

**EL PASO WATER UTILITIES  
PUBLIC SERVICE BOARD****ADDENDUM NO. 1****FOR****BOONE INTERCEPTOR REPLACEMENT PHASE 2A****BID NO. 05-23****APRIL 11, 2023**

In accordance with the Instruction to Bidders of the Contract Documents, the following revision to the Plans and/or Specifications shall become part of the Contract Documents and the Bidders shall acknowledge receipt thereof on their Bid Proposal.

**EL PASO WATER UTILITIES****BROWN AND CALDWELL**

Robert L. Davidson  
Contract Construction Administrator\*  
April 11, 2023



THE SEAL APPEARING ON THIS DOCUMENT  
WAS AUTHORIZED BY FERNANDO SILVA,  
P.E. 96157 ON APRIL 11, 2023

Fernie Silva, P.E.  
Project Manager  
April 11, 2023

\*The EPWater representative's signature certifies that this Document shall become part of the Contract Documents for the referenced project. The signature is not a representation that the content of this document is technically correct.

Receipt of this Addendum must be acknowledged in writing to El Paso Water Utilities as required by the bid documents.

**BID MILESTONES – No Changes**

**BID ADVERTISEMENT – No Changes**

**VOLUME 1 – CONTRACT DOCUMENTS**

**BIDDING REQUIREMENTS, CONTRACT FORMS, AND CONDITIONS OF THE CONTRACT**

AD-1.01. SECTION 00800 – SUPPLEMENTARY CONDITIONS

- A. Section 5.03, SC 5.03.E, DELETE the report reference Table and replace with the following Table. This deletes the reference to the GBR and includes a reference to the Limited Phase II Environmental Site Assessment. This document is attached to this Addendum 1.

<b>Report Title</b>	<b>Date of Report</b>	<b>Technical Data</b>
General Geotechnical Subsurface Soil Evaluation Report – EPWater Boone Interceptor Replacement Phase II Project – Route Study and Design	July 17, 2020	Subsurface Soils Evaluation
Limited Phase II Environmental Site Assessment – Boone Siphon System Sanitary Sewer Improvements	April 2023	Subsurface environmental conditions

**TECHNICAL SPECIFICATIONS – No Changes**

**VOLUME 2 – DRAWINGS – No Changes**

## **SUBMITTED QUESTIONS AND ANSWERS**

The following are answers to questions that were received prior to the cutoff date for questions.

Q-1.01. Will the stop log only see unseating head conditions?

A-1.01. No, the stop logs could potentially see both seating and unseating head conditions.

Q-1.02. How many feet of head?

A-1.02. The existing 36-inch sewer line is a siphon. The hydraulic grade line at the upper end is approximately 3717 (coming into the Junction Box) and the level in the Junction Box is approximately 3705.

Q-1.03. According to plan sheet C-210, the guide frame extends all the way to the top of the concrete wall in the junction box; however, there is no indication of how tall the stop logs should stack up to. Please provide the overall height for the stop logs themselves.

A-1.03. The stop logs need to isolate the incoming 36-inch sewer incoming and outgoing. Since the hydraulic level in the Junction Box is approximately 1 foot below the top of the concrete structure, the stop logs must extend to the top of the structure (from invert 3682 to elevation 3706 or if the guide is easily installed with a lower frame, from elevation 3685 to 3706).

Q-1.04. • Is there a preference on the size of each individual stop log?

A-1.04. The stop logs size is at the supplier's discretion. Each stop log should be manageable by minimal Plant staff and per the proposed log lifter and appurtenances. Product is to be utilized in an active wastewater plant.

## **ATTACHMENTS:**

Attachment No. 1.01 – Limited Phase II Environmental Site Assessment – Boone Siphon System Sanitary Sewer Improvements dated April 2023.

Addendum No. 1, pages 1 through 3 and attachment, shall become part of the Contract and all provisions of the Contract shall apply thereto. The time provided for completion of the Contract **is not** changed. Bidders shall acknowledge receipt of all Addenda by number in the space provided in the Proposal.

**\*\*\*END OF ADDENDUM NO. 1\*\*\***

**LIMITED  
PHASE II ENVIRONMENTAL SITE ASSESSMENT**

**Boone Siphon System Sanitary Sewer Improvements**

**El Paso, County of El Paso, Texas**

Prepared for:

**Brown & Caldwell**  
El Paso, Texas

Prepared by:



**1000 Newman Street  
El Paso, Texas 79902**

**Project No. B&C-22-01  
April 3, 2023**

April 3, 2023  
B&C-22-01



Mr. Fernie Silva, P.E.  
Managing Engineer  
Brown and Caldwell  
1200 Golden Key Circle, Suite 430  
El Paso, TX 79925

**RE: Limited Phase II Environmental Assessment  
Boone Siphon System Sanitary Sewer Improvements Project  
El Paso, County of El Paso, Texas**

Dear Mr. Silva,

**ESSCO Environmental, Inc. (ESSCO)** is pleased to present this Phase II Environmental Site Assessment for the Boone Siphon System Sanitary Sewer Improvements Project located in the southern portion of the City of El Paso, County of El Paso, Texas.

The intent and scope of work presented herein were to evaluate potential residual environmental impacts from historical land use on the property. The scope of services was developed partly on the information presented in boring logs from previous subsurface geotechnical evaluations and applicable Phase II Environmental Site Assessment guidance documents (i.e., ASTM-1903). This report does not include a comprehensive evaluation across the entire property but only an evaluation of the subsurface conditions at discreet locations, as established in an authorized scope of services, and may not provide adequate information for other purposes. This report was prepared on behalf of Brown & Caldwell (B&C) and may not be used by others without written permission from B&C and **ESSCO**.

We want to thank you for the opportunity to provide you with our professional services, and if you have any questions or require additional information, please feel free to contact us at 915-533-1102.

Sincerely,

Zakk Holguin, G.I.T.  
Project Geologist



Johanes Makahaube, Ph.D., P.E..  
Senior Engineer/Associate



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**APPENDIX I - PHOTOGRAPHIC DOCUMENTATION**

**APPENDIX II – REPORT ON CHEMICAL ANALYSIS AND CHAIN-OF-CUSTODY**

**APPENDIX III – SUMMARY OF ANALYTICAL RESULTS & BORING PLAN - LIMITED  
ESA II - MAY 2020**



## 1.0 EXECUTIVE SUMMARY

Brown and Caldwell, L.L.C. (B&C) engaged **ESSCO Environmental, Inc. (ESSCO)** to conduct a Limited Phase II Environmental Site Assessment (ESA-II) on the property described as portions of Tobin Place street at the Burleson Elementary School, the parking north of the Jimmy Ochoa Baseball Field, the parking area along Shelter Place, portions of Delta Drive along the Haskell Wastewater Treatment Plant frontage, and at the entrance to the International Water Laboratory – Haskell Wastewater Treatment Plant in the southern portion of the City of El Paso, El Paso County, Texas, subsequently referred hereon as the Project Site. This assessment was prepared in accordance with the American Society of Testing and Materials (ASTM) Standard Practices for Environmental Site Assessments: Phase II ESA Processes (ASTM Designation E1903-11) with consideration of findings obtained from a previous ESA-II conducted at the Project Site.

The purpose of this ESA-II was to evaluate further the Recognized Environmental Conditions (RECs) observed in the previous Limited ESA-II on May 2020 to provide sufficient information regarding the nature and extent of potential environmental impacts and to assist in making informed decisions about the Project Site concerning proposed subsurface construction activities and worker protection. In the May 2020 Limited ESA-II, four subsurface soil borings were extended to fifteen (15) feet below the existing ground surface. One boring was terminated at a depth of two (2) feet due to auger refusal.

In the May 2020 Limited ESA-II, two borings (SB3 and SB5) exhibited Lead concentrations exceeding Texas Specific Background Soil Concentrations, and one boring (SB3) exhibited Mercury concentrations exceeding TCEQ Protective Concentrations for Residential Soil. TPH concentrations in two borings (SB1 and SB3) exceed TCEQ Actions Levels generally used as a guide to trigger additional evaluation.

Specifically, this ESA-II was conducted to evaluate potential environmental impacts under the Project Site resulting from the historical land use of the Project Site and minor project alignment modification. The Scope of Services included the following:

- Environmental observation during the installation of twenty (20) subsurface soil borings to a depth of approximately 15 feet below ground surface (bgs) and collecting representative soil samples for environmental chemical analysis of potential regulated chemicals of concern from selected boring locations on the Project Site.
- Evaluate and interpret analytical data, prepare a report summarizing findings, and present recommendations, as necessary.

Based on the field activities and analytical chemical results, the following conclusions are presented for the Project Site:

- The data gathered during this assessment is sufficient to determine whether hazardous substances or petroleum impacts are present on the Project Site.
- Collectively, analytical sampling data and field observations made in conjunction with sampling activities indicate environmental impacts to the shallow subsurface soils are present over the Project Site, with one boring (SB-13 @ 5 feet bgs) exhibiting Arsenic concentrations exceeding Texas Specific Background Soil Concentrations and one boring





(SB-16 @ 5 feet bgs) exhibiting Lead concentrations exceeding TCEQ Protective Concentrations for Residential and Commercial Soil.

- Sample from Boring SB-16 @ 5 feet bgs was submitted for TCLP analysis after exhibiting Lead concentrations above both Commercial and Residential PCLs, which resulted in leaching potential below the method detection limit (<0.0184 mg/L.).
- The Limited Human Health Risk Assessment (HHRA) performed by PSI yielded no indication that the Project Site posed any immediate carcinogenic or non-carcinogenic health risks to construction workers exposed to soils encountered during construction activities within the Project Site.
- Comparing the analytical results of the two Limited ESAs from 2020 and 2022, the RCRA 8 Metals analytical results from 2022 exhibited similar characteristics to those from 2020. This finding may indicate that the site exhibits residual environmental impacts from historical land use.
- Additionally, the TPH analytical results from 2020 are significantly higher than those from 2022 at two boring locations, SB1 and SB3, at depths ranging from 2.5 ft to 5 ft. These two boring locations are in the parking area at Shelter Place Road. A review of the historical aerial map indicated that the parking area has existed for more than 30 years.
- Due to construction debris and discolored soils observed at depth, **ESSCO** believes that the soils were impacted prior to the construction of the parking lot; however, the historical use as a parking area may have increased TPH levels in the surface soils.

Based on the results of this assessments field activity and analytical analysis, **ESSCO** believes the following recommendations are warranted:

- Proper personal hygiene (washing hands and face and restriction eating in the work area) and dust control methods should be implemented during the subsurface construction activities.
- When conducting excavation activities within the Project Site, contractors should be aware that potential environmental concerns may exist in areas not directly assessed in this ESA-II. Upon discovering potential environmental concerns, excavation activities should be halted, and an environmental professional should be contacted.
- Any unearthed suspected landfill debris that contains asbestos-containing materials (ACMs) (i.e., roof tile, drywall, etc.) be inspected for ACMs before disposal, and proper precautions be taken by construction workers.

Additionally, the results of the Limited HHRA suggest the following measures should be implemented during excavation activities:

- Ambient air monitoring in the vicinity of site workers should be conducted using a photoionization detector (PID) and dust meter. Action levels of 5 parts per million of volatile organic compounds (VOCs) for PID measurements and 5 milligrams per cubic meter of



respirable dust for dust monitoring should be used as screening thresholds for the implementation of site controls.

- If air monitoring action limits are exceeded, mitigation measures such as ventilation (for VOCs measured by PID) or dust control (for metals indicated by dust) should be instituted until air readings are acceptable. If the referenced action levels are exceeded, personal exposure monitoring should be conducted to verify that working conditions remain below occupational exposure limits.
- If air measurements cannot be maintained below action limits or unsafe conditions are encountered in the soils, work should stop, and appropriate actions should be conducted to control exposure to identified conditions.

This Executive Summary is provided solely for an overview. It is not meant to be relied upon as the primary source of information regarding the attached Limited Phase II Environmental Site Assessment, including attachments.



## 2.0 INTRODUCTION

Brown and Caldwell, L.L.C. (B&C)) engaged **ESSCO Environmental, Inc. (ESSCO)** to conduct a Limited Phase II Environmental Site Assessment (ESA-II) on the property described as portions of Tobin Place street at the Burluson Elementary School, the parking north of the Jimmy Ochoa Baseball Field, the parking area along Shelter Place, portions of Delta Drive along the Haskell Wastewater Treatment Plant frontage, and at the entrance to the International Water Laboratory – Haskell Wastewater Treatment Plant in the southern portion of the City of El Paso, El Paso County, Texas, subsequently referred hereon as the Project Site. This assessment was prepared in general accordance with the American Society of Testing and Materials (ASTM) Standard Practices for Environmental Site Assessments: Phase II ESA Processes (ASTM Designation E1903-11) with consideration of findings obtained from a previous ESA-II conducted at the Project Site.

### 2.1. Purpose

The purpose of the ESA-II was to evaluate the Recognized Environmental Conditions (RECs) observed in previous geotechnical borings, specifically discolored soils, to provide sufficient information regarding the nature and extent of potential environmental impacts, and to assist in making informed decisions about the Project Site concerning proposed subsurface construction activities and worker protection.

### 2.2. Scope of Services

This ESA-II was conducted to evaluate potential environmental impacts resulting from the historical use of the Project Site. Specifically, the scope of services consisted of the following tasks:

- Further evaluate the extent of potential environmental impacts resulting from historical land use at the Project Site.
- Conduct environmental observation during the installation of twenty (20) subsurface soil borings to a depth of approximately 15 feet below ground surface (bgs) and the collection of three (3) representative soil samples for environmental chemical analysis of potential regulated chemical of concern from each boring locations on the Project Site.
- Conduct a limited Human Health Risk Assessment (HHRA).
- Evaluate and interpret analytical data, prepare a report summarizing findings, and present recommendations, as necessary.

### 2.3. Special Terms and Conditions

The findings and conclusions presented in this report apply only to the REC(s) assessed and did not include the evaluation of additional areas of concern not explicitly detailed in the approved proposal or that may have been encountered during the field exploration activities unless expressly indicated and approved by the Client.



## **2.4. Limitations and Exceptions of Assessment**

The work performed during the preparation of this report has been prepared in accordance with generally accepted environmental methodologies referred to in ASTM 1903-11 and with the degree of skill and care ordinarily exercised under similar conditions by reputable members of the profession practicing in the region and contains all of the limitations inherent in these methodologies. No other warranties, expressed or implied, are made as to the professional services provided under the terms of our contract and included within this ESA-II report.

## **2.5. Limiting Conditions and Methodologies Used**

No Environmental Site Assessment can eliminate all uncertainty. Furthermore, any sample, surface or subsurface, collected for chemical analysis may or may not represent a larger population. Professional judgment and interpretation are inherent in the process, and uncertainty is an inevitable portion of the development and conducting of an ESA-II.

Even when an ESA-II is executed with the appropriate site-specific standard of care, certain conditions and uncertainties remain. Such conditions may include but are not limited to complex geological settings, the fate and transport characteristics of certain hazardous substances and petroleum products, the distribution of existing contamination, physical limitations imposed by the location of utilities and other anthropogenic objects, and the limitation of assessment technologies. Additional assessment areas and levels may reduce the uncertainty inherent in an ESA-II.

Phase II ESA's do not generally require an exhaustive assessment of environmental conditions on a property. There is a median at which the cost of information obtained and the time required to obtain it outweigh the usefulness and may be a material detriment to the orderly completion of transactions. Suppose hazardous substances or petroleum releases are confirmed on a parcel of property. In that case, the extent of further assessment is related to the degree of uncertainty acceptable to the user concerning the use of the report (i.e., real estate transaction).

Measurement and sampling data represent a limited inquiry into site conditions at discreet locations and at the time of data collection only. Therefore, the usability of data collected as part of this ESA-II may have a finite lifetime depending on the application and use of the data. The evaluation includes an opinion on the existence of regulated environmental contamination (e.g., hazardous substances) by environmental professionals based on field observations and results of laboratory analyses at discreet locations only. The findings and conclusions presented are based upon the limited information obtained, experience on similar projects, and professional judgment under generally accepted industry practices. An environmental professional should evaluate whether the generated data is appropriate for subsequent use beyond the original purpose for which it was collected.



### 3.0 BACKGROUND

#### 3.1. Site Description and Features

The Project Site was observed as portions of Tobin Place Burlison Elementary School, the parking north of the Jimmy Ochoa Baseball Field, the parking area along Shelter Place, portions of Delta Drive along the Haskell Wastewater Treatment Plant frontage, and at the entrance to the International Water Laboratory/Haskell Wastewater Treatment plant. **ESSCO** was provided with boring logs of previous geotechnical exploration by the Center for Quality Control (CQC) that identified discolored soils in the vicinity of the Project Site subsurface; CQC identified the locations of the targeted areas and boring locations.

The Site Plan Map (**Attachment I - Figure 2**) represents the Project Site and pertinent information, and the Site Boring Map (**Attachment I - Figure 3**) represents boring locations provided by CQC (B-1 thru B-5) and subsequent borings installed by **ESSCO** (SB-1 thru SB-20).

#### 3.2. Summary of Previous Assessments (Limited ESA-II 2020)

**CQC retained ESSCO** in May 2020 to collect environmental samples and prepare an ESA-II with geotechnical boring logs from this location. Five soil borings were drilled to a maximum depth of 15 feet bgs (see Appendix III), and notable discoloration of soil in borings was observed.

Based on the field activities and analytical chemical results of this assessment, environmentally impacted subsurface soils were identified in the areas evaluated exhibiting concentrations of reportable chemicals and metals above applicable or relevant levels considered protective of human health or specific background concentrations. In particular, the analytical testing indicates three samples containing Petroleum Hydrocarbons exceeding the TCEQ RG-411 Action Level are present, and the concentration of Mercury in one sample exceeds the TCEQ level considered protective of residential human health.

Samples (SB-3 @ 2.5' and SB-5 @ 10') measured concentrations of Lead (Pb) exceeding Texas Median Specific Background Concentrations, while sample SB-3 @ 2.5' measured a Mercury concentration above residential protective standards.

Analytical chemical analysis of the submitted soil samples indicates measurable petroleum hydrocarbons present in two borings (SB-1 and SB-3) in the C12-C28 TPH range, which indicated medium-weight carbon chain hydrocarbons (i.e., hydraulic fluid, motor oil) and SB-3 exhibited concentrations in the C28-C35 TPH range, which indicates heavy weight carbon chain hydrocarbons, (i.e., waste oil, gear oil).

Groundwater was not encountered during the evaluation and thus was not evaluated and is expected to be on the order of 60 feet bgs or greater.



## 4.0 PHASE II ACTIVITIES

B&C retained **ESSCO** to conduct a Limited Phase II Environmental Site Assessment to determine potential subsurface environmental impacts and prepare an ESA-II report evaluating the findings to the TCEQ published Action Levels defined in TCEQ guidance documents (i.e., Protective Concentration Levels). Additionally, as the US Army Corps of Engineers recommended, B&C requested **ESSCO** to provide a limited Human Health Risk Assessment (HHRA).

### 4.1. Scope of Assessment

The scope of work performed for this ESA-II was developed partly on our understanding of the project, under findings presented in the previous ESA-II prepared using geotechnical borings presented by CQC, experience with similar projects in the region, and in general accordance with ASTM E1903-11. These methodologies represent good commercial and customary practice for conducting an ESA-II on a property to evaluate a REC(s).

#### 4.1.1. Supplemental Records Review

No additional supplemental Records were reviewed during this ESA-II other than the previous ESA-II.

#### 4.1.2. Conceptual Sampling Plan

A conceptual sampling plan takes into consideration the potential distributions of contaminants concerning the properties and fate, and transport characteristics of the contaminant in a setting such as that being assessed: the particular project being assessed is for a proposed subsurface sewer line, and the borings were located along the proposed alignment at intervals and locations selected by **ESSCO**.

The sampling plan is designed to collect potentially environmentally impacted media, if they occur, at locations and depths where the highest concentrations are likely to occur.

The conceptual sampling plan was developed in accordance with ASTM Standard D 5730: Guide to Site Characteristics for Environmental Purposes with Emphasis on Soil, Rock, The Vadose Zone, and Groundwater. The conceptual sampling plan represents the methodology used for investigating such areas of concern exercised by reputable members of the profession practicing in the region. **ESSCO** performed screening of soil samples for Volatile Organic Compounds (VOCs) using a Photoionization Detector (PID) and visual and olfactory indicators of environmental impact on split spoons samples. A Shelby tube sample was also collected at one (1) selected boring to evaluate for geotechnical parameters.

Personal health and safety precautions were followed in accordance with applicable federal and state law or local equivalents and any requirements imposed by the owner, occupant, or field personnel/manager.



### 4.1.3. Chemical Testing Plan

The chemical testing plan was designed to detect the contaminants suspected to be present in the samples collected. This testing plan includes tests that provide quality assurance (QA) and techniques that provide quality control (QC) over chemical analysis. A completed chain of custody record accompanied each sample shipment to the analytical laboratory. Chain of custody records provide written documentation regarding sample collection and handling, identify the persons involved in the chain of sample possession, and a written record of requested analytical parameters. Safety precautions were followed in accordance with applicable federal and state law or local equivalents and any requirements imposed by the owner, occupant, or field personnel/manager.

### 4.1.4. Deviations from the Work Plan

No deviations to the work plan were conducted during the duration of this project, except for shallow auger refusal twice at SB-11 @ 10 feet bgs, which resulted in only a single shallow surface sample being collected.

## 4.2. Field Exploration and Methods

ESSCO mobilized to the Project Site on June 14, June 15, and June 16, 2022, and collected fifty-eight (58) soil samples for submission to an analytical laboratory to evaluate potential environmental impacts resulting from historical land use. Included in (*Attachment 1 – Figures*) are a *Site Location Map (Figure 1)*, a *Site Plan Map (Figure 2)*, and a *Site Boring Map (Figure 3)* that illustrates the discreet locations of the sampling activity and other pertinent information. Photographic documentation of environmental sampling activities is provided in *Attachment 2 - Photographic Documentation*.

### 4.2.1 Exploratory Test Borings Installation

Exploratory test soil borings (SB-1 through SB-20) were installed via a drill rig with a hollow stem auger drilling methodology. Representative soil samples were collected via split- spoon on five-foot intervals and lithology changes in conjunction with drilling activities. The soil samples were logged by Mr. Zakk Holguin, G.I.T., and reviewed by Mr. Robert Niehay, P.G., for lithologic, visual, and olfactory descriptions. In conjunction with the logging activities, representative soil samples and each boring were fields screened for volatile organic impacts using a PID. Each collected sample was placed in the appropriate laboratory-supplied container, properly labeled, and placed in an insulated cooler for transportation to an accredited analytical laboratory. The laboratory received the samples within 48 hours of sample collection.

Each hollow auger boring was advanced to a depth of approximately 15-16.5 feet below ground surface (bgs) except for SB-11, which was advanced to a depth of 11 feet bgs due to a suspected utility line cased in concrete clay horizon inhibiting boring advancement.

Soils encountered within the Project Site generally consist of fine, well-sorted sands inter-tonguing with silt sand to silt clay mixes. Clay observed in borings was typically nodular with medium to low plasticity. Construction debris, including metal scraps, glass fragments, and asphalt fragments, were found in SB-11 throughout the boring and in SB-13 at a depth of 10 feet BGS.



Detailed lithologic descriptions of each boring log are included herein as **Attachment 3-Boring Logs**:

#### **4.2.2 Monitor Well Installation**

No Monitor Wells were installed during the course of this ESA-II.

#### **4.3. Sampling and Analytical Chemical Analyses**

##### **4.3.1. Soil Sampling and Analyses**

The following soil samples were submitted for analytical chemistry: SB-1 @ 5', SB-1 @ 10', SB-1 @ 15', SB-2 @ 5', SB-2 @ 10', SB-2 @ 15', SB-3 @ 5', SB-3 @ 10', SB-3 @ 15', SB-4 @ 5', SB-4 @ 10', SB-4 @ 15', SB-5 @ 5', SB-5 @ 10', SB-5 @ 15', SB-6 @ 5', SB-6 @ 10', SB-6 @ 15', SB-7 @ 5', SB-7 @ 10', SB-7 @ 15', SB-8 @ 5', SB-8 @ 10', SB-8 @ 15', SB-9 @ 5', SB-9 @ 10', SB-9 @ 15', SB-10 @ 5', SB-10 @ 10', SB-10 @ 15', SB-11 @ 5', SB-12 @ 5', SB-12 @ 10', SB-13 @ 5', SB-13 @ 10', SB-13 @ 15', SB-14 @ 5', SB-14 @ 10', SB-14 @ 15', SB-15 @ 5', SB-15 @ 10', SB-15 @ 15', SB-16 @ 5', SB-16 @ 10', SB-16 @ 15', SB-17 @ 5', SB-17 @ 10', SB-17 @ 15', SB-18 @ 5', SB-18 @ 10', SB-18 @ 15', SB-19 @ 5', SB-19 @ 10', SB-19 @ 15', SB-20 @ 5', SB-20 @ 10', and SB-20 @ 15'. The soil samples were submitted to Xenco Labs for chemical analysis. The following tests were utilized:

- i. Total Petroleum Hydrocarbons (TPH) via Method TX-1005
- ii. Resource Conservation and Recovery Act (RCRA) 8 metal analysis (lead, chromium, arsenic, barium, cadmium, selenium, mercury, and silver) via method EPA 7471/6020A.
- iii. Volatile Organic Compounds via Method 8260C were utilized for SB-1 @ 10', SB-2 @ 10', SB-3 @ 10', SB-4 @ 10', SB-5 @ 10', SB-6 @ 10', SB-7 @ 10', SB-8 @ 10', SB-9 @ 10', SB-10 @ 10', SB-12 @ 10', SB-13 @ 10', SB-14 @ 10', SB-15 @ 10', SB-16 @ 10', SB-17 @ 10', SB-18 @ 10', SB-19 @ 10', and SB-20 @ 10' only.
- iv. Additionally, a Shelby tube sample from SB-12 @ 15' was collected for geotechnical parameters.

##### **4.3.2. Liquid Sampling and Analyses**

No liquid samples were collected or submitted during the course of this ESA-II.





## 5.0 EVALUATION AND PRESENTATION OF RESULTS

### 5.1 Subsurface Conditions

#### 5.1.1. Geologic Setting and Lithology

Based on the 2000 *Geologic Map of West Hueco Bolson, El Paso Region, Texas*, the geologic formation that includes the Project Site is described as Alluvium of the Rio Grande floodplain (Qarg). It is situated at an elevation of approximately 3,707 feet above the Mean Sea Level. Specific data regarding groundwater under the Project Site was not readily available. However, groundwater data for the vicinity and region was obtained through the State of Texas Driller reports from the TCEQ.

#### 5.1.2. Hydrologic Setting and Conditions

Static groundwater was not encountered during the course of this ESA-II. Based on the available groundwater data, static groundwater under the Project Site may be encountered at an elevation of approximately 3,647 feet above Mean Sea Level or approximately 60 feet below ground surface (bgs). The regional groundwater gradient is to the south-southeast, towards the Rio Grande River.

#### 5.1.3. Verification of Conceptual Site Model

The conceptual site model and sampling plan developed for this project were verified during the ESA-II assessment activities. Shallow subsurface auger refusal at SB-11 during two attempts limited the sampling depth to 10 ft bgs.

### 5.2. Field Observations

The Project Site appeared to have no changes in conditions varying from descriptions provided in previous ESA-II. Soil observations were consistent with the geologic setting and consisted of silty clay loam, fine sandy loam, minor balling clay layers, and sand in texture.

### 5.3. Analytical Data

Analytical results for environmental samples are routinely compared to published regulatory action levels defined by the TCEQ. Action levels are contaminant-specific and correspond to maximum contaminant concentrations that can remain in environmental media (e.g., soils and groundwater) while being considered protective of human health and the environment. Analytical results exceeding published action levels generally initiate regulatory assessment and release-reporting requirements under TCEQ regulations. For this environmental evaluation, laboratory method detection limits [i.e., Practical Quantitation Limit (PCL)] for respective analytes were set below TCEQ-defined action levels unless otherwise discussed.

A summary table depicting analytical results is provided as **Attachment II-Tables**, and copies of the signed Report of Chemical Analysis and accompanying chain-of-custody documentation are provided as **Appendix II-Analytical Report and Chain of Custody**



### **5.3.1. Soil Analytical Data**

Total Petroleum Hydrocarbon Analysis (TPH) - TPH readings exceeding 100 mg/kg generally trigger further action/evaluation under TCEQ RG-411.

Sample chemical analysis indicated detectable concentrations of TPHs within carbon chains C12-C28 at 24 mg/kg and C28-C35 at 24 mg/kg in sample SB-3 @ 15'.

#### Resource Conservation and Recovery Act Metals (RCRA 8)

Analysis of RCRA 8 Metals returned detectable concentrations of select heavy metals in every soil sample, with the concentration of Arsenic in SB-13 @ 5' measuring a concentration of 14.1 mg/kg and Lead in SB-16 @ 5' measuring a concentration of 12600 mg/kg. These concentrations exceed Texas Specific Background Concentrations [5.9 mg/kg for Arsenic and 15 mg/kg for Lead], and sample SB-1 @ 15' exceeds both Residential and Commercial Protective Concentration Levels (PCLs).

Toxicity Characteristic Leaching Procedure (TCLP) – Sample SB-16 @ 5' measured a detectable lead concentration that exceeded TCEQ residential and commercial PCLs and was selected for TCLP analysis. Sample chemical analysis indicated a TCLP value of <0.0184 mg/L in sample SB-16, below method detection limits.

All other measured RCRA 8 Metals exhibited concentrations below Texas Specific Background Concentrations.



## 6.0 DISCUSSION OF FINDINGS AND CONCLUSION

This assessment has been prepared in accordance with generally accepted environmental methodologies referred to in ASTM 1903-11 and generally accepted industry practices and contains all the limitations inherent in these methodologies. The methodology used is sufficient to evaluate Recognized Environmental Concerns associated with Project Site.

### 6.1. Recognized Environmental Conditions

The recognized environmental concerns assessed as part of this ESA-II were identified through previous boring activities and, in part, were based on historical land use of the Project Site as being in the vicinity of a former unauthorized landfill and current wastewater treatment plant area.

Soil samples were collected to evaluate identified RECs and were submitted for TPH chemical analysis via Method TX-1005, RCRA 8 metals via EPA Method 6010 to assess potential hydrocarbon and heavy metal impacts, and Volatile Organic Compounds via Method 8260 (one sample per boring).

### 6.2. Affected Media

Samples (SB-13 @ 5') measured concentrations of Arsenic exceeding Texas Median Specific Background Concentrations, while sample SB-16 @ 5' measured a Lead concentration above commercial protective standards. TCLP analysis of this sample indicated a TCLP value of <0.0184 mg/L in sample SB-16, below method detection limits.

Analytical chemical analysis of the submitted soil samples indicate measurable petroleum hydrocarbons present in SB-3 @ 15' in the C12-C28 and C28-C-35 TPH range, which indicated medium-weight carbon chain hydrocarbons (i.e., hydraulic fluid, motor oil) and heavy-weight carbon chain hydrocarbons, (i.e., waste oil, gear oil).

Groundwater was not encountered during the evaluation and thus was not evaluated and is expected to be on the order of 60 feet bgs or greater.

### 6.3. Evaluation of Media Quality

The data gathered during this assessment is sufficient to evaluate whether shallow subsurface soils in the discreet areas evaluated are environmentally impacted by concentrations of petroleum-based, heavy (RCRA8) metal constituents and volatile organic compounds resulting from historic operations occurring on the Project Site.

### 6.4. Limited Human Health Risk Assessment

ESSCO provided Professional Service Industries, Inc. (PSI) with analytical data collected during this ESA-II to conduct a Limited Human Health Risk Assessment (HHRA). The purpose of conducting an HHRA is to estimate the potential risks/hazards future construction workers may be subject to from site-related contamination within targeted areas on the Project Site. Analytical data is used to estimate the magnitude of exposure to Chemicals of Potential Concern (COPCs) in conjunction with historical information and recommendations/conclusions presented in previous



assessments. Results are then quantitated into carcinogenic and non-carcinogenic numerical risk (hazard indices) values using the United States Environmental Protection Agency's (USEPA's) Regional Screening Calculator.

Based on available information and analytical data provided by **ESSCO**, PSI concluded the cumulative carcinogenic risk to be below the USEPA target risk of  $1 \times 10^{-6}$  and the hazard indices (HI) to be below the benchmark of 1 under the Reasonable Maximum Exposure (RME) scenario for the Project Site.

## 6.5. Other Concerns

Relic construction debris was observed during exploratory activities. Buried subsurface construction debris may contain asbestos materials and should be evaluated if significant debris is observed during subsurface excavation. Friable asbestos material disturbed during excavation or subsurface work may cause worker health impacts. The elevated mercury concentration suggests that a source (i.e., batteries) may be buried in the vicinity and should be evaluated if encountered during subsurface excavation.

## 6.6. Conclusion

Based on the field activities and analytical chemical results, the following conclusions are presented for the Project Site:

- The data gathered during this assessment is sufficient to determine whether hazardous substances or petroleum impacts are present on the Project Site.
- Collectively, analytical sampling data and field observations made in conjunction with sampling activities indicate environmental impacts to the shallow subsurface soils are present over the Project Site with one boring (SB-13 @ 5 feet bgs) exhibiting Arsenic concentrations exceeding Texas Specific Background Soil Concentrations but, below the Commercial and Residential PCLs.
- One boring (SB-16 @ 5 feet bgs) exhibiting Lead concentrations exceeding TCEQ Protective Concentrations for Residential and Commercial Soil. The soil sample was submitted for TCLP analysis exhibiting a leaching potential below the method detection limit (<0.0184 mg/L.).
- The HHRA performed by PSI yielded no indication that the Project Site poses any immediate carcinogenic or non-carcinogenic health risks to construction workers exposed to soils encountered during construction activities within the Project Site.
- Comparing the analytical results of the two Limited ESAs from 2020 and 2022, the RCRA 8 Metals analytical results from 2022 exhibited similar characteristics to those from 2020. This finding may indicate that the site exhibits residual environmental impacts from historical land use.
- Additionally, the TPH analytical results from 2020 are significantly higher than those from 2022 at two boring locations, SB1 and SB3, at depths ranging from 2.5 ft to 5 ft. These two boring locations are in the parking area at Shelter Place Road. A review of the historical aerial map indicated that the parking area has existed for more than 30 years.
- Due to construction debris and discolored soils observed at depth, **ESSCO** believes that the soils were impacted prior to the construction of the parking lot; however, the historical use as a parking area may have increased TPH levels in the surface soils.



## 7.0 RECOMMENDATIONS

Based on the results of this assessments field activity and analytical analysis, **ESSCO** believes the following recommendations are warranted:

- Proper personal hygiene (washing hands and face and restriction eating in the work area) and dust control methods should be implemented during the subsurface construction activities.
- When conducting excavation activities within the Project Site, contractors should be aware that potential environmental concerns may exist in areas not directly assessed in this ESA-II. Upon discovering potential environmental concerns, excavation activities should be halted, and an environmental professional should be contacted.
- Any unearthed suspected landfill debris that contains asbestos-containing materials (ACMs) (i.e., roof tile, drywall, etc.) be inspected for ACMs before disposal, and proper precautions be taken by construction workers.
- Recommend air monitoring for site workers with a photoionization detector (PID) and dust meter. Action levels of 5 parts per million in the breathing zone for the PID measurements and 15 milligrams per cubic meter of total dust for dust monitoring, or as otherwise determined to meet OSHA standards.
- If air monitoring action limits are exceeded, mitigation measures such as ventilation (for organic contaminants measured by PID) or dust control (for metals indicated by dust) should be instituted until air readings are acceptable.
- If air readings cannot be maintained below action limits or unsafe conditions are encountered in the soils, work would stop, and EPW would assess to remove specifically identified HTRW unsafe.



## 8.0 CLOSURE

The findings presented in this ESA-II are based upon the limited information obtained, experience, and professional judgment under generally accepted industry practices. The work performed during this evaluation was performed with the degree of skill and care ordinarily exercised under similar conditions by reputable members of the profession practicing in the region.

This report has been prepared for the sole use of B&C and may not be relied upon by any other person or entity without the express written consent of B&C and **ESSCO**. **ESSCO** appreciates the opportunity to provide B&C with our professional service.



## REFERENCES AND SOURCES OF INFORMATION

The following references may have been used in the preparation of this report.

ASTM Standard D 5730 Guide to Site Characteristics for Environmental Purposes with Emphasis on Soil, Rock, the Vadose Zone, and Ground Water

ASTM Standard D 653 Terminology Relating to Soil, Rock, and Contained Fluids

ASTM Standard E 1903 Practices for Environmental Site Assessments: Phase II ESA Processes

Previous Geotechnical Soil Boring Logs provided by CQC

**ESSCO** Phase II ESA dated May 27, 2020.

# **ATTACHMENT I - FIGURES**

**Site Location Map  
Site Plan Map  
Site Boring Map**





SOURCE: GOOGLE EARTH 2022

Project No.

Brown & Caldwell-22-01

Date: August 2022

Scale: NTS

dwg by: ESSCO

designed by:  
ESSCO

**Boone Phase 2 & 2a**  
**Shelter Place and 4321 Delta Drive**  
**El Paso, Texas**

**Site Location Map**



1000 Newman St.  
El Paso, Texas 79902 Ph: (915) 533-1102  
Fx: (915) 533-1103

Sheet No.

