	393258	C3AA	EET CF	07/12/23 10:18

**Client Sample ID: 23070106-21D SB-11 (0-3)**

**Lab Sample ID: 310-259451-21**

Date Collected: 06/29/23 08:20

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393207	GW4G	EET CF	07/11/23 13:42
Total/NA	Analysis	OA-2		1	393407	C3AA	EET CF	07/13/23 12:39

**Client Sample ID: 23070106-22D SB-11 (27-30)**

**Lab Sample ID: 310-259451-22**

Date Collected: 06/29/23 09:00

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393207	GW4G	EET CF	07/11/23 13:42
Total/NA	Analysis	OA-2		1	393407	C3AA	EET CF	07/13/23 12:54

**Client Sample ID: 23070106-23D SB-12 (0-3)**

**Lab Sample ID: 310-259451-23**

Date Collected: 06/29/23 09:02

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393207	GW4G	EET CF	07/11/23 13:42
Total/NA	Analysis	OA-2		1	393407	C3AA	EET CF	07/13/23 13:24

**Client Sample ID: 23070106-24D SB-12 (32-35)**

**Lab Sample ID: 310-259451-24**

Date Collected: 06/29/23 09:50

Matrix: Solid

Date Received: 07/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393207	GW4G	EET CF	07/11/23 13:42
Total/NA	Analysis	OA-2		1	393407	C3AA	EET CF	07/13/23 13:09

Eurofins Cedar Falls

Lab Chronicle

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Client Sample ID: 23070106-27D SB-4 (32-35)  
Date Collected: 06/27/23 13:23  
Date Received: 07/01/23 09:15

Lab Sample ID: 310-259451-25  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			393078	GW4G	EET CF	07/10/23 13:45
Total/NA	Analysis	OA-2		1	393258	C3AA	EET CF	07/12/23 16:59

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-23

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

## Method Summary

Client: ALS Global  
Project/Site: 23070106

Job ID: 310-259451-1

Method	Method Description	Protocol	Laboratory
OA-2	Iowa - Extractable Petroleum Hydrocarbons (GC)	Iowa DNR	EET CF
3546	Microwave Extraction	SW846	EET CF

### Protocol References:

Iowa DNR = Iowa Department of Natural Resources

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Environment Testing  
America



310-259451 Chain of Custody

### Cooler/Sample Receipt and Temperature Log Form

<b>Client Information</b>			
Client: <u>ALC</u>			
City/State:	CITY <u>KANSAS CITY</u>	STATE <u>MO</u>	Project:
<b>Receipt Information</b>			
Date/Time Received:	DATE <u>7/23</u>	TIME <u>0915</u>	Received By: <u>TD</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
<b>Condition of Cooler/Containers</b>			
Sample(s) received in Cooler?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes: Cooler ID: _____	
Multiple Coolers?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Cooler # _____ of _____	
Cooler Custody Seals Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Which VOA samples are in cooler? ↓	
<b>Temperature Record</b>			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>P</u>		Correction Factor (°C): <u>0.0</u>	
Temp Blank Temperature: If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>3.9</u>		Corrected Temp (°C): <u>3.9</u>	
<b>Sample Container Temperature</b>			
Container(s) used:	CONTAINER 1		CONTAINER 2
Uncorrected Temp (°C):			
Corrected Temp (°C):			
<b>Exceptions/Noted</b>			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
<b>Additional Comments</b>			



Subcontractor  
Eurofins TestAmerica  
3019 Venture Way  
Cedar Falls, IA 50613

TEL. (319) 277-2401  
FAX.  
Acct #

## CHAIN-OF-CUSTODY RECORD

Page 1 of 2

Date **03-Jul-23**  
COC ID **23336**  
Due Date **13-Jul-23**

Salesperson \_\_\_\_\_ ALSHN Account \_\_\_\_\_

Customer Information		Project Information		Parameter/Method Request for Analysis
Purchase Order	23070106	Project Name	23070106	A Subcontracted Analyses (SUBCONTRACT)
Work Order		Project Number		B
Company Name	ALS Group USA Corp	Bill To Company	ALS Group USA, Corp	C
Send Report To	Jodi Blouw	Inv Attn	Accounts Payable	D
Address	3352 128th Ave	Address	3352 128th Ave	E
				F
City/State/Zip	Holland, Michigan 49424	City/State/Zip	Holland, Michigan 49424	G
Phone	(616) 399-6070	Phone	(616) 399-6070	H
Fax	(616) 399-6185	Fax	(616) 399-6185	I
eMail Address	jodi.blouw@alsglobal.com	eMail CC		J

ALS Sample ID	Client Sample ID	Matrix	Collection Date 24hr	Bottle	A	B	C	D	E	F	G	H	I	J
23070106-01D	SB-1 (0-3)	Soil	27/Jun/2023 9:12	(1) 4OZGNEAT	X									
23070106-02D	SB-1 (32-35)	Soil	27/Jun/2023 9:37	(1) 4OZGNEAT	X									
23070106-03D	SB-2 (0-3)	Soil	27/Jun/2023 10:15	(1) 4OZGNEAT	X									
23070106-04D	SB-2 (32-35)	Soil	27/Jun/2023 10:36	(1) 4OZGNEAT	X									
23070106-05D	SB-3 (0-3)	Soil	27/Jun/2023 11 15	(1) 4OZGNEAT	X									
23070106-06D	SB-3 (32-35)	Soil	27/Jun/2023 11 27	(1) 4OZGNEAT	X									
23070106-07D	SB-4 (0-3)	Soil	27/Jun/2023 13.10	(1) 4OZGNEAT	X									
23070106-08D	SB-4 (0-3) Dup	Soil	27/Jun/2023 13.10	(1) 4OZGNEAT	X									
23070106-09D	SB-5 (0-3)	Soil	27/Jun/2023 14 55	(1) 4OZGNEAT	X									
23070106-10D	SB-5 (15-18)	Soil	27/Jun/2023 15 04	(1) 4OZGNEAT	X									
23070106-11D	SB-6 (0-3)	Soil	27/Jun/2023 15.27	(1) 4OZGNEAT	X									
23070106-12D	SB-6 (30-35)	Soil	27/Jun/2023 15 42	(1) 4OZGNEAT	X									
23070106-13D	SB-7 (0-3)	Soil	28/Jun/2023 9:18	(1) 4OZGNEAT	X									
23070106-14D	SB-7 (12-15)	Soil	28/Jun/2023 9:38	(1) 4OZGNEAT	X									

### Comments:

Please analyze these samples per our instructions and indicated turnaround requirements. Please include all QC with data. The samples do not need to be returned and can be disposed after 30 days.

Relinquished by	Date/Time	Received by	Date/Time	Cooler IDs	Report/QC Level
					Std
Relinquished by	Date/Time	Received by	Date/Time		



Subcontractor  
Eurofins TestAmerica  
3019 Venture Way  
Cedar Falls, IA 50613

TEL. (319) 277 2401  
FAX:  
Acct #

## CHAIN-OF-CUSTODY RECORD

Page 2 of 2

Date **03-Jul-23**  
COC ID **23336**  
Due Date **13-Jul-23**

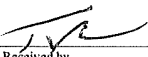
Salesperson **ALSHN Account**

Customer Information		Project Information		Parameter/Method Request for Analysis
Purchase Order	23070106	Project Name	23070106	A Subcontracted Analyses (SUBCONTRACT)
Work Order		Project Number		B
Company Name	ALS Group USA, Corp	Bill To Company	ALS Group USA, Corp	C
Send Report To	Jodi Blouw	Inv Attn	Accounts Payable	D
Address	3352 128th Ave	Address	3352 128th Ave	E
				F
City/State/Zip	Holland, Michigan 49424	City/State/Zip	Holland, Michigan 49424	G
Phone	(616) 399-6070	Phone	(616) 399-6070	H
Fax	(616) 399-6185	Fax	(616) 399-6185	I
eMail Address	jodi.blouw@alsglobal.com	eMail CC		J