1 OF 3




NOT TO SCALE

**Legend**

 **Project Site**

Project No.	Brown & Caldwell 22-01
Date:	August 2022
Scale:	NTS
dwg by:	ESSCO
designed by:	ESSCO



1000 Newman St.  
El Paso, Texas 79902

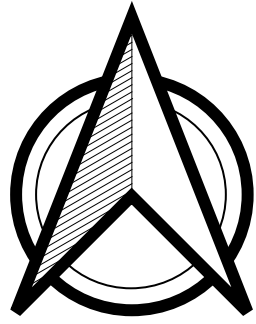
Ph: (915) 533-1102  
Fx: (915) 533-1103

**Boone Phase 2 & 2a**  
**Shelter Place and 4321 Delta Drive**  
**El Paso, Texas**

**Site Plan Map**

Revisions

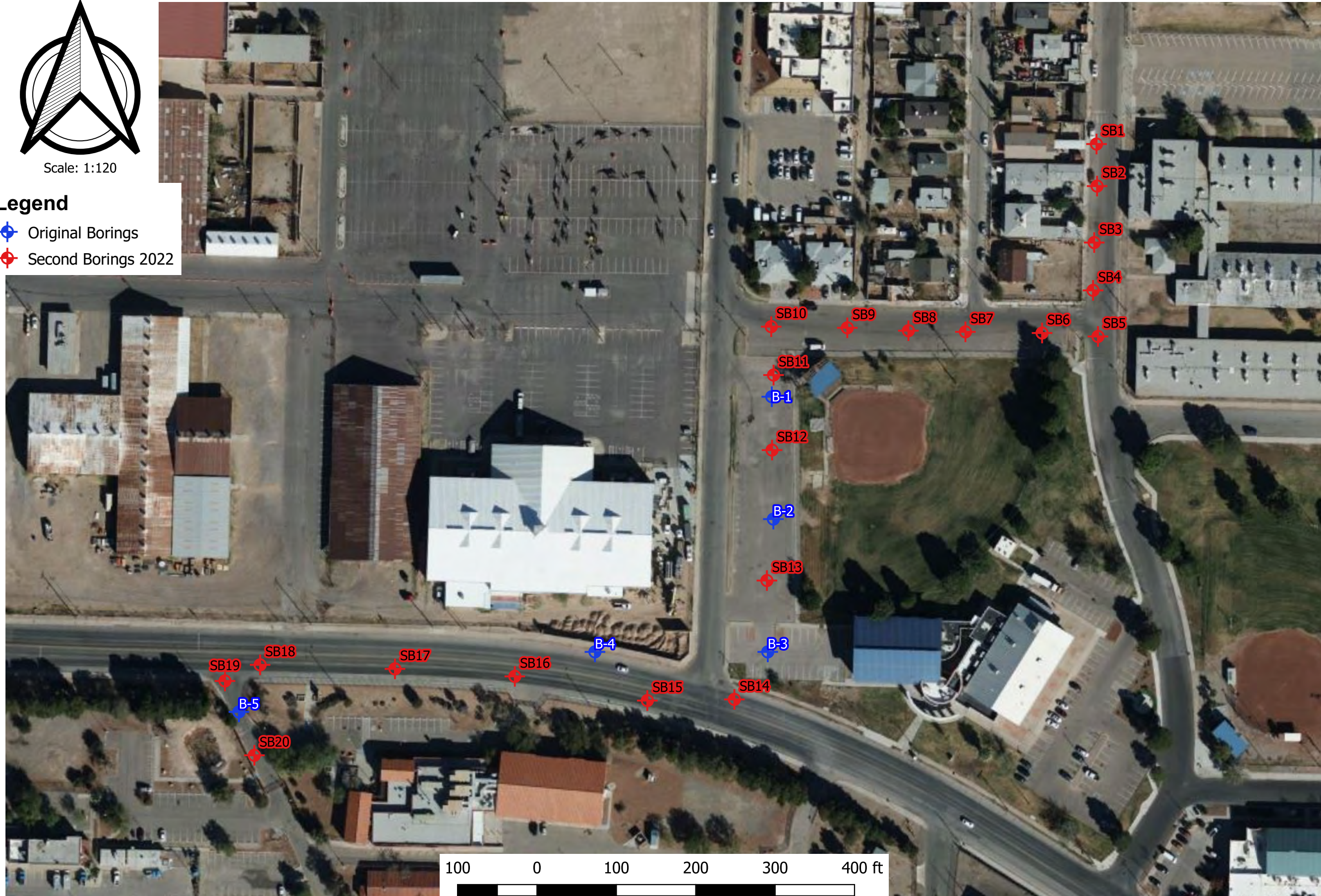
Sheet No.



Scale: 1:120

### Legend

- ◆ Original Borings
- ◆ Second Borings 2022



Project No.  
P21-B&C-01  
Date: March 2022  
Scale: 1:120  
drg by: RNIEHAY  
designed by: ESSCO



**Boone Siphon Additional Environmental Sampling  
Proposed Route 5 Near Haskell WWTP**

**Boring Map**

REVISIONS


Sheet No.

**3 of 3**

## **ATTACHMENT II - TABLES**

### **TABLES**

**Table 1 – Summary of Analytical Results –TPH**

**Table 2 – Summary of Analytical Results – RCRA8 Metals**

**Table 3 – Summary of Analytical Results – VOC**

**TABLE 1**  
SUMMARY OF ANALYTICAL RESULTS - SOIL  
Limited Phase II ESA  
Shelter Place and 4321 Delta Drive  
El Paso, Texas

SAMPLE DESIGNATION	SAMPLE DATE	SAMPLE DEPTH (ft)	TPH (C6-C12) [TX-1005] (mg/kg)	TPH (C12-C28) [TX-1005] (mg/kg)	TPH (C28-C35) [TX-1005] (mg/kg)	TPH (C6-C35) [TX-1005] (mg/kg)	Methyl tert-butyl ether (MTBE) (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes, Total (mg/kg)
<b>PST Program Action Levels:</b>			---	---	---	---	<b>2.56</b>	<b>0.120</b>	<b>39.1</b>	<b>36.8</b>	<b>117</b>
<b>TIER 1 RESIDENTIAL (TotSoil<sub>Comb</sub>):</b>			<b>1600</b>	<b>2300</b>	<b>2300</b>		<b>800</b>	<b>120</b>	<b>5900</b>	<b>6400</b>	<b>6000</b>
<b>TIER 1 COMMERCIAL (TotSoil<sub>Comb</sub>):</b>			<b>3900</b>	<b>12000</b>	<b>12000</b>		<b>2000</b>	<b>240</b>	<b>42000</b>	<b>29000</b>	<b>12000</b>
SB-1	6/14/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000407	<0.000206	<0.000996	<0.000334	<0.000981
SB-1	6/14/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000408	<0.000207	<0.000998	<0.000335	<0.000983
SB-1	6/14/2022	15.0	<21.0	<21.0	<21.0	<21.0	<0.000405	<0.000205	<0.000990	<0.000332	<0.000975
SB-2	6/14/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000408	<0.000207	<0.000998	<0.000335	<0.000983
SB-2	6/14/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000412	<0.000209	<0.00101	<0.000338	<0.000993
SB-2	6/14/2022	15.0	<21.1	<21.1	<21.1	<21.1	<0.000413	<0.000209	<0.00101	<0.000339	<0.000995
SB-3	6/14/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000409	<0.000207	<0.00100	<0.000336	<0.000987
SB-3	6/14/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000406	<0.000206	<0.000994	<0.000334	<0.000979
SB-3	6/14/2022	15.0	<21.1	<b>24.0</b>	<b>24.4</b>	<b>48.4</b>	<0.000411	<0.000208	<0.00101	<0.000338	<0.000991
SB-4	6/14/2022	5.0	<21.0	<21.0	<21.0	<21.0	<0.000410	<0.000208	<0.00100	<0.000337	<0.000989
SB-4	6/14/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000411	<0.000208	<0.00101	<0.000338	<0.000991
SB-4	6/14/2022	15.0	<21.1	<21.1	<21.1	<21.1	<0.000413	<0.000209	<0.00101	<0.000339	<0.000995
SB-5	6/14/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000407	<0.000206	<0.000996	<0.000334	<0.000981
SB-5	6/14/2022	10.0	<21.0	<21.0	<21.0	<21.0	<0.000413	<0.000209	<0.00101	<0.000339	<0.000995
SB-5	6/14/2022	15.0	<21.0	<21.0	<21.0	<21.0	<0.000412	<0.000209	<0.00101	<0.000338	<0.000993
SB-6	6/14/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000406	<0.000206	<0.000994	<0.000334	<0.000979
SB-6	6/14/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000407	<0.000206	<0.000996	<0.000334	<0.000981
SB-6	6/14/2022	15.0	<21.0	<21.0	<21.0	<21.0	<0.000409	<0.000207	<0.00100	<0.000336	<0.000987
SB-7	6/14/2022	5.0	<21.0	<21.0	<21.0	<21.0	<0.000408	<0.000207	<0.000998	<0.000335	<0.000983
SB-7	6/14/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000408	<0.000207	<0.000998	<0.000335	<0.000983
SB-7	6/14/2022	15.0	<21.1	<21.1	<21.1	<21.1	<0.000413	<0.000209	<0.00101	<0.000339	<0.000995
SB-8	6/14/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000405	<0.000205	<0.000992	<0.000333	<0.000977
SB-8	6/14/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000412	<0.000209	<0.00101	<0.000338	<0.000993
SB-8	6/14/2022	15.0	<21.0	<21.0	<21.0	<21.0	<0.000409	<0.000207	<0.00100	<0.000336	<0.000987
SB-9	6/14/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000406	<0.000206	<b>0.00126</b>	<0.000334	<0.000979
SB-9	6/14/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000413	<0.000209	<0.00101	<0.000339	<0.000995
SB-9	6/14/2022	15.0	<21.1	<21.1	<21.1	<21.1	<0.000408	<0.000207	<0.000998	<0.000335	<0.000983
SB-10	6/14/2022	5.0	<21.0	<21.0	<21.0	<21.0	<0.000411	<0.000208	<b>0.00118</b>	<0.000338	<0.000991
SB-10	6/14/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000406	<0.000206	<0.000994	<0.000334	<0.000979
SB-10	6/14/2022	15.0	<21.1	<21.1	<21.1	<21.1	<0.000406	<0.000206	<0.000994	<0.000334	<0.000979
SB-11	6/15/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000407	<0.000206	<0.000996	<0.000334	<0.000981
SB-12	6/15/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000410	<0.000208	<0.00100	<0.000337	<0.000989
SB-12	6/15/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000406	<0.000206	<0.000994	<0.000334	<0.000979
SB-13	6/15/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000413	<0.000209	<0.00101	<0.000339	<0.000995
SB-13	6/15/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000411	<0.000208	<0.00101	<0.000338	<0.000991
SB-13	6/15/2022	15.0	<21.1	<21.1	<21.1	<21.1	<0.000410	<0.000208	<0.00100	<0.000337	<0.000989
SB-14	6/15/2022	5.0	<21.0	<21.0	<21.0	<21.0	<0.000408	<0.000207	<0.000998	<0.000335	<0.000983
SB-14	6/15/2022	10.0	<21.0	<21.0	<21.0	<21.0	<0.000407	<0.000206	<0.000996	<0.000334	<0.000981
SB-14	6/15/2022	15.0	<21.1	<21.1	<21.1	<21.1	<0.000413	<0.000209	<0.00101	<0.000339	<0.000995
SB-15	6/15/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000412	<0.000209	<0.00101	<0.000338	<0.000993
SB-15	6/15/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000408	<0.000207	<0.000998	<0.000335	<0.000983
SB-15	6/15/2022	15.0	<21.1	<21.1	<21.1	<21.1	<0.000406	<0.000206	<0.000994	<0.000334	<0.000979
SB-16	6/15/2022	5.0	<21.0	<21.0	<21.0	<21.0	<0.000409	<0.000207	<0.00100	<0.000336	<0.000987
SB-16	6/15/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000413	<0.000209	<0.00101	<0.000339	<0.000995
SB-16	6/15/2022	15.0	<21.1	<21.1	<21.1	<21.1	<0.000405	<0.000205	<0.000990	<0.000332	<0.000975
SB-17	6/15/2022	5.0	<21.2	<21.2	<21.2	<21.2	<0.000411	<0.000208	<0.00101	<0.000338	<0.000991
SB-17	6/15/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000406	<0.000206	<0.000994	<0.000334	<0.000979
SB-17	6/15/2022	15.0	<21.0	<21.0	<21.0	<21.0	<0.000412	<0.000209	<0.00101	<0.000338	<0.000993
SB-18	6/15/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000407	<0.000206	<0.000996	<0.000334	<0.000981
SB-18	6/15/2022	10.0	<21.2	<21.2	<21.2	<21.2	<0.000407	<0.000206	<0.000996	<0.000334	<0.000981
SB-18	6/15/2022	15.0	<21.0	<21.0	<21.0	<21.0	<0.000409	<0.000207	<0.00100	<0.000336	<0.000985
SB-19	6/16/2022	5.0	<23.1	<23.1	<23.1	<23.1	<0.000451	<0.000228	<0.00110	<0.000370	<0.00109
SB-19	6/16/2022	10.0	<23.1	<23.1	<23.1	<23.1	<0.000447	<0.000226	<0.00109	<0.000367	<0.00108
SB-19	6/16/2022	15.0	<21.9	<21.9	<21.9	<21.9	<0.000421	<0.000213	<0.00103	<0.000346	<0.00101
SB-20	6/16/2022	5.0	<21.4	<21.4	<21.4	<21.4	<0.000421	<0.000213	<0.00103	<0.000346	<0.00101
SB-20	6/16/2022	10.0	<21.4	<21.4	<21.4	<21.4	<0.000416	<0.000211	<0.00102	<0.000342	<0.00100
SB-20	6/16/2022	15.0	<21.6	<21.6	<21.6	<21.6	<0.000419	<0.000212	<0.00103	<0.000345	<0.00101

NOTES:

- 1.) PST Program Action Levels presented herein are provide for Surface (0-15 ft) and Subsurface (>15 ft) Soil and were taken from Tables accompanying the TCEQ Regulatory Guidance RG-411 Investigating and Reporting Relaeases from Petroleum Storage Tanks (March 22, 2019).
- 2.) Texas-Specific Background Concentrations presented herein are provided for Median Background Concentrations and were taken from the TCEQ Chapter 350 - TRRP and USGS Professional Paper 574-F.
- 3.) Protective Concentration Levels (PCLs) presented herein for various human health and/or groundwater exposure pathways were taken from Tables accompanying the Texas Risk Reduction Program Rule (March 1, 2022).

**TABLE 2**  
SUMMARY OF ANALYTICAL RESULTS - SOIL  
Limited Phase II ESA  
Shelter Place and 4321 Delta Drive  
El Paso, Texas

SAMPLE DESIGNATION	SAMPLE DATE	SAMPLE DEPTH (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
<b>TEXAS-SPECIFIC BACKGROUND</b>			<b>5.9</b>	<b>300</b>	<b>---</b>	<b>30</b>	<b>15</b>	<b>0.04</b>	<b>0.3</b>	<b>---</b>
<b>TIER 1 RESIDENTIAL (TotSoil<sub>Cor</sub>)</b>			<b>24</b>	<b>8100</b>	<b>52</b>	<b>33000</b>	<b>500</b>	<b>3.6</b>	<b>310</b>	<b>97</b>
<b>TIER 1 COMMERCIAL (TotSoil<sub>Cor</sub>)</b>			<b>200</b>	<b>120000</b>	<b>810</b>	<b>120000</b>	<b>1600</b>	<b>6.2</b>	<b>4900</b>	<b>2300</b>
SB-1	6/14/2022	5.0	1.37	37.6	<0.104	5.21	2.95	<0.00356	<0.443	0.292
SB-1	6/14/2022	10.0	0.681	16.6	<0.0967	2.17	1.86	<0.00343	<0.413	0.267
SB-1	6/14/2022	15.0	0.87	12.8	<0.109	4.78	2.06	<0.00343	<0.468	0.296
SB-2	6/14/2022	5.0	0.802	20.8	<0.105	2.05	1.74	<0.00370	<0.451	0.286
SB-2	6/14/2022	10.0	0.651	18.6	<0.0967	2.69	1.69	<0.00356	<0.413	0.263
SB-2	6/14/2022	15.0	0.705	27.3	<0.109	2.58	1.56	<0.00356	<0.468	0.297
SB-3	6/14/2022	5.0	1.32	71.4	<0.114	5.06	3.59	<0.00370	<0.486	0.318
SB-3	6/14/2022	10.0	1.36	59.3	<0.109	3.98	3.05	<0.00377	<0.468	0.306
SB-3	6/14/2022	15.0	1.13	22.7	<0.0967	2.2	2.2	<0.00331	<0.413	0.267
SB-4	6/14/2022	5.0	2.6	98.8	<0.104	6.63	4.46	<0.00384	<0.443	0.295
SB-4	6/14/2022	10.0	0.663	16.6	<0.0967	1.83	1.51	<0.00377	<0.413	0.264
SB-4	6/14/2022	15.0	1.3	79.1	<0.104	3.74	3.03	<0.00356	<0.443	0.286
SB-5	6/14/2022	5.0	1.29	32.8	<0.107	12.3	4.32	<0.00337	<0.459	0.296
SB-5	6/14/2022	10.0	0.866	27.2	<0.107	3.36	2.6	<0.00337	<0.459	0.299
SB-5	6/14/2022	15.0	<0.571	21.8	<0.107	2.01	1.51	<0.00343	<0.459	0.294
SB-6	6/14/2022	5.0	0.836	27.3	<0.114	2.02	1.91	<0.00377	<0.486	0.311
SB-6	6/14/2022	10.0	0.876	23.4	<0.104	3.33	1.86	<0.00370	<0.443	0.291
SB-6	6/14/2022	15.0	0.988	24.3	<0.100	3.3	2.13	<0.00356	<0.428	0.276
SB-7	6/14/2022	5.0	1.17	32.8	<0.109	5.49	2.72	<0.00370	<0.468	0.302
SB-7	6/14/2022	10.0	1.35	36.8	<0.100	3.4	2.82	<0.00377	<0.428	0.28
SB-7	6/14/2022	15.0	1.02	34.4	<0.102	6.28	2.79	<0.00370	<0.435	0.283
SB-8	6/14/2022	5.0	1.00	15.1	<0.107	3.22	1.94	<0.00349	<0.459	0.295
SB-8	6/14/2022	10.0	0.868	16.0	<0.104	3.46	1.71	<0.00337	<0.443	0.284
SB-8	6/14/2022	15.0	2.37	25.6	<0.109	5.72	2.39	<0.00363	<0.468	0.298
SB-9	6/14/2022	5.0	0.727	23.5	<0.0967	2.88	1.66	<0.00356	<0.413	0.264
SB-9	6/14/2022	10.0	1.07	33.0	<0.105	3.97	2.35	<0.00356	<0.451	0.288
SB-9	6/14/2022	15.0	1.11	31.5	<0.0967	2.25	2.07	0.0981	<0.413	0.266
SB-10	6/14/2022	5.0	0.925	33.5	<0.104	6.77	2.57	<0.00370	<0.443	0.279
SB-10	6/14/2022	10.0	1.22	30.7	<0.104	4.3	4.35	<0.00370	<0.443	0.282
SB-10	6/14/2022	15.0	1.28	28.7	<0.112	2.83	2.16	<0.00377	<0.477	0.305
SB-11	6/15/2022	5.0	8.51	110	0.349	8.69	229	0.0958	0.493	0.325
SB-12	6/15/2022	5.0	2.39	84.6	0.177	5.33	24.2	0.066	<0.496	<0.159
SB-12	6/15/2022	10.0	2.06	67.2	<0.105	5.35	4.1	0.0049	<0.451	<0.144
SB-13	6/15/2022	5.0	14.1	64.9	1.1	18.5	11.2	0.0056	<0.443	<0.142
SB-13	6/15/2022	10.0	0.898	50.4	<0.107	3.99	2.71	<0.00349	<0.459	<0.147
SB-13	6/15/2022	15.0	0.714	26.1	<0.109	1.74	1.66	<0.00349	<0.468	<0.150
SB-14	6/15/2022	5.0	0.864	31.2	<0.104	3.39	2.06	<0.00326	<0.443	<0.142
SB-14	6/15/2022	10.0	1.26	35.2	<0.107	2.81	2.05	<0.00320	<0.459	<0.147
SB-14	6/15/2022	15.0	0.888	40.5	<0.0983	2.41	2.34	<0.00363	<0.421	<0.135
SB-15	6/15/2022	5.0	0.753	29.6	<0.107	3.09	1.9	<0.00349	<0.459	<0.147
SB-15	6/15/2022	10.0	1.36	41.1	<0.100	3.78	2.2	<0.00349	<0.428	<0.137
SB-15	6/15/2022	15.0	0.822	16.6	<0.107	1.67	1.42	<0.00337	<0.459	<0.147
SB-16	6/15/2022	5.0	11.4	219	0.759	25.1	12600	1.09	<0.435	0.605
SB-16	6/15/2022	10.0	1.07	44.4	<0.104	3.86	4.36	<0.00363	<0.443	<0.142
SB-16	6/15/2022	15.0	0.641	22.2	<0.109	1.92	2.43	<0.00363	<0.468	<0.150
SB-17	6/15/2022	5.0	1.06	31.3	<0.107	2.48	2.63	<0.00337	<0.459	<0.147
SB-17	6/15/2022	10.0	1.27	26.2	<0.105	4.14	3.08	<0.00331	<0.451	<0.144
SB-17	6/15/2022	15.0	0.773	23.3	<0.107	2.52	2.11	<0.00370	<0.459	<0.147
SB-18	6/15/2022	5.0	1.69	84.8	<0.104	3.93	3.74	<0.00356	<0.443	<0.142
SB-18	6/15/2022	10.0	0.985	39.1	<0.105	3.51	2.65	<0.00349	<0.451	<0.144
SB-18	6/15/2022	15.0	0.869	39.2	<0.104	2.47	2.23	<0.00370	<0.443	<0.142
SB-19	6/16/2022	5.0	2.34	116	<0.120	7.52	7.41	-	<0.513	<0.164
SB-19	6/16/2022	10.0	1.23	54.9	<0.117	4.77	3.53	-	<0.502	<0.161
SB-19	6/16/2022	15.0	0.597	22.3	<0.106	2.83	1.91	-	<0.452	<0.145
SB-20	6/16/2022	5.0	0.664	17.4	<0.116	2.77	1.9	-	<0.497	<0.159
SB-20	6/16/2022	10.0	1.23	21.7	<0.104	2.76	2.39	-	<0.444	<0.142
SB-20	6/16/2022	15.0	1.36	36.3	<0.114	4.53	3.04	-	<0.489	<0.156

TABLE 3  
SUMMARY OF VOC RESULTS - SOIL  
Limited Phase II ESA  
Shelter Place and 4321 Delta Drive  
El Paso, Texas

ANALYTE	SOIL																			
	Sample SB-1 at 10ft (mg/kg)	Sample SB-2 at 10ft (mg/kg)	Sample SB-3 at 10ft (mg/kg)	Sample SB-4 at 10ft (mg/kg)	Sample SB-5 at 10ft (mg/kg)	Sample SB-6 at 10ft (mg/kg)	Sample SB-7 at 10ft (mg/kg)	Sample SB-8 at 10ft (mg/kg)	Sample SB-9 at 10ft (mg/kg)	Sample SB-10 at 10ft (mg/kg)	Sample SB-12 at 10ft (mg/kg)	Sample SB-13 at 10ft (mg/kg)	Sample SB-14 at 10ft (mg/kg)	Sample SB-15 at 10ft (mg/kg)	Sample SB-16 at 10ft (mg/kg)	Sample SB-17 at 10ft (mg/kg)	Sample SB-18 at 10ft (mg/kg)	Sample SB-19 at 10ft (mg/kg)	Sample SB-20 at 10ft (mg/kg)	
EPA Method 8260C Sample Date: 06/14/2022 - 06/16/2022																				
1,1,1,2-Tetrachloroethane	<0.000266	<0.000269	<0.000265	<0.000268	<0.000270	<0.000266	<0.000266	<0.000269	<0.000270	<0.000265	<0.000265	<0.000268	<0.000266	<0.000266	<0.000270	<0.000265	<0.000266	<0.000292	<0.000272	
1,1,1-Trichloroethane	<0.000502	<0.000507	<0.000500	<0.000506	<0.000508	<0.000501	<0.000502	<0.000507	<0.000508	<0.000500	<0.000500	<0.000506	<0.000501	<0.000502	<0.000508	<0.000500	<0.000501	<0.000550	<0.000513	
1,1,2,2-Tetrachloroethane	<0.000469	<0.000473	<0.000467	<0.000472	<0.000474	<0.000468	<0.000469	<0.000473	<0.000474	<0.000467	<0.000467	<0.000472	<0.000468	<0.000469	<0.000474	<0.000467	<0.000468	<0.000513	<0.000478	
1,1,2-Trichloroethane	<0.000391	<0.000395	<0.000390	<0.000394	<0.000396	<0.000391	<0.000391	<0.000395	<0.000396	<0.000390	<0.000390	<0.000394	<0.000391	<0.000391	<0.000396	<0.000390	<0.000391	<0.000429	<0.000400	
1,1-Dichloroethane	<0.000375	<0.000379	<0.000374	<0.000378	<0.000380	<0.000375	<0.000375	<0.000379	<0.000380	<0.000374	<0.000374	<0.000378	<0.000375	<0.000375	<0.000380	<0.000374	<0.000375	<0.000411	<0.000383	
1,1-Dichloroethene	<0.000277	<0.000279	<0.000275	<0.000279	<0.000280	<0.000276	<0.000277	<0.000279	<0.000280	<0.000275	<0.000275	<0.000279	<0.000276	<0.000277	<0.000280	<0.000275	<0.000276	<0.000303	<0.000282	
1,1-Dichloropropene	<0.000448	<0.000452	<0.000446	<0.000451	<0.000453	<0.000447	<0.000448	<0.000452	<0.000453	<0.000446	<0.000446	<0.000451	<0.000447	<0.000448	<0.000453	<0.000446	<0.000447	<0.000490	<0.000457	
1,2,3-Trichlorobenzene	<0.00200	<0.00202	<0.00199	<0.00201	<0.00202	<0.00199	<0.00200	<0.00202	<0.00202	<0.00199	<0.00200	<0.00201	<0.00199	<0.00200	<0.00202	<0.00199	<0.00199	<0.00219	<0.00204	
1,2,3-Trichloropropane	<0.000449	<0.000453	<0.000447	<0.000452	<0.000454	<0.000448	<0.000449	<0.000453	<0.000454	<0.000447	<0.000447	<0.000452	<0.000448	<0.000449	<0.000454	<0.000447	<0.000448	<0.000491	<0.000458	
1,2,4-Trichlorobenzene	<0.00200	<0.00202	<0.00199	<0.00201	<0.00202	<0.00199	<0.00200	<0.00202	<0.00202	<0.00199	<0.00200	<0.00201	<0.00199	<0.00200	<0.00202	<0.00199	<0.00199	<0.00219	<0.00204	
1,2,4-Trimethylbenzene	<0.000254	<0.000257	<0.000253	<0.000256	<0.000258	<0.000254	<0.000254	<0.000257	<0.000258	<0.000253	<0.000253	<0.000256	<0.000254	<0.000254	<0.000258	<0.000253	<0.000253	<0.000279	<0.000260	
1,2-Dibromo-3-chloropropane	<0.000703	<0.000710	<0.000700	<0.000708	<0.000711	<0.000701	<0.000701	<0.000703	<0.000710	<0.000711	<0.000700	<0.000700	<0.000708	<0.000701	<0.000703	<0.000711	<0.000700	<0.000769	<0.000717	
1,2-Dibromoethane (EDB)	<0.00104	<0.00105	<0.00104	<0.00105	<0.00105	<0.00104	<0.00104	<0.00105	<0.00105	<0.00104	<0.00104	<0.00105	<0.00104	<0.00104	<0.00105	<0.00104	<0.00104	<0.00114	<0.00106	
1,2-Dichlorobenzene	<0.000287	<0.000290	<0.000286	<0.000289	<0.000290	<0.000286	<0.000287	<0.000290	<0.000290	<0.000286	<0.000286	<0.000289	<0.000286	<0.000287	<0.000290	<0.000286	<0.000286	<0.000314	<0.000293	
1,2-Dichloroethane (EDC)	<0.000303	<0.000306	<0.000302	<0.000306	<0.000307	<0.000303	<0.000303	<0.000306	<0.000307	<0.000302	<0.000302	<0.000306	<0.000303	<0.000303	<0.000307	<0.000302	<0.000302	<0.000332	<0.000310	
1,2-Dichloropropane	<0.000198	<0.000200	<0.000197	<0.000200	<0.000200	<0.000198	<0.000198	<0.000200	<0.000200	<0.000197	<0.000197	<0.000200	<0.000198	<0.000198	<0.000200	<0.000197	<0.000198	<0.000217	<0.000202	
1,3,5-Trimethylbenzene	<0.000288	<0.000291	<0.000287	<0.000291	<0.000292	<0.000288	<0.000288	<0.000291	<0.000292	<0.000287	<0.000287	<0.000291	<0.000288	<0.000288	<0.000292	<0.000287	<0.000288	<0.000316	<0.000294	
1,3-Dichlorobenzene	<0.000272	<0.000275	<0.000271	<0.000274	<0.000275	<0.000271	<0.000271	<0.000272	<0.000275	<0.000271	<0.000271	<0.000274	<0.000271	<0.000272	<0.000275	<0.000271	<0.000271	<0.000298	<0.000278	
1,3-Dichloropropane	<0.000408	<0.000412	<0.000406	<0.000411	<0.000413	<0.000407	<0.000408	<0.000412	<0.000413	<0.000406	<0.000406	<0.000411	<0.000407	<0.000408	<0.000413	<0.000406	<0.000407	<0.000447	<0.000417	
1,4-Dichlorobenzene	<0.000214	<0.000216	<0.000213	<0.000216	<0.000217	<0.000214	<0.000214	<0.000214	<0.000217	<0.000213	<0.000213	<0.000216	<0.000214	<0.000214	<0.000216	<0.000213	<0.000213	<0.000234	<0.000219	
2,2-Dichloropropane	<0.000523	<0.000528	<0.000521	<0.000527	<0.000530	<0.000522	<0.000523	<0.000528	<0.000530	<0.000521	<0.000521	<0.000527	<0.000522	<0.000523	<0.000530	<0.000521	<0.000522	<0.000573	<0.000534	
2-Butanone	<0.00364	<0.00368	<0.00362	<0.00367	<0.00368	<0.00363	<0.00364	<0.00368	<0.00368	<0.00362	<0.00362	<0.00367	<0.00363	<0.00364	<0.00368	<0.00362	<0.00363	<0.00399	<0.00372	
4-Chlorotoluene	<0.000263	<0.000266	<0.000262	<0.000265	<0.000266	<0.000263	<0.000263	<0.000266	<0.000266	<0.000262	<0.000262	<0.000265	<0.000263	<0.000263	<0.000266	<0.000262	<0.000262	<0.000288	<0.000269	
Benzene	<0.000207	<0.000209	<0.000206	<0.000208	<0.000209	<0.000206	<0.000207	<0.000209	<0.000209	<0.000206	<0.000206	<0.000208	<0.000206	<0.000207	<0.000209	<0.000206	<0.000206	<0.000226	<0.000211	
Bromobenzene	<0.000346	<0.000349	<0.000344	<0.000348	<0.000350	<0.000345	<0.000346	<0.000349	<0.000350	<0.000344	<0.000344	<0.000348	<0.000345	<0.000346	<0.000350	<0.000344	<0.000345	<0.000379	<0.000353	
Bromochloromethane	<0.000525	<0.000530	<0.000523	<0.000529	<0.000531	<0.000524	<0.000525	<0.000530	<0.000531	<0.000523	<0.000523	<0.000529	<0.000524	<0.000525	<0.000531	<0.000523	<0.000523	<0.000575	<0.000536	
Bromodichloromethane	<0.000251	<0.000253	<0.000250	<0.000253	<0.000254	<0.000250	<0.000251	<0.000253	<0.000254	<0.000250	<0.000250	<0.000253	<0.000250	<0.000251	<0.000254	<0.000250	<0.000250	<0.000274	<0.000256	
Bromoform	<0.00103	<0.00104	<0.00103	<0.00104	<0.00104	<0.00103	<0.00103	<0.00104	<0.00104	<0.00103	<0.00103	<0.00104	<0.00103	<0.00103	<0.00104	<0.00103	<0.00103	<0.00113	<0.00105	
Bromomethane	<0.000941	<0.000951	<0.000938	<0.000949	<0.000953	<0.000939	<0.000941	<0.000951	<0.000953	<0.000938	<0.000938	<0.000949	<0.000939	<0.000941	<0.000953	<0.000938	<0.000939	<0.00103	<0.000961	
Carbon tetrachloride	<0.00164	<0.00166	<0.00163	<0.00165	<0.00166	<0.00164	<0.00164	<0.00166	<0.00166	<0.00163	<0.00163	<0.00165	<0.00164	<0.00164	<0.00166	<0.00163	<0.00164	<0.00180	<0.00167	
Chlorobenzene	<0.000236	<0.000239	<0.000235	<0.000238	<0.000239	<0.000236	<0.000236	<0.000239	<0.000239	<0.000235	<0.000235	<0.000238	<0.000236	<0.000236	<0.000239	<0.000235	<0.000235	<0.000259	<0.000241	
Chloroethane	<0.000443	<0.000448	<0.000441	<0.000447	<0.000448	<0.000442	<0.000443	<0.000448	<0.000448	<0.000441	<0.000441	<0.000447	<0.000442	<0.000443	<0.000448	<0.000441	<0.000442	<0.000485	<0.000452	
Chloroform	<0.000172	<0.000174	<0.000172	<0.000174	<0.000175	<0.000172	<0.000172	<0.000174	<0.000175	<0.000172	<0.000172	<0.000174	<0.000172	<0.000172	<0.000175	<0.000172	<0.000172	<0.000189	<0.000176	
Chloromethane	<0.000430	<0.000434	<0.000428	<0.000433	<0.000435	<0.000429	<0.000430	<0.000434	<0.000435	<0.000428	<0.000428	<0.000433	<0.000429	<0.000430	<0.000435	<0.000428	<0.000429	<0.000471	<0.000439	
cis-1,2-DCE	<0.000300	<0.000303	<0.000299	<0.000302	<0.000304	<0.000299	<0.000300	<0.000303	<0.000304	<0.000299	<0.000299	<0.000302	<0.000299	<0.000299	<0.000300	<0.000304	<0.000299	<0.000329	<0.000306	
cis-1,3-Dichloropropene	<0.000229	<0.000231	<0.000228	<0.000231	<0.000232	<0.000229	<0.000229	<0.000231	<0.000232	<0.000228	<0.000228	<0.000231	<0.000229	<0.000229	<0.000232	<0.000228	<0.000229	<0.000251	<0.000234	
Dibromochloromethane	<0.000893	<0.000902	<0.000889	<0.000900	<0.000904	<0.000891	<0.000893	<0.000902	<0.000904	<0.000889	<0.000889	<0.000900	<0.000891	<0.000893	<0.000904	<0.000889	<0.000889	<0.000978	<0.000912	
Dichlorodifluoromethane	<0.00111	<0.00112	<0.00111	<0.00112	<0.00113	<0.00111	<0.00111	<0.00112	<0.00113	<0.00111	<0.00111	<0.00112	<0.00111	<0.00111	<0.00112	<0.00111	<0.00111	<0.00122	<0.00114	
Ethylbenzene	<0.000335	<0.000338	<0.000334	<0.000338	<0.000339	<0.000334	<0.000335	<0.000338	<0.000339	<0.000334	<0.000334	<0.000338	<0.0							

# **ATTACHMENT III – Boring Logs**

**Boring Log of SB1 - SB20**



# Boring Log of SB - 1

DEPTH	SAMPLE PID	SOIL SYMBOL	LITHO- LOGY	DESCRIPTION OF MATERIALS	DEPTH
0		SP	XXXXX	3" ASPHALT	
5	0.0	SP		FINE GRAINED SAND, WELL SORTED, BROWN, SLIGHT DISCOLORATION, NO MOISTURE, NO ODOR.	5
10	0.0	SP		FINE GRAINED SAND, WELL SORTED, BROWN, SLIGHT DISCOLORATION, NO MOISTURE, NO ODOR.	10
15	0.0	SC		FINE GRAINED SAND, WELL SORTED, GREYISH BROWN, DARK BROWN POOR CLAY NODULES, NO MOISTURE, NO ODOR.	15
				BORING TERMINATED @ 16.5 FT	
20					20
25					25
30					30

TD: 16.5 FT  
6/14/22



9/16/23

Project No. B&C 22-01 Date: June 2022 Scale: 1:40 dwg by: ESSCO designed by: ESSCO	<b>Boone Phase 2 &amp; 2a</b> <b>Shelter Place and 4321 Delta Drive</b> <b>El Paso, Texas</b>	Sheet No.  <b>1 OF 1</b>
<b>Boring Log of SB-1</b>		
1000 Newman St. El Paso, Texas 79902      Ph: (915) 533-1102      Fax: (915) 533-1103		