ALS Sample ID	Client Sample ID	Matrix	Collection Date 24hr	Bottle	A	B	C	D	E	F	G	H	I	J
23070106-15D	SB-8 (0-10)	Soil	28/Jun/2023 10:25	(1) 4OZGNEAT	X									
23070106-16D	SB-8 (32-35)	Soil	28/Jun/2023 10:47	(1) 4OZGNEAT	X									
23070106-17D	SB-9 (2-5)	Soil	28/Jun/2023 12:45	(1) 4OZGNEAT	X									
23070106-18D	SB-9 (32-35)	Soil	28/Jun/2023 13:10	(1) 4OZGNEAT	X									
23070106-19D	SB-10 (0-3)	Soil	28/Jun/2023 14:30	(1) 4OZGNEAT	X									
23070106-20D	SB-10 (25-35)	Soil	28/Jun/2023 15:10	(1) 4OZGNEAT	X									
23070106-21D	SB-11 (0-3)	Soil	29/Jun/2023 8:20	(1) 4OZGNEAT	X									
23070106-22D	SB-11 (27-30)	Soil	29/Jun/2023 9:00	(1) 4OZGNEAT	X									
23070106-23D	SB-12 (0-3)	Soil	29/Jun/2023 9:26	(1) 4OZGNEAT	X									
23070106-24D	SB-12 (32-35)	Soil	29/Jun/2023 9:50	(1) 4OZGNEAT	X									
23070106-27D	SB-4(32-35)	Soil	27/Jun/2023 13:23	(1) 4OZGNEAT	X									

### Comments:

Please analyze these samples per our instructions and indicated turnaround requirements. Please include all QC with data. The samples do not need to be returned and can be disposed after 30 days.

Relinquished by	Date/Time	Received by 	Date/Time <b>7-12-23 09:15</b>	Cooler IDs	Report/QC Level
					<b>Std</b>
Relinquished by	Date/Time	Received by	Date/Time		



## Login Sample Receipt Checklist

Client: ALS Global

Job Number: 310-259451-1

**Login Number: 259451**

**List Source: Eurofins Cedar Falls**

**List Number: 1**

**Creator: Homolar, Dana J**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Chain of Custody Form

ALS Group USA, Corp

Work Order

Company Name	Tetra Tech	Purchase Order		Parameter/Method Request for Analysis	
Send Report To	Emily Fisher	Company Name	Tetra Tech	A	VOCs Low Lev
Project Name		Invoice Attn	Accounts Payable	B	PCBs
Address	415 Oak Street	Project #		C	SVOCs
City/State/Zip	Kansas City, MO 64106	Address	415 Oak Street	D	Metals ICP-MS
Phone	8164121755	City/State/Zip	Kansas City, MO 64106	E	TEH OA-2
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
1	SB-1 (0-3)	6/27/23	0912	SL	a	8	X	X	X	X	X					
2	SB-1 (32-35)		0937				X	X	X	X	X					
3	SB-2 (0-3)		1015				X	X	X	X	X					
4	SB-2 (32-35)		1036				X	X	X	X	X					
5	SB-3 (0-3)		1115				X	X	X	X	X					
6	SB-3 (32-35)		1127				X	X	X	X	X					
7	SB-4 (0-3)		1310				X	X	X	X	X					
8	SB-4 (0-3) DUP		1310				X	X	X	X	X					
9	SB-4 (32-35)		1323				X	X	X	X	X					
10	SB-5 (0-3)		1455				X	X	X	X	X					

23070106

TETRA TECH - 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: <input checked="" type="checkbox"/> Std 10 Wk days <input type="checkbox"/> 5 Wk days <input type="checkbox"/> 2 Wk days <input type="checkbox"/> 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	NOTES: TEH samples sent to Envirofins directly due to upcoming holiday.			
<i>[Signature]</i>	6/30/23	1800	Fedex			QC Reporting Level: (check box below)			
Fedex	7/1/23	1000	Karlyn Phillips	7/1/23	1000	Level II: Standard QC		Other: IR3 2.3°C	
						Level III: Std QC + Raw data			
						Level IV: SW846 CLP-Like			