# Boring Log of SB - 2

DEPTH	SAMPLE	PID	SOIL SYMBOL	LITHO- LOGY	DESCRIPTION OF MATERIALS	DEPTH
0			SP	XXXXX	3" ASPHALT	
5		0.0	SP		FINE GRAINED SAND, WELL SORTED, LIGHT BROWN, NO MOISTURE, NO ODOR.	5
10		0.0	SP		MEDIUM-FINE GRAINED SAND, WELL SORTED, BROWN, SLIGHT DISCOLORATION, NO MOISTURE, NO ODOR.	10
15		0.0	SP		MEDIUM-FINE GRAINED SAND, WELL SORTED, BROWN, NO MOISTURE, NO ODOR.	15
					BORING TERMINATED @ 16.5 FT	
20						20
25						25
30						30



TD: 16.5 FT  
6/14/22

Project No.	B&C 22-01
Date:	June 2022
Scale:	1:40
dwg by:	ESSCO
designed by:	ESSCO

**Boone Phase 2 & 2a  
Shelter Place and 4321 Delta Drive  
El Paso, Texas**

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**Boring Log of SB-2**




Sheet No.	1 OF 1
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# Boring Log of SB - 3

DEPTH	SAMPLE	PID	SOIL SYMBOL	LITHO-LOGY	DESCRIPTION OF MATERIALS	DEPTH
0				XXXXXX	3" ASPHALT	
			SM	[Hatched Pattern]	SILT-SAND MIX, WELL SORTED, BROWN, NO MOISTURE, NO ODOR	
			MIL	[Vertical Line Pattern]	SILT CLAY MIX, MALLEABLE WHEN COMPRESSED, BROWN, NO MOISTURE, NO ODOR.	5
5		0.0			FINE GRAINED SAND, WELL SORTED, BROWN, NO MOISTURE, NO ODOR	
			SP	[Dotted Pattern]	FINE GRAINED SAND, WELL SORTED, BROWN, RUST COLORED DISCOLORATION, NO MOISTURE, NO ODOR.	10
10		0.0			MEDIUM GRAINED SAND, WELL SORTED, WHITE-TAN COLOR, NO MOISTURE, NO ODOR.	
			SP	[Dotted Pattern]	BORING TERMINATED @ 16.5 FT	15
15		0.0				
20						
25						
30						



TD: 16.5 FT  
6/14/22

Project No. B&C 22-01 Date: June 2022 Scale: 1:40 dwg by: ESSCO designed by: ESSCO	<b>Boone Phase 2 &amp; 2a</b> <b>Shelter Place and 4321 Delta Drive</b> <b>El Paso, Texas</b>	 1000 Newman St El Paso, Texas 79902 Ph: (915) 533-1102 Fax: (915) 533-1103	Sheet No.  <b>1 OF 1</b>
<b>Boring Log of SB-3</b>			

# Boring Log of SB - 4

DEPTH	SAMPLE	PID	SOIL SYMBOL	LITHO-LOGY	DESCRIPTION OF MATERIALS	DEPTH
0			SM	XXXXXX	3" ASPHALT	
					SILT-SAND MIX, BROWN, NO MOISTURE, NO ODOR.	
5		0.0	SC		FINE GRAINED SAND, WELL SORTED, BROWN, POOR BROWN CLAY NODULES, NO MOISTURE, NO ODOR.	5
10		0.0	SP		FINE GRAINED SAND, WELL SORTED, BROWN, RUST COLORED DISCOLORATION, NO MOISTURE, NO ODOR.	10
15		0.0	SP		MEDIUM GRAINED SAND, WELL SORTED, WHITE-TAN COLOR, NO MOISTURE, NO ODOR.	15
					BORING TERMINATED @ 16.5 FT	
20						20
25						25
30						30

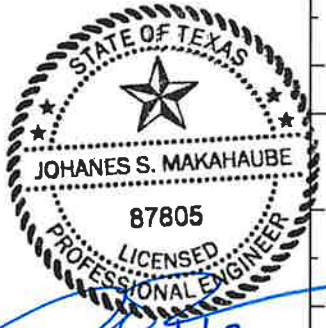


TD: 16.5 FT  
6/14/22

Project No. B&C 22-01 Date: June 2022 Scale: 1:40 dwg by: ESSCO designed by: ESSCO	<h2 style="margin: 0;">Boone Phase 2 &amp; 2a</h2> <h3 style="margin: 0;">El Paso, Texas</h3> <hr style="border: 1px solid black;"/> <h2 style="margin: 0;">Boring Log of SB-4</h2>	Sheet No.  <b>1 OF 1</b>	<p style="font-size: small; margin-top: 5px;">1000 Newman St El Paso, Texas 79902    Ph: (915) 533-1102 Fax: (915) 533-1103</p>
---	---	--------------------------------	---

# Boring Log of SB - 5

DEPTH	SAMPLE	PID	SOIL SYMBOL	LITHO- LOGY	DESCRIPTION OF MATERIALS	DEPTH
0				XXXXXX	3" ASPHALT	
			SM		SILT-SAND MIX, WELL SORTED, BROWN, NO MOISTURE, NO ODOR.	
5		0.0	SP		FINE GRAINED SAND, WELL SORTED, LIGHT BROWN, NO MOISTURE, NO ODOR.	5
10		0.0	SC		FINE GRAINED SAND, WELL SORTED, BROWN, BROWN FAT CLAY NODULES, NO MOISTURE, NO ODOR.	10
			SC		SILT-SAND MIX, WELL SORTED, DARK BROWN, NO MOISTURE, NO ODOR.	
15		0.0	SP		MEDIUM GRAINED SAND, WELL SORTED, WHITE-TAN COLOR, NO MOISTURE, NO ODOR.	15
					BORING TERMINATED @ 16.5 FT	
20						20
25						25
30						30



TD: 16.5 FT  
6/14/22

Project No. B&C 22-01 Date: June 2022 Scale: 1:40 dwg by: ESSCO designed by: ESSCO	<h2 style="margin: 0;">Boone Phase 2 &amp; 2a</h2> <h3 style="margin: 0;">El Paso, Texas</h3> <hr style="border: 1px solid black;"/> <h2 style="margin: 0;">Boring Log of SB-5</h2>	Sheet No.   <b>1 OF 1</b>	 1000 Newman St. El Paso, Texas 79902 P: (915) 533-1102 F: (915) 533-1103
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# Boring Log of SB - 6

DEPTH	SAMPLE	PID	SOIL SYMBOL	LITHO-LOGY	DESCRIPTION OF MATERIALS	DEPTH
0				XXXXX	3" ASPHALT	
			SM		SILT-SAND MIX, WELL SORTED, BROWN, NO MOISTURE, NO ODOR.	
5		0.0	SP		FINE GRAINED SAND, WELL SORTED, BROWN, NO MOISTURE, NO ODOR.	5
10		0.0	SP		FINE GRAINED SAND, WELL SORTED, LIGHT BROWN, NO MOISTURE, NO ODOR.	10
15		0.0	SP		FINE GRAINED SAND, WELL SORTED, BROWN, NO MOISTURE, NO ODOR.	15
					BORING TERMINATED @ 16.5 FT	
20						20
25						25
30						30

TD: 16.5 FT  
6/14/22



Project No. B&C 22-01 Date: June 2022 Scale: 1:40 dwg by: ESSCO designed by: ESSCO	<h2 style="margin: 0;">Boone Phase 2 &amp; 2a</h2> <h3 style="margin: 0;">El Paso, Texas</h3> <hr style="border: 1px solid black;"/> <h2 style="margin: 0;">Boring Log of SB-6</h2>	Sheet No.  <b>1 OF 1</b>	 1000 Newman St El Paso, Texas 79902 Ph: (915) 533-1102 Fax: (915) 533-1103
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# Boring Log of SB - 7

DEPTH	SAMPLE	PID	SOIL SYMBOL	LITHO-LOGY	DESCRIPTION OF MATERIALS	DEPTH
0				XXXXX	3" ASPHALT	
			SM		SILT-SAND MIX, WELL SORTED, BROWN, NO MOISTURE, NO ODOR.	
5		0.0	CL		POOR CLAY, LOW MALLEABILITY, TRACE MOISTURE, BROWN.	5
			SP		FINE GRAINED SAND, WELL SORTED, LIGHT BROWN, NO MOISTURE, NO ODOR.	
10		0.0	SP		FINE GRAINED SAND, WELL SORTED, BROWN, BROWN POOR CLAY NODULES, NO MOISTURE, NO ODOR.	10
			SP		FINE GRAINED SAND, WELL SORTED, BROWN, NO MOISTURE, NO ODOR.	
15		0.0	SP		BORING TERMINATED @ 16.5 FT	15
20						20
25						25
30						30

TD: 16.5 FT  
6/14/22



Project No.	
B&C 22-01	
Date:	June 2022
Scale:	1:40
dwg by:	ESSCO
designed by:	ESSCO

**Boone Phase 2 & 2a**  
**El Paso, Texas**

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**Boring Log of SB-7**

**ESSCO**  
ENGINEERS

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Fax: (915) 533-1103

Sheet No.
1 OF 1

# Boring Log of SB - 8

DEPTH	SAMPLE	PID	SOIL SYMBOL	LITHO-LOGY	DESCRIPTION OF MATERIALS	DEPTH
0				XXXXXX	3" ASPHALT	
			SM		SILT-SAND MIX, WELL SORTED, BROWN, NO MOISTURE, NO ODOR.	
5		0.0	SM		SILT-SAND MIX, 1-INCH HORIZONTAL BEDDING, WELL SORTED, ALTERNATING BROWN AND LIGHT BROWN BEDS, NO MOISTURE, NO ODOR.	5
10		0.0	SP		FINE GRAINED SAND, WELL SORTED, BROWN, NO MOISTURE, NO ODOR.	10
15		0.0	ML		SILT-CLAY MIX, LOW MALLEABILITY, BROWN, NO MOISTURE, NO ODOR.	15
					BORING TERMINATED @ 16.5 FT	
20						20
25						25
30						30

TD: 16.5 FT  
6/14/22



Project No.
B&C 22-01
Date: June 2022
Scale: 1:40
dwg by: ESSCO
designed by: ESSCO

Boone Phase 2 & 2a  
El Paso, Texas

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Boring Log of SB-8

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El Paso, Texas 79902      Pk: (915) 533-1102  
Fk: (915) 533-1103

Sheet No.
1 OF 1



# Boring Log of SB - 9

DEPTH	SAMPLE	PID	SOIL SYMBOL	LITHO-LOGY	DESCRIPTION OF MATERIALS	DEPTH
0				XXXXX	3" ASPHALT	
			SM		SILT-SAND MIX, WELL SORTED, BROWN, NO MOISTURE, NO ODOR.	
5		0.0			SP	5
			SP		FINE GRAINED SAND, WELL SORTED LIGHT BROWN , NO MOISTURE, NO ODOR.	
10		0.0			SP-CL	10
			SP-CL		FINE GRAINED SAND, WELL SORTED, BROWN, BROWN POOR CLAY NODULES, NO MOISTURE, NO ODOR.	
15		0.0			SP-CL	15
			SP-CL		FINE GRAINED SAND, WELL SORTED, BROWN, BROWN POOR CLAY NODULES, NO MOISTURE, NO ODOR.	
					BORING TERMINATED @ 16.5 FT	
20						20
25						25
30						30

TD: 16.5 FT  
6/14/22



Project No.	B&C 22-01
Date:	June 2022
Scale:	1:40
dwg by:	ESSCO
designed by:	ESSCO

Boone Phase 2 & 2a  
El Paso, Texas

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Boring Log of SB-9



Sheet No.	1 OF 1
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# Boring Log of SB - 10



DEPTH	SAMPLE	PID	SOIL SYMBOL	LITHO- LOGY	DESCRIPTION OF MATERIALS	DEPTH
0				XXXXXX	3" ASPHALT	
			SM		SILT-SAND MIX, WELL SORTED, BROWN, NO MOISTURE, NO ODOR.	
5		0.0	SC		FINE GRAINED SAND, WELL SORTED, BROWN, BROWN POOR CLAY NODULES, NO MOISTURE, NO ODOR.	5
10		0.0	SP		FINE GRAINED SAND, WELL SORTED, BROWN, NO MOISTURE, NO ODOR.	10
15		0.0	SC		FINE GRAINED SAND, WELL SORTED, LIGHT BROWN, BROWN POOR CLAY NODULES, NO MOISTURE, NO ODOR.	15
					BORING TERMINATED @ 16.5 FT	
20						20
25						25
30						30



TD: 16.5 FT  
6/14/22


Project No. B&C 22-01 Date: June 2022 Scale: 1:40 dwg by: ESSCO designed by: ESSCO	<h2 style="margin: 0;">Boone Phase 2 &amp; 2a</h2> <h3 style="margin: 0;">El Paso, Texas</h3> <hr style="border: 1px solid black;"/> <h2 style="margin: 0;">Boring Log of SB-10</h2>	Sheet No.  <b>1 OF 1</b>	<p style="font-size: 8px; margin-top: 5px;">1900 Newman St. El Paso, Texas 79902 P: (915) 533-1102 F: (915) 533-1103</p>
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# Boring Log of SB - 11

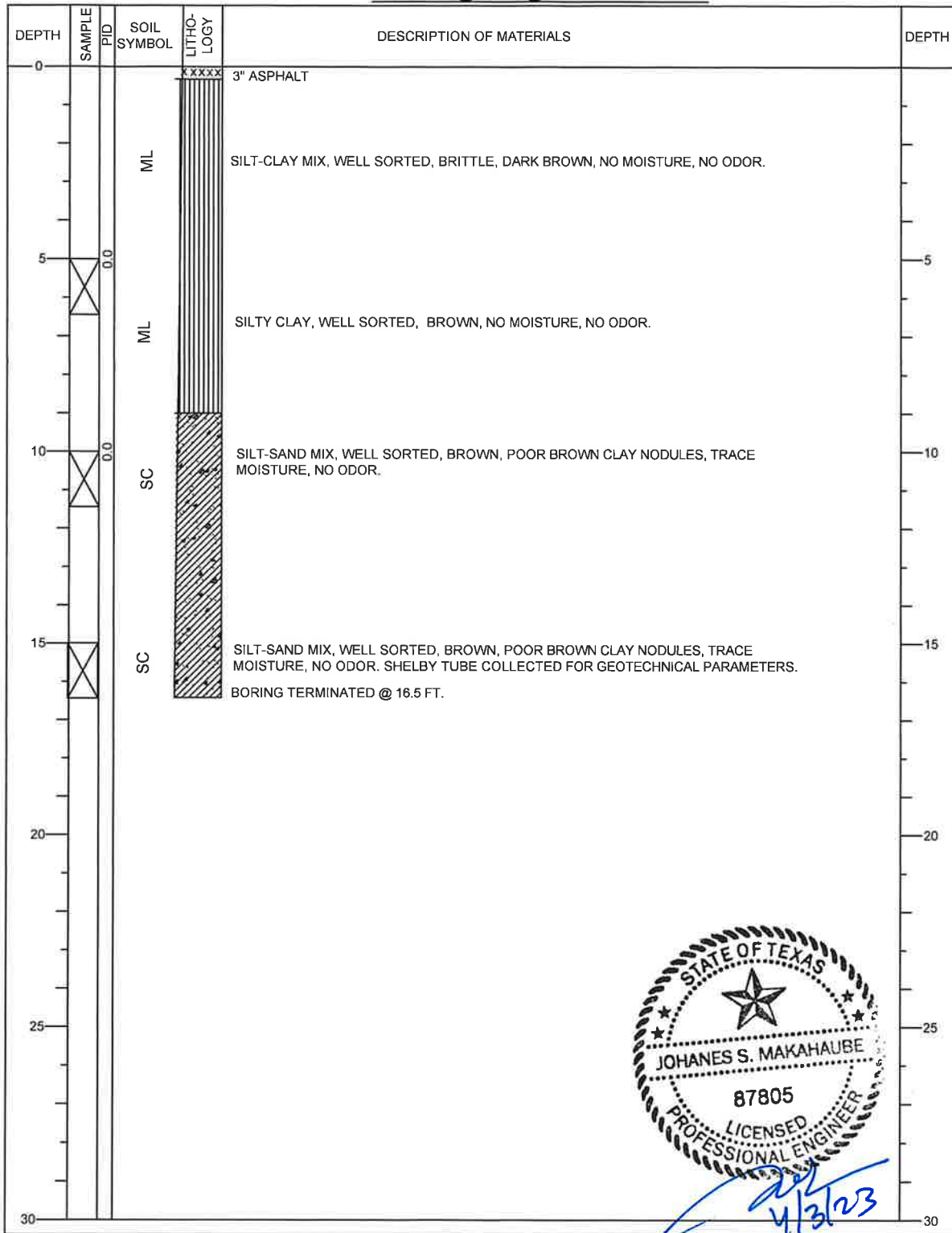
DEPTH	SAMPLE	PID	SOIL SYMBOL	LITHO- LOGY	DESCRIPTION OF MATERIALS	DEPTH
0				XXXXXX	3" ASPHALT	
			SP		COARSE GRAINED SAND, WELL SORTED, DARK BROWN, BROKEN GLASS DEBRIS, NO MOISTURE, NO ODOR.	
5		0.0	SP		FINE GRAINED SAND, WELL SORTED, LIGHT BROWN, METAL DEBRIS, NO MOISTURE, NO ODOR.	5
10					BORING TERMINATED @ 10 FT DUE TO AUGER REFUSAL.	10
15						15
20						20
25						25
30						30



TD: 10 FT  
6/15/22

Project No. <b>B&amp;C 22-01</b>	<h2 style="margin: 0;">Boone Phase 2 &amp; 2a</h2> <h3 style="margin: 0;">El Paso, Texas</h3> <hr/> <h2 style="margin: 0;">Boring Log of SB-11</h2>	Sheet No.  <b>1 OF 1</b>
Date: June 2022 Scale: 1:40 dwg by: ESSCO designed by: ESSCO		
	1000 Newman St. El Paso, Texas 79902      Ph: (915) 533-1102      Fx: (915) 533-1103	

# Boring Log of SB - 12



TD: 11 FT  
6/15/22

Project No. B&C 22-01 Date: June 2022 Scale: 1:40 dwg by: ESSCO designed by: ESSCO	<h2 style="margin: 0;">Boone Phase 2 &amp; 2a</h2> <h3 style="margin: 0;">El Paso, Texas</h3> <hr style="border: 1px solid black;"/> <h2 style="margin: 0;">Boring Log of SB-12</h2>	Sheet No.  <b>1 OF 1</b>	 <small>1000 Newman St El Paso, Texas 79902    Ph: (915) 533-1102 F: (915) 533-1103</small>
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# Boring Log of SB - 13

DEPTH	SAMPLE	PID	SOIL SYMBOL	LITHO-LOGY	DESCRIPTION OF MATERIALS	DEPTH
0				XXXXX	3" ASPHALT	
			SM		SILT-SAND MIX, BROWN, NO MOISTURE, NO ODOR.	
5	X	0.0				5
			SM		SILT-SAND MIX, BROWN, NO MOISTURE, BLUE/GREEN AND RUST COLORED METAL DEBRIS NO ODOR.	
10	X	0.0				10
			SP		FINE GRAINED SAND, WELL SORTED, BROWN, TRACE ASPHALT FRAGMENTS, NO MOISTURE, NO ODOR.	
15	X	0.0				15
			SP		FINE GRAINED SAND, WELL SORTED, BROWN, AREAS OF BLACK DISCOLORATION, NO MOISTURE, NO ODOR.	
					BORING TERMINATED @ 16.5 FT	
20						20
25						25
30						30



TD: 16.5 FT  
6/15/22

Project No. B&C 22-01 Date: June 2022 Scale: 1:40 dwg by: ESSCO designed by: ESSCO	<h2 style="margin: 0;">Boone Phase 2 &amp; 2a</h2> <h3 style="margin: 0;">El Paso, Texas</h3> <hr style="border: 1px solid black;"/> <h2 style="margin: 0;">Boring Log of SB-13</h2>	Sheet No.  <b>1 OF 1</b>	<p style="font-size: small; margin-top: 5px;">1000 Newman St. El Paso, Texas 79902    Ph: (915) 533-1102 Fax: (915) 533-1103</p>
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# Boring Log of SB - 14

DEPTH	SAMPLE	PID	SOIL SYMBOL	LITHO-LOGY	DESCRIPTION OF MATERIALS	DEPTH
0				XXXXX	3" ASPHALT	
			SC	[Hatched Pattern]	SILT-CLAY MIX, MALLEABLE WHEN COMPRESSED, BROWN, NO MOISTURE, NO ODOR.	
5	X	0.0	SP SC	[Dotted Pattern]	SILT-CLAY MIX, MALLEABLE WHEN COMPRESSED, BROWN, NO MOISTURE, NO ODOR. FINE GRAINED SAND, WELL SORTED, BROWN, NO MOISTURE, NO ODOR.	5
			SP	[Dotted Pattern]	FINE GRAINED SAND, WELL SORTED, NO MOISTURE, NO ODOR.	
10	X	0.0	SP	[Dotted Pattern]	FINE GRAINED SAND, WELL SORTED, NO MOISTURE, NO ODOR.	10
			GW	[Stippled Pattern]	FINE GRAINED SAND, WELL SORTED, SPARSE 1/8" ANGULAR GRAVEL CLASTS, NO MOISTURE, NO ODOR.	
15	X	0.0	GW	[Stippled Pattern]	BORING TERMINATED @ 16.5 FT	15
20						20
25						25
30						30



TD: 16.5 FT  
6/15/22

Project No. B&C 22-01 Date: June 2022 Scale: 1:40 dwg by: ESSCO designed by: ESSCO	<h2 style="margin: 0;">Boone Phase 2 &amp; 2a</h2> <h3 style="margin: 0;">El Paso, Texas</h3> <hr style="border: 1px solid black;"/> <h2 style="margin: 0;">Boring Log of SB-14</h2>	Sheet No.  <div style="font-size: 24px; font-weight: bold;">1</div> OF <div style="font-size: 24px; font-weight: bold;">1</div>	 <small>1000 Newman St El Paso, Texas 79902</small> <small>Ph: (915) 533-1102 Fx: (915) 533-1103</small>
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# Boring Log of SB - 15

DEPTH	SAMPLE	PID	SOIL SYMBOL	LITHO-LOGY	DESCRIPTION OF MATERIALS	DEPTH
0				XXXXXX	3" ASPHALT	
			GC		SILT-CLAY-POORLY SORTED GRAVEL MIX, 0.5" TO 0.2" ANGULAR GRAVEL CLASTS, BROWN, NO MOISTURE, NO ODOR. GLASS DEBRIS PRESENT.	
5		0.0	SP GC		SILT-CLAY-POORLY SORTED GRAVEL MIX, 0.5" TO 0.2" ANGULAR GRAVEL CLASTS, BROWN, NO MOISTURE, NO ODOR. GLASS DEBRIS PRESENT.	5
			SP GC		FINE GRAINED SAND, WELL SORTED, NO MOISTURE, NO ODOR.	
10		0.0	SC		FINE GRAINED SAND, WELL SORTED, POOR BROWN CLAY NODULES, TRACE MOISTURE, NO ODOR.	10
15		0.0	GP		FINE GRAINED SAND, WELL SORTED, SPARSE 1/8" ANGULAR GRAVEL CLASTS, NO MOISTURE, NO ODOR.	15
					BORING TERMINATED @ 16.5 FT	
20						20
25						25
30						30

TD: 16.5 FT  
6/15/22



Project No. B&C 22-01 Date: June 2022 Scale: 1:40 dwg by: ESSCO designed by: ESSCO	<h2 style="margin: 0;">Boone Phase 2 &amp; 2a</h2> <h3 style="margin: 0;">El Paso, Texas</h3> <hr/> <h2 style="margin: 0;">Boring Log of SB-15</h2>	Sheet No.  <b>1 OF 1</b>	 1000 Newman St. El Paso, Texas 79902 Ph: (915) 533-1102 Fax: (915) 533-1103
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# Boring Log of SB - 16

DEPTH	SAMPLE	PID	SOIL SYMBOL	LITHO- LOGY	DESCRIPTION OF MATERIALS	DEPTH
0				XXXXX	3" ASPHALT	
			GM	[Pattern: Vertical Lines]	SILT-SAND-1" ANGULAR GRAVEL CLAST MIX, BROWN, NO MOISTURE, NO ODOR.	
5	X	0.0	ML	[Pattern: Vertical Lines]	SILT, BLACK TO RUST COLORED WITH GLASS FRAGMENTS ABOVE 5'6", BROWN STRIATED BELOW 5'6", NO MOISTURE, NO ODOR.	5
10	X	0.0	SP	[Pattern: Dotted]	FINE GRAINED SAND, WELL SORTED, LIGHT BROWN, NO ODOR.	10
15	X	0.0	ML	[Pattern: Vertical Lines]	SILT, LIGHT BROWN, NO MOISTURE, NO ODOR.	15
					BORING TERMINATED @ 16.5 FT	
20						20
25						25
30						30



TD: 16.5 FT  
6/15/22

Project No.	B&C 22-01
Date:	June 2022
Scale:	1:40
dwg by:	ESSCO
designed by:	ESSCO

**Boone Phase 2 & 2a**  
**El Paso, Texas**

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**Boring Log of SB-16**

**ESSCO**  
ENVIRONMENTAL

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El Paso, Texas 79902    Ph: (915) 533-1102  
F: (915) 533-1103

Sheet No.
1 OF 1



# Boring Log of SB - 17

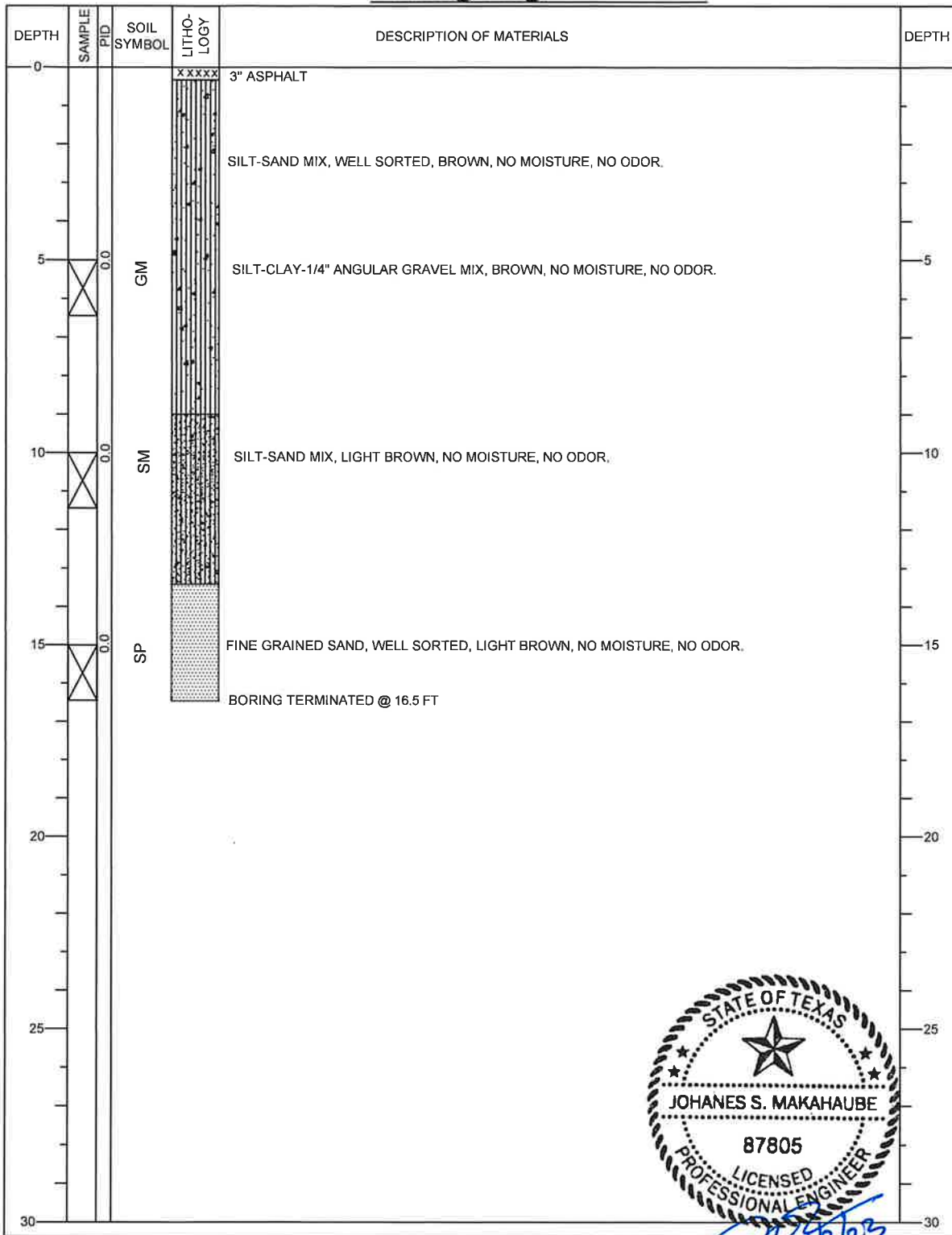
DEPTH	SAMPLE PID	SOIL SYMBOL	LITHO- LOGY	DESCRIPTION OF MATERIALS	DEPTH
0			XXXXXX	3" ASPHALT	
		GM		SILT-SAND-1" GRAVEL CLAST MIX, WELL SORTED, BROWN, NO MOISTURE, NO ODOR.	
5	0.0	SM		SILT-SAND MIX, LIGHT BROWN, NO MOISTURE, NO ODOR.	5
10	0.0	SM		SILT-SAND MIX, LIGHT BROWN, NO MOISTURE, NO ODOR.	10
15	0.0	ML		SILT SAND MIX, BROWN, POOR BROWN CLAY NODULES, NO MOISTURE, NO ODOR.	15
				BORING TERMINATED @ 16.5 FT	
20					20
25					25
30					30



TD: 16.5 FT  
6/15/22

Project No. B&C 22-01 Date: June 2022 Scale: 1:40 dwg by: ESSCO designed by: ESSCO	<h2 style="margin: 0;">Boone Phase 2 &amp; 2a</h2> <h3 style="margin: 0;">El Paso, Texas</h3> <hr style="border: 1px solid black;"/> <h2 style="margin: 0;">Boring Log of SB-17</h2>	Sheet No.  <b>1 OF 1</b>	 1000 Newman St. El Paso, Texas 79902 Ph: (915) 533-1102 Fax: (915) 533-1103
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# Boring Log of SB - 18



TD: 16.5 FT  
6/15/22

Project No.
B&C 22-01
Date: June 2022
Scale: 1:40
dwg by: ESSCO
designed by: ESSCO

**Boone Phase 2 & 2a**  
**El Paso, Texas**

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**Boring Log of SB-18**

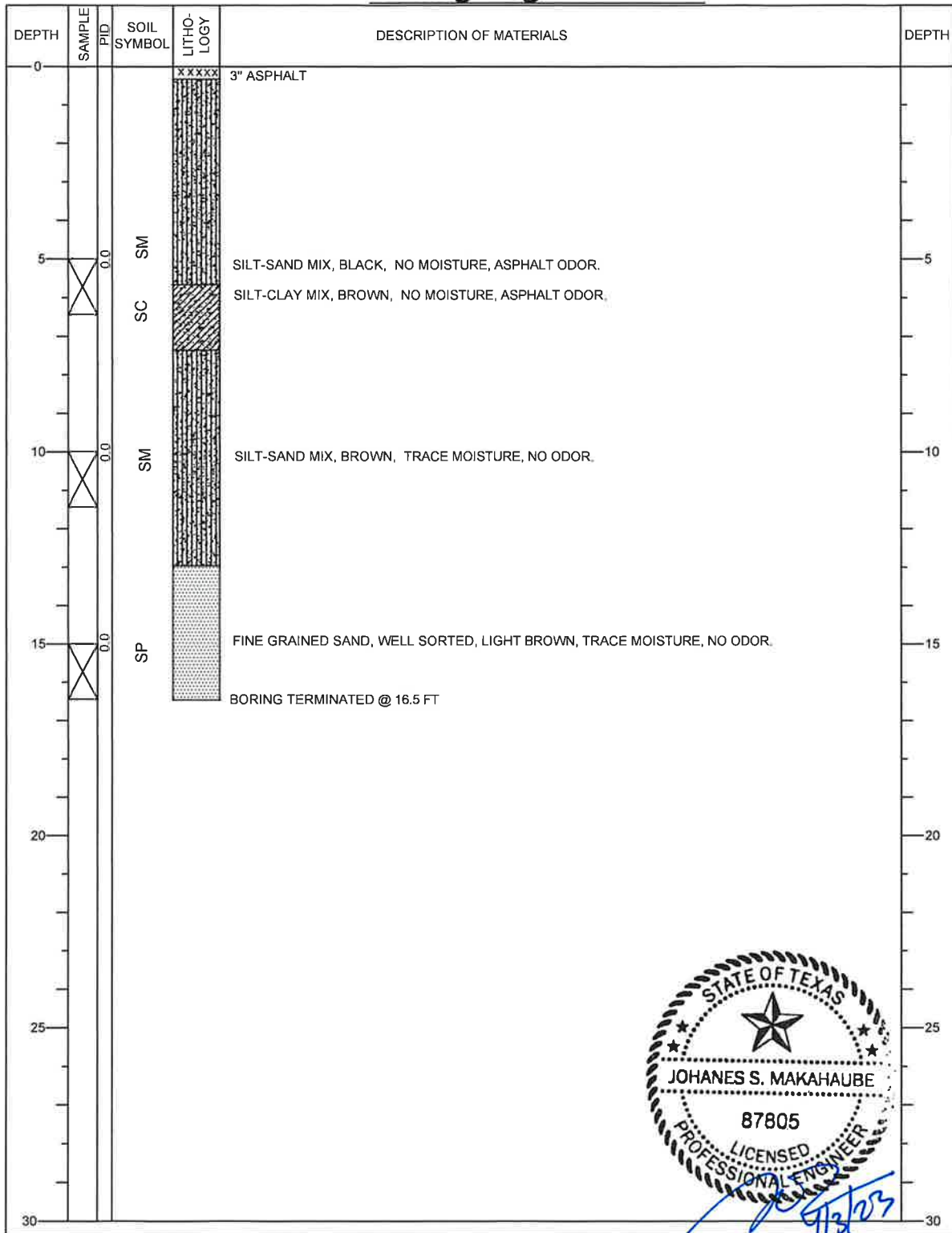


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Sheet No.
1 OF 1

# Boring Log of SB - 19



TD: 16.5 FT  
6/16/22

Project No.
B&C 22-01
Date: June 2022
Scale: 1:40
dwg by: ESSCO
designed by: ESSCO

**Boone Phase 2 & 2a**  
**El Paso, Texas**

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**Boring Log of SB-19**



Sheet No.
<b>1 OF 1</b>

# Boring Log of SB - 20

DEPTH	SAMPLE	PID	SOIL SYMBOL	LITHO-LOGY	DESCRIPTION OF MATERIALS	DEPTH
0				XXXXXX	3" ASPHALT	
5	X	0.0	ML		SILT, LIGHT BROWN, NO MOISTURE, NO ODOR. SAMPLE COLLECTED AT 11:00.	5
10	X	0.0	ML		SILT, LIGHT BROWN, NO MOISTURE, NO ODOR.	10
15	X	0.0	SC		SILT, LIGHT BROWN, POOR BROWN CLAY NODULES, NO MOISTURE, NO ODOR.	15
					BORING TERMINATED @ 16.5 FT	
20						20
25						25
30						30



TD: 16.5 FT  
6/16/22

Project No. B&C 22-01 Date: June 2022 Scale: 1:40 dwg by: ESSCO designed by: ESSCO	<h2 style="margin: 0;">Boone Phase 2 &amp; 2a</h2> <h3 style="margin: 0;">El Paso, Texas</h3> <hr style="border: 1px solid black;"/> <h2 style="margin: 0;">Boring Log of SB-20</h2>	Sheet No.  <b>1 OF 1</b>	<p style="font-size: small; margin-top: 5px;">1000 Newman St. El Paso, Texas 79902    Ph: (915) 533-1102 F: (915) 533-1103</p>
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# **ATTACHMENT IV – LHHR ASSESSMENT**

**LIMITED HUMAN HEALTH RISK ASSESSMENT**

of

**BOONE SIPHON PROJECT  
SHELTER PLACE AND 4321 DELTA DRIVE  
EL PASO, COUNTY OF EL PASO, TEXAS**

**Prepared for**

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**Prepared by**

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El Paso, Texas 79932**

**March 31, 2023**

**PSI Project No. 06252687**



A handwritten signature in blue ink, appearing to read "Jeremy Jernigan".

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Principal Consultant

A handwritten signature in blue ink, appearing to read "Michael D. Monteith".