# Chain of Custody Form

ALS Group USA, Corp

Work Order

Company Name	Tetra Tech	Purchase Order		Parameter/Method Request for Analysis	
Send Report To	Emily Fisher	Company Name	Tetra Tech	A	VOCs Low Lev
Project Name		Invoice Attn	Accounts Payable	B	PCBs
Address	415 Oak Street	Project #		C	SVOCs
City/State/Zip	Kansas City, MO 64106	Address	415 Oak Street	D	Metals ICP-MS
Phone	8164121755	City/State/Zip	Kansas City, MO 64106	E	TEH OA-2
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
1	SB-5(15-18)	6/27/23	1504	SL	a	8	X	X	X	X	X				
2	SB-6(0-3)	1	1527				X	X	X	X	X				
3	SB-6(30-35)	1	1542				X	X	X	X	X				
4	SB-7(0-3)	6/28/23	0918				X	X	X	X	X				
5	SB-7(12-15)	1	0938				X	X	X	X	X				
6	SB-8(0-10)	1	1025				X	X	X	X	X				
7	SB-8(32-35)	1	1047				X	X	X	X	X				
8	SB-9(2-5)	1	1245				X	X	X	X	X				
9	SB-9(32-35)	1	1310				X	X	X	X	X				
10	SB-10(0-3)	1	1430				X	X	X	X	X				

23070106

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: <input checked="" type="checkbox"/> Std 10 Wk days <input type="checkbox"/> 5 Wk days <input type="checkbox"/> 2 Wk days <input type="checkbox"/> 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	NOTES:			
<i>[Signature]</i>	6/30/23	1800	Fedex						
Fedex	7/1/23	1000	Karoly J. J. J.	7/1/23	1000				
						QC Reporting Level: (check box below)			
						Level II: Standard QC		Other: IR3 2.3°C	
						Level III: Std QC + Raw data			
						Level IV: SW846 CLP-Like			



# Chain of Custody Form

ALS Group USA, Corp

Work Order

Company Name	Tetra Tech	Purchase Order		Parameter/Method Request for Analysis	
Send Report To	Emily Fisher	Company Name	Tetra Tech	A	VOCs Low Lev
Project Name		Invoice Attn	Accounts Payable	B	PCBs
Address	415 Oak Street	Project #		C	SVOCs
City/State/Zip	Kansas City, MO 64106	Address	415 Oak Street	D	Metals ICP-MS
Phone	8164121755	City/State/Zip	Kansas City, MO 64106	E	TEH OA-2
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	Notes
1	SB-10 (25-35)	6/28/23	1510	SL	9	8	X	X	X	X	X		
2	SB-11 (0-3)	6/29/23	0820				X	X	X	X	X		
3	SB-11 (27-30)		0900				X	X	X	X	X		
4	SB-12 (0-3)		0926				X	X	X	X	X		
5	SB-12 (32-35)		0950				X	X	X	X	X		
6	Trip Blank		1000			5	X						
7	trip Blank		1000			5	X						
8													
9													
10													



Notes: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.						Required Turnaround Time: <input checked="" type="checkbox"/> Std 10 Wk days <input type="checkbox"/> 5 Wk days <input type="checkbox"/> 2 Wk days <input type="checkbox"/> 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	NOTES:	
		6/30/23	1800	Fedex			QC Reporting Level: (check box below)	
	Fedex	7/1/23	1000	Karley Phillips	7/1/23	1000	Level II: Standard QC	
							Level III: Std QC + Raw data	
							Level IV: SW846 CLP-Like	
							Other: 423 2.3C	

Sample Receipt Checklist

Client Name: **TETRATECH - MO**

Date/Time Received: **01-Jul-23 10:00**

Work Order: **23070106**

Received by: **KYB**

Checklist completed by Karly Vablonski 03-Jul-23  
eSignature Date

Reviewed by: Jodi Blauw 03-Jul-23  
eSignature 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 type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" 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>2.3/3.3C</u>	<u>IR3</u>	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>7/3/2023 12:49:10 PM</u>		
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:			

Login Notes:

-----

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



## DATA VERIFICATION REPORT

**Prepared by:** Ellen McEntee  
**Date:** July 28, 2023  
**Site Name/Job Number:** Boys and Girls Home / 103G65210190.17.03  
**Laboratory:** ALS Environmental – Cincinnati, OH  
**Data Package or SDG Number:** 23061379  
**Sample Designations/Names (ID):**