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## 1.0 INTRODUCTION

Professional Service Industries, Inc. (PSI), an Intertek company, was retained by ESSCO Environmental, Inc. (ESSCO) to conduct a Limited Human Health Risk Assessment (HHRA). As requested, the Limited HHRA was performed to estimate the potential risks/hazards to the future construction worker receptor from site-related contamination in the soil at the Boone Siphon Project, located in El Paso, Texas. The type and magnitude of exposures to Chemicals of Potential Concern (COPCs) at the site were estimated, potential exposure pathways, receptors, and exposure scenarios were identified, and potential exposure was quantified.

The purpose of this report is to present the results of a Limited HHRA that estimates the potential risks/hazards to future construction worker receptors from site-related contamination in the soil at the Boone Siphon Project, located in El Paso, Texas. The Limited HHRA is based on analytical data, historical information, and recommendations/conclusions presented in previous investigation reports. This Limited HHRA uses the data from previously collected soil samples and additional data that have been presented within the current site investigation performed by ESSCO.

This report was prepared in reference to PSI Proposal No. 0625-378784 that was authorized by Mr. Johannes Makahaube of ESSCO, on September 23, 2022. That contractual relationship included an exchange of information about the property that was unique and between PSI and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between PSI and its client, reliance or any use of this report by anyone other than the client, for whom it was prepared, is prohibited and therefore not foreseeable to PSI.

### 1.1 AUTHORIZATION

This report was prepared in reference to a signed copy of PSI Proposal No. 0625-378784 dated July 20, 2022. That contractual relationship included an exchange of information about the property that was unique and between PSI and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between PSI and its client, reliance or any use of this report by anyone other than the client, for whom it was prepared, is prohibited and therefore not foreseeable to PSI.

### 1.2 WARRANTY

Our professional services have been performed, our findings obtained, and our conclusions and recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

The results reported herein are considered sufficient in detail and scope to evaluate exposure risk for construction workers at the project site to substances identified in the referenced ESSCO site investigation. PSI warrants that the findings contained herein have been prepared in accordance with accepted practices as applied by similar professionals in the community. Subsequent changes in the state of the art or in applicable regulations cannot be anticipated and have not been addressed in this report.





There is a possibility that conditions may exist which could not be identified within the scope of the study, or which were not apparent during review of information provided. The study is also limited to the information made available by ESSCO at the time it was conducted.

### **1.3 PROJECT BACKGROUND**

The Boone Siphon Project involves the installation of approximately 2,000 linear feet of sanitary sewer line through a former unauthorized landfill and alongside a current wastewater treatment plant. Trenching activities will consist of excavating and stockpiling soil along a 10 feet wide path to a depth of up to 15 feet along the entire project length.

The Project Site was described as portions of Tobin Place Burlison Elementary School, the parking north of the Jimmy Ochoa Baseball Field, the parking area along Shelter Place, portions of Delta Drive along the Haskell Wastewater Treatment Plant frontage, and at the entrance to the International Water Laboratory/Haskell Wastewater Treatment plant. Historic land use in the vicinity of the Project Site includes a former unauthorized landfill and current waste water treatment plant area. Two (2) Phase II Environmental Site Assessments (ESA), final dated May 2020 and a draft dated August 2022, conducted by ESSCO for the Project Site and found that environmental impacts to the shallow subsurface soils are present over the Project Site with one (1) boring exhibiting a Mercury concentration exceeding Texas Commission of Environmental Quality (TCEQ) Protective Concentrations for Residential Soil, one boring exhibiting Arsenic concentrations exceeding Texas Specific Background Soil Concentrations and one boring exhibiting Lead concentrations exceeding TCEQ Protective Concentrations for Commercial Soil. Select soil geotechnical properties were provided by ESSCO to aid in risk calculations. Site plans from the referenced Phase II ESAs performed in 2020 and 2022 depicting the project area are provided as Figures 1 through 4.

### **1.4 OBJECTIVES AND SCOPE**

The objective of the project is to conduct a site-specific limited HHRA for human receptors at the Boone Siphon Project. All previously collected data was evaluated to determine whether it was acceptable for use in an HHRA. Data considered acceptable were used to identify and screen for COPCs. For the receptors present at the site, the HHRA estimated the magnitude of assumed exposure to COPCs and identified potential exposure pathways. This information, in conjunction with toxicity information for the COPCs, provides a quantitative risk assessment and determines if potential risks to human health associated with exposure to chemicals in the soil encountered during construction at the Boone Siphon Project are acceptable. The Limited HHRA was conducted following techniques and methods prescribed by the USACE and USEPA.

As requested by the client, the scope of this Limited HHRA only evaluates the risks for assumed human exposure to soil contamination during the construction activities associated with the Boone Siphon Project. Other exposure pathways were not evaluated as part of this HHRA.



## 2.0 DATA EVALUATION AND IDENTIFICATION OF CHEMICALS OF POTENTIAL CONCERN

### 2.1 SUMMARY OF EXISTING DATA

The referenced Phase II ESAs were conducted to evaluate potential environmental impacts under the Project Site resulting from the historic land use of the Project Site as an unregulated landfill and adjacent wastewater treatment facility. Environmental observations were conducted during the installation of 25 subsurface soil borings to a depth of approximately 15 feet below ground surface (ft bgs) and the collection of 65 representative soil samples for analysis of potential regulated chemical of concern from select boring locations on the Project Site. Soil samples were submitted for total petroleum hydrocarbons (TPH) laboratory analysis via Method TX-1005, RCRA 8 metals via EPA Method 6010 to assess potential hydrocarbon and heavy metal impacts, and Volatile Organic Compounds via Method 8260 (one sample per boring). Site plans from the referenced Phase II ESAs depicting the project area are provided as Figures 1 through 4. Summary tables of laboratory analytical results from the referenced Phase II ESAs are provided in Appendix A.

A summary of the laboratory analytical results for the referenced Phase II ESAs follows:

- Various metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) were detected above the respective laboratory detection limit. Samples from borings SB-9, 11, 12, 13, and 16 identified various metals (arsenic, lead, mercury, and selenium) at various depths exceeding Texas Median Specific Background Concentrations, while sample SB-16 @ 5' measured a Lead concentration in the 2022 ESA above commercial protective standards and sample SB-3 @ 2.5' measured a Mercury concentration in the 2020 ESA above residential protective standards.
- Analysis of the submitted soil samples indicates total petroleum hydrocarbons (TPH) present in concentrations slightly above the respective laboratory detection limits in samples from SB-1 and SB-3 in the C12-C28 and C28-C35 TPH ranges. These ranges indicate medium and heavy weight carbon chain hydrocarbons (i.e., hydraulic fluid, motor oil) and heavy weight carbon chain hydrocarbons, (i.e., waste oil, gear oil).
- Toluene was detected in samples from borings SB-9 and 10 at concentrations slightly above the laboratory detection limit.
- Methylene Chloride was detected in a sample from SB-15 at 10 ft bgs slightly above the laboratory detection limit.
- No other VOCs were measured above their respective laboratory detection limit.

Groundwater was not encountered during the investigation and thus was not evaluated. It is expected to be present on the order of 60 ft bgs or greater.

### 2.2 IDENTIFICATION OF CHEMICALS OF POTENTIAL CONCERN

COPCs were identified from the 65 samples representative of soils in place at the site. As provided in the Phase II ESAs for the Project Site, data for each detected analyte from the soil samples were screened to identify COPCs in soils. The maximum detected concentration (from up to 15 feet bgs) of each chemical was compared to the USEPA Residential Regional Screening Levels (RSL) (USEPA 2022). For carcinogens, the RSL is protective of a risk level of  $1 \times 10^{-6}$ . For noncarcinogens, the RSL is protective of a hazard quotient of 1. To account for potential cumulative effects,



the RSLs for noncarcinogens were divided by 10 to be protective of a hazard quotient of 0.1. Only chemicals detected at concentrations that exceed the RSLs were retained as COPCs.

Following this procedure, the following five (5) COPCs were identified in soil for quantitative evaluation:

- Arsenic;
- Cadmium;
- Chromium
- Lead; and
- Mercury.

Based on the lack of comparable standards for the identified ranges of TPH in the EPA RSL Guidance and low measured concentrations [slightly above laboratory detection limits in four (4) of 65 samples], TPH was not considered a COPC for this assessment.

A summary of the information used to evaluate detected analytes for the determination of COPCs is provided in Table 1

### **2.3 STATISTICAL EVALUATION OF DATA**

The 95 percent Upper Confidence Limit (UCL) of the mean (95% UCL) to generate the Upper Confidence Limit (UCL) of each COPC was used to estimate the concentration of a contaminant that a receptor could be exposed to over a length of time. This exposure point concentration (EPC) was then used to estimate risk. All limits were calculated using the latest version of ProUCL from USEPA; i.e., ProUCL v5.2. Refer to the ProUCL User's and Technical Guides for a detailed discussion of the statistical methods used. Criteria for the selection of the computational method, as well as the formulae for the computational methods, are provided by USEPA technical guidance and are not repeated here. ProUCL uses the Kaplan-Meier method to account for non-detects in the calculation of UCLs.

The UCLs recommended by ProUCL were used as the EPCs for the reasonable maximum exposure (RME) exposure scenario. The EPCs for RME calculated using ProUCL are summarized in Table 1. In a case where the UCL was greater than the maximum detected concentration, the maximum detected concentration was used as the RME in accordance with USEPA guidance. The summary statistics and the detailed output from ProUCL are presented in Appendix B.



## **3.0 EXPOSURE/TOXICITY ASSESSMENT**

### **3.1 EXPOSURE ASSESSMENT**

The current Limited HHRA specifically addresses the Construction Worker receptor. Potential exposure pathways to contaminated soil during construction include inhalation, direct contact and inhalation of fugitive dust particles by construction workers and visitors. Exposure point concentrations estimated using USEPA ProUCL for soil under RME scenarios are presented Table 1.

### **3.2 TOXICITY ASSESSMENT**

The USEPA's Regional Screening Level Calculator was utilized for the current Limited HHRA to estimate risk for the Construction Worker receptor. Toxicity values are embedded in the program for specific chemicals that may cause adverse effects in exposed individuals and to provide, where possible, an estimate of the relationship between the extent of exposure to a chemical and the increased likelihood and/or severity of adverse effects. The types of toxicity values used in risk assessment include oral reference doses (RfDs), inhalation reference concentrations (RfCs), oral slope factors (SFs), and inhalation unit risk factors (URFs). SFs and URFs are used to evaluate carcinogenic effects. RfDs and RfCs are used to evaluate noncarcinogenic effects.



## 4.0 RISK CHARACTERIZATION

The purpose of the risk characterization is to quantitatively estimate the potential for cancer (i.e., risk) and noncancer (i.e., hazard) effects. To characterize potential noncarcinogenic effects, estimated exposure levels were compared with their respective toxicity values. To characterize potential carcinogenic effects, the incremental probability of an individual developing cancer over a lifetime was calculated from the estimated exposure levels and chemical-specific dose/response information (i.e., carcinogenic toxicity factors). Cancer risk (for carcinogens) and hazard quotient (HQ; for noncarcinogens) estimates were calculated for each COPC. Cancer risk and HQ were calculated for RME exposure scenario. The RME exposure represents the conservative scenario. If the risk and HQ for the RME scenario are within the USEPA acceptable risk ranges and below the acceptable hazard level, the receptors will be protected.

The USEPA's Regional Screening Level Calculator was utilized for the current Limited HHRA to estimate risk for the Construction Worker receptor. Site specific conditions were provided by ESSCO and calculated RMEs for each COPC were entered into the system, replacing default values for the assessment of construction worker risk. These site conditions provided by ESSCO include the following:

- The project is estimated to be completed within six (6) months. Therefore, an estimated value of 26 weeks worked was used.
- The excavation area was estimated to be approximately 10 feet wide and 2,000 feet in length. After conversion, a value of 1,860 square meters was used.
- Excavation depths were estimated to extend up to 15 feet bgs.
- The average wind speeds in the area of the subject site were indicated to be 4.92 meters per second.
- Bulk density of soil at the site is 1.59 grams per cubic centimeter.
- Average depth of COPCs was estimated to 1.5 meters bgs.

### 4.1 CARCINOGENIC EFFECTS

For carcinogens, risks are estimated as the incremental probability of an individual developing cancer over a lifetime (assumed to be 70 years) as a result of exposure to the potential carcinogen (i.e., incremental or excess individual lifetime cancer risk). For example, an excess lifetime cancer risk of  $1 \times 10^{-6}$  indicates an individual has a one-in-one-million probability of developing cancer over a lifetime as a result of site-related exposures to a specific COPC. Carcinogenic risk probabilities were estimated by multiplying the exposure level calculated for each exposure route by the corresponding cancer toxicity value.

Risk probabilities are assumed to be additive for all COPCs across all exposure pathways to estimate a total excess cancer risk. After summing all of the risks, the total excess cancer risk estimates are then compared to the point of departure of  $1 \times 10^{-6}$ . In general, total risks greater than  $1 \times 10^{-4}$  require action; risks between  $1 \times 10^{-6}$  and  $1 \times 10^{-4}$  are in the risk management range and require the stakeholders to discuss and decide whether the risk estimates are acceptable; and risks less than  $1 \times 10^{-6}$  are generally considered acceptable.

### 4.2 NONCARCINOGENIC EFFECTS

For exposure to noncarcinogens, adverse effects are not assumed to occur below a certain threshold (i.e., the RfD or RfC). The potential for adverse noncarcinogenic effects (i.e., the hazard quotient or HQ) was estimated by dividing the exposure level calculated for each exposure route by the corresponding noncancer toxicity value (i.e., RfD or RfC).



After summing all the HQs for all COPCs across all exposure pathways, the sum (called a hazard index or HI) is then compared to the USEPA acceptable hazard level of 1. An HQ or HI less than 1 indicates a very low threat of adverse health effects, whereas an HQ or HI in excess of 1 indicates the potential for noncancer effects (USEPA 1989a). It is important to consider that a HQ or HI above 1 only indicates a potential for noncarcinogenic adverse health effects for the receptor. It does not predict the incidence, or severity, of effects.

### **4.3 RISK CHARACTERIZATION RESULTS**

Total excess cancer risks for assumed construction worker exposures to soil (through incidental ingestion of soil, dermal contact with soil, and the inhalation of outdoor dust) were estimated using the RMEs shown in Table 1. This results in a total risk estimate of  $6.44 \times 10^{-8}$ . This risk estimate is under the USEPA target risk range of  $1 \times 10^{-6}$ .

Assumed construction worker exposures to these COPCs resulted in an HI of 0.890. The HI does not exceed one. This indicates that assumed exposures will not result in adverse health effects.

Appendix C provides the supporting data output from the USEPA's Regional Screening Level Calculator for the results presented in these tables.



## 5.0 CONCLUSIONS

The primary objective of this Limited HHRA was to quantitatively characterize the human health risk associated with current and reasonably expected future exposure of the construction worker to contaminated soils at the Boone Siphon Project. The exposure pathways evaluated here include incidental soil ingestion, dermal contact with soil, and inhalation of particulates for the construction worker receptor. Table 2 provides a summary of the human health risk for each COPC and summary of the total cancer risk and total hazard index for the construction worker receptor under the evaluated scenario.

The cumulative cancer risk estimates for construction workers exposed to mixed soil (0-15 ft bgs) are below the USEPA target risk of  $1 \times 10^{-6}$ . Thus, unacceptable cancer risks to the receptors at the site are not expected from assumed exposures to COPCs in soils.

The hazard indices (HI) estimated for construction workers exposed to mixed soil (0-15 ft bgs) are below the benchmark of 1 under the RME exposure scenario. Thus, unacceptable hazard to the receptors at the site are not expected from assumed exposures to COPCs in soil.

Note, the soil sample collected from Boring SB-16 at a depth of 5 ft bgs contained lead at a concentration of 12,600 mg/kg and from Boring SB-3 at a depth of 2.5 ft bgs contained mercury at a concentration of 5.57 mg/kg. Proper personal hygiene (washing of hands and face and restriction of eating in the work area) and dust control methods should be implemented in the area and depth of these sample collection points.

In addition, discovery of isolated areas of impacted soil cannot be entirely ruled out. The following measures should be implemented during excavation activities:

- Ambient air monitoring in the vicinity of site workers should be conducted using a photoionization detector (PID) and dust meter. Action levels of 5 parts per million of volatile organic compounds (VOCs) for PID measurements and 5 milligrams per cubic meter of respirable dust for dust monitoring should be used as screening thresholds for implementation of site controls.
- If air monitoring action limits are exceeded mitigation measures such as ventilation (for VOCs measured by PID) or dust control (for metals indicated by dust) should be instituted until air readings are acceptable. Personal exposure monitoring should be conducted if the referenced action levels are exceeded to verify working conditions remain below occupational exposure limits.
- If air measurements cannot be maintained below action limits or unsafe conditions are encountered in the soils, work should stop and appropriate actions conducted to control exposure to identified conditions.



## FIGURES





SOURCE: GOOGLE EARTH 2022

Project No.

Brown & Caldwell-22-01

Date: August 2022

Scale: NTS

dwg by: ESSCO

designed by:  
ESSCO

**Boone Phase 2 & 2a  
Shelter Place and 4321 Delta Drive  
El Paso, Texas**

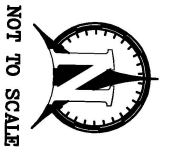
**Site Location Map**



1000 Newman St.  
El Paso, Texas 79902 Ph: (915) 533-1102  
Fx: (915) 533-1103

Sheet No.

**1 OF 3**

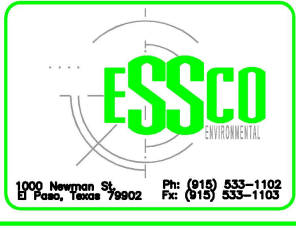


NOT TO SCALE

**Legend**

 **Project Site**

Project No.	Brown & Caldwell 22-01
Date:	August 2022
Scale:	NTS
dwg by:	ESSCO
designed by:	ESSCO

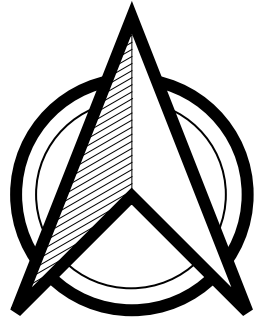


**Boone Phase 2 & 2a**  
**Shelter Place and 4321 Delta Drive**  
**El Paso, Texas**

**Site Plan Map**

Revisions

Sheet No.



Scale: 1:120

### Legend

- Original Borings
- Second Borings 2022

Indicated in 2020  
ESA as SBX



Project No.  
P21-B&C-01  
Date: March 2022  
Scale: 1:120  
drg by: RNIEHAY  
designed by: ESSCO



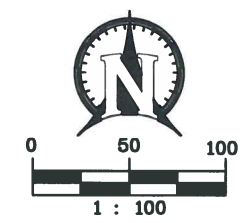
## Boone Siphon Additional Environmental Sampling Proposed Route 5 Near Haskell WWTP

### Boring Map

REVISIONS


Sheet No.

**3 of 3**



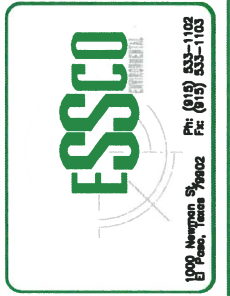
**LEGEND**

**SB-3**  
 Soil Boring Location

**NOTES:**

1. Soil Boring Locations are Graphical Representations only. Locations Selected by CQC.
2. Tables 1 and 2 Present Analytical Concentrations. See Accompanying Report.
3. Environmental Impact Concentrations Depicted Next to Soil Borings Represent Concentrations Exceeding Screening Levels (TPH) and TCEQ PCLs (Mercury). See Accompanying Report for Detailed Information.

Project No.	CQC-20-01
Date:	July 2020
Scale:	NTS
dwg by:	ESSCO
designed by:	ESSCO



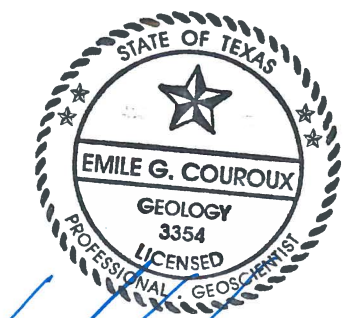
**Limited Environmental Site Assessment**  
**Shelter Place and 4321 Delta Drive**  
 El Paso, Texas  
**Site Plan & Environmental Impact Map**

**TABLE 1 - SUMMARY OF TPH**

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE DEPTH (ft)	TPH (C6-C12) [TX-1005] (mg/kg)	TPH (C12-C28) [TX-1005] (mg/kg)	TPH (C28-C35) [TX-1005] (mg/kg)	TPH (Total) (C6-C35) [TX-1005] (mg/kg)
<b>TIER 1 RESIDENTIAL (TotSoil<sub>comb</sub>):</b>			<b>1600</b>	<b>2300</b>	<b>2300</b>	<b>2300</b>
<b>TIER 1 COMMERCIAL (TotSoil<sub>comb</sub>):</b>			<b>3900</b>	<b>12000</b>	<b>12000</b>	<b>12000</b>
SB1	4/14/2020	2.5	<49.9	<b>60.2</b>	<49.9	<b>60.2</b>
SB1	4/14/2020	5.0	<49.4	<b>304</b>	<49.4	<b>304</b>
SB1	4/14/2020	15.0	<49.8	<49.8	<49.8	<49.8
SB2	4/14/2020	10.0	<49.8	<49.8	<49.8	<49.8
SB3	4/14/2020	2.5	<49.7	<b>114</b>	<b>123</b>	<b>237</b>
SB3	4/14/2020	5.0	<49.9	<49.9	<49.9	<49.9
SB4	4/14/2020	2.5	<50.0	<50.0	<50.0	<50.0
SB5	4/14/2020	10.0	<50.0	<50.0	<50.0	<50.0

**TABLE 2 - SUMMARY OF RCRA 8 METALS**

SAMPLE DESIGNATION	SAMPLE DATE	SAMPLE DEPTH (ft)	Lead (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Mercury (mg/kg)
<b>TEXAS-SPECIFIC BACKGROUND:</b>			<b>15</b>	<b>5.9</b>	<b>300</b>	<b>—</b>	<b>30</b>	<b>0.3</b>	<b>—</b>	<b>0.04</b>
<b>TIER 1 RESIDENTIAL (TotSoil<sub>comb</sub>):</b>			<b>500</b>	<b>24</b>	<b>8100</b>	<b>52</b>	<b>33000</b>	<b>310</b>	<b>97</b>	<b>3.6</b>
<b>TIER 1 COMMERCIAL (TotSoil<sub>comb</sub>):</b>			<b>1600</b>	<b>200</b>	<b>120000</b>	<b>810</b>	<b>120000</b>	<b>4900</b>	<b>2300</b>	<b>6.2</b>
SB1	4/14/2020	2.5	<b>12.1</b>	<b>3.5</b>	<b>89.2</b>	<b>&lt;1.89</b>	<b>7.56</b>	<b>&lt;1.89</b>	<b>&lt;1.89</b>	<b>&lt;0.02</b>
SB1	4/14/2020	5.0	<b>3.02</b>	<b>&lt;1.82</b>	<b>29</b>	<b>&lt;1.82</b>	<b>4.9</b>	<b>&lt;1.82</b>	<b>&lt;1.82</b>	<b>&lt;0.0167</b>
SB1	4/14/2020	15.0	<b>2.35</b>	<b>&lt;2.00</b>	<b>27.2</b>	<b>&lt;2.00</b>	<b>&lt;4.00</b>	<b>&lt;2.00</b>	<b>&lt;2.00</b>	<b>&lt;0.0169</b>
SB2	4/14/2020	10.0	<b>3.28</b>	<b>&lt;1.82</b>	<b>35.5</b>	<b>&lt;1.82</b>	<b>3.71</b>	<b>&lt;1.82</b>	<b>&lt;1.82</b>	<b>&lt;0.0179</b>
SB3	4/14/2020	2.5	<b>326</b>	<b>&lt;1.79</b>	<b>188</b>	<b>&lt;1.79</b>	<b>16.1</b>	<b>&lt;1.79</b>	<b>&lt;1.79</b>	<b>5.57</b>
SB3	4/14/2020	5.0	<b>12.8</b>	<b>1.98</b>	<b>78.6</b>	<b>&lt;1.92</b>	<b>9.33</b>	<b>&lt;1.92</b>	<b>&lt;1.92</b>	<b>&lt;0.0185</b>
SB4	4/14/2020	2.5	<b>5.88</b>	<b>2.68</b>	<b>92.5</b>	<b>&lt;1.89</b>	<b>4.97</b>	<b>&lt;1.89</b>	<b>&lt;1.89</b>	<b>&lt;0.0185</b>
SB5	4/14/2020	10.0	<b>23.7</b>	<b>2.31</b>	<b>42.1</b>	<b>&lt;1.92</b>	<b>5.37</b>	<b>&lt;1.92</b>	<b>&lt;1.92</b>	<b>&lt;0.0169</b>



*Emile G. Couroux*  
 7/20/2020

Revisions
July 20, 2020 - EGC

Sheet No.  
**3 OF 3**



## TABLES

Table 1: COPC/RME Determination Summary

SOIL							
DETECTED ANALYTE	Number of Samples	Maximum Detect (mg/kg)	UCL/EPC <sup>(1)</sup> (mg/kg)	Residential RSL <sup>(2)</sup> (mg/kg)	RME/Screening Level <sup>(3)</sup> (mg/kg)	Maximum Detect Greater than Screening Level?	COPC?
Methylene chloride	19	0.00492	NA	35	NA	No	No
Toluene	57	0.00126	NA	490	NA	No	No
<b>Arsenic</b>	<b>65</b>	<b>14.1</b>	<b>2.912</b>	<b>0.68</b>	<b>2.912</b>	<b>Yes</b>	<b>Yes</b>
Barium	65	219	NA	1500	NA	No	No
<b>Cadmium</b>	<b>65</b>	<b>1.1</b>	<b>0.172</b>	<b>0.71</b>	<b>0.172</b>	<b>Yes</b>	<b>Yes</b>
<b>Chromium</b>	<b>65</b>	<b>25.1</b>	<b>6.928</b>	<b>NA</b>	<b>6.928</b>	<b>Yes</b>	<b>Yes</b>
<b>Lead</b>	<b>65</b>	<b>12600</b>	<b>1051</b>	<b>400</b>	<b>1051</b>	<b>Yes</b>	<b>Yes</b>
<b>Mercury</b>	<b>59</b>	<b>5.57</b>	<b>0.601</b>	<b>1.1</b>	<b>0.601</b>	<b>Yes</b>	<b>Yes</b>
Selenium	64	0.493	NA	39	NA	No	No
Silver	65	0.605	NA	39	NA	No	No

**Notes:**

1 - All UCLs were generated using EPA ProUCL

2 - The residential RSLs listed here are from the 2022 USEPA Regional Screening Levels (RSL).

3 - The UC/EPC

**Definitions:**

COPC - Chemical of Potential Concern

RSL - USEPA (2022) Regional Screening Levels

NA - Not Applicable

EPC - Exposure Point Control

UCL - Upper confidence limit

RME - Reasonable Maximum Exposure

Table 2: Risk Summary

COPC	Ingestion Risk	Dermal Risk	Inhalation Risk	Carcinogenic Risk	Ingestion HQ	Dermal HQ	Inhalation HQ	NonCarcinogenic HI
Arsenic	$5.50 \times 10^{-8}$	$8.82 \times 10^{-9}$	$5.94 \times 10^{-10}$	$6.44 \times 10^{-8}$	NA	NA	NA	NA
Cadmium	NA	NA	$1.47 \times 10^{-11}$	$1.47 \times 10^{-11}$	$1.01 \times 10^{-3}$	$1.30 \times 10^{-4}$	NA	$5.05 \times 10^{-3}$
Chromium	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	$8.89 \times 10^{-1}$	$8.89 \times 10^{-1}$
<b>TOTAL</b>	$5.50 \times 10^{-8}$	$8.82 \times 10^{-9}$	$6.08 \times 10^{-10}$	<b><math>6.44 \times 10^{-8}</math></b>	$1.01 \times 10^{-3}$	$1.30 \times 10^{-4}$	$8.89 \times 10^{-1}$	<b><math>8.89 \times 10^{-1}</math></b>

**Definitions:**

COPC - Chemical of Potential Concern

HI - Hazard Index

HQ - Hazard Quotient

NA - Not Applicable



## APPENDIX A

### ESSCO SUMMARY OF LABORATORY ANALYTICAL RESULTS



**TABLE 1**  
SUMMARY OF TPH ANALYTICAL RESULTS - SOIL  
CQC 20-01  
4321 Delta Drive  
El Paso, County of El Paso Texas

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE DEPTH (ft)	TPH (C6-C12) [TX-1005] (mg/kg)	TPH (C12-C28) [TX-1005] (mg/kg)	TPH (C28-C35) [TX-1005] (mg/kg)	TPH (Total) (C6-C35) [TX-1005] (mg/kg)
<b>TIER 1 RESIDENTIAL ( <sup>Tot</sup>Soil<sub>Comb</sub>):</b>			<b>1600</b>	<b>2300</b>	<b>2300</b>	<b>2300</b>
<b>TIER 1 COMMERCIAL ( <sup>Tot</sup>Soil<sub>Comb</sub>):</b>			<b>3900</b>	<b>12000</b>	<b>12000</b>	<b>12000</b>
SB1	4/14/2020	2.5	<49.9	<b>60.2</b>	<49.9	<b>60.2</b>
SB1	4/14/2020	5.0	<49.4	<b>304</b>	<49.4	<b>304</b>
SB1	4/14/2020	15.0	<49.8	<49.8	<49.8	<49.8
SB2	4/14/2020	10.0	<49.8	<49.8	<49.8	<49.8
SB3	4/14/2020	2.5	<49.7	<b>114</b>	<b>123</b>	<b>237</b>
SB3	4/14/2020	5.0	<49.9	<49.9	<49.9	<49.9
SB4	4/14/2020	2.5	<50.0	<50.0	<50.0	<50.0
SB5	4/14/2020	10.0	<50.0	<50.0	<50.0	<50.0

NOTES:

1.) PST Program Action Levels (PALs) presented herein were obtained from the PST Program Action Levels Table, Revised November 08, 2019 and represents the lowest applicable health-based protective target concentration.

2.) Results are listed as the Method Detection Limits (MDL) and represent the lowest limits of detection for the constituent. All MDL's were set below the TCEQ Action Levels. All concentrations were below MDL's unless otherwise specified.

**TABLE 2**  
SUMMARY OF RCRA 8 Metals  
ANALYTICAL RESULTS - SOIL  
CQC 20-01  
4321 Delta Drive  
El Paso, County of El Paso, Texas

SAMPLE DESIGNATION	SAMPLE DATE	SAMPLE DEPTH (ft)	Lead (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Mercury (mg/kg)
<b>TEXAS-SPECIFIC BACKGROUND:</b>			<b>15</b>	<b>5.9</b>	<b>300</b>	<b>---</b>	<b>30</b>	<b>0.3</b>	<b>---</b>	<b>0.04</b>
<b>TIER 1 RESIDENTIAL (TotSoil<sub>Comb</sub>):</b>			<b>500</b>	<b>24</b>	<b>8100</b>	<b>52</b>	<b>33000</b>	<b>310</b>	<b>97</b>	<b>3.6</b>
<b>TIER 1 COMMERCIAL (TotSoil<sub>Comb</sub>):</b>			<b>1600</b>	<b>200</b>	<b>120000</b>	<b>810</b>	<b>120000</b>	<b>4900</b>	<b>2300</b>	<b>6.2</b>
SB1	4/14/2020	2.5	<b>12.1</b>	<b>3.5</b>	<b>89.2</b>	<1.89	<b>7.56</b>	<1.89	<1.89	<0.02
SB1	4/14/2020	5.0	<b>3.02</b>	<1.82	<b>29</b>	<1.82	<b>4.9</b>	<1.82	<1.82	<0.0167
SB1	4/14/2020	15.0	<b>2.35</b>	<2.00	<b>27.2</b>	<2.00	<4.00	<2.00	<2.00	<0.0169
SB2	4/14/2020	10.0	<b>3.28</b>	<1.82	<b>35.5</b>	<1.82	<b>3.71</b>	<1.82	<1.82	<0.0179
SB3	4/14/2020	2.5	<b>326</b>	<1.79	<b>188</b>	<1.79	<b>16.1</b>	<1.79	<1.79	<b>5.57</b>
SB3	4/14/2020	5.0	<b>12.8</b>	<b>1.98</b>	<b>78.6</b>	<1.92	<b>9.33</b>	<1.92	<1.92	<0.0185
SB4	4/14/2020	2.5	<b>5.88</b>	<b>2.68</b>	<b>92.5</b>	<1.89	<b>4.97</b>	<1.89	<1.89	<0.0185
SB5	4/14/2020	10.0	<b>23.7</b>	<b>2.31</b>	<b>42.1</b>	<1.92	<b>5.37</b>	<1.92	<1.92	<0.0169

1. Protective Concentration Levels (PCLs) presented herein for various human health and/or groundwater exposure pathways were taken from Tables accompanying the Texas Risk Reduction Program Rule (November 08, 2019)
2. Texas-Specific Soil Background Concentrations sourced from "Background Geochemistry of Some Rocks, Soils, Plants, and Vegetables in the Conterminous United States", by Jon J. Connor, Hansford T. Shacklette, et al., Geological Survey Professional Paper 574-F, US Geological Survey.