SG-1	SG-2	SG-3	SG-4
SG-5	SG-6	SG-7	SG-8
SG-9	SG-10	SG-11	SG-12

**Matrices:** Soil Gas  
**Analytical Parameters:** Volatile Organic Compounds (VOCs) by TO-15

Data Package Element	Usable	Rejected	NA	Description of Affected Data (note specific samples and analytical parameters affected)
Chain of custody	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The chain of custody form was complete and the requested analyses were performed. Custody seals were not present on the shipping container. Results were not qualified.
Data package completeness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All appropriate elements are included.
Sample preservation, storage, and holding times	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Samples were received at the laboratory at ambient temperature. All holding times were met.
Method and field blank contamination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Target analytes were not detected in the method blanks.
Surrogate spikes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The surrogate was above the acceptance limit for SG-1, SG-2, SG-3, SG-4, SG-5, and SG-9. The detected results for these samples were qualified as estimated, with possible high bias (flagged J+).
Matrix spikes/matrix spike duplicates (MS/MSD)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MS/MSDs are not required for this method. The LCS indicates the instrument was in control.
Laboratory control samples/Laboratory control sample duplicates (LCS/LCSD)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>LCS-R218578:</b> The LCS recovery was below the acceptance limit for bromomethane. Bromoform in this LCS was not associated with the field samples; therefore, results were not qualified. An LCSD was not analyzed; therefore, a measure of precision is not available.
Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The result for acetone in sample SG-1 exceeded the calibration range. The result was qualified as estimated (flagged J).
<b>Summary</b> The data is usable as qualified during data validation.				

## DATA VERIFICATION REPORT

**Prepared by:** Ellen McEntee  
**Date:** July 28, 2023  
**Site Name/Job Number:** Boys and Girls Club / 103G65210190.17.03  
**Laboratory:** ALS Group Holland, MI and Eurofins Cedar Falls, IA

**Data Package or SDG Number:** 23070106

**Sample Designations/Names:**

SB-1 (0-3)	SB-1 (32-35)	SB-2 (0-3)	SB-2 (32-35)	SB-3 (0-3)	SB-3 (32-35)
SB-4 (0-3)	SB-4 (0-3) Dup	SB-4 (32-35)	SB-5 (0-3)	SB-5 (15-18)	SB-6 (0-3)
SB-6 (30-35)	SB-7 (0-3)	SB-7 (12-15)	SB-8 (0-10)	SB-8 (32-35)	SB-9 (2-5)
SB-9 (32-35)	SB-10 (0-3)	SB-10 (25-35)	SB-11 (0-3)	SB-11 (27-30)	SB-12 (0-3)
SB-12 (32-35)	Trip Blank	Trip Blank			

**Matrices:** Soil

**Analytical Parameters:** Metals by EPA Methods 6020B/7471B, SVOCs by EPA Method 8270E, VOCs by EPA Method 8260D, and TEH by Iowa DNR Method OA-2

Data Package Element	Usable	Rejected	NA	Description of Affected Data (note specific samples and analytical parameters affected)
Chain of custody	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The chain of custody forms were completed appropriately. Custody seals were not present on the sample containers or shipping containers. Results were not qualified.
Data package completeness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The data package contains all the required elements with the following exceptions. PCB analysis was requested on the chain of custody; however, results were not reported. It was confirmed with the project manager that the PCB analysis was cancelled. In addition, the results for TEH were not included in the electronic data deliverable (EDD).
Sample preservation, storage, and holding times	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The samples were received on 07/01/2023 and arrived in good condition. All sample holding times were met.

Data Package Element	Usable	Rejected	NA	Description of Affected Data (note specific samples and analytical parameters affected)
Method and field blank contamination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>MBLK-219477-219477:</b> Thallium was detected in the method blank at a concentration greater than the method detection limit (MDL) but less than the reporting limit (RL). The results for thallium in samples SB-1 (0-3) and SB-2 (0-3) are greater than the RL but less than ten times the blank result and were qualified as estimated, with possible high bias (flagged J+). The results for thallium in samples SB-1 (32-35), SB-2 (32-35), SB-3 (0-3), SB-3 (32-35), SB-4 (0-3), SB-4 (0-3) Dup, SB-5 (0-3), SB-5 (15-18), SB-6 (0-3), and SB-6 (30-35) are greater than the MDL but less than the RL and were qualified as non-detect (flagged U) at the RL.</p> <p><b>MBLK-219480-219480:</b> Iron was detected in the method blank at a concentration greater than the MDL but less than the RL. The associated results for iron are greater than ten times the blank concentration and were not qualified.</p>
Surrogate spikes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Method 8270E:</b> The surrogate recovery for 2,4,6-tribromophenol in samples SB-2 (0-3), SB-8 (0-10), and SB-4 (32-35); 2,4,6-tribromophenol and 2-fluorophenol in sample SB-8 (32-35), 2,4,6-tribromophenol, 2-fluorophenol, and phenol-d6 in sample SB-11 (27-30), and 2,4,6-tribromophenol and 4-terphenyl-d14 in sample SB-12 (32-35) were below the acceptance limit. The results for the acid-fraction compounds (2,3,4,6-tetrachlorophenol, 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, 2,4-dichlorophenol, 2,4-dimethylphenol, 2,4-dinitrophenol, 2-chlorophenol, 2-methylphenol, 2-nitrophenol, 3&amp;4-methylphenol, 4,6-dinitro-2-methylphenol, 4-chloro-3-methylphenol, 4-nitrophenol, pentachlorophenol, and phenol) in samples SB-2 (0-3), SB-8 (0-10), SB-4 (32-35), SB-8 (32-35), and SB-11 (27-30) are non-detects and were qualified as estimated (flagged UJ). The results for all analytes for sample SB-12 (32-35) were qualified as estimated, with low bias (flagged J-/UJ).</p>



Data Package Element	Usable	Rejected	NA	Description of Affected Data (note specific samples and analytical parameters affected)
Matrix spikes/matrix spike duplicates (MS/MSD)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Metals SB-4 (0-3):</b> The average MS/MSD recoveries for antimony, arsenic, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, potassium, selenium, silver, sodium, and thallium were below the acceptance limit. The parent sample results are detects and were qualified as estimated, with possible low bias (flagged J-).</p> <p><b>Metals SB-6 (30-35):</b> The average MS/MSD recovery for antimony, arsenic, cadmium, copper, lead, nickel, selenium, and silver were below the acceptance limit and vanadium was above the acceptance limit. The parent sample result for antimony, arsenic, cadmium, copper, lead, nickel, selenium, and silver were qualified as estimated, with possible low bias (flagged J-/UJ) and vanadium was qualified as estimated, with possible high bias (flagged J+). The MS/MSD relative percent difference (RPD) was above the acceptance limit for cobalt. The detected result was qualified as estimated (flagged J).</p> <p><b>Metals SB-4(32-35):</b> The average MS/MSD recoveries for antimony, cadmium, copper, nickel, and selenium were below the acceptance limit, and potassium and vanadium were above the acceptance limit. The parent sample results for antimony, cadmium, copper, nickel, and selenium are detects and were qualified as estimated, with possible low bias (flagged J-). The results for potassium and vanadium are detects and were qualified as estimated, with possible high bias (flagged J+). The MS/MSD RPD for selenium was above the acceptance limit. The parent sample result was qualified as estimated (flagged J).</p> <p><b>SVOCs SB-2 (0-3):</b> The average recovery for 2,4-dimethylphenol and 2-methylphenol were below the acceptance limit. The parent sample results are non-detects and were qualified as estimated (flagged UJ).</p> <p>MS/MSD recoveries and RPDs were not assessed for spikes with a parent sample concentration greater than four times the spike concentration.</p> <p>MS/MSDs from other data packages were not assessed.</p>
Laboratory control samples/Laboratory control sample duplicates (LCS/LCSD)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Data Package Element	Usable	Rejected	NA	Description of Affected Data (note specific samples and analytical parameters affected)
Other:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Field Duplicates</b>  <b>SB-4 (0-3)/SB-4 (0-3) Dup:</b> The precision criteria were not met for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, pyrene, cadmium, chromium, cobalt, copper, iron, nickel, and zinc. The results in the parent sample and field duplicate were qualified as estimated (flagged J/UJ).</p> <p>The results for TEH in samples SB-1 (0-3), SB-3 (0-3), SB-5 (0-3), SB-5 (15-18), SB-6 (30-35), SB-7 (0-3), SB-7 (12-15), SB-8 (0-10), SB-10 (0-3), and SB-12 (0-3) were flagged “Z” by the laboratory because the chromatogram did not resemble a typical fuel pattern. These results were qualified as estimated (flagged J) during data validation.</p>
<p><b>Summary</b>  All data is usable as qualified based on the findings for this validation effort.</p>				