**TABLE 1**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
 Limited Phase II ESA  
 Shelter Place and 4321 Delta Drive  
 El Paso, Texas

SAMPLE DESIGNATION	SAMPLE DATE	SAMPLE DEPTH (ft)	TPH	TPH	TPH	TPH	Methyl tert-butyl ether (MTBE) (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes, Total (mg/kg)
			(C6-C12) [TX-1005] (mg/kg)	(C12-C28) [TX-1005] (mg/kg)	(C28-C35) [TX-1005] (mg/kg)	(C6-C35) [TX-1005] (mg/kg)					
<b>PST Program Action Levels:</b>			---	---	---	---	<b>2.56</b>	<b>0.120</b>	<b>39.1</b>	<b>36.8</b>	<b>117</b>
<b>TIER 1 RESIDENTIAL (<sup>Tot</sup>Soil<sub>Comb</sub>):</b>			<b>1600</b>	<b>2300</b>	<b>2300</b>		<b>800</b>	<b>120</b>	<b>5900</b>	<b>6400</b>	<b>6000</b>
<b>TIER 1 COMMERCIAL (<sup>Tot</sup>Soil<sub>Comb</sub>):</b>			<b>3900</b>	<b>12000</b>	<b>12000</b>		<b>2000</b>	<b>240</b>	<b>42000</b>	<b>29000</b>	<b>12000</b>
SB-1	6/14/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000407	<0.000206	<0.000996	<0.000334	<0.000981
SB-1	6/14/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000408	<0.000207	<0.000998	<0.000335	<0.000983
SB-1	6/14/2022	15.0	<21.0	<21.0	<21.0	<21.0	<0.000405	<0.000205	<0.000990	<0.000332	<0.000975
SB-2	6/14/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000408	<0.000207	<0.000998	<0.000335	<0.000983
SB-2	6/14/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000412	<0.000209	<0.00101	<0.000338	<0.000993
SB-2	6/14/2022	15.0	<21.1	<21.1	<21.1	<21.1	<0.000413	<0.000209	<0.00101	<0.000339	<0.000995
SB-3	6/14/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000409	<0.000207	<0.00100	<0.000336	<0.000987
SB-3	6/14/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000406	<0.000206	<0.000994	<0.000334	<0.000979
SB-3	6/14/2022	15.0	<21.1	<b>24.0</b>	<b>24.4</b>	<b>48.4</b>	<0.000411	<0.000208	<0.00101	<0.000338	<0.000991
SB-4	6/14/2022	5.0	<21.0	<21.0	<21.0	<21.0	<0.000410	<0.000208	<0.00100	<0.000337	<0.000989
SB-4	6/14/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000411	<0.000208	<0.00101	<0.000338	<0.000991
SB-4	6/14/2022	15.0	<21.1	<21.1	<21.1	<21.1	<0.000413	<0.000209	<0.00101	<0.000339	<0.000995
SB-5	6/14/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000407	<0.000206	<0.000996	<0.000334	<0.000981
SB-5	6/14/2022	10.0	<21.0	<21.0	<21.0	<21.0	<0.000413	<0.000209	<0.00101	<0.000339	<0.000995
SB-5	6/14/2022	15.0	<21.0	<21.0	<21.0	<21.0	<0.000412	<0.000209	<0.00101	<0.000338	<0.000993
SB-6	6/14/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000406	<0.000206	<0.000994	<0.000334	<0.000979
SB-6	6/14/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000407	<0.000206	<0.000996	<0.000334	<0.000981
SB-6	6/14/2022	15.0	<21.0	<21.0	<21.0	<21.0	<0.000409	<0.000207	<0.00100	<0.000336	<0.000987
SB-7	6/14/2022	5.0	<21.0	<21.0	<21.0	<21.0	<0.000408	<0.000207	<0.000998	<0.000335	<0.000983
SB-7	6/14/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000408	<0.000207	<0.000998	<0.000335	<0.000983
SB-7	6/14/2022	15.0	<21.1	<21.1	<21.1	<21.1	<0.000413	<0.000209	<0.00101	<0.000339	<0.000995
SB-8	6/14/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000405	<0.000205	<0.000992	<0.000333	<0.000977
SB-8	6/14/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000412	<0.000209	<0.00101	<0.000338	<0.000993
SB-8	6/14/2022	15.0	<21.0	<21.0	<21.0	<21.0	<0.000409	<0.000207	<0.00100	<0.000336	<0.000987
SB-9	6/14/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000406	<0.000206	<b>0.00126</b>	<0.000334	<0.000979
SB-9	6/14/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000413	<0.000209	<0.00101	<0.000339	<0.000995
SB-9	6/14/2022	15.0	<21.1	<21.1	<21.1	<21.1	<0.000408	<0.000207	<0.000998	<0.000335	<0.000983
SB-10	6/14/2022	5.0	<21.0	<21.0	<21.0	<21.0	<0.000411	<0.000208	<b>0.00118</b>	<0.000338	<0.000991
SB-10	6/14/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000406	<0.000206	<0.000994	<0.000334	<0.000979
SB-10	6/14/2022	15.0	<21.1	<21.1	<21.1	<21.1	<0.000406	<0.000206	<0.000994	<0.000334	<0.000979
SB-11	6/15/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000407	<0.000206	<0.000996	<0.000334	<0.000981
SB-12	6/15/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000410	<0.000208	<0.00100	<0.000337	<0.000989
SB-12	6/15/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000406	<0.000206	<0.000994	<0.000334	<0.000979
SB-13	6/15/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000413	<0.000209	<0.00101	<0.000339	<0.000995
SB-13	6/15/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000411	<0.000208	<0.00101	<0.000338	<0.000991
SB-13	6/15/2022	15.0	<21.1	<21.1	<21.1	<21.1	<0.000410	<0.000208	<0.00100	<0.000337	<0.000989
SB-14	6/15/2022	5.0	<21.0	<21.0	<21.0	<21.0	<0.000408	<0.000207	<0.000998	<0.000335	<0.000983
SB-14	6/15/2022	10.0	<21.0	<21.0	<21.0	<21.0	<0.000407	<0.000206	<0.000996	<0.000334	<0.000981
SB-14	6/15/2022	15.0	<21.1	<21.1	<21.1	<21.1	<0.000413	<0.000209	<0.00101	<0.000339	<0.000995
SB-15	6/15/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000412	<0.000209	<0.00101	<0.000338	<0.000993
SB-15	6/15/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000408	<0.000207	<0.000998	<0.000335	<0.000983
SB-15	6/15/2022	15.0	<21.1	<21.1	<21.1	<21.1	<0.000406	<0.000206	<0.000994	<0.000334	<0.000979
SB-16	6/15/2022	5.0	<21.0	<21.0	<21.0	<21.0	<0.000409	<0.000207	<0.00100	<0.000336	<0.000987
SB-16	6/15/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000413	<0.000209	<0.00101	<0.000339	<0.000995
SB-16	6/15/2022	15.0	<21.1	<21.1	<21.1	<21.1	<0.000405	<0.000205	<0.000990	<0.000332	<0.000975
SB-17	6/15/2022	5.0	<21.2	<21.2	<21.2	<21.2	<0.000411	<0.000208	<0.00101	<0.000338	<0.000991
SB-17	6/15/2022	10.0	<21.1	<21.1	<21.1	<21.1	<0.000406	<0.000206	<0.000994	<0.000334	<0.000979
SB-17	6/15/2022	15.0	<21.0	<21.0	<21.0	<21.0	<0.000412	<0.000209	<0.00101	<0.000338	<0.000993
SB-18	6/15/2022	5.0	<21.1	<21.1	<21.1	<21.1	<0.000407	<0.000206	<0.000996	<0.000334	<0.000981
SB-18	6/15/2022	10.0	<21.2	<21.2	<21.2	<21.2	<0.000407	<0.000206	<0.000996	<0.000334	<0.000981
SB-18	6/15/2022	15.0	<21.0	<21.0	<21.0	<21.0	<0.000409	<0.000207	<0.00100	<0.000336	<0.000985
SB-19	6/16/2022	5.0	<23.1	<23.1	<23.1	<23.1	<0.000451	<0.000228	<0.00110	<0.000370	<0.00109
SB-19	6/16/2022	10.0	<23.1	<23.1	<23.1	<23.1	<0.000447	<0.000226	<0.00109	<0.000367	<0.00108
SB-19	6/16/2022	15.0	<21.9	<21.9	<21.9	<21.9	<0.000421	<0.000213	<0.00103	<0.000346	<0.00101
SB-20	6/16/2022	5.0	<21.4	<21.4	<21.4	<21.4	<0.000421	<0.000213	<0.00103	<0.000346	<0.00101
SB-20	6/16/2022	10.0	<21.4	<21.4	<21.4	<21.4	<0.000416	<0.000211	<0.00102	<0.000342	<0.00100
SB-20	6/16/2022	15.0	<21.6	<21.6	<21.6	<21.6	<0.000419	<0.000212	<0.00103	<0.000345	<0.00101

NOTES:  
 1.) PST Program Action Levels presented herein are provide for Surface (0-15 ft) and Subsurface (>15 ft) Soil and were taken from Tables accompanying the TCEQ Regulatory Guidance RG-411 Investigating and Reporting Relaeases from Petroleum Storage Tanks (March 22, 2019).  
 2.) Texas-Specific Background Concentrations presented herein are provided for Median Background Concentrations and were taken from the TCEQ Chapter 350 - TRRP and USGS Professional Paper 574-F.  
 3.) Protective Concentration Levels (PCLs) presented herein for various human health and/or groundwater exposure pathways were taken from Tables accompanying the Texas Risk Reduction Program Rule (March 1, 2022).

**TABLE 2**  
SUMMARY OF ANALYTICAL RESULTS - SOIL  
Limited Phase II ESA  
Shelter Place and 4321 Delta Drive  
El Paso, Texas

SAMPLE DESIGNATION	SAMPLE DATE	SAMPLE DEPTH (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
<b>TEXAS-SPECIFIC BACKGROUND</b>			<b>5.9</b>	<b>300</b>	<b>---</b>	<b>30</b>	<b>15</b>	<b>0.04</b>	<b>0.3</b>	<b>---</b>
<b>TIER 1 RESIDENTIAL (TotSoil<sub>Com</sub>)</b>			<b>24</b>	<b>8100</b>	<b>52</b>	<b>33000</b>	<b>500</b>	<b>3.6</b>	<b>310</b>	<b>97</b>
<b>TIER 1 COMMERCIAL (TotSoil<sub>Cor</sub>)</b>			<b>200</b>	<b>120000</b>	<b>810</b>	<b>120000</b>	<b>1600</b>	<b>6.2</b>	<b>4900</b>	<b>2300</b>
SB-1	6/14/2022	5.0	1.37	37.6	<0.104	5.21	2.95	<0.00356	<0.443	0.292
SB-1	6/14/2022	10.0	0.681	16.6	<0.0967	2.17	1.86	<0.00343	<0.413	0.267
SB-1	6/14/2022	15.0	0.87	12.8	<0.109	4.78	2.06	<0.00343	<0.468	0.296
SB-2	6/14/2022	5.0	0.802	20.8	<0.105	2.05	1.74	<0.00370	<0.451	0.286
SB-2	6/14/2022	10.0	0.651	18.6	<0.0967	2.69	1.69	<0.00356	<0.413	0.263
SB-2	6/14/2022	15.0	0.705	27.3	<0.109	2.58	1.56	<0.00356	<0.468	0.297
SB-3	6/14/2022	5.0	1.32	71.4	<0.114	5.06	3.59	<0.00370	<0.486	0.318
SB-3	6/14/2022	10.0	1.36	59.3	<0.109	3.98	3.05	<0.00377	<0.468	0.306
SB-3	6/14/2022	15.0	1.13	22.7	<0.0967	2.2	2.2	<0.00331	<0.413	0.267
SB-4	6/14/2022	5.0	2.6	98.8	<0.104	6.63	4.46	<0.00384	<0.443	0.295
SB-4	6/14/2022	10.0	0.663	16.6	<0.0967	1.83	1.51	<0.00377	<0.413	0.264
SB-4	6/14/2022	15.0	1.3	79.1	<0.104	3.74	3.03	<0.00356	<0.443	0.286
SB-5	6/14/2022	5.0	1.29	32.8	<0.107	12.3	4.32	<0.00337	<0.459	0.296
SB-5	6/14/2022	10.0	0.866	27.2	<0.107	3.36	2.6	<0.00337	<0.459	0.299
SB-5	6/14/2022	15.0	<0.571	21.8	<0.107	2.01	1.51	<0.00343	<0.459	0.294
SB-6	6/14/2022	5.0	0.836	27.3	<0.114	2.02	1.91	<0.00377	<0.486	0.311
SB-6	6/14/2022	10.0	0.876	23.4	<0.104	3.33	1.86	<0.00370	<0.443	0.291
SB-6	6/14/2022	15.0	0.988	24.3	<0.100	3.3	2.13	<0.00356	<0.428	0.276
SB-7	6/14/2022	5.0	1.17	32.8	<0.109	5.49	2.72	<0.00370	<0.468	0.302
SB-7	6/14/2022	10.0	1.35	36.8	<0.100	3.4	2.82	<0.00377	<0.428	0.28
SB-7	6/14/2022	15.0	1.02	34.4	<0.102	6.28	2.79	<0.00370	<0.435	0.283
SB-8	6/14/2022	5.0	1.00	15.1	<0.107	3.22	1.94	<0.00349	<0.459	0.295
SB-8	6/14/2022	10.0	0.868	16.0	<0.104	3.46	1.71	<0.00337	<0.443	0.284
SB-8	6/14/2022	15.0	2.37	25.6	<0.109	5.72	2.39	<0.00363	<0.468	0.298
SB-9	6/14/2022	5.0	0.727	23.5	<0.0967	2.88	1.66	<0.00356	<0.413	0.264
SB-9	6/14/2022	10.0	1.07	33.0	<0.105	3.97	2.35	<0.00356	<0.451	0.288
SB-9	6/14/2022	15.0	1.11	31.5	<0.0967	2.25	2.07	0.0981	<0.413	0.266
SB-10	6/14/2022	5.0	0.925	33.5	<0.104	6.77	2.57	<0.00370	<0.443	0.279
SB-10	6/14/2022	10.0	1.22	30.7	<0.104	4.3	4.35	<0.00370	<0.443	0.282
SB-10	6/14/2022	15.0	1.28	28.7	<0.112	2.83	2.16	<0.00377	<0.477	0.305
SB-11	6/15/2022	5.0	8.51	110	0.349	8.69	229	0.0958	0.493	0.325
SB-12	6/15/2022	5.0	2.39	84.6	0.177	5.33	24.2	0.066	<0.496	<0.159
SB-12	6/15/2022	10.0	2.06	67.2	<0.105	5.35	4.1	0.0049	<0.451	<0.144
SB-13	6/15/2022	5.0	14.1	64.9	1.1	18.5	11.2	0.0056	<0.443	<0.142
SB-13	6/15/2022	10.0	0.898	50.4	<0.107	3.99	2.71	<0.00349	<0.459	<0.147
SB-13	6/15/2022	15.0	0.714	26.1	<0.109	1.74	1.66	<0.00349	<0.468	<0.150
SB-14	6/15/2022	5.0	0.864	31.2	<0.104	3.39	2.06	<0.00326	<0.443	<0.142
SB-14	6/15/2022	10.0	1.26	35.2	<0.107	2.81	2.05	<0.00320	<0.459	<0.147
SB-14	6/15/2022	15.0	0.888	40.5	<0.0983	2.41	2.34	<0.00363	<0.421	<0.135
SB-15	6/15/2022	5.0	0.753	29.6	<0.107	3.09	1.9	<0.00349	<0.459	<0.147
SB-15	6/15/2022	10.0	1.36	41.1	<0.100	3.78	2.2	<0.00349	<0.428	<0.137
SB-15	6/15/2022	15.0	0.822	16.6	<0.107	1.67	1.42	<0.00337	<0.459	<0.147
SB-16	6/15/2022	5.0	11.4	219	0.759	25.1	12600	1.09	<0.435	0.605
SB-16	6/15/2022	10.0	1.07	44.4	<0.104	3.86	4.36	<0.00363	<0.443	<0.142
SB-16	6/15/2022	15.0	0.641	22.2	<0.109	1.92	2.43	<0.00363	<0.468	<0.150
SB-17	6/15/2022	5.0	1.06	31.3	<0.107	2.48	2.63	<0.00337	<0.459	<0.147
SB-17	6/15/2022	10.0	1.27	26.2	<0.105	4.14	3.08	<0.00331	<0.451	<0.144
SB-17	6/15/2022	15.0	0.773	23.3	<0.107	2.52	2.11	<0.00370	<0.459	<0.147
SB-18	6/15/2022	5.0	1.69	84.8	<0.104	3.93	3.74	<0.00356	<0.443	<0.142
SB-18	6/15/2022	10.0	0.985	39.1	<0.105	3.51	2.65	<0.00349	<0.451	<0.144
SB-18	6/15/2022	15.0	0.869	39.2	<0.104	2.47	2.23	<0.00370	<0.443	<0.142
SB-19	6/16/2022	5.0	2.34	116	<0.120	7.52	7.41	-	<0.513	<0.164
SB-19	6/16/2022	10.0	1.23	54.9	<0.117	4.77	3.53	-	<0.502	<0.161
SB-19	6/16/2022	15.0	0.597	22.3	<0.106	2.83	1.91	-	<0.452	<0.145
SB-20	6/16/2022	5.0	0.664	17.4	<0.116	2.77	1.9	-	<0.497	<0.159
SB-20	6/16/2022	10.0	1.23	21.7	<0.104	2.76	2.39	-	<0.444	<0.142
SB-20	6/16/2022	15.0	1.36	36.3	<0.114	4.53	3.04	-	<0.489	<0.156

**TABLE 3**  
**SUMMARY OF VOC RESULTS - SOIL**  
**Limited Phase II ESA**  
**Shelter Place and 4321 Delta Drive**  
**El Paso, Texas**

ANALYTE	SOIL																			
	Sample SB-1 at 10ft (mg/kg)	Sample SB-2 at 10ft (mg/kg)	Sample SB-3 at 10ft (mg/kg)	Sample SB-4 at 10ft (mg/kg)	Sample SB-5 at 10ft (mg/kg)	Sample SB-6 at 10ft (mg/kg)	Sample SB-7 at 10ft (mg/kg)	Sample SB-8 at 10ft (mg/kg)	Sample SB-9 at 10ft (mg/kg)	Sample SB-10 at 10ft (mg/kg)	Sample SB-12 at 10ft (mg/kg)	Sample SB-13 at 10ft (mg/kg)	Sample SB-14 at 10ft (mg/kg)	Sample SB-15 at 10ft (mg/kg)	Sample SB-16 at 10ft (mg/kg)	Sample SB-17 at 10ft (mg/kg)	Sample SB-18 at 10ft (mg/kg)	Sample SB-19 at 10ft (mg/kg)	Sample SB-20 at 10ft (mg/kg)	
EPA Method 8260C																				
Sample Date: 06/14/2022 - 06/16/2022																				
1,1,1,2-Tetrachloroethane	<0.000266	<0.000269	<0.000265	<0.000268	<0.000270	<0.000266	<0.000266	<0.000269	<0.000270	<0.000265	<0.000265	<0.000268	<0.000266	<0.000266	<0.000270	<0.000265	<0.000266	<0.000292	<0.000272	
1,1,1-Trichloroethane	<0.000502	<0.000507	<0.000500	<0.000506	<0.000508	<0.000501	<0.000502	<0.000507	<0.000508	<0.000500	<0.000500	<0.000506	<0.000501	<0.000502	<0.000508	<0.000500	<0.000501	<0.000550	<0.000513	
1,1,2,2-Tetrachloroethane	<0.000469	<0.000473	<0.000467	<0.000472	<0.000474	<0.000468	<0.000469	<0.000473	<0.000474	<0.000467	<0.000467	<0.000472	<0.000468	<0.000469	<0.000474	<0.000467	<0.000468	<0.000513	<0.000478	
1,1,2-Trichloroethane	<0.000391	<0.000395	<0.000390	<0.000394	<0.000396	<0.000391	<0.000391	<0.000395	<0.000396	<0.000390	<0.000390	<0.000394	<0.000391	<0.000391	<0.000396	<0.000390	<0.000391	<0.000429	<0.000400	
1,1-Dichloroethane	<0.000375	<0.000379	<0.000374	<0.000378	<0.000380	<0.000375	<0.000375	<0.000379	<0.000380	<0.000374	<0.000374	<0.000378	<0.000375	<0.000375	<0.000380	<0.000374	<0.000375	<0.000411	<0.000383	
1,1-Dichloroethene	<0.000277	<0.000279	<0.000275	<0.000279	<0.000280	<0.000276	<0.000277	<0.000279	<0.000280	<0.000275	<0.000275	<0.000279	<0.000276	<0.000277	<0.000280	<0.000275	<0.000276	<0.000303	<0.000282	
1,1-Dichloropropene	<0.000448	<0.000452	<0.000446	<0.000451	<0.000453	<0.000447	<0.000448	<0.000452	<0.000453	<0.000446	<0.000446	<0.000451	<0.000447	<0.000448	<0.000453	<0.000446	<0.000447	<0.000490	<0.000457	
1,2,3-Trichlorobenzene	<0.000200	<0.000202	<0.000199	<0.000201	<0.000202	<0.000199	<0.000200	<0.000202	<0.000202	<0.000199	<0.000200	<0.000201	<0.000199	<0.000200	<0.000202	<0.000199	<0.000199	<0.000219	<0.000204	
1,2,3-Trichloropropane	<0.000449	<0.000453	<0.000447	<0.000452	<0.000454	<0.000448	<0.000449	<0.000453	<0.000454	<0.000447	<0.000447	<0.000452	<0.000448	<0.000449	<0.000454	<0.000447	<0.000448	<0.000491	<0.000458	
1,2,4-Trichlorobenzene	<0.000200	<0.000202	<0.000199	<0.000201	<0.000202	<0.000199	<0.000200	<0.000202	<0.000202	<0.000199	<0.000200	<0.000201	<0.000199	<0.000200	<0.000202	<0.000199	<0.000199	<0.000219	<0.000204	
1,2,4-Trimethylbenzene	<0.000254	<0.000257	<0.000253	<0.000256	<0.000258	<0.000254	<0.000254	<0.000257	<0.000258	<0.000253	<0.000253	<0.000256	<0.000254	<0.000254	<0.000258	<0.000253	<0.000254	<0.000279	<0.000260	
1,2-Dibromo-3-chloropropane	<0.000703	<0.000710	<0.000700	<0.000708	<0.000711	<0.000701	<0.000701	<0.000703	<0.000710	<0.000711	<0.000700	<0.000700	<0.000708	<0.000701	<0.000703	<0.000700	<0.000701	<0.000769	<0.000717	
1,2-Dibromoethane (EDB)	<0.00104	<0.00105	<0.00104	<0.00105	<0.00105	<0.00104	<0.00104	<0.00105	<0.00105	<0.00104	<0.00104	<0.00105	<0.00104	<0.00104	<0.00105	<0.00104	<0.00104	<0.00114	<0.00106	
1,2-Dichlorobenzene	<0.000287	<0.000290	<0.000286	<0.000289	<0.000290	<0.000286	<0.000287	<0.000290	<0.000290	<0.000286	<0.000286	<0.000289	<0.000286	<0.000287	<0.000290	<0.000286	<0.000286	<0.000314	<0.000293	
1,2-Dichloroethane (EDC)	<0.000303	<0.000306	<0.000302	<0.000306	<0.000307	<0.000303	<0.000303	<0.000306	<0.000307	<0.000302	<0.000302	<0.000306	<0.000303	<0.000303	<0.000307	<0.000302	<0.000303	<0.000332	<0.000310	
1,2-Dichloropropane	<0.000198	<0.000200	<0.000197	<0.000200	<0.000200	<0.000198	<0.000198	<0.000200	<0.000200	<0.000197	<0.000197	<0.000200	<0.000198	<0.000198	<0.000200	<0.000197	<0.000198	<0.000217	<0.000202	
1,3,5-Trimethylbenzene	<0.000288	<0.000291	<0.000287	<0.000291	<0.000292	<0.000288	<0.000288	<0.000291	<0.000292	<0.000287	<0.000287	<0.000291	<0.000288	<0.000288	<0.000292	<0.000287	<0.000288	<0.000316	<0.000294	
1,3-Dichlorobenzene	<0.000272	<0.000275	<0.000271	<0.000274	<0.000275	<0.000271	<0.000272	<0.000275	<0.000275	<0.000271	<0.000271	<0.000274	<0.000271	<0.000272	<0.000275	<0.000271	<0.000271	<0.000298	<0.000278	
1,3-Dichloropropane	<0.000408	<0.000412	<0.000406	<0.000411	<0.000413	<0.000407	<0.000408	<0.000412	<0.000413	<0.000406	<0.000406	<0.000411	<0.000407	<0.000408	<0.000413	<0.000406	<0.000407	<0.000447	<0.000417	
1,4-Dichlorobenzene	<0.000214	<0.000216	<0.000213	<0.000216	<0.000217	<0.000214	<0.000214	<0.000216	<0.000217	<0.000213	<0.000213	<0.000216	<0.000214	<0.000214	<0.000216	<0.000213	<0.000213	<0.000234	<0.000219	
2,2-Dichloropropane	<0.000523	<0.000528	<0.000521	<0.000527	<0.000530	<0.000522	<0.000523	<0.000528	<0.000530	<0.000521	<0.000521	<0.000527	<0.000522	<0.000523	<0.000530	<0.000521	<0.000522	<0.000573	<0.000534	
2-Butanone	<0.00364	<0.00368	<0.00362	<0.00367	<0.00368	<0.00363	<0.00364	<0.00368	<0.00368	<0.00362	<0.00362	<0.00367	<0.00363	<0.00364	<0.00368	<0.00362	<0.00363	<0.00399	<0.00372	
4-Chlorotoluene	<0.000263	<0.000266	<0.000262	<0.000265	<0.000266	<0.000263	<0.000263	<0.000266	<0.000266	<0.000262	<0.000262	<0.000265	<0.000263	<0.000263	<0.000266	<0.000262	<0.000263	<0.000288	<0.000269	
Benzene	<0.000207	<0.000209	<0.000206	<0.000208	<0.000209	<0.000206	<0.000207	<0.000209	<0.000209	<0.000206	<0.000206	<0.000208	<0.000206	<0.000207	<0.000209	<0.000206	<0.000206	<0.000226	<0.000211	
Bromobenzene	<0.000346	<0.000349	<0.000344	<0.000348	<0.000350	<0.000345	<0.000346	<0.000349	<0.000350	<0.000344	<0.000344	<0.000348	<0.000345	<0.000346	<0.000350	<0.000344	<0.000345	<0.000379	<0.000353	
Bromochloromethane	<0.000525	<0.000530	<0.000523	<0.000529	<0.000531	<0.000524	<0.000525	<0.000530	<0.000531	<0.000523	<0.000523	<0.000529	<0.000524	<0.000525	<0.000531	<0.000523	<0.000524	<0.000575	<0.000536	
Bromodichloromethane	<0.000251	<0.000253	<0.000250	<0.000253	<0.000254	<0.000250	<0.000251	<0.000253	<0.000254	<0.000250	<0.000250	<0.000253	<0.000250	<0.000251	<0.000254	<0.000250	<0.000250	<0.000274	<0.000256	
Bromoform	<0.00103	<0.00104	<0.00103	<0.00104	<0.00104	<0.00103	<0.00103	<0.00104	<0.00104	<0.00103	<0.00103	<0.00104	<0.00103	<0.00103	<0.00104	<0.00103	<0.00103	<0.00113	<0.00105	
Bromomethane	<0.000941	<0.000951	<0.000938	<0.000949	<0.000953	<0.000939	<0.000941	<0.000951	<0.000953	<0.000938	<0.000938	<0.000949	<0.000939	<0.000941	<0.000953	<0.000938	<0.000939	<0.00103	<0.000961	
Carbon tetrachloride	<0.00164	<0.00166	<0.00163	<0.00165	<0.00166	<0.00164	<0.00164	<0.00166	<0.00166	<0.00163	<0.00163	<0.00165	<0.00164	<0.00164	<0.00166	<0.00163	<0.00164	<0.00180	<0.00167	
Chlorobenzene	<0.000236	<0.000239	<0.000235	<0.000238	<0.000239	<0.000236	<0.000236	<0.000239	<0.000239	<0.000235	<0.000235	<0.000238	<0.000236	<0.000236	<0.000239	<0.000235	<0.000235	<0.000259	<0.000241	
Chloroethane	<0.000443	<0.000448	<0.000441	<0.000447	<0.000448	<0.000442	<0.000443	<0.000448	<0.000448	<0.000441	<0.000441	<0.000447	<0.000442	<0.000443	<0.000448	<0.000441	<0.000442	<0.000485	<0.000452	
Chloroform	<0.000172	<0.000174	<0.000172	<0.000174	<0.000175	<0.000172	<0.000172	<0.000174	<0.000175	<0.000172	<0.000172	<0.000174	<0.000172	<0.000172	<0.000175	<0.000172	<0.000172	<0.000189	<0.000176	
Chloromethane	<0.000430	<0.000434	<0.000428	<0.000433	<0.000435	<0.000429	<0.000430	<0.000434	<0.000435	<0.000428	<0.000428	<0.000433	<0.000429	<0.000430	<0.000435	<0.000428	<0.000429	<0.000471	<0.000439	
cis-1,2-DCE	<0.000300	<0.000303	<0.000299	<0.000302	<0.000304	<0.000299	<0.000300	<0.000303	<0.000304	<0.000299	<0.000299	<0.000302	<0.000299	<0.000299	<0.000300	<0.000300	<0.000304	<0.000329	<0.000306	
cis-1,3-Dichloropropene	<0.000229	<0.000231	<0.000228	<0.000231	<0.000232	<0.000229	<0.000229	<0.000231	<0.000232	<0.000228	<0.000228	<0.000231	<0.000229	<0.000229	<0.000232	<0.000228	<0.000229	<0.000251	<0.000234	
Dibromochloromethane	<0.000893	<0.000902	<0.000889	<0.000900	<0.000904	<0.000891	<0.000893	<0.000902	<0.000904	<0.000889	<0.000889	<0.000900	<0.000891	<0.000893	<0.000904	<0.000889	<0.000891	<0.000978	<0.000912	
Dichlorodifluoromethane	<0.00111	<0.00112	<0.00111	<0.00112	<0.00113	<0.00111	<0.00111	<0.00112	<0.00113	<0.00111	<0.00111	<0.00112	<0.00111	<0.00111	<0.00113	<0.00111	<0.00111	<0.00122	<0.00114	
Ethylbenzene	<0.000335	<0.000338	<0.000334	<0.000338	<0.000339	<0.000334	<0.000335	<0.000338	<0.000339	<0.000334	<0.000334	<0.000338	<0.00033							



## APPENDIX B

### EPA ProUCL SUMMARY STATISTICS

A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Nonparametric UCL Statistics for Data Sets with Non-Detects</b>										
2											
3	User Selected Options										
4	Date/Time of Computation		ProUCL 5.110/28/2022 2:45:44 PM								
5	From File		CPOC ProUCL Raw.xls								
6	Full Precision		OFF								
7	Confidence Coefficient		95%								
8	Number of Bootstrap Operations		2000								
9											
10	<b>Arsenic</b>										
11											
12	<b>General Statistics</b>										
13	Total Number of Observations			65		Number of Distinct Observations			60		
14	Number of Detects			60		Number of Non-Detects			5		
15	Number of Distinct Detects			56		Number of Distinct Non-Detects			4		
16	Minimum Detect			0.597		Minimum Non-Detect			0.571		
17	Maximum Detect			14.1		Maximum Non-Detect			2		
18	Variance Detects			5.544		Percent Non-Detects			7.692%		
19	Mean Detects			1.745		SD Detects			2.355		
20	Median Detects			1.09		CV Detects			1.35		
21	Skewness Detects			4.134		Kurtosis Detects			17.67		
22	Mean of Logged Detects			0.235		SD of Logged Detects			0.648		
23											
24	<b>Nonparametric Distribution Free UCL Statistics</b>										
25	<b>Data do not follow a Discernible Distribution at 5% Significance Level</b>										
26											
27	<b>Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs</b>										
28	Mean		1.681		Standard Error of Mean			0.282			
29	SD		2.256		95% KM (BCA) UCL			2.219			
30	95% KM (t) UCL		2.152		95% KM (Percentile Bootstrap) UCL			2.17			
31	95% KM (z) UCL		2.145		95% KM Bootstrap t UCL			2.561			
32	90% KM Chebyshev UCL		2.528		95% KM Chebyshev UCL			2.912			
33	97.5% KM Chebyshev UCL		3.444		99% KM Chebyshev UCL			4.49			
34											
35	<b>Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution</b>										
36	KM SD (logged)		0.631		95% Critical H Value (KM-Log)			1.958			
37	KM Mean (logged)		0.207		KM Geo Mean			1.23			
38	KM Standard Error of Mean (logged)		0.0795		95% H-UCL (KM -Log)			1.752			
39											
40	<b>Suggested UCL to Use</b>										
41	95% KM (Chebyshev) UCL		2.912								
42	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.										
43	Recommendations are based upon data size, data distribution, and skewness.										
44	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).										
45	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.										
46											

	A	B	C	D	E	F	G	H	I	J	K	L
47	<b>Cadmium</b>											
48												
49	<b>General Statistics</b>											
50	Total Number of Observations				65		Number of Distinct Observations				23	
51	Number of Detects				4		Number of Non-Detects				61	
52	Number of Distinct Detects				4		Number of Distinct Non-Detects				19	
53	Minimum Detect				0.177		Minimum Non-Detect				0.0967	
54	Maximum Detect				1.1		Maximum Non-Detect				2	
55	Variance Detects				0.172		Percent Non-Detects				93.85%	
56	Mean Detects				0.596		SD Detects				0.415	
57	Median Detects				0.554		CV Detects				0.696	
58	Skewness Detects				0.404		Kurtosis Detects				-2.313	
59	Mean of Logged Detects				-0.741		SD of Logged Detects				0.815	
60												
61	<b>Nonparametric Distribution Free UCL Statistics</b>											
62	<b>Detected Data appear Normal Distributed at 5% Significance Level</b>											
63												
64	<b>Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs</b>											
65	Mean				0.132		Standard Error of Mean				0.0244	
66	SD				0.159		95% KM (BCA) UCL				N/A	
67	95% KM (t) UCL				0.172		95% KM (Percentile Bootstrap) UCL				N/A	
68	95% KM (z) UCL				0.172		95% KM Bootstrap t UCL				N/A	
69	90% KM Chebyshev UCL				0.205		95% KM Chebyshev UCL				0.238	
70	97.5% KM Chebyshev UCL				0.284		99% KM Chebyshev UCL				0.374	
71												
72	<b>Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution</b>											
73	KM SD (logged)				0.448		95% Critical H Value (KM-Log)				1.833	
74	KM Mean (logged)				-2.224		KM Geo Mean				0.108	
75	KM Standard Error of Mean (logged)				0.0686		95% H-UCL (KM -Log)				0.133	
76												
77	<b>Suggested UCL to Use</b>											
78	<b>Data appear Normal, May want to try Normal Distribution.</b>											
79	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
80	Recommendations are based upon data size, data distribution, and skewness.											
81	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
82	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
83												



	A	B	C	D	E	F	G	H	I	J	K	L
84	<b>Chromium</b>											
85												
86	<b>General Statistics</b>											
87	Total Number of Observations				65		Number of Distinct Observations				64	
88	Number of Detects				64		Number of Non-Detects				1	
89	Number of Distinct Detects				63		Number of Distinct Non-Detects				1	
90	Minimum Detect				1.67		Minimum Non-Detect				4	
91	Maximum Detect				25.1		Maximum Non-Detect				4	
92	Variance Detects				16		Percent Non-Detects				1.538%	
93	Mean Detects				4.806		SD Detects				3.999	
94	Median Detects				3.725		CV Detects				0.832	
95	Skewness Detects				3.231		Kurtosis Detects				12.27	
96	Mean of Logged Detects				1.378		SD of Logged Detects				0.563	
97												
98	<b>Nonparametric Distribution Free UCL Statistics</b>											
99	<b>Data do not follow a Discernible Distribution at 5% Significance Level</b>											
100												
101	<b>Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs</b>											
102	Mean				4.777		Standard Error of Mean				0.493	
103	SD				3.945		95% KM (BCA) UCL				5.609	
104	95% KM (t) UCL				5.6		95% KM (Percentile Bootstrap) UCL				5.629	
105	95% KM (z) UCL				5.589		95% KM Bootstrap t UCL				6.115	
106	90% KM Chebyshev UCL				6.257		95% KM Chebyshev UCL				6.928	
107	97.5% KM Chebyshev UCL				7.858		99% KM Chebyshev UCL				9.686	
108												
109	<b>Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution</b>											
110	KM SD (logged)				0.557		95% Critical H Value (KM-Log)				1.903	
111	KM Mean (logged)				1.373		KM Geo Mean				3.947	
112	KM Standard Error of Mean (logged)				0.0697		95% H-UCL (KM -Log)				5.261	
113												
114	<b>Suggested UCL to Use</b>											
115												
116	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
117	Recommendations are based upon data size, data distribution, and skewness.											
118	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
119	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
120												
121												

	A	B	C	D	E	F	G	H	I	J	K	L
122	<b>Lead</b>											
123												
124	<b>General Statistics</b>											
125	Total Number of Observations				65		Number of Distinct Observations				56	
126					Number of Missing Observations				0			
127	Minimum				1.42		Mean				206	
128	Maximum				12600		Median				2.57	
129	SD				1562		Std. Error of Mean				193.7	
130	Coefficient of Variation				7.582		Skewness				8.05	
131	Mean of logged Data				1.333		SD of logged Data				1.425	
132												
133	<b>Nonparametric Distribution Free UCL Statistics</b>											
134	<b>Data do not follow a Discernible Distribution (0.05)</b>											
135												
136	<b>Assuming Normal Distribution</b>											
137	<b>95% Normal UCL</b>						<b>95% UCLs (Adjusted for Skewness)</b>					
138	95% Student's-t UCL				529.4		95% Adjusted-CLT UCL (Chen-1995)				731.4	
139							95% Modified-t UCL (Johnson-1978)				561.6	
140												
141	<b>Nonparametric Distribution Free UCLs</b>											
142	95% CLT UCL				524.7		95% Jackknife UCL				529.4	
143	95% Standard Bootstrap UCL				522.9		95% Bootstrap-t UCL				11292	
144	95% Hall's Bootstrap UCL				11245		95% Percentile Bootstrap UCL				593.2	
145	95% BCA Bootstrap UCL				972.8							
146	90% Chebyshev(Mean, Sd) UCL				787.3		95% Chebyshev(Mean, Sd) UCL				1051	
147	97.5% Chebyshev(Mean, Sd) UCL				1416		99% Chebyshev(Mean, Sd) UCL				2134	
148												
149	<b>Suggested UCL to Use</b>											
150	95% Chebyshev (Mean, Sd) UCL				1051							
151												
152	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
153	Recommendations are based upon data size, data distribution, and skewness.											
154	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
155	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
156												

	A	B	C	D	E	F	G	H	I	J	K	L
157	<b>Mercury</b>											
158												
159	<b>General Statistics</b>											
160	Total Number of Observations				59		Number of Distinct Observations				23	
161	Number of Detects				7		Number of Non-Detects				52	
162	Number of Distinct Detects				7		Number of Distinct Non-Detects				16	
163	Minimum Detect				0.0049		Minimum Non-Detect				0.0032	
164	Maximum Detect				5.57		Maximum Non-Detect				0.02	
165	Variance Detects				4.229		Percent Non-Detects				88.14%	
166	Mean Detects				0.99		SD Detects				2.056	
167	Median Detects				0.0958		CV Detects				2.077	
168	Skewness Detects				2.467		Kurtosis Detects				6.181	
169	Mean of Logged Detects				-2.298		SD of Logged Detects				2.564	
170												
171	<b>Nonparametric Distribution Free UCL Statistics</b>											
172	<b>Detected Data appear Gamma Distributed at 5% Significance Level</b>											
173												
174	<b>Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs</b>											
175	Mean			0.12		Standard Error of Mean			0.103			
176	SD			0.729		95% KM (BCA) UCL			0.313			
177	95% KM (t) UCL			0.292		95% KM (Percentile Bootstrap) UCL			0.306			
178	95% KM (z) UCL			0.289		95% KM Bootstrap t UCL			4.124			
179	90% KM Chebyshev UCL			0.428		95% KM Chebyshev UCL			0.567			
180	97.5% KM Chebyshev UCL			0.761		99% KM Chebyshev UCL			1.141			
181												
182	<b>Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution</b>											
183	KM SD (logged)			1.382		95% Critical H Value (KM-Log)			3.017			
184	KM Mean (logged)			-5.333		KM Geo Mean			0.00483			
185	KM Standard Error of Mean (logged)			0.194		95% H-UCL (KM -Log)			0.0217			
186												
187	<b>Suggested UCL to Use</b>											
188	<b>Data appear Gamma, May want to try Gamma Distribution</b>											
189	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
190	Recommendations are based upon data size, data distribution, and skewness.											
191	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
192	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
193												

A	B	C	D	E	F	G	H	I	J	K	L	
1	<b>Normal UCL Statistics for Data Sets with Non-Detects</b>											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.110/28/2022 2:38:04 PM									
5	From File		CPOC ProUCL Raw.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Number of Bootstrap Operations		2000									
9												
10	<b>Cadmium</b>											
11												
12	<b>General Statistics</b>											
13	Total Number of Observations			65	Number of Distinct Observations			23				
14	Number of Detects			4	Number of Non-Detects			61				
15	Number of Distinct Detects			4	Number of Distinct Non-Detects			19				
16	Minimum Detect			0.177	Minimum Non-Detect			0.0967				
17	Maximum Detect			1.1	Maximum Non-Detect			2				
18	Variance Detects			0.172	Percent Non-Detects			93.85%				
19	Mean Detects			0.596	SD Detects			0.415				
20	Median Detects			0.554	CV Detects			0.696				
21	Skewness Detects			0.404	Kurtosis Detects			-2.313				
22	Mean of Logged Detects			-0.741	SD of Logged Detects			0.815				
23												
24	<b>Normal GOF Test on Detects Only</b>											
25	Shapiro Wilk Test Statistic			0.956	<b>Shapiro Wilk GOF Test</b>							
26	5% Shapiro Wilk Critical Value			0.748	Detected Data appear Normal at 5% Significance Level							
27	Lilliefors Test Statistic			0.224	<b>Lilliefors GOF Test</b>							
28	5% Lilliefors Critical Value			0.375	Detected Data appear Normal at 5% Significance Level							
29	<b>Detected Data appear Normal at 5% Significance Level</b>											
30												
31	<b>Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs</b>											
32	KM Mean		0.132	KM Variance		0.0244						
33	KM SD		0.159	KM Standard Error of Mean		0.0254						
34	95% KM (BCA) UCL		N/A	97.5% KM (BCA) UCL		N/A						
35	95% KM (t) UCL		0.172	95% KM (Percentile Bootstrap) UCL		N/A						
36	95% KM (z) UCL		0.172	95% KM Bootstrap t UCL		N/A						
37	90% KM Chebyshev UCL		0.205	95% KM Chebyshev UCL		0.238						
38	97.5% KM Chebyshev UCL		0.284	99% KM Chebyshev UCL		0.374						
39												
40	<b>DL/2 Statistics</b>											
41	<b>DL/2 Normal</b>					<b>DL/2 Log-Transformed</b>						
42	Mean in Original Scale			0.196	Mean in Log Scale			-2.452				
43	SD in Original Scale			0.323	SD in Log Scale			1.063				
44	95% t UCL (Assumes normality)			0.262	95% H-Stat UCL			0.205				
45	<b>DL/2 is not a recommended method, provided for comparisons and historical reasons</b>											
46												
47	<b>Suggested UCL to Use</b>											
48	95% KM (t) UCL		0.172									
49												
50	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
51	Recommendations are based upon data size, data distribution, and skewness.											
52	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
53	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
54												

A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Gamma UCL Statistics for Data Sets with Non-Detects</b>										
2											
3	User Selected Options										
4	Date/Time of Computation		ProUCL 5.110/28/2022 2:47:44 PM								
5	From File		CPOC ProUCL Raw.xls								
6	Full Precision		OFF								
7	Confidence Coefficient		95%								
8	Number of Bootstrap Operations		2000								
9											
10	<b>Mercury</b>										
11											
12	<b>General Statistics</b>										
13	Total Number of Observations			59		Number of Distinct Observations			23		
14	Number of Detects			7		Number of Non-Detects			52		
15	Number of Distinct Detects			7		Number of Distinct Non-Detects			16		
16	Minimum Detect			0.0049		Minimum Non-Detect			0.0032		
17	Maximum Detect			5.57		Maximum Non-Detect			0.02		
18	Variance Detects			4.229		Percent Non-Detects			88.14%		
19	Mean Detects			0.99		SD Detects			2.056		
20	Median Detects			0.0958		CV Detects			2.077		
21	Skewness Detects			2.467		Kurtosis Detects			6.181		
22	Mean of Logged Detects			-2.298		SD of Logged Detects			2.564		
23											
24	<b>Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs</b>										
25	KM Mean		0.12		KM Standard Error of Mean			0.103			
26	KM SD		0.729		95% KM (BCA) UCL			0.31			
27	95% KM (t) UCL		0.292		95% KM (Percentile Bootstrap) UCL			0.308			
28	95% KM (z) UCL		0.289		95% KM Bootstrap t UCL			4.335			
29	90% KM Chebyshev UCL		0.428		95% KM Chebyshev UCL			0.567			
30	97.5% KM Chebyshev UCL		0.761		99% KM Chebyshev UCL			1.141			
31											
32	<b>Gamma GOF Tests on Detected Observations Only</b>										
33	A-D Test Statistic		0.562		<b>Anderson-Darling GOF Test</b>						
34	5% A-D Critical Value		0.784		Detected data appear Gamma Distributed at 5% Significance Level						
35	K-S Test Statistic		0.33		<b>Kolmogorov-Smirnov GOF</b>						
36	5% K-S Critical Value		0.335		Detected data appear Gamma Distributed at 5% Significance Level						
37	<b>Detected data appear Gamma Distributed at 5% Significance Level</b>										
38											
39	<b>Gamma Statistics on Detected Data Only</b>										
40	k hat (MLE)		0.301		k star (bias corrected MLE)			0.267			
41	Theta hat (MLE)		3.287		Theta star (bias corrected MLE)			3.703			
42	nu hat (MLE)		4.217		nu star (bias corrected)			3.743			
43	Mean (detects)		0.99								
44											
45	<b>Gamma ROS Statistics using Imputed Non-Detects</b>										
46	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs										
47	GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)										
48	For such situations, GROS method may yield incorrect values of UCLs and BTVs										
49	This is especially true when the sample size is small.										
50	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates										

	A	B	C	D	E	F	G	H	I	J	K	L
51					Minimum	0.0049					Mean	0.126
52					Maximum	5.57					Median	0.01
53					SD	0.735					CV	5.817
54					k hat (MLE)	0.304					k star (bias corrected MLE)	0.3
55					Theta hat (MLE)	0.415					Theta star (bias corrected MLE)	0.421
56					nu hat (MLE)	35.89					nu star (bias corrected)	35.4
57					Adjusted Level of Significance ( $\beta$ )	0.0459						
58					Approximate Chi Square Value (35.40, $\alpha$ )	22.78					Adjusted Chi Square Value (35.40, $\beta$ )	22.53
59					95% Gamma Approximate UCL (use when $n \geq 50$ )	0.196					95% Gamma Adjusted UCL (use when $n < 50$ )	0.198
60												
61	<b>Estimates of Gamma Parameters using KM Estimates</b>											
62					Mean (KM)	0.12					SD (KM)	0.729
63					Variance (KM)	0.532					SE of Mean (KM)	0.103
64					k hat (KM)	0.0272					k star (KM)	0.0371
65					nu hat (KM)	3.21					nu star (KM)	4.38
66					theta hat (KM)	4.422					theta star (KM)	3.241
67					80% gamma percentile (KM)	0.0046					90% gamma percentile (KM)	0.113
68					95% gamma percentile (KM)	0.551					99% gamma percentile (KM)	2.915
69												
70	<b>Gamma Kaplan-Meier (KM) Statistics</b>											
71					Approximate Chi Square Value (4.38, $\alpha$ )	0.877					Adjusted Chi Square Value (4.38, $\beta$ )	0.84
72					95% Gamma Approximate KM-UCL (use when $n \geq 50$ )	0.601					95% Gamma Adjusted KM-UCL (use when $n < 50$ )	0.627
73												
74	<b>Suggested UCL to Use</b>											
75					95% KM Approximate Gamma UCL	0.601						
76												
77	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
78	Recommendations are based upon data size, data distribution, and skewness.											
79	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
80	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
81												



## APPENDIX C

### USEPA REGIONAL SCREENING LEVEL CALCULATOR DATA OUTPUT

# Site-specific Construction Worker Inputs

Variable	Construction Worker Soil - Other Default Value	Site-Specific Value
A (PEF Dispersion Constant)	2.4538	2.4538
A (VF Dispersion Constant)	2.4538	2.4538
B (PEF Dispersion Constant)	17.5660	17.5660
B (VF Dispersion Constant)	17.5660	17.5660
C (PEF Dispersion Constant)	189.0426	189.0426
C (VF Dispersion Constant)	189.0426	189.0426
$d_e$ (average source depth) m	.	1.5
$F_n$ Unitless Dispersion Correction Factor	0.185837208	0.1864251590928
foc (fraction organic carbon in soil) g/g	0.006	0.006
F(x) (function dependant on $U_{con}/U$ , derived using Cowherd et al. (1985))	0.194	0.2602642671450
n (total soil porosity) $L_{pore}/L_{total}$	0.43396	0.399999999999999
$p_h$ (dry soil bulk density) g/cm <sup>3</sup>	1.5	1.59
$p_h$ (dry soil bulk density) g/cm <sup>3</sup>	1.5	1.5
$p_s$ (soil particle density) g/cm <sup>3</sup>	2.65	2.65
$Q/C_{soil}$ (g/m <sup>2</sup> -s per kg/m <sup>3</sup> )	14.31407	14.31407
$Q/C_{veg}$ (g/m <sup>2</sup> -s per kg/m <sup>3</sup> )	14.31407	14.31407
$Q/C_{air}$ (g/m <sup>2</sup> -s per kg/m <sup>3</sup> )	14.31407	14.31407
$A_c$ (VF <sub>min,con</sub> acres)	0.5	0.5
$A_c$ (VF <sub>ult,con</sub> acres)	0.5	0.5
$AF_{con}$ (skin adherence factor - construction worker) mg/cm <sup>2</sup>	0.3	0.3
$AT_{con}$ (averaging time - construction worker) days	365	365
$AT_{con-a}$ (averaging time - construction worker) days	350	182
$BW_{con}$ (body weight - construction worker) kg	80	80
$ED_{con}$ (exposure duration - construction worker) yr	1	1
$EF_{con}$ (exposure frequency - construction worker) day/yr	250	130
$ET_{con}$ (exposure time - construction worker) hr/day	8	8
THQ (target hazard quotient) unitless	0.1	0.1
$IRS_{con}$ (soil ingestion rate - construction worker) mg/day	330	330
LT (lifetime) yr	70	70
$SA_{con}$ (surface area - construction worker) cm <sup>2</sup> /day	3527	3527



# Site-specific Construction Worker Inputs

Variable	Construction Worker Soil - Other Default Value	Site-Specific Value
TR (target cancer risk) unitless	1.0E-06	1.0E-06
$t_c$ (overall duration of construction) hours	8400	4368
$T_c$ (overall duration of construction) s	30240000	15724800
Theta <sub>a</sub> (air-filled soil porosity) $L_{air}/L_{soil}$	0.28396	0.249999999999999
Theta <sub>w</sub> (water-filled soil porosity) $L_{water}/L_{soil}$	0.15	0.15
T (time over which traffic occurs) s	7200000	3744000
$T_t$ (overall duration of traffic) s	7200000	3744000
$U_m$ (mean annual wind speed) m/s	4.69	4.92
$U_t$ (equivalent threshold value) m/s	11.32	11.32
$VF_{min,cr}$ (volitization factor) $m^3_{air}/kg_{soil}$	.	536.61304570041
V (fraction of vegetative cover)	0	0

# Site-specific

## Construction Worker Regional Screening Levels (RSL) for Soil - Other Construction Activities

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; W = TEF applied; E = RPF applied; G = see user's guide; U = user provided; ca = cancer; nc = noncancer; \* = where: nc SL < 100X ca SL; \*\* = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Chemical	CAS Number	Mutagen?	Volatile?	Chemical Type	SF <sub>o</sub> (mg/kg-day) <sup>-1</sup>	SF <sub>o</sub> Ref	IUR (ug/m <sup>3</sup> ) <sup>-1</sup>	IUR Ref	RfD (mg/kg-day)	RfD Ref	RfC (mg/m <sup>3</sup> )	RfC Ref	GIABS	ABS	RBA	Soil Saturation Concentration (mg/kg)
Arsenic, Inorganic	7440-38-2	No	No	Inorganics	1.50E+00	U	4.30E-03	U	-		-		1	0.03	0.6	-
Cadmium (Diet)	7440-43-9	No	No	Inorganics	-		1.80E-03	U	5.00E-04	U	-		0.025	0.001	1	-
Chromium, Total	7440-47-3	No	No	Inorganics	-		-		-		-		0.013	-	1	-
Lead and Compounds	7439-92-1	No	No	Inorganics	-		-		-		-		1	-	1	-
Mercury (elemental)	7439-97-6	No	Yes	Inorganics	-		-		-		3.00E-04	U	1	-	1	3.13E+00

# Site-specific

## Construction Worker Regional Screening Levels (RSL) for Soil - Other Construction Activities

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; W = TEF applied; E = RPF applied; G = see user's guide; U = user provided; ca = cancer; nc = noncancer; \* = where: nc SL < 100X ca SL; \*\* = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

S (mg/L)	$K_{oc}$ (cm <sup>3</sup> /g)	$K_d$ (cm <sup>3</sup> /g)	HLC (atm-m <sup>3</sup> /mole)	Henry's Law Constant Used in Calcs (unitless)	H' and HLC Ref	Normal Boiling Point BP (K)	BP Ref	Critical Temperature T <sub>c</sub> (K)	T <sub>c</sub> Ref	Chemical Type	D <sub>g</sub> (cm <sup>2</sup> /s)	D <sub>iw</sub> (cm <sup>2</sup> /s)	D <sub>A</sub> (cm <sup>2</sup> /s)	Particulate Emission Factor (m <sup>3</sup> /kg)
-	-	2.90E+01	-	-		888.15	U	1670	U	INORGANIC	-	-	-	3.58E+07
-	-	7.50E+01	-	-		1038.15	U	2290	U	INORGANIC	-	-	-	3.58E+07
-	-	1.80E+06	-	-		2913.15	U	8560	U	INORGANIC	-	-	-	3.58E+07
-	-	9.00E+02	-	-		2023.15	U	5400	U	INORGANIC	-	-	-	3.58E+07
6.00E-02	-	5.20E+01	8.62E-03	3.52E-01	U	630.15	U	1760	U	INORGANIC	3.07E-02	6.30E-06	8.03E-06	3.58E+07

# Site-specific

## Construction Worker Regional Screening Levels (RSL) for Soil - Other Construction Activities

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; W = TEF applied; E = RPF applied; G = see user's guide; U = user provided; ca = cancer; nc = noncancer; \* = where: nc SL < 100X ca SL; \*\* = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Volatilization Factor Unlimited Reservoir (m³/kg)	Volatilization Factor Mass Limit (m³/kg)	Volatilization Factor Selected (m³/kg)	Ingestion SL TR=1E-06 (mg/kg)	Dermal SL TR=1E-06 (mg/kg)	Inhalation SL TR=1E-06 (mg/kg)	Carcinogenic SL TR=1E-06 (mg/kg)	Ingestion SL THQ=0.1 (mg/kg)	Dermal SL THQ=0.1 (mg/kg)	Inhalation SL THQ=0.1 (mg/kg)	Noncarcinogenic SL THI=0.1 (mg/kg)	Screening Level (mg/kg)
-	-	-	5.29E+01	3.30E+02	4.91E+03	4.52E+01	-	-	-	-	4.52E+01 ca
-	-	-	-	-	1.17E+04	1.17E+04	1.70E+01	1.32E+02	-	1.50E+01	1.50E+01 nc
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	5.37E+02	-	-	-	-	-	-	6.76E-02	6.76E-02	6.76E-02 nc

# Site-specific Construction Worker Risk for Soil - Other Construction Activities

Chemical	SF <sub>o</sub> (mg/kg-day) <sup>-1</sup>	SF <sub>o</sub> Ref	IUR (ug/m <sup>3</sup> ) <sup>-1</sup>	IUR Ref	RfD (mg/kg-day)	RfD Ref	RfC (mg/m <sup>3</sup> )	RfC Ref	GIABS	ABS	RBA	Soil Saturation Concentration (mg/kg)	S (mg/L)	K <sub>oc</sub> (cm <sup>3</sup> /g)	K <sub>d</sub> (cm <sup>3</sup> /g)
Arsenic, Inorganic	1.50E+00	U	4.30E-03	U	-		-		1	0.03	0.6	-	-	-	2.90E+01
Cadmium (Diet)	-		1.80E-03	U	5.00E-04	U	-		0.025	0.001	1	-	-	-	7.50E+01
Chromium, Total	-		-		-		-		0.013	-	1	-	-	-	1.80E+06
Lead and Compounds	-		-		-		-		1	-	1	-	-	-	9.00E+02
Mercury (elemental)	-		-		-		3.00E-04	U	1	-	1	3.13E+00	6.00E-02	-	5.20E+01
<i>*Total Risk/HI</i>	-		-		-		-		-	-	-	-	-	-	-

HLC (atm-m <sup>3</sup> /mole)	Henry's Law Constant Used in Calcs (unitless)	H <sup>o</sup> and HLC Ref	Normal Boiling Point BP (K)	BP Ref	Critical Temperature T <sub>c</sub> (K)	T <sub>c</sub> Ref	Chemical Type	D <sub>ia</sub> (cm <sup>2</sup> /s)	D <sub>iw</sub> (cm <sup>2</sup> /s)	D <sub>A</sub> (cm <sup>2</sup> /s)	Particulate Emission Factor (m <sup>3</sup> /kg)	Volatilization Factor Unlimited Reservoir (m <sup>3</sup> /kg)
-	-		888.15	U	1670	U	INORGANIC	-	-	-	3.58E+07	-
-	-		1038.15	U	2290	U	INORGANIC	-	-	-	3.58E+07	-
-	-		2913.15	U	8560	U	INORGANIC	-	-	-	3.58E+07	-
-	-		2023.15	U	5400	U	INORGANIC	-	-	-	3.58E+07	-
8.62E-03	3.52E-01	U	630.15	U	1760	U	INORGANIC	3.07E-02	6.30E-06	8.03E-06	3.58E+07	-
-	-		-		-			-	-	-	-	-

Volatilization Factor Mass Limit (m <sup>3</sup> /kg)	Volatilization Factor Selected (m <sup>3</sup> /kg)	Concentration (mg/kg)	Ingestion Risk	Dermal Risk	Inhalation Risk	Carcinogenic Risk	Ingestion HQ	Dermal HQ	Inhalation HQ	Noncarcinogenic HI
-	-	2.91E+00	5.50E-08	8.82E-09	5.94E-10	6.44E-08	-	-	-	-
-	-	1.72E-01	-	-	1.47E-11	1.47E-11	1.01E-03	1.30E-04	-	1.14E-03
-	-	6.93E+00	-	-	-	-	-	-	-	-
-	-	1.05E+03	-	-	-	-	-	-	-	-
-	5.37E+02	6.01E-01	-	-	-	-	-	-	8.89E-01	8.89E-01
-	-	-	5.50E-08	8.82E-09	6.08E-10	6.44E-08	1.01E-03	1.30E-04	8.89E-01	8.90E-01

# **APPENDIX I**

## **Photographic Documentation**

# PHOTOGRAPHIC REPORTING DATA SHEET

Photograph No: 1



View of initiation of boring operations at B-1.

Photograph No: 2



View of geologist's workstation.

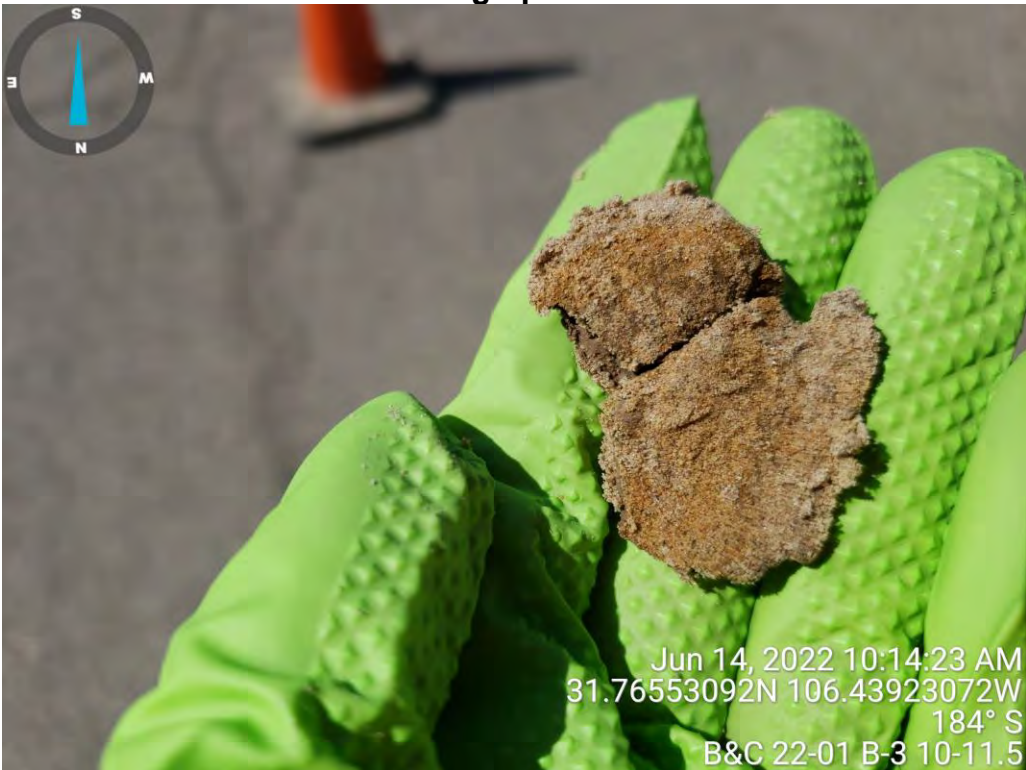
# PHOTOGRAPHIC REPORTING DATA SHEET

Photograph No: 3



View of split spoon sample at B-2.

Photograph No: 4



View of soil texture at B-3.



# PHOTOGRAPHIC REPORTING DATA SHEET

Photograph No: 5



View of typical traffic control conditions at B-4.

Photograph No: 6



View of B-11 location of auger refusal at Shelter Place.

# PHOTOGRAPHIC REPORTING DATA SHEET

Photograph No: 7



View of asphalt and soil sample on the split spoon observed at B-13.

Photograph No: 8



View of split spoon sampling being examined, measured, and processed.

# PHOTOGRAPHIC REPORTING DATA SHEET

Photograph No: 9



View of B-20 location and geologist's workstation at the Haskell Plant Gates.

Photograph No: 10



View of boring location being covered after boring activities.

## **APPENDIX II**

### **Report of Chemical Analysis and Chain-of-Custody**

## ANALYTICAL REPORT

Eurofins El Paso  
200 East Sunset Rd.  
Suite E  
El Paso, TX 79922  
Tel: (915)585-3443

Laboratory Job ID: 830-1995-1

Laboratory SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX  
Client Project/Site: B&C -22-01

For:  
ESSCO Environmental, Inc.  
1000 Newman St.  
El Paso, Texas 79902

Attn: Emile G Couroux



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Authorized for release by:  
6/28/2022 4:12:51 PM

Holly Taylor, Project Manager  
(806)794-1296  
[Holly.Taylor@et.eurofinsus.com](mailto:Holly.Taylor@et.eurofinsus.com)

### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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# Definitions/Glossary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

### GC/MS 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.
U	Indicates the analyte was analyzed for but not detected.

### 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.
U	Indicates the analyte was analyzed for but not detected.

## Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

## 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
REL	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

# Definitions/Glossary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

1

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# Case Narrative

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Job ID: 830-1995-1

### Laboratory: Eurofins El Paso

#### Narrative

#### Job Narrative 830-1995-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 6/15/2022 2:21 PM. 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 was 5.2° C.

#### GC/MS VOA

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria of 20% for 1,2-Dichloroethane (-24.0%), Bromomethane (-36.3%), trans-1,2-Dichloroethene (-21.2%), and Trichlorofluoromethane (32.0%)

Method 8260C: The matrix spike (MS) recoveries for preparation batch 860-57216 and analytical batch 860-57368 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260C: The following samples were diluted due to being an oil: (860-27892-A-3-A) and (860-27892-A-3-A MS). Elevated reporting limits (RL) are provided.

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 860-57615 recovered outside control limits for the following analytes: Chloroethane. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-57800 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-57800/2).

Method 8260C: The laboratory control sample (LCS) for analytical batch 860-57800 recovered outside control limits for the following analytes: Dichloro difluoromethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 860-57464 and analytical batch 860-57800 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 860-57449 and analytical batch 860-57798 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria of 20% for 1,1,2,2-Tetrachloroethane (27.4%), 1,2,3-Trichloropropane (28.0%), 2,2-Dichloropropane (21.9%), Bromomethane (27.4%), Chloroethane (28.3%), Chloroform (23.8%), Methyl tert-butyl ether (24.7%), and n-Butylbenzene (20.9%).

Method 8260C: The laboratory control sample (LCS) for analytical batch 860-57798 recovered outside control limits for the following analytes: Bromomethane and Chloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 860-57798 recovered outside control limits for the following analytes: Bromomethane and Chloroethane. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

# Case Narrative

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

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## Job ID: 830-1995-1 (Continued)

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### Laboratory: Eurofins El Paso (Continued)

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 860-57798 recovered outside control limits for the following analyte(s): Hexachlorobutadiene. Hexachlorobutadiene has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### Metals

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-57739 and analytical batch 860-57922 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) and post digestion spike (PDS) recoveries were within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-1**

**Lab Sample ID: 830-1995-1**

Date Collected: 06/14/22 08:55

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 5

### Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000206	U	0.000996	0.000206	mg/Kg		06/17/22 09:40	06/17/22 14:09	1
Toluene	<0.000996	U	0.00498	0.000996	mg/Kg		06/17/22 09:40	06/17/22 14:09	1
Ethylbenzene	<0.000334	U	0.000996	0.000334	mg/Kg		06/17/22 09:40	06/17/22 14:09	1
m,p-Xylenes	<0.000797	U	0.00199	0.000797	mg/Kg		06/17/22 09:40	06/17/22 14:09	1
o-Xylene	<0.000981	U	0.000996	0.000981	mg/Kg		06/17/22 09:40	06/17/22 14:09	1
Xylenes, Total	<0.000981	U	0.00199	0.000981	mg/Kg		06/17/22 09:40	06/17/22 14:09	1
MTBE	<0.000407	U	0.00498	0.000407	mg/Kg		06/17/22 09:40	06/17/22 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		56 - 150	06/17/22 09:40	06/17/22 14:09	1
4-Bromofluorobenzene (Surr)	97		68 - 152	06/17/22 09:40	06/17/22 14:09	1
Dibromofluoromethane (Surr)	101		53 - 142	06/17/22 09:40	06/17/22 14:09	1
Toluene-d8 (Surr)	94		70 - 130	06/17/22 09:40	06/17/22 14:09	1

### Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.1	21.1	mg/Kg		06/17/22 13:51	06/17/22 19:56	1
>C12-C28	<21.1	U	50.1	21.1	mg/Kg		06/17/22 13:51	06/17/22 19:56	1
>C28-C35	<21.1	U	50.1	21.1	mg/Kg		06/17/22 13:51	06/17/22 19:56	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.1	21.1	mg/Kg			06/20/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	06/17/22 13:51	06/17/22 19:56	1
o-Terphenyl (Surr)	101		70 - 130	06/17/22 13:51	06/17/22 19:56	1

### Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.37	J	3.57	0.551	mg/Kg		06/22/22 17:41	06/25/22 01:45	10
Barium	37.6		3.57	0.310	mg/Kg		06/22/22 17:41	06/25/22 01:45	10
Cadmium	<0.104	U	1.79	0.104	mg/Kg		06/22/22 17:41	06/25/22 01:45	10
Chromium	5.21		3.57	0.242	mg/Kg		06/22/22 17:41	06/25/22 01:45	10
Lead	2.95		1.79	0.173	mg/Kg		06/22/22 17:41	06/25/22 01:45	10
Selenium	<0.443	U	1.79	0.443	mg/Kg		06/22/22 17:41	06/25/22 01:45	10
Silver	0.292	J B	1.79	0.142	mg/Kg		06/22/22 17:41	06/25/22 01:45	10

### Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00356	U F1 F2	0.0185	0.00356	mg/Kg		06/21/22 07:20	06/21/22 13:41	1

**Client Sample ID: B-1**

**Lab Sample ID: 830-1995-2**

Date Collected: 06/14/22 09:01

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 10

### Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.000983	U	0.00200	0.000983	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
cis-1,2-Dichloroethene	<0.000300	U	0.00499	0.000300	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
cis-1,3-Dichloropropene	<0.000229	U	0.00499	0.000229	mg/Kg		06/20/22 11:27	06/20/22 19:07	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-1**

**Lab Sample ID: 830-1995-2**

**Date Collected: 06/14/22 09:01**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

**Sample Depth: 10**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	<0.000174	U	0.00499	0.000174	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
m,p-Xylenes	<0.000798	U	0.00200	0.000798	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
n-Butylbenzene	<0.000273	U	0.00499	0.000273	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
N-Propylbenzene	<0.000285	U	0.00499	0.000285	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
o-Xylene	<0.000983	U	0.000998	0.000983	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
p-Cymene (p-Isopropyltoluene)	<0.000318	U	0.00499	0.000318	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
tert-Butylbenzene	<0.00128	U	0.00499	0.00128	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
trans-1,2-Dichloroethene	<0.000433	U	0.00499	0.000433	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
trans-1,3-Dichloropropene	<0.000908	U	0.00499	0.000908	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
Vinyl chloride	<0.000440	U	0.00499	0.000440	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
1,1,1,2-Tetrachloroethane	<0.000266	U	0.00499	0.000266	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
1,1,1-Trichloroethane	<0.000502	U	0.00499	0.000502	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
1,1,2,2-Tetrachloroethane	<0.000469	U	0.00499	0.000469	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
1,1,2-Trichloroethane	<0.000391	U	0.00499	0.000391	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
1,1-Dichloroethane	<0.000375	U	0.00499	0.000375	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
1,1-Dichloroethene	<0.000277	U	0.00499	0.000277	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
1,1-Dichloropropene	<0.000448	U	0.00499	0.000448	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00499	0.00200	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
1,2,3-Trichloropropane	<0.000449	U	0.00499	0.000449	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00499	0.00200	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
1,2,4-Trimethylbenzene	<0.000254	U	0.00499	0.000254	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
1,2-Dibromo-3-Chloropropane	<0.000703	U	0.00499	0.000703	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
1,2-Dibromoethane	<0.00104	U	0.00499	0.00104	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
1,2-Dichlorobenzene	<0.000287	U	0.00499	0.000287	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
1,2-Dichloroethane	<0.000303	U	0.00499	0.000303	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
1,2-Dichloropropane	<0.000198	U	0.00499	0.000198	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
1,3,5-Trimethylbenzene	<0.000288	U	0.00499	0.000288	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
1,3-Dichlorobenzene	<0.000272	U	0.00499	0.000272	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
1,3-Dichloropropane	<0.000408	U	0.00499	0.000408	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
1,4-Dichlorobenzene	<0.000214	U	0.00499	0.000214	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
2,2-Dichloropropane	<0.000523	U	0.00499	0.000523	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
2-Butanone	<0.00364	U	0.0200	0.00364	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
4-Chlorotoluene	<0.000263	U	0.00499	0.000263	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
Benzene	<0.000207	U	0.000998	0.000207	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
Bromobenzene	<0.000346	U	0.00499	0.000346	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
Bromochloromethane	<0.000525	U	0.00499	0.000525	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
Bromodichloromethane	<0.000251	U	0.00499	0.000251	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
Bromoform	<0.00103	U	0.00499	0.00103	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
Bromomethane	<0.000941	U	0.00499	0.000941	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
Carbon tetrachloride	<0.00164	U	0.00499	0.00164	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
Chlorobenzene	<0.000236	U	0.00499	0.000236	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
Chloroethane	<0.000443	U *+	0.00998	0.000443	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
Chloroform	<0.000172	U	0.00499	0.000172	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
Chloromethane	<0.000430	U	0.00499	0.000430	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
Dibromochloromethane	<0.000893	U	0.00499	0.000893	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
Dichlorodifluoromethane	<0.00111	U	0.00499	0.00111	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
Ethylbenzene	<0.000335	U	0.000998	0.000335	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
Hexachlorobutadiene	<0.00200	U	0.00499	0.00200	mg/Kg		06/20/22 11:27	06/20/22 19:07	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-1**

**Lab Sample ID: 830-1995-2**

Date Collected: 06/14/22 09:01

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	<0.000408	U	0.00499	0.000408	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
Methylene Chloride	<0.00421	U	0.0200	0.00421	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
Naphthalene	<0.00200	U	0.00998	0.00200	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
sec-Butylbenzene	<0.000260	U	0.00499	0.000260	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
Styrene	<0.000205	U	0.00499	0.000205	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
Tetrachloroethene	<0.000369	U	0.00499	0.000369	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
Toluene	<0.000998	U	0.00499	0.000998	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
Trichloroethene	<0.000493	U	0.00499	0.000493	mg/Kg		06/20/22 11:27	06/20/22 19:07	1
Trichlorofluoromethane	<0.000307	U	0.00499	0.000307	mg/Kg		06/20/22 11:27	06/20/22 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		56 - 150	06/20/22 11:27	06/20/22 19:07	1
4-Bromofluorobenzene (Surr)	98		68 - 152	06/20/22 11:27	06/20/22 19:07	1
Dibromofluoromethane (Surr)	111		53 - 142	06/20/22 11:27	06/20/22 19:07	1
Toluene-d8 (Surr)	103		70 - 130	06/20/22 11:27	06/20/22 19:07	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	49.9	21.1	mg/Kg		06/17/22 13:51	06/17/22 20:16	1
>C12-C28	<21.1	U	49.9	21.1	mg/Kg		06/17/22 13:51	06/17/22 20:16	1
>C28-C35	<21.1	U	49.9	21.1	mg/Kg		06/17/22 13:51	06/17/22 20:16	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	49.9	21.1	mg/Kg			06/20/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130	06/17/22 13:51	06/17/22 20:16	1
o-Terphenyl (Surr)	112		70 - 130	06/17/22 13:51	06/17/22 20:16	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.681</b>	<b>J</b>	3.33	0.514	mg/Kg		06/22/22 17:41	06/25/22 01:48	10
<b>Barium</b>	<b>16.6</b>		3.33	0.289	mg/Kg		06/22/22 17:41	06/25/22 01:48	10
Cadmium	<0.0967	U	1.67	0.0967	mg/Kg		06/22/22 17:41	06/25/22 01:48	10
<b>Chromium</b>	<b>2.17</b>	<b>J</b>	3.33	0.226	mg/Kg		06/22/22 17:41	06/25/22 01:48	10
<b>Lead</b>	<b>1.86</b>		1.67	0.161	mg/Kg		06/22/22 17:41	06/25/22 01:48	10
Selenium	<0.413	U	1.67	0.413	mg/Kg		06/22/22 17:41	06/25/22 01:48	10
<b>Silver</b>	<b>0.267</b>	<b>J B</b>	1.67	0.132	mg/Kg		06/22/22 17:41	06/25/22 01:48	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00343	U	0.0179	0.00343	mg/Kg		06/21/22 07:20	06/21/22 13:51	1

**Client Sample ID: B-1**

**Lab Sample ID: 830-1995-3**

Date Collected: 06/14/22 09:05

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 15

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000205	U	0.000990	0.000205	mg/Kg		06/17/22 09:40	06/17/22 14:29	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-1**

**Lab Sample ID: 830-1995-3**

Date Collected: 06/14/22 09:05

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 15

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.000990	U	0.00495	0.000990	mg/Kg		06/17/22 09:40	06/17/22 14:29	1
Ethylbenzene	<0.000332	U	0.000990	0.000332	mg/Kg		06/17/22 09:40	06/17/22 14:29	1
m,p-Xylenes	<0.000792	U	0.00198	0.000792	mg/Kg		06/17/22 09:40	06/17/22 14:29	1
o-Xylene	<0.000975	U	0.000990	0.000975	mg/Kg		06/17/22 09:40	06/17/22 14:29	1
Xylenes, Total	<0.000975	U	0.00198	0.000975	mg/Kg		06/17/22 09:40	06/17/22 14:29	1
MTBE	<0.000405	U	0.00495	0.000405	mg/Kg		06/17/22 09:40	06/17/22 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		56 - 150	06/17/22 09:40	06/17/22 14:29	1
4-Bromofluorobenzene (Surr)	99		68 - 152	06/17/22 09:40	06/17/22 14:29	1
Dibromofluoromethane (Surr)	100		53 - 142	06/17/22 09:40	06/17/22 14:29	1
Toluene-d8 (Surr)	94		70 - 130	06/17/22 09:40	06/17/22 14:29	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.0	U	49.9	21.0	mg/Kg		06/17/22 13:51	06/17/22 20:36	1
>C12-C28	<21.0	U	49.9	21.0	mg/Kg		06/17/22 13:51	06/17/22 20:36	1
>C28-C35	<21.0	U	49.9	21.0	mg/Kg		06/17/22 13:51	06/17/22 20:36	1
Total Petroleum Hydrocarbons (C6-C35)	<21.0	U	49.9	21.0	mg/Kg			06/20/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130	06/17/22 13:51	06/17/22 20:36	1
o-Terphenyl (Surr)	103		70 - 130	06/17/22 13:51	06/17/22 20:36	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.870</b>	<b>J</b>	3.77	0.582	mg/Kg		06/22/22 17:41	06/25/22 01:51	10
<b>Barium</b>	<b>12.8</b>		3.77	0.327	mg/Kg		06/22/22 17:41	06/25/22 01:51	10
Cadmium	<0.109	U	1.89	0.109	mg/Kg		06/22/22 17:41	06/25/22 01:51	10
<b>Chromium</b>	<b>4.78</b>		3.77	0.256	mg/Kg		06/22/22 17:41	06/25/22 01:51	10
<b>Lead</b>	<b>2.06</b>		1.89	0.183	mg/Kg		06/22/22 17:41	06/25/22 01:51	10
Selenium	<0.468	U	1.89	0.468	mg/Kg		06/22/22 17:41	06/25/22 01:51	10
<b>Silver</b>	<b>0.296</b>	<b>J B</b>	1.89	0.150	mg/Kg		06/22/22 17:41	06/25/22 01:51	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00343	U	0.0179	0.00343	mg/Kg		06/21/22 07:20	06/21/22 13:52	1

**Client Sample ID: B-2**

**Lab Sample ID: 830-1995-4**

Date Collected: 06/14/22 09:35

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 5

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000207	U	0.000998	0.000207	mg/Kg		06/17/22 09:40	06/17/22 14:50	1
Toluene	<0.000998	U	0.00499	0.000998	mg/Kg		06/17/22 09:40	06/17/22 14:50	1
Ethylbenzene	<0.000335	U	0.000998	0.000335	mg/Kg		06/17/22 09:40	06/17/22 14:50	1
m,p-Xylenes	<0.000798	U	0.00200	0.000798	mg/Kg		06/17/22 09:40	06/17/22 14:50	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-2**

**Lab Sample ID: 830-1995-4**

Date Collected: 06/14/22 09:35

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 5

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000983	U	0.000988	0.000983	mg/Kg		06/17/22 09:40	06/17/22 14:50	1
Xylenes, Total	<0.000983	U	0.00200	0.000983	mg/Kg		06/17/22 09:40	06/17/22 14:50	1
MTBE	<0.000408	U	0.00499	0.000408	mg/Kg		06/17/22 09:40	06/17/22 14:50	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	109		56 - 150				06/17/22 09:40	06/17/22 14:50	1
4-Bromofluorobenzene (Surr)	100		68 - 152				06/17/22 09:40	06/17/22 14:50	1
Dibromofluoromethane (Surr)	100		53 - 142				06/17/22 09:40	06/17/22 14:50	1
Toluene-d8 (Surr)	95		70 - 130				06/17/22 09:40	06/17/22 14:50	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.1	21.1	mg/Kg		06/17/22 13:51	06/17/22 20:56	1
>C12-C28	<21.1	U	50.1	21.1	mg/Kg		06/17/22 13:51	06/17/22 20:56	1
>C28-C35	<21.1	U	50.1	21.1	mg/Kg		06/17/22 13:51	06/17/22 20:56	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.1	21.1	mg/Kg			06/20/22 18:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane (Surr)	108		70 - 130				06/17/22 13:51	06/17/22 20:56	1
o-Terphenyl (Surr)	114		70 - 130				06/17/22 13:51	06/17/22 20:56	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.802</b>	<b>J</b>	3.64	0.561	mg/Kg		06/22/22 17:41	06/25/22 01:55	10
<b>Barium</b>	<b>20.8</b>		3.64	0.315	mg/Kg		06/22/22 17:41	06/25/22 01:55	10
Cadmium	<0.105	U	1.82	0.105	mg/Kg		06/22/22 17:41	06/25/22 01:55	10
<b>Chromium</b>	<b>2.05</b>	<b>J</b>	3.64	0.247	mg/Kg		06/22/22 17:41	06/25/22 01:55	10
<b>Lead</b>	<b>1.74</b>	<b>J</b>	1.82	0.176	mg/Kg		06/22/22 17:41	06/25/22 01:55	10
Selenium	<0.451	U	1.82	0.451	mg/Kg		06/22/22 17:41	06/25/22 01:55	10
<b>Silver</b>	<b>0.286</b>	<b>J B</b>	1.82	0.144	mg/Kg		06/22/22 17:41	06/25/22 01:55	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00370	U	0.0192	0.00370	mg/Kg		06/21/22 07:20	06/21/22 13:54	1

**Client Sample ID: B-2**

**Lab Sample ID: 830-1995-5**

Date Collected: 06/14/22 09:40

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.000993	U	0.00202	0.000993	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
cis-1,2-Dichloroethene	<0.000303	U	0.00504	0.000303	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
cis-1,3-Dichloropropene	<0.000231	U	0.00504	0.000231	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
Isopropylbenzene	<0.000175	U	0.00504	0.000175	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
m,p-Xylenes	<0.000806	U	0.00202	0.000806	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
n-Butylbenzene	<0.000276	U	0.00504	0.000276	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
N-Propylbenzene	<0.000288	U	0.00503	0.000288	mg/Kg		06/20/22 11:27	06/20/22 18:45	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-2**

**Lab Sample ID: 830-1995-5**

**Date Collected: 06/14/22 09:40**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

**Sample Depth: 10**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000993	U	0.00101	0.000993	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
p-Cymene (p-Isopropyltoluene)	<0.000321	U	0.00504	0.000321	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
tert-Butylbenzene	<0.00129	U	0.00504	0.00129	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
trans-1,2-Dichloroethene	<0.000437	U	0.00504	0.000437	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
trans-1,3-Dichloropropene	<0.000917	U	0.00504	0.000917	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
Vinyl chloride	<0.000445	U	0.00504	0.000445	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
1,1,1,2-Tetrachloroethane	<0.000269	U	0.00504	0.000269	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
1,1,1-Trichloroethane	<0.000507	U	0.00504	0.000507	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
1,1,1,2-Tetrachloroethane	<0.000473	U	0.00504	0.000473	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
1,1,2-Trichloroethane	<0.000395	U	0.00504	0.000395	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
1,1-Dichloroethane	<0.000379	U	0.00504	0.000379	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
1,1-Dichloroethene	<0.000279	U	0.00504	0.000279	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
1,1-Dichloropropene	<0.000452	U	0.00504	0.000452	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
1,2,3-Trichlorobenzene	<0.00202	U	0.00504	0.00202	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
1,2,3-Trichloropropane	<0.000453	U	0.00504	0.000453	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
1,2,4-Trichlorobenzene	<0.00202	U	0.00504	0.00202	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
1,2,4-Trimethylbenzene	<0.000257	U	0.00504	0.000257	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
1,2-Dibromo-3-Chloropropane	<0.000710	U	0.00504	0.000710	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
1,2-Dibromoethane	<0.00105	U	0.00504	0.00105	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
1,2-Dichlorobenzene	<0.000290	U	0.00504	0.000290	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
1,2-Dichloroethane	<0.000306	U	0.00504	0.000306	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
1,2-Dichloropropane	<0.000200	U	0.00504	0.000200	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
1,3,5-Trimethylbenzene	<0.000291	U	0.00504	0.000291	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
1,3-Dichlorobenzene	<0.000275	U	0.00504	0.000275	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
1,3-Dichloropropane	<0.000412	U	0.00504	0.000412	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
1,4-Dichlorobenzene	<0.000216	U	0.00504	0.000216	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
2,2-Dichloropropane	<0.000528	U	0.00504	0.000528	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
2-Butanone	<0.00368	U	0.0202	0.00368	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
4-Chlorotoluene	<0.000266	U	0.00504	0.000266	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
Benzene	<0.000209	U	0.00101	0.000209	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
Bromobenzene	<0.000349	U	0.00504	0.000349	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
Bromochloromethane	<0.000530	U	0.00504	0.000530	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
Bromodichloromethane	<0.000253	U	0.00504	0.000253	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
Bromoform	<0.00104	U	0.00504	0.00104	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
Bromomethane	<0.000951	U	0.00504	0.000951	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
Carbon tetrachloride	<0.00166	U	0.00504	0.00166	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
Chlorobenzene	<0.000239	U	0.00504	0.000239	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
Chloroethane	<0.000448	U	0.0101	0.000448	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
Chloroform	<0.000174	U	0.00504	0.000174	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
Chloromethane	<0.000434	U	0.00504	0.000434	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
Dibromochloromethane	<0.000902	U	0.00504	0.000902	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
Dichlorodifluoromethane	<0.00112	U	0.00504	0.00112	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
Ethylbenzene	<0.000338	U	0.00101	0.000338	mg/Kg		06/20/22 11:27	06/20/22 18:45	1
Hexachlorobutadiene	<0.00202	U	0.00504	0.00202	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
MTBE	<0.000412	U	0.00504	0.000412	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
Methylene Chloride	<0.00425	U	0.0202	0.00425	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
Naphthalene	<0.00201	U	0.0101	0.00201	mg/Kg		06/20/22 11:27	06/20/22 18:45	1
sec-Butylbenzene	<0.000263	U	0.00504	0.000263	mg/Kg		06/17/22 09:40	06/17/22 22:01	1



# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-2**

**Lab Sample ID: 830-1995-5**

Date Collected: 06/14/22 09:40

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.000207	U	0.00504	0.000207	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
Tetrachloroethene	<0.000373	U	0.00504	0.000373	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
Toluene	<0.00101	U	0.00504	0.00101	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
Trichloroethene	<0.000498	U	0.00504	0.000498	mg/Kg		06/17/22 09:40	06/17/22 22:01	1
Trichlorofluoromethane	<0.000310	U	0.00504	0.000310	mg/Kg		06/17/22 09:40	06/17/22 22:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		56 - 150	06/17/22 09:40	06/17/22 22:01	1
1,2-Dichloroethane-d4 (Surr)	110		56 - 150	06/20/22 11:27	06/20/22 18:45	1
4-Bromofluorobenzene (Surr)	113		68 - 152	06/17/22 09:40	06/17/22 22:01	1
4-Bromofluorobenzene (Surr)	100		68 - 152	06/20/22 11:27	06/20/22 18:45	1
Dibromofluoromethane (Surr)	94		53 - 142	06/17/22 09:40	06/17/22 22:01	1
Dibromofluoromethane (Surr)	104		53 - 142	06/20/22 11:27	06/20/22 18:45	1
Toluene-d8 (Surr)	107		70 - 130	06/17/22 09:40	06/17/22 22:01	1
Toluene-d8 (Surr)	100		70 - 130	06/20/22 11:27	06/20/22 18:45	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/17/22 13:51	06/17/22 21:16	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/17/22 13:51	06/17/22 21:16	1
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/17/22 13:51	06/17/22 21:16	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.0	21.1	mg/Kg			06/20/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130	06/17/22 13:51	06/17/22 21:16	1
o-Terphenyl (Surr)	104		70 - 130	06/17/22 13:51	06/17/22 21:16	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.651</b>	<b>J</b>	3.33	0.514	mg/Kg		06/22/22 17:41	06/25/22 01:58	10
<b>Barium</b>	<b>18.6</b>		3.33	0.289	mg/Kg		06/22/22 17:41	06/25/22 01:58	10
Cadmium	<0.0967	U	1.67	0.0967	mg/Kg		06/22/22 17:41	06/25/22 01:58	10
<b>Chromium</b>	<b>2.69</b>	<b>J</b>	3.33	0.226	mg/Kg		06/22/22 17:41	06/25/22 01:58	10
<b>Lead</b>	<b>1.69</b>		1.67	0.161	mg/Kg		06/22/22 17:41	06/25/22 01:58	10
Selenium	<0.413	U	1.67	0.413	mg/Kg		06/22/22 17:41	06/25/22 01:58	10
<b>Silver</b>	<b>0.263</b>	<b>J B</b>	1.67	0.132	mg/Kg		06/22/22 17:41	06/25/22 01:58	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00356	U	0.0185	0.00356	mg/Kg		06/21/22 07:20	06/21/22 13:55	1

**Client Sample ID: B-2**

**Lab Sample ID: 830-1995-6**

Date Collected: 06/14/22 09:45

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 15

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000209	U	0.00101	0.000209	mg/Kg		06/17/22 09:40	06/17/22 15:10	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-2**

**Lab Sample ID: 830-1995-6**

Date Collected: 06/14/22 09:45

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 15

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00101	U	0.00505	0.00101	mg/Kg		06/17/22 09:40	06/17/22 15:10	1
Ethylbenzene	<0.000339	U	0.00101	0.000339	mg/Kg		06/17/22 09:40	06/17/22 15:10	1
m,p-Xylenes	<0.000808	U	0.00202	0.000808	mg/Kg		06/17/22 09:40	06/17/22 15:10	1
o-Xylene	<0.000995	U	0.00101	0.000995	mg/Kg		06/17/22 09:40	06/17/22 15:10	1
Xylenes, Total	<0.000995	U	0.00202	0.000995	mg/Kg		06/17/22 09:40	06/17/22 15:10	1
MTBE	<0.000413	U	0.00505	0.000413	mg/Kg		06/17/22 09:40	06/17/22 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		56 - 150	06/17/22 09:40	06/17/22 15:10	1
4-Bromofluorobenzene (Surr)	102		68 - 152	06/17/22 09:40	06/17/22 15:10	1
Dibromofluoromethane (Surr)	98		53 - 142	06/17/22 09:40	06/17/22 15:10	1
Toluene-d8 (Surr)	96		70 - 130	06/17/22 09:40	06/17/22 15:10	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.1	21.1	mg/Kg		06/17/22 13:51	06/17/22 22:16	1
>C12-C28	<21.1	U	50.1	21.1	mg/Kg		06/17/22 13:51	06/17/22 22:16	1
>C28-C35	<21.1	U	50.1	21.1	mg/Kg		06/17/22 13:51	06/17/22 22:16	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.1	21.1	mg/Kg			06/20/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130	06/17/22 13:51	06/17/22 22:16	1
o-Terphenyl (Surr)	111		70 - 130	06/17/22 13:51	06/17/22 22:16	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.705	J	3.77	0.582	mg/Kg		06/22/22 17:41	06/25/22 02:01	10
Barium	27.3		3.77	0.327	mg/Kg		06/22/22 17:41	06/25/22 02:01	10
Cadmium	<0.109	U	1.89	0.109	mg/Kg		06/22/22 17:41	06/25/22 02:01	10
Chromium	2.58	J	3.77	0.256	mg/Kg		06/22/22 17:41	06/25/22 02:01	10
Lead	1.56	J	1.89	0.183	mg/Kg		06/22/22 17:41	06/25/22 02:01	10
Selenium	<0.468	U	1.89	0.468	mg/Kg		06/22/22 17:41	06/25/22 02:01	10
Silver	0.297	J B	1.89	0.150	mg/Kg		06/22/22 17:41	06/25/22 02:01	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00356	U	0.0185	0.00356	mg/Kg		06/21/22 07:20	06/21/22 13:57	1

**Client Sample ID: B-3**

**Lab Sample ID: 830-1995-7**

Date Collected: 06/14/22 10:10

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 5

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000207	U	0.00100	0.000207	mg/Kg		06/17/22 09:40	06/17/22 15:31	1
Toluene	<0.00100	U	0.00501	0.00100	mg/Kg		06/17/22 09:40	06/17/22 15:31	1
Ethylbenzene	<0.000336	U	0.00100	0.000336	mg/Kg		06/17/22 09:40	06/17/22 15:31	1
m,p-Xylenes	<0.000802	U	0.00200	0.000802	mg/Kg		06/17/22 09:40	06/17/22 15:31	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-3**

**Lab Sample ID: 830-1995-7**

Date Collected: 06/14/22 10:10

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 5

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000987	U	0.00100	0.000987	mg/Kg		06/17/22 09:40	06/17/22 15:31	1
Xylenes, Total	<0.000987	U	0.00200	0.000987	mg/Kg		06/17/22 09:40	06/17/22 15:31	1
MTBE	<0.000409	U	0.00501	0.000409	mg/Kg		06/17/22 09:40	06/17/22 15:31	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	111		56 - 150				06/17/22 09:40	06/17/22 15:31	1
4-Bromofluorobenzene (Surr)	102		68 - 152				06/17/22 09:40	06/17/22 15:31	1
Dibromofluoromethane (Surr)	101		53 - 142				06/17/22 09:40	06/17/22 15:31	1
Toluene-d8 (Surr)	97		70 - 130				06/17/22 09:40	06/17/22 15:31	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/17/22 13:51	06/17/22 22:35	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/17/22 13:51	06/17/22 22:35	1
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/17/22 13:51	06/17/22 22:35	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.0	21.1	mg/Kg			06/20/22 18:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane (Surr)	103		70 - 130				06/17/22 13:51	06/17/22 22:35	1
o-Terphenyl (Surr)	105		70 - 130				06/17/22 13:51	06/17/22 22:35	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>1.32</b>	<b>J</b>	3.92	0.605	mg/Kg		06/22/22 17:41	06/25/22 02:04	10
<b>Barium</b>	<b>71.4</b>		3.92	0.340	mg/Kg		06/22/22 17:41	06/25/22 02:04	10
Cadmium	<0.114	U	1.96	0.114	mg/Kg		06/22/22 17:41	06/25/22 02:04	10
<b>Chromium</b>	<b>5.06</b>		3.92	0.266	mg/Kg		06/22/22 17:41	06/25/22 02:04	10
<b>Lead</b>	<b>3.59</b>		1.96	0.190	mg/Kg		06/22/22 17:41	06/25/22 02:04	10
Selenium	<0.486	U	1.96	0.486	mg/Kg		06/22/22 17:41	06/25/22 02:04	10
<b>Silver</b>	<b>0.318</b>	<b>J B</b>	1.96	0.156	mg/Kg		06/22/22 17:41	06/25/22 02:04	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00370	U	0.0192	0.00370	mg/Kg		06/21/22 07:20	06/21/22 13:58	1

**Client Sample ID: B-3**

**Lab Sample ID: 830-1995-8**

Date Collected: 06/14/22 10:15

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.000979	U	0.00199	0.000979	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
cis-1,2-Dichloroethene	<0.000299	U	0.00497	0.000299	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
cis-1,3-Dichloropropene	<0.000228	U	0.00497	0.000228	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
Isopropylbenzene	<0.000173	U	0.00497	0.000173	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
m,p-Xylenes	<0.000795	U	0.00199	0.000795	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
n-Butylbenzene	<0.000272	U	0.00497	0.000272	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
N-Propylbenzene	<0.000284	U	0.00497	0.000284	mg/Kg		06/17/22 09:40	06/17/22 22:24	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-3**

**Lab Sample ID: 830-1995-8**

**Date Collected: 06/14/22 10:15**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

**Sample Depth: 10**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000979	U	0.000994	0.000979	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
p-Cymene (p-Isopropyltoluene)	<0.000317	U	0.00497	0.000317	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
tert-Butylbenzene	<0.00128	U	0.00497	0.00128	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
trans-1,2-Dichloroethene	<0.000431	U	0.00497	0.000431	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
trans-1,3-Dichloropropene	<0.000904	U	0.00497	0.000904	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
Vinyl chloride	<0.000439	U	0.00497	0.000439	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
1,1,1,2-Tetrachloroethane	<0.000265	U	0.00497	0.000265	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
1,1,1-Trichloroethane	<0.000500	U	0.00497	0.000500	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
1,1,2,2-Tetrachloroethane	<0.000467	U	0.00497	0.000467	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
1,1,2-Trichloroethane	<0.000390	U	0.00497	0.000390	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
1,1-Dichloroethane	<0.000374	U	0.00497	0.000374	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
1,1-Dichloroethene	<0.000275	U	0.00497	0.000275	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
1,1-Dichloropropene	<0.000446	U	0.00497	0.000446	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
1,2,3-Trichlorobenzene	<0.00199	U	0.00497	0.00199	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
1,2,3-Trichloropropane	<0.000447	U	0.00497	0.000447	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
1,2,4-Trichlorobenzene	<0.00199	U	0.00497	0.00199	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
1,2,4-Trimethylbenzene	<0.000253	U	0.00497	0.000253	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
1,2-Dibromo-3-Chloropropane	<0.000700	U	0.00497	0.000700	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
1,2-Dibromoethane	<0.00104	U	0.00497	0.00104	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
1,2-Dichlorobenzene	<0.000286	U	0.00497	0.000286	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
1,2-Dichloroethane	<0.000302	U	0.00497	0.000302	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
1,2-Dichloropropane	<0.000197	U	0.00497	0.000197	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
1,3,5-Trimethylbenzene	<0.000287	U	0.00497	0.000287	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
1,3-Dichlorobenzene	<0.000271	U	0.00497	0.000271	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
1,3-Dichloropropane	<0.000406	U	0.00497	0.000406	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
1,4-Dichlorobenzene	<0.000213	U	0.00497	0.000213	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
2,2-Dichloropropane	<0.000521	U	0.00497	0.000521	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
2-Butanone	<0.00362	U	0.0199	0.00362	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
4-Chlorotoluene	<0.000262	U	0.00497	0.000262	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
Benzene	<0.000206	U	0.000994	0.000206	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
Bromobenzene	<0.000344	U	0.00497	0.000344	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
Bromochloromethane	<0.000523	U	0.00497	0.000523	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
Bromodichloromethane	<0.000250	U	0.00497	0.000250	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
Bromoform	<0.00103	U	0.00497	0.00103	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
Bromomethane	<0.000938	U	0.00497	0.000938	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
Carbon tetrachloride	<0.00163	U	0.00497	0.00163	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
Chlorobenzene	<0.000235	U	0.00497	0.000235	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
Chloroethane	<0.000441	U	0.00994	0.000441	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
Chloroform	<0.000172	U	0.00497	0.000172	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
Chloromethane	<0.000428	U	0.00497	0.000428	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
Dibromochloromethane	<0.000889	U	0.00497	0.000889	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
Dichlorodifluoromethane	<0.00111	U	0.00497	0.00111	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
Ethylbenzene	<0.000334	U	0.000996	0.000334	mg/Kg		06/20/22 11:27	06/20/22 18:00	1
Hexachlorobutadiene	<0.00199	U	0.00497	0.00199	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
MTBE	<0.000406	U	0.00497	0.000406	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
Methylene Chloride	<0.00419	U	0.0199	0.00419	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
Naphthalene	<0.00199	U	0.00994	0.00199	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
sec-Butylbenzene	<0.000259	U	0.00497	0.000259	mg/Kg		06/17/22 09:40	06/17/22 22:24	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-3**

**Lab Sample ID: 830-1995-8**

Date Collected: 06/14/22 10:15

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.000204	U	0.00497	0.000204	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
Tetrachloroethene	<0.000367	U	0.00497	0.000367	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
Toluene	<0.000994	U	0.00497	0.000994	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
Trichloroethene	<0.000491	U	0.00497	0.000491	mg/Kg		06/17/22 09:40	06/17/22 22:24	1
Trichlorofluoromethane	<0.000306	U	0.00497	0.000306	mg/Kg		06/17/22 09:40	06/17/22 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		56 - 150	06/17/22 09:40	06/17/22 22:24	1
1,2-Dichloroethane-d4 (Surr)	111		56 - 150	06/20/22 11:27	06/20/22 18:00	1
4-Bromofluorobenzene (Surr)	112		68 - 152	06/17/22 09:40	06/17/22 22:24	1
4-Bromofluorobenzene (Surr)	108		68 - 152	06/20/22 11:27	06/20/22 18:00	1
Dibromofluoromethane (Surr)	94		53 - 142	06/17/22 09:40	06/17/22 22:24	1
Dibromofluoromethane (Surr)	108		53 - 142	06/20/22 11:27	06/20/22 18:00	1
Toluene-d8 (Surr)	105		70 - 130	06/17/22 09:40	06/17/22 22:24	1
Toluene-d8 (Surr)	99		70 - 130	06/20/22 11:27	06/20/22 18:00	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/17/22 13:51	06/17/22 22:55	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/17/22 13:51	06/17/22 22:55	1
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/17/22 13:51	06/17/22 22:55	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.0	21.1	mg/Kg			06/20/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130	06/17/22 13:51	06/17/22 22:55	1
o-Terphenyl (Surr)	115		70 - 130	06/17/22 13:51	06/17/22 22:55	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>1.36</b>	<b>J</b>	3.77	0.582	mg/Kg		06/22/22 17:41	06/25/22 02:14	10
<b>Barium</b>	<b>59.3</b>		3.77	0.327	mg/Kg		06/22/22 17:41	06/25/22 02:14	10
Cadmium	<0.109	U	1.89	0.109	mg/Kg		06/22/22 17:41	06/25/22 02:14	10
<b>Chromium</b>	<b>3.98</b>		3.77	0.256	mg/Kg		06/22/22 17:41	06/25/22 02:14	10
<b>Lead</b>	<b>3.05</b>		1.89	0.183	mg/Kg		06/22/22 17:41	06/25/22 02:14	10
Selenium	<0.468	U	1.89	0.468	mg/Kg		06/22/22 17:41	06/25/22 02:14	10
<b>Silver</b>	<b>0.306</b>	<b>J B</b>	1.89	0.150	mg/Kg		06/22/22 17:41	06/25/22 02:14	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00377	U	0.0196	0.00377	mg/Kg		06/21/22 07:20	06/21/22 13:59	1

**Client Sample ID: B-3**

**Lab Sample ID: 830-1995-9**

Date Collected: 06/14/22 10:20

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 15

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000208	U	0.00101	0.000208	mg/Kg		06/17/22 09:40	06/17/22 15:51	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-3**

**Lab Sample ID: 830-1995-9**

**Date Collected: 06/14/22 10:20**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

**Sample Depth: 15**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00101	U	0.00503	0.00101	mg/Kg		06/17/22 09:40	06/17/22 15:51	1
Ethylbenzene	<0.000338	U	0.00101	0.000338	mg/Kg		06/17/22 09:40	06/17/22 15:51	1
m,p-Xylenes	<0.000805	U	0.00201	0.000805	mg/Kg		06/17/22 09:40	06/17/22 15:51	1
o-Xylene	<0.000991	U	0.00101	0.000991	mg/Kg		06/17/22 09:40	06/17/22 15:51	1
Xylenes, Total	<0.000991	U	0.00201	0.000991	mg/Kg		06/17/22 09:40	06/17/22 15:51	1
MTBE	<0.000411	U	0.00503	0.000411	mg/Kg		06/17/22 09:40	06/17/22 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		56 - 150	06/17/22 09:40	06/17/22 15:51	1
4-Bromofluorobenzene (Surr)	99		68 - 152	06/17/22 09:40	06/17/22 15:51	1
Dibromofluoromethane (Surr)	101		53 - 142	06/17/22 09:40	06/17/22 15:51	1
Toluene-d8 (Surr)	96		70 - 130	06/17/22 09:40	06/17/22 15:51	1

**Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00218	U	0.00313	0.00218	mg/Kg		06/25/22 09:16	06/27/22 21:35	1
Acenaphthylene	<0.00235	U	0.00313	0.00235	mg/Kg		06/25/22 09:16	06/27/22 21:35	1
Anthracene	<0.00223	U	0.00313	0.00223	mg/Kg		06/25/22 09:16	06/27/22 21:35	1
Benzo[a]anthracene	<0.00201	U	0.00313	0.00201	mg/Kg		06/25/22 09:16	06/27/22 21:35	1
Benzo[a]pyrene	<0.00229	U	0.00313	0.00229	mg/Kg		06/25/22 09:16	06/27/22 21:35	1
Benzo[b]fluoranthene	<0.00258	U	0.00313	0.00258	mg/Kg		06/25/22 09:16	06/27/22 21:35	1
Benzo[g,h,i]perylene	<0.00248	U	0.00313	0.00248	mg/Kg		06/25/22 09:16	06/27/22 21:35	1
Benzo[k]fluoranthene	<0.00250	U	0.00313	0.00250	mg/Kg		06/25/22 09:16	06/27/22 21:35	1
Chrysene	<0.00173	U	0.00313	0.00173	mg/Kg		06/25/22 09:16	06/27/22 21:35	1
Dibenz(a,h)anthracene	<0.00250	U	0.00313	0.00250	mg/Kg		06/25/22 09:16	06/27/22 21:35	1
Dibenzofuran	<0.00219	U	0.00313	0.00219	mg/Kg		06/25/22 09:16	06/27/22 21:35	1
Fluoranthene	<0.00219	U	0.00313	0.00219	mg/Kg		06/25/22 09:16	06/27/22 21:35	1
Fluorene	<0.00219	U	0.00313	0.00219	mg/Kg		06/25/22 09:16	06/27/22 21:35	1
Indeno[1,2,3-cd]pyrene	<0.00236	U	0.00313	0.00236	mg/Kg		06/25/22 09:16	06/27/22 21:35	1
Naphthalene	<0.00225	U	0.0313	0.00225	mg/Kg		06/25/22 09:16	06/27/22 21:35	1
Phenanthrene	<0.00219	U	0.00313	0.00219	mg/Kg		06/25/22 09:16	06/27/22 21:35	1
Pyrene	<0.00222	U	0.00313	0.00222	mg/Kg		06/25/22 09:16	06/27/22 21:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	63		51 - 133	06/25/22 09:16	06/27/22 21:35	1
Nitrobenzene-d5 (Surr)	61		31 - 130	06/25/22 09:16	06/27/22 21:35	1
p-Terphenyl-d14 (Surr)	60		46 - 137	06/25/22 09:16	06/27/22 21:35	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/17/22 13:51	06/17/22 23:15	1
>C12-C28	24.0	J	50.0	21.1	mg/Kg		06/17/22 13:51	06/17/22 23:15	1
>C28-C35	24.4	J	50.0	21.1	mg/Kg		06/17/22 13:51	06/17/22 23:15	1
<b>Total Petroleum Hydrocarbons (C6-C35)</b>	<b>48.4</b>	<b>J</b>	50.0	21.1	mg/Kg			06/20/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130	06/17/22 13:51	06/17/22 23:15	1
o-Terphenyl (Surr)	109		70 - 130	06/17/22 13:51	06/17/22 23:15	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Client Sample ID: B-3

Lab Sample ID: 830-1995-9

Date Collected: 06/14/22 10:20

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 15

### Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.13	J	3.33	0.514	mg/Kg		06/22/22 17:41	06/25/22 02:17	10
Barium	22.7		3.33	0.289	mg/Kg		06/22/22 17:41	06/25/22 02:17	10
Cadmium	<0.0967	U	1.67	0.0967	mg/Kg		06/22/22 17:41	06/25/22 02:17	10
Chromium	2.20	J	3.33	0.226	mg/Kg		06/22/22 17:41	06/25/22 02:17	10
Lead	2.20		1.67	0.161	mg/Kg		06/22/22 17:41	06/25/22 02:17	10
Selenium	<0.413	U	1.67	0.413	mg/Kg		06/22/22 17:41	06/25/22 02:17	10
Silver	0.267	J B	1.67	0.132	mg/Kg		06/22/22 17:41	06/25/22 02:17	10

### Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00331	U	0.0172	0.00331	mg/Kg		06/21/22 07:20	06/21/22 14:01	1

## Client Sample ID: B-4

Lab Sample ID: 830-1995-10

Date Collected: 06/14/22 10:45

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 5

### Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000208	U	0.00100	0.000208	mg/Kg		06/17/22 09:40	06/17/22 16:11	1
Toluene	<0.00100	U	0.00502	0.00100	mg/Kg		06/17/22 09:40	06/17/22 16:11	1
Ethylbenzene	<0.000337	U	0.00100	0.000337	mg/Kg		06/17/22 09:40	06/17/22 16:11	1
m,p-Xylenes	<0.000803	U	0.00201	0.000803	mg/Kg		06/17/22 09:40	06/17/22 16:11	1
o-Xylene	<0.000989	U	0.00100	0.000989	mg/Kg		06/17/22 09:40	06/17/22 16:11	1
Xylenes, Total	<0.000989	U	0.00201	0.000989	mg/Kg		06/17/22 09:40	06/17/22 16:11	1
MTBE	<0.000410	U	0.00502	0.000410	mg/Kg		06/17/22 09:40	06/17/22 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		56 - 150	06/17/22 09:40	06/17/22 16:11	1
4-Bromofluorobenzene (Surr)	98		68 - 152	06/17/22 09:40	06/17/22 16:11	1
Dibromofluoromethane (Surr)	100		53 - 142	06/17/22 09:40	06/17/22 16:11	1
Toluene-d8 (Surr)	95		70 - 130	06/17/22 09:40	06/17/22 16:11	1

### Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.0	U	49.9	21.0	mg/Kg		06/17/22 13:51	06/17/22 23:35	1
>C12-C28	<21.0	U	49.9	21.0	mg/Kg		06/17/22 13:51	06/17/22 23:35	1
>C28-C35	<21.0	U	49.9	21.0	mg/Kg		06/17/22 13:51	06/17/22 23:35	1
Total Petroleum Hydrocarbons (C6-C35)	<21.0	U	49.9	21.0	mg/Kg			06/20/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	123		70 - 130	06/17/22 13:51	06/17/22 23:35	1
o-Terphenyl (Surr)	127		70 - 130	06/17/22 13:51	06/17/22 23:35	1

### Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.60	J	3.57	0.551	mg/Kg		06/22/22 17:41	06/25/22 02:20	10
Barium	98.8		3.57	0.310	mg/Kg		06/22/22 17:41	06/25/22 02:20	10
Cadmium	<0.104	U	1.79	0.104	mg/Kg		06/22/22 17:41	06/25/22 02:20	10

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-4**

**Lab Sample ID: 830-1995-10**

Date Collected: 06/14/22 10:45

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 5

**Method: 6020A - Metals (ICP/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	6.63		3.57	0.242	mg/Kg		06/22/22 17:41	06/25/22 02:20	10
Lead	4.46		1.79	0.173	mg/Kg		06/22/22 17:41	06/25/22 02:20	10
Selenium	<0.443	U	1.79	0.443	mg/Kg		06/22/22 17:41	06/25/22 02:20	10
Silver	0.295	J B	1.79	0.142	mg/Kg		06/22/22 17:41	06/25/22 02:20	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00384	U	0.0200	0.00384	mg/Kg		06/21/22 07:20	06/21/22 14:02	1

**Client Sample ID: B-4**

**Lab Sample ID: 830-1995-11**

Date Collected: 06/14/22 10:50

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.000991	U	0.00201	0.000991	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
cis-1,2-Dichloroethene	<0.000302	U	0.00503	0.000302	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
cis-1,3-Dichloropropene	<0.000231	U	0.00503	0.000231	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
Isopropylbenzene	<0.000175	U	0.00503	0.000175	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
m,p-Xylenes	<0.000805	U	0.00201	0.000805	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
n-Butylbenzene	<0.000275	U	0.00503	0.000275	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
N-Propylbenzene	<0.000288	U	0.00503	0.000288	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
o-Xylene	<0.000991	U	0.00101	0.000991	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
p-Cymene (p-Isopropyltoluene)	<0.000320	U	0.00503	0.000320	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
tert-Butylbenzene	<0.00129	U	0.00503	0.00129	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
trans-1,2-Dichloroethene	<0.000436	U	0.00503	0.000436	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
trans-1,3-Dichloropropene	<0.000915	U	0.00503	0.000915	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
Vinyl chloride	<0.000444	U	0.00503	0.000444	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
1,1,1,2-Tetrachloroethane	<0.000268	U	0.00503	0.000268	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
1,1,1-Trichloroethane	<0.000506	U	0.00503	0.000506	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
1,1,2,2-Tetrachloroethane	<0.000472	U	0.00503	0.000472	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
1,1,2-Trichloroethane	<0.000394	U	0.00503	0.000394	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
1,1-Dichloroethane	<0.000378	U	0.00503	0.000378	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
1,1-Dichloroethene	<0.000279	U	0.00503	0.000279	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
1,1-Dichloropropene	<0.000451	U	0.00503	0.000451	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
1,2,3-Trichlorobenzene	<0.00201	U	0.00503	0.00201	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
1,2,3-Trichloropropane	<0.000452	U	0.00503	0.000452	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
1,2,4-Trichlorobenzene	<0.00201	U	0.00503	0.00201	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
1,2,4-Trimethylbenzene	<0.000256	U	0.00503	0.000256	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
1,2-Dibromo-3-Chloropropane	<0.000708	U	0.00503	0.000708	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
1,2-Dibromoethane	<0.00105	U	0.00503	0.00105	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
1,2-Dichlorobenzene	<0.000289	U	0.00503	0.000289	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
1,2-Dichloroethane	<0.000306	U	0.00503	0.000306	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
1,2-Dichloropropane	<0.000200	U	0.00503	0.000200	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
1,3,5-Trimethylbenzene	<0.000291	U	0.00503	0.000291	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
1,3-Dichlorobenzene	<0.000274	U	0.00503	0.000274	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
1,3-Dichloropropane	<0.000411	U	0.00503	0.000411	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
1,4-Dichlorobenzene	<0.000216	U	0.00503	0.000216	mg/Kg		06/17/22 09:40	06/17/22 22:48	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-4**

**Lab Sample ID: 830-1995-11**

**Date Collected: 06/14/22 10:50**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

**Sample Depth: 10**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	<0.000527	U	0.00503	0.000527	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
2-Butanone	<0.00367	U	0.0201	0.00367	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
4-Chlorotoluene	<0.000265	U	0.00503	0.000265	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
Benzene	<0.000208	U	0.00101	0.000208	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
Bromobenzene	<0.000348	U	0.00503	0.000348	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
Bromochloromethane	<0.000529	U	0.00503	0.000529	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
Bromodichloromethane	<0.000253	U	0.00503	0.000253	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
Bromoform	<0.00104	U	0.00503	0.00104	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
Bromomethane	<0.000949	U	0.00503	0.000949	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
Carbon tetrachloride	<0.00165	U	0.00503	0.00165	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
Chlorobenzene	<0.000238	U	0.00503	0.000238	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
Chloroethane	<0.000447	U	0.0101	0.000447	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
Chloroform	<0.000174	U	0.00503	0.000174	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
Chloromethane	<0.000433	U	0.00503	0.000433	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
Dibromochloromethane	<0.000900	U	0.00503	0.000900	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
Dichlorodifluoromethane	<0.00112	U	0.00503	0.00112	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
Ethylbenzene	<0.000338	U	0.00101	0.000338	mg/Kg		06/20/22 11:27	06/20/22 18:22	1
Hexachlorobutadiene	<0.00201	U	0.00503	0.00201	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
MTBE	<0.000411	U	0.00503	0.000411	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
Methylene Chloride	<0.00424	U	0.0201	0.00424	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
Naphthalene	<0.00201	U	0.0101	0.00201	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
sec-Butylbenzene	<0.000262	U	0.00503	0.000262	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
Styrene	<0.000207	U	0.00503	0.000207	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
Tetrachloroethene	<0.000372	U	0.00503	0.000372	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
Toluene	<0.00101	U	0.00503	0.00101	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
Trichloroethene	<0.000497	U	0.00503	0.000497	mg/Kg		06/17/22 09:40	06/17/22 22:48	1
Trichlorofluoromethane	<0.000309	U	0.00503	0.000309	mg/Kg		06/17/22 09:40	06/17/22 22:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		56 - 150	06/17/22 09:40	06/17/22 22:48	1
1,2-Dichloroethane-d4 (Surr)	112		56 - 150	06/20/22 11:27	06/20/22 18:22	1
4-Bromofluorobenzene (Surr)	111		68 - 152	06/17/22 09:40	06/17/22 22:48	1
4-Bromofluorobenzene (Surr)	102		68 - 152	06/20/22 11:27	06/20/22 18:22	1
Dibromofluoromethane (Surr)	93		53 - 142	06/17/22 09:40	06/17/22 22:48	1
Dibromofluoromethane (Surr)	105		53 - 142	06/20/22 11:27	06/20/22 18:22	1
Toluene-d8 (Surr)	105		70 - 130	06/17/22 09:40	06/17/22 22:48	1
Toluene-d8 (Surr)	99		70 - 130	06/20/22 11:27	06/20/22 18:22	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/17/22 13:51	06/17/22 23:54	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/17/22 13:51	06/17/22 23:54	1
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/17/22 13:51	06/17/22 23:54	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.0	21.1	mg/Kg			06/20/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130	06/17/22 13:51	06/17/22 23:54	1
o-Terphenyl (Surr)	119		70 - 130	06/17/22 13:51	06/17/22 23:54	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Client Sample ID: B-4

## Lab Sample ID: 830-1995-11

Date Collected: 06/14/22 10:50

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 10

### Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.663	J	3.33	0.514	mg/Kg		06/22/22 17:41	06/25/22 02:23	10
Barium	16.6		3.33	0.289	mg/Kg		06/22/22 17:41	06/25/22 02:23	10
Cadmium	<0.0967	U	1.67	0.0967	mg/Kg		06/22/22 17:41	06/25/22 02:23	10
Chromium	1.83	J	3.33	0.226	mg/Kg		06/22/22 17:41	06/25/22 02:23	10
Lead	1.51	J	1.67	0.161	mg/Kg		06/22/22 17:41	06/25/22 02:23	10
Selenium	<0.413	U	1.67	0.413	mg/Kg		06/22/22 17:41	06/25/22 02:23	10
Silver	0.264	J B	1.67	0.132	mg/Kg		06/22/22 17:41	06/25/22 02:23	10

### Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00377	U F1 F2	0.0196	0.00377	mg/Kg		06/21/22 07:20	06/21/22 14:06	1

## Client Sample ID: B-4

## Lab Sample ID: 830-1995-12

Date Collected: 06/14/22 10:55

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 15

### Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000209	U	0.00101	0.000209	mg/Kg		06/17/22 09:40	06/17/22 16:32	1
Toluene	<0.00101	U	0.00505	0.00101	mg/Kg		06/17/22 09:40	06/17/22 16:32	1
Ethylbenzene	<0.000339	U	0.00101	0.000339	mg/Kg		06/17/22 09:40	06/17/22 16:32	1
m,p-Xylenes	<0.000808	U	0.00202	0.000808	mg/Kg		06/17/22 09:40	06/17/22 16:32	1
o-Xylene	<0.000995	U	0.00101	0.000995	mg/Kg		06/17/22 09:40	06/17/22 16:32	1
Xylenes, Total	<0.000995	U	0.00202	0.000995	mg/Kg		06/17/22 09:40	06/17/22 16:32	1
MTBE	<0.000413	U	0.00505	0.000413	mg/Kg		06/17/22 09:40	06/17/22 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		56 - 150	06/17/22 09:40	06/17/22 16:32	1
4-Bromofluorobenzene (Surr)	98		68 - 152	06/17/22 09:40	06/17/22 16:32	1
Dibromofluoromethane (Surr)	99		53 - 142	06/17/22 09:40	06/17/22 16:32	1
Toluene-d8 (Surr)	94		70 - 130	06/17/22 09:40	06/17/22 16:32	1

### Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	49.9	21.1	mg/Kg		06/17/22 13:51	06/18/22 00:14	1
>C12-C28	<21.1	U	49.9	21.1	mg/Kg		06/17/22 13:51	06/18/22 00:14	1
>C28-C35	<21.1	U	49.9	21.1	mg/Kg		06/17/22 13:51	06/18/22 00:14	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	49.9	21.1	mg/Kg			06/20/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	122		70 - 130	06/17/22 13:51	06/18/22 00:14	1
o-Terphenyl (Surr)	130		70 - 130	06/17/22 13:51	06/18/22 00:14	1

### Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.30	J	3.57	0.551	mg/Kg		06/22/22 17:41	06/25/22 02:26	10
Barium	79.1		3.57	0.310	mg/Kg		06/22/22 17:41	06/25/22 02:26	10
Cadmium	<0.104	U	1.79	0.104	mg/Kg		06/22/22 17:41	06/25/22 02:26	10

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Client Sample ID: B-4

## Lab Sample ID: 830-1995-12

Date Collected: 06/14/22 10:55

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 15

### Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chromium</b>	<b>3.74</b>		3.57	0.242	mg/Kg		06/22/22 17:41	06/25/22 02:26	10
<b>Lead</b>	<b>3.03</b>		1.79	0.173	mg/Kg		06/22/22 17:41	06/25/22 02:26	10
Selenium	<0.443	U	1.79	0.443	mg/Kg		06/22/22 17:41	06/25/22 02:26	10
<b>Silver</b>	<b>0.286</b>	<b>J B</b>	1.79	0.142	mg/Kg		06/22/22 17:41	06/25/22 02:26	10

### Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00356	U	0.0185	0.00356	mg/Kg		06/21/22 07:20	06/21/22 14:13	1

## Client Sample ID: B-5

## Lab Sample ID: 830-1995-13

Date Collected: 06/14/22 11:20

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 5

### Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000206	U	0.000996	0.000206	mg/Kg		06/17/22 09:40	06/17/22 16:52	1
Toluene	<0.000996	U	0.00498	0.000996	mg/Kg		06/17/22 09:40	06/17/22 16:52	1
Ethylbenzene	<0.000334	U	0.000996	0.000334	mg/Kg		06/17/22 09:40	06/17/22 16:52	1
m,p-Xylenes	<0.000797	U	0.00199	0.000797	mg/Kg		06/17/22 09:40	06/17/22 16:52	1
o-Xylene	<0.000981	U	0.000996	0.000981	mg/Kg		06/17/22 09:40	06/17/22 16:52	1
Xylenes, Total	<0.000981	U	0.00199	0.000981	mg/Kg		06/17/22 09:40	06/17/22 16:52	1
MTBE	<0.000407	U	0.00498	0.000407	mg/Kg		06/17/22 09:40	06/17/22 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		56 - 150	06/17/22 09:40	06/17/22 16:52	1
4-Bromofluorobenzene (Surr)	100		68 - 152	06/17/22 09:40	06/17/22 16:52	1
Dibromofluoromethane (Surr)	98		53 - 142	06/17/22 09:40	06/17/22 16:52	1
Toluene-d8 (Surr)	95		70 - 130	06/17/22 09:40	06/17/22 16:52	1

### Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.1	21.1	mg/Kg		06/17/22 13:51	06/18/22 00:33	1
>C12-C28	<21.1	U	50.1	21.1	mg/Kg		06/17/22 13:51	06/18/22 00:33	1
>C28-C35	<21.1	U	50.1	21.1	mg/Kg		06/17/22 13:51	06/18/22 00:33	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.1	21.1	mg/Kg			06/20/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	119		70 - 130	06/17/22 13:51	06/18/22 00:33	1
o-Terphenyl (Surr)	124		70 - 130	06/17/22 13:51	06/18/22 00:33	1

### Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>1.29</b>	<b>J</b>	3.70	0.571	mg/Kg		06/22/22 17:41	06/25/22 02:30	10
<b>Barium</b>	<b>32.8</b>		3.70	0.321	mg/Kg		06/22/22 17:41	06/25/22 02:30	10
Cadmium	<0.107	U	1.85	0.107	mg/Kg		06/22/22 17:41	06/25/22 02:30	10
<b>Chromium</b>	<b>12.3</b>		3.70	0.251	mg/Kg		06/22/22 17:41	06/25/22 02:30	10
<b>Lead</b>	<b>4.32</b>		1.85	0.179	mg/Kg		06/22/22 17:41	06/25/22 02:30	10
Selenium	<0.459	U	1.85	0.459	mg/Kg		06/22/22 17:41	06/25/22 02:30	10

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-5**

**Lab Sample ID: 830-1995-13**

**Date Collected: 06/14/22 11:20**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

**Sample Depth: 5**

**Method: 6020A - Metals (ICP/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.296	J B	1.85	0.147	mg/Kg		06/22/22 17:41	06/25/22 02:30	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00337	U	0.0175	0.00337	mg/Kg		06/21/22 07:20	06/21/22 14:14	1

**Client Sample ID: B-5**

**Lab Sample ID: 830-1995-14**

**Date Collected: 06/14/22 11:25**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

**Sample Depth: 10**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.000995	U	0.00202	0.000995	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
cis-1,2-Dichloroethene	<0.000304	U	0.00505	0.000304	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
cis-1,3-Dichloropropene	<0.000232	U	0.00505	0.000232	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
Isopropylbenzene	<0.000176	U	0.00505	0.000176	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
m,p-Xylenes	<0.000808	U	0.00202	0.000808	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
n-Butylbenzene	<0.000277	U	0.00505	0.000277	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
N-Propylbenzene	<0.000289	U	0.00505	0.000289	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
o-Xylene	<0.000995	U	0.00101	0.000995	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
p-Cymene (p-Isopropyltoluene)	<0.000322	U	0.00505	0.000322	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
tert-Butylbenzene	<0.00130	U	0.00505	0.00130	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
trans-1,2-Dichloroethene	<0.000438	U	0.00505	0.000438	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
trans-1,3-Dichloropropene	<0.000919	U	0.00505	0.000919	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
Vinyl chloride	<0.000446	U	0.00505	0.000446	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
1,1,1,2-Tetrachloroethane	<0.000270	U	0.00505	0.000270	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
1,1,1-Trichloroethane	<0.000508	U	0.00505	0.000508	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
1,1,2,2-Tetrachloroethane	<0.000474	U	0.00505	0.000474	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
1,1,2-Trichloroethane	<0.000396	U	0.00505	0.000396	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
1,1-Dichloroethane	<0.000380	U	0.00505	0.000380	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
1,1-Dichloroethene	<0.000280	U	0.00505	0.000280	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
1,1-Dichloropropene	<0.000453	U	0.00505	0.000453	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
1,2,3-Trichlorobenzene	<0.00202	U	0.00505	0.00202	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
1,2,3-Trichloropropane	<0.000454	U	0.00505	0.000454	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
1,2,4-Trichlorobenzene	<0.00202	U	0.00505	0.00202	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
1,2,4-Trimethylbenzene	<0.000258	U	0.00505	0.000258	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
1,2-Dibromo-3-Chloropropane	<0.000711	U	0.00505	0.000711	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
1,2-Dibromoethane	<0.00105	U	0.00505	0.00105	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
1,2-Dichlorobenzene	<0.000290	U	0.00505	0.000290	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
1,2-Dichloroethane	<0.000307	U	0.00505	0.000307	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
1,2-Dichloropropane	<0.000200	U	0.00505	0.000200	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
1,3,5-Trimethylbenzene	<0.000292	U	0.00505	0.000292	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
1,3-Dichlorobenzene	<0.000275	U	0.00505	0.000275	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
1,3-Dichloropropane	<0.000413	U	0.00505	0.000413	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
1,4-Dichlorobenzene	<0.000217	U	0.00505	0.000217	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
2,2-Dichloropropane	<0.000530	U	0.00505	0.000530	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
2-Butanone	<0.00368	U	0.0202	0.00368	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
4-Chlorotoluene	<0.000266	U	0.00505	0.000266	mg/Kg		06/17/22 09:40	06/20/22 21:45	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-5**

**Lab Sample ID: 830-1995-14**

**Date Collected: 06/14/22 11:25**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

**Sample Depth: 10**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000209	U	0.00101	0.000209	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
Bromobenzene	<0.000350	U	0.00505	0.000350	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
Bromochloromethane	<0.000531	U	0.00505	0.000531	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
Bromodichloromethane	<0.000254	U	0.00505	0.000254	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
Bromoform	<0.00104	U	0.00505	0.00104	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
Bromomethane	<0.000953	U	0.00505	0.000953	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
Carbon tetrachloride	<0.00166	U	0.00505	0.00166	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
Chlorobenzene	<0.000239	U	0.00505	0.000239	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
Chloroethane	<0.000448	U *	0.0101	0.000448	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
Chloroform	<0.000175	U	0.00505	0.000175	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
Chloromethane	<0.000435	U	0.00505	0.000435	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
Dibromochloromethane	<0.000904	U	0.00505	0.000904	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
Dichlorodifluoromethane	<0.00113	U	0.00505	0.00113	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
Ethylbenzene	<0.000339	U	0.00101	0.000339	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
Hexachlorobutadiene	<0.00202	U	0.00505	0.00202	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
MTBE	<0.000413	U	0.00505	0.000413	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
Methylene Chloride	<0.00426	U	0.0202	0.00426	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
Naphthalene	<0.00202	U	0.0101	0.00202	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
sec-Butylbenzene	<0.000263	U	0.00505	0.000263	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
Styrene	<0.000208	U	0.00505	0.000208	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
Tetrachloroethene	<0.000373	U	0.00505	0.000373	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
Toluene	<0.00101	U	0.00505	0.00101	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
Trichloroethene	<0.000499	U	0.00505	0.000499	mg/Kg		06/17/22 09:40	06/20/22 21:45	1
Trichlorofluoromethane	<0.000311	U	0.00505	0.000311	mg/Kg		06/17/22 09:40	06/20/22 21:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		56 - 150	06/17/22 09:40	06/20/22 21:45	1
4-Bromofluorobenzene (Surr)	100		68 - 152	06/17/22 09:40	06/20/22 21:45	1
Dibromofluoromethane (Surr)	107		53 - 142	06/17/22 09:40	06/20/22 21:45	1
Toluene-d8 (Surr)	100		70 - 130	06/17/22 09:40	06/20/22 21:45	1

## Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.0	U	49.9	21.0	mg/Kg		06/17/22 13:51	06/18/22 00:53	1
>C12-C28	<21.0	U	49.9	21.0	mg/Kg		06/17/22 13:51	06/18/22 00:53	1
>C28-C35	<21.0	U	49.9	21.0	mg/Kg		06/17/22 13:51	06/18/22 00:53	1
Total Petroleum Hydrocarbons (C6-C35)	<21.0	U	49.9	21.0	mg/Kg			06/20/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130	06/17/22 13:51	06/18/22 00:53	1
o-Terphenyl (Surr)	108		70 - 130	06/17/22 13:51	06/18/22 00:53	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.866	J	3.70	0.571	mg/Kg		06/22/22 17:41	06/25/22 02:33	10
Barium	27.2		3.70	0.321	mg/Kg		06/22/22 17:41	06/25/22 02:33	10
Cadmium	<0.107	U	1.85	0.107	mg/Kg		06/22/22 17:41	06/25/22 02:33	10
Chromium	3.36	J	3.70	0.251	mg/Kg		06/22/22 17:41	06/25/22 02:33	10
Lead	2.60		1.85	0.179	mg/Kg		06/22/22 17:41	06/25/22 02:33	10

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Client Sample ID: B-5

## Lab Sample ID: 830-1995-14

Date Collected: 06/14/22 11:25

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 10

### Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.459	U	1.85	0.459	mg/Kg		06/22/22 17:41	06/25/22 02:33	10
<b>Silver</b>	<b>0.299</b>	<b>J B</b>	1.85	0.147	mg/Kg		06/22/22 17:41	06/25/22 02:33	10

### Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00337	U	0.0175	0.00337	mg/Kg		06/21/22 07:20	06/21/22 14:16	1

## Client Sample ID: B-5

## Lab Sample ID: 830-1995-15

Date Collected: 06/14/22 11:30

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 15

### Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000209	U	0.00101	0.000209	mg/Kg		06/17/22 09:40	06/17/22 17:13	1
Toluene	<0.00101	U	0.00504	0.00101	mg/Kg		06/17/22 09:40	06/17/22 17:13	1
Ethylbenzene	<0.000338	U	0.00101	0.000338	mg/Kg		06/17/22 09:40	06/17/22 17:13	1
m,p-Xylenes	<0.000806	U	0.00202	0.000806	mg/Kg		06/17/22 09:40	06/17/22 17:13	1
o-Xylene	<0.000993	U	0.00101	0.000993	mg/Kg		06/17/22 09:40	06/17/22 17:13	1
Xylenes, Total	<0.000993	U	0.00202	0.000993	mg/Kg		06/17/22 09:40	06/17/22 17:13	1
MTBE	<0.000412	U	0.00504	0.000412	mg/Kg		06/17/22 09:40	06/17/22 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		56 - 150	06/17/22 09:40	06/17/22 17:13	1
4-Bromofluorobenzene (Surr)	99		68 - 152	06/17/22 09:40	06/17/22 17:13	1
Dibromofluoromethane (Surr)	102		53 - 142	06/17/22 09:40	06/17/22 17:13	1
Toluene-d8 (Surr)	96		70 - 130	06/17/22 09:40	06/17/22 17:13	1

### Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.0	U	49.8	21.0	mg/Kg		06/17/22 13:51	06/18/22 01:12	1
>C12-C28	<21.0	U	49.8	21.0	mg/Kg		06/17/22 13:51	06/18/22 01:12	1
>C28-C35	<21.0	U	49.8	21.0	mg/Kg		06/17/22 13:51	06/18/22 01:12	1
Total Petroleum Hydrocarbons (C6-C35)	<21.0	U	49.8	21.0	mg/Kg			06/20/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130	06/17/22 13:51	06/18/22 01:12	1
o-Terphenyl (Surr)	100		70 - 130	06/17/22 13:51	06/18/22 01:12	1

### Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.571	U	3.70	0.571	mg/Kg		06/22/22 17:41	06/25/22 02:36	10
<b>Barium</b>	<b>21.8</b>		3.70	0.321	mg/Kg		06/22/22 17:41	06/25/22 02:36	10
Cadmium	<0.107	U	1.85	0.107	mg/Kg		06/22/22 17:41	06/25/22 02:36	10
<b>Chromium</b>	<b>2.01</b>	<b>J</b>	3.70	0.251	mg/Kg		06/22/22 17:41	06/25/22 02:36	10
<b>Lead</b>	<b>1.51</b>	<b>J</b>	1.85	0.179	mg/Kg		06/22/22 17:41	06/25/22 02:36	10
Selenium	<0.459	U	1.85	0.459	mg/Kg		06/22/22 17:41	06/25/22 02:36	10
<b>Silver</b>	<b>0.294</b>	<b>J B</b>	1.85	0.147	mg/Kg		06/22/22 17:41	06/25/22 02:36	10

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Client Sample ID: B-5

## Lab Sample ID: 830-1995-15

Date Collected: 06/14/22 11:30

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 15

### Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00343	U	0.0179	0.00343	mg/Kg		06/21/22 07:20	06/21/22 14:17	1

## Client Sample ID: B-6

## Lab Sample ID: 830-1995-16

Date Collected: 06/14/22 13:30

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 5

### Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000206	U	0.000994	0.000206	mg/Kg		06/17/22 09:40	06/17/22 17:33	1
Toluene	<0.000994	U	0.00497	0.000994	mg/Kg		06/17/22 09:40	06/17/22 17:33	1
Ethylbenzene	<0.000334	U	0.000994	0.000334	mg/Kg		06/17/22 09:40	06/17/22 17:33	1
m,p-Xylenes	<0.000795	U	0.00199	0.000795	mg/Kg		06/17/22 09:40	06/17/22 17:33	1
o-Xylene	<0.000979	U	0.000994	0.000979	mg/Kg		06/17/22 09:40	06/17/22 17:33	1
Xylenes, Total	<0.000979	U	0.00199	0.000979	mg/Kg		06/17/22 09:40	06/17/22 17:33	1
MTBE	<0.000406	U	0.00497	0.000406	mg/Kg		06/17/22 09:40	06/17/22 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		56 - 150	06/17/22 09:40	06/17/22 17:33	1
4-Bromofluorobenzene (Surr)	98		68 - 152	06/17/22 09:40	06/17/22 17:33	1
Dibromofluoromethane (Surr)	101		53 - 142	06/17/22 09:40	06/17/22 17:33	1
Toluene-d8 (Surr)	95		70 - 130	06/17/22 09:40	06/17/22 17:33	1

### Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/17/22 13:51	06/18/22 02:11	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/17/22 13:51	06/18/22 02:11	1
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/17/22 13:51	06/18/22 02:11	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.0	21.1	mg/Kg			06/20/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130	06/17/22 13:51	06/18/22 02:11	1
o-Terphenyl (Surr)	114		70 - 130	06/17/22 13:51	06/18/22 02:11	1

### Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.836	J	3.92	0.605	mg/Kg		06/22/22 17:41	06/25/22 02:39	10
Barium	27.3		3.92	0.340	mg/Kg		06/22/22 17:41	06/25/22 02:39	10
Cadmium	<0.114	U	1.96	0.114	mg/Kg		06/22/22 17:41	06/25/22 02:39	10
Chromium	2.02	J	3.92	0.266	mg/Kg		06/22/22 17:41	06/25/22 02:39	10
Lead	1.91	J	1.96	0.190	mg/Kg		06/22/22 17:41	06/25/22 02:39	10
Selenium	<0.486	U	1.96	0.486	mg/Kg		06/22/22 17:41	06/25/22 02:39	10
Silver	0.311	J B	1.96	0.156	mg/Kg		06/22/22 17:41	06/25/22 02:39	10

### Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00377	U	0.0196	0.00377	mg/Kg		06/21/22 07:20	06/21/22 14:21	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-6**

**Lab Sample ID: 830-1995-17**

**Date Collected: 06/14/22 13:35**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

**Sample Depth: 10**

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.000981	U	0.00199	0.000981	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
cis-1,2-Dichloroethene	<0.000299	U	0.00498	0.000299	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
cis-1,3-Dichloropropene	<0.000229	U	0.00498	0.000229	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
Isopropylbenzene	<0.000173	U	0.00498	0.000173	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
m,p-Xylenes	<0.000797	U	0.00199	0.000797	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
n-Butylbenzene	<0.000273	U	0.00498	0.000273	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
N-Propylbenzene	<0.000285	U	0.00498	0.000285	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
o-Xylene	<0.000981	U	0.000996	0.000981	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
p-Cymene (p-Isopropyltoluene)	<0.000317	U	0.00498	0.000317	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
tert-Butylbenzene	<0.00128	U	0.00498	0.00128	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
trans-1,2-Dichloroethene	<0.000432	U	0.00498	0.000432	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
trans-1,3-Dichloropropene	<0.000906	U	0.00498	0.000906	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
Vinyl chloride	<0.000440	U	0.00498	0.000440	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
1,1,1,2-Tetrachloroethane	<0.000266	U	0.00498	0.000266	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
1,1,1-Trichloroethane	<0.000501	U	0.00498	0.000501	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
1,1,2,2-Tetrachloroethane	<0.000468	U	0.00498	0.000468	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
1,1,2-Trichloroethane	<0.000391	U	0.00498	0.000391	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
1,1-Dichloroethane	<0.000375	U	0.00498	0.000375	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
1,1-Dichloroethene	<0.000276	U	0.00498	0.000276	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
1,1-Dichloropropene	<0.000447	U	0.00498	0.000447	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
1,2,3-Trichlorobenzene	<0.00199	U	0.00498	0.00199	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
1,2,3-Trichloropropane	<0.000448	U	0.00498	0.000448	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
1,2,4-Trichlorobenzene	<0.00199	U	0.00498	0.00199	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
1,2,4-Trimethylbenzene	<0.000254	U	0.00498	0.000254	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
1,2-Dibromo-3-Chloropropane	<0.000701	U	0.00498	0.000701	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
1,2-Dibromoethane	<0.00104	U	0.00498	0.00104	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
1,2-Dichlorobenzene	<0.000286	U	0.00498	0.000286	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
1,2-Dichloroethane	<0.000303	U	0.00498	0.000303	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
1,2-Dichloropropane	<0.000198	U	0.00498	0.000198	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
1,3,5-Trimethylbenzene	<0.000288	U	0.00498	0.000288	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
1,3-Dichlorobenzene	<0.000271	U	0.00498	0.000271	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
1,3-Dichloropropane	<0.000407	U	0.00498	0.000407	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
1,4-Dichlorobenzene	<0.000214	U	0.00498	0.000214	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
2,2-Dichloropropane	<0.000522	U	0.00498	0.000522	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
2-Butanone	<0.00363	U	0.0199	0.00363	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
4-Chlorotoluene	<0.000263	U	0.00498	0.000263	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
Benzene	<0.000206	U	0.000996	0.000206	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
Bromobenzene	<0.000345	U	0.00498	0.000345	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
Bromochloromethane	<0.000524	U	0.00498	0.000524	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
Bromodichloromethane	<0.000250	U	0.00498	0.000250	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
Bromoform	<0.00103	U	0.00498	0.00103	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
Bromomethane	<0.000939	U	0.00498	0.000939	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
Carbon tetrachloride	<0.00164	U	0.00498	0.00164	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
Chlorobenzene	<0.000236	U	0.00498	0.000236	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
Chloroethane	<0.000442	U **	0.00996	0.000442	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
Chloroform	<0.000172	U	0.00498	0.000172	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
Chloromethane	<0.000429	U	0.00498	0.000429	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
Dibromochloromethane	<0.000891	U	0.00498	0.000891	mg/Kg		06/17/22 09:40	06/20/22 22:07	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-6**

**Lab Sample ID: 830-1995-17**

Date Collected: 06/14/22 13:35

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 10

### Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<0.00111	U	0.00498	0.00111	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
Ethylbenzene	<0.000334	U	0.000996	0.000334	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
Hexachlorobutadiene	<0.00199	U	0.00498	0.00199	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
MTBE	<0.000407	U	0.00498	0.000407	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
Methylene Chloride	<0.00420	U	0.0199	0.00420	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
Naphthalene	<0.00199	U	0.00996	0.00199	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
sec-Butylbenzene	<0.000260	U	0.00498	0.000260	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
Styrene	<0.000205	U	0.00498	0.000205	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
Tetrachloroethene	<0.000368	U	0.00498	0.000368	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
Toluene	<0.000996	U	0.00498	0.000996	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
Trichloroethene	<0.000492	U	0.00498	0.000492	mg/Kg		06/17/22 09:40	06/20/22 22:07	1
Trichlorofluoromethane	<0.000306	U	0.00498	0.000306	mg/Kg		06/17/22 09:40	06/20/22 22:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		56 - 150	06/17/22 09:40	06/20/22 22:07	1
4-Bromofluorobenzene (Surr)	98		68 - 152	06/17/22 09:40	06/20/22 22:07	1
Dibromofluoromethane (Surr)	107		53 - 142	06/17/22 09:40	06/20/22 22:07	1
Toluene-d8 (Surr)	99		70 - 130	06/17/22 09:40	06/20/22 22:07	1

### Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/17/22 13:51	06/18/22 02:30	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/17/22 13:51	06/18/22 02:30	1
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/17/22 13:51	06/18/22 02:30	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.0	21.1	mg/Kg			06/20/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130	06/17/22 13:51	06/18/22 02:30	1
o-Terphenyl (Surr)	105		70 - 130	06/17/22 13:51	06/18/22 02:30	1

### Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.876</b>	<b>J</b>	3.57	0.551	mg/Kg		06/22/22 19:32	06/25/22 03:01	10
<b>Barium</b>	<b>23.4</b>	<b>F1</b>	3.57	0.310	mg/Kg		06/22/22 19:32	06/25/22 03:01	10
Cadmium	<0.104	U	1.79	0.104	mg/Kg		06/22/22 19:32	06/25/22 03:01	10
<b>Chromium</b>	<b>3.33</b>	<b>J</b>	3.57	0.242	mg/Kg		06/22/22 19:32	06/25/22 03:01	10
<b>Lead</b>	<b>1.86</b>		1.79	0.173	mg/Kg		06/22/22 19:32	06/25/22 03:01	10
Selenium	<0.443	U	1.79	0.443	mg/Kg		06/22/22 19:32	06/25/22 03:01	10
<b>Silver</b>	<b>0.291</b>	<b>J B</b>	1.79	0.142	mg/Kg		06/22/22 19:32	06/25/22 03:01	10

### Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00370	U	0.0192	0.00370	mg/Kg		06/21/22 07:20	06/21/22 14:23	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-6**

**Lab Sample ID: 830-1995-18**

Date Collected: 06/14/22 13:40

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 15

### Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000207	U	0.00100	0.000207	mg/Kg		06/17/22 09:40	06/17/22 17:54	1
Toluene	<0.00100	U	0.00501	0.00100	mg/Kg		06/17/22 09:40	06/17/22 17:54	1
Ethylbenzene	<0.000336	U	0.00100	0.000336	mg/Kg		06/17/22 09:40	06/17/22 17:54	1
m,p-Xylenes	<0.000802	U	0.00200	0.000802	mg/Kg		06/17/22 09:40	06/17/22 17:54	1
o-Xylene	<0.000987	U	0.00100	0.000987	mg/Kg		06/17/22 09:40	06/17/22 17:54	1
Xylenes, Total	<0.000987	U	0.00200	0.000987	mg/Kg		06/17/22 09:40	06/17/22 17:54	1
MTBE	<0.000409	U	0.00501	0.000409	mg/Kg		06/17/22 09:40	06/17/22 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		56 - 150	06/17/22 09:40	06/17/22 17:54	1
4-Bromofluorobenzene (Surr)	101		68 - 152	06/17/22 09:40	06/17/22 17:54	1
Dibromofluoromethane (Surr)	100		53 - 142	06/17/22 09:40	06/17/22 17:54	1
Toluene-d8 (Surr)	96		70 - 130	06/17/22 09:40	06/17/22 17:54	1

### Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.0	U	49.9	21.0	mg/Kg		06/17/22 13:51	06/18/22 02:49	1
>C12-C28	<21.0	U	49.9	21.0	mg/Kg		06/17/22 13:51	06/18/22 02:49	1
>C28-C35	<21.0	U	49.9	21.0	mg/Kg		06/17/22 13:51	06/18/22 02:49	1
Total Petroleum Hydrocarbons (C6-C35)	<21.0	U	49.9	21.0	mg/Kg			06/20/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	118		70 - 130	06/17/22 13:51	06/18/22 02:49	1
o-Terphenyl (Surr)	115		70 - 130	06/17/22 13:51	06/18/22 02:49	1

### Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.988	J	3.45	0.532	mg/Kg		06/22/22 19:32	06/25/22 03:24	10
Barium	24.3		3.45	0.299	mg/Kg		06/22/22 19:32	06/25/22 03:24	10
Cadmium	<0.100	U	1.72	0.100	mg/Kg		06/22/22 19:32	06/25/22 03:24	10
Chromium	3.30	J	3.45	0.234	mg/Kg		06/22/22 19:32	06/25/22 03:24	10
Lead	2.13		1.72	0.167	mg/Kg		06/22/22 19:32	06/25/22 03:24	10
Selenium	<0.428	U	1.72	0.428	mg/Kg		06/22/22 19:32	06/25/22 03:24	10
Silver	0.276	J B	1.72	0.137	mg/Kg		06/22/22 19:32	06/25/22 03:24	10

### Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00356	U	0.0185	0.00356	mg/Kg		06/21/22 07:20	06/21/22 14:24	1

**Client Sample ID: B-7**

**Lab Sample ID: 830-1995-19**

Date Collected: 06/14/22 14:00

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 5

### Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000207	U	0.000998	0.000207	mg/Kg		06/17/22 09:40	06/17/22 18:14	1
Toluene	<0.000998	U	0.00499	0.000998	mg/Kg		06/17/22 09:40	06/17/22 18:14	1
Ethylbenzene	<0.000335	U	0.000998	0.000335	mg/Kg		06/17/22 09:40	06/17/22 18:14	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-7**

**Lab Sample ID: 830-1995-19**

Date Collected: 06/14/22 14:00

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 5

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	<0.000798	U	0.00200	0.000798	mg/Kg		06/17/22 09:40	06/17/22 18:14	1
o-Xylene	<0.000983	U	0.000998	0.000983	mg/Kg		06/17/22 09:40	06/17/22 18:14	1
Xylenes, Total	<0.000983	U	0.00200	0.000983	mg/Kg		06/17/22 09:40	06/17/22 18:14	1
MTBE	<0.000408	U	0.00499	0.000408	mg/Kg		06/17/22 09:40	06/17/22 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		56 - 150	06/17/22 09:40	06/17/22 18:14	1
4-Bromofluorobenzene (Surr)	98		68 - 152	06/17/22 09:40	06/17/22 18:14	1
Dibromofluoromethane (Surr)	102		53 - 142	06/17/22 09:40	06/17/22 18:14	1
Toluene-d8 (Surr)	95		70 - 130	06/17/22 09:40	06/17/22 18:14	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.0	U	49.9	21.0	mg/Kg		06/17/22 13:51	06/18/22 03:09	1
>C12-C28	<21.0	U	49.9	21.0	mg/Kg		06/17/22 13:51	06/18/22 03:09	1
>C28-C35	<21.0	U	49.9	21.0	mg/Kg		06/17/22 13:51	06/18/22 03:09	1
Total Petroleum Hydrocarbons (C6-C35)	<21.0	U	49.9	21.0	mg/Kg			06/20/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130	06/17/22 13:51	06/18/22 03:09	1
o-Terphenyl (Surr)	108		70 - 130	06/17/22 13:51	06/18/22 03:09	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>1.17</b>	<b>J</b>	3.77	0.582	mg/Kg		06/22/22 19:32	06/25/22 03:27	10
<b>Barium</b>	<b>32.8</b>		3.77	0.327	mg/Kg		06/22/22 19:32	06/25/22 03:27	10
Cadmium	<0.109	U	1.89	0.109	mg/Kg		06/22/22 19:32	06/25/22 03:27	10
<b>Chromium</b>	<b>5.49</b>		3.77	0.256	mg/Kg		06/22/22 19:32	06/25/22 03:27	10
<b>Lead</b>	<b>2.72</b>		1.89	0.183	mg/Kg		06/22/22 19:32	06/25/22 03:27	10
Selenium	<0.468	U	1.89	0.468	mg/Kg		06/22/22 19:32	06/25/22 03:27	10
<b>Silver</b>	<b>0.302</b>	<b>J B</b>	1.89	0.150	mg/Kg		06/22/22 19:32	06/25/22 03:27	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00370	U	0.0192	0.00370	mg/Kg		06/21/22 07:20	06/21/22 14:25	1

**Client Sample ID: B-7**

**Lab Sample ID: 830-1995-20**

Date Collected: 06/14/22 14:05

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.000983	U	0.00200	0.000983	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
cis-1,2-Dichloroethene	<0.000300	U	0.00499	0.000300	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
cis-1,3-Dichloropropene	<0.000229	U	0.00499	0.000229	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Isopropylbenzene	<0.000174	U	0.00499	0.000174	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
m,p-Xylenes	<0.000798	U	0.00200	0.000798	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
n-Butylbenzene	<0.000273	U	0.00499	0.000273	mg/Kg		06/21/22 12:22	06/21/22 16:34	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-7**

**Lab Sample ID: 830-1995-20**

**Date Collected: 06/14/22 14:05**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

**Sample Depth: 10**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<0.000285	U	0.00499	0.000285	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
o-Xylene	<0.000983	U	0.000998	0.000983	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
p-Cymene (p-Isopropyltoluene)	<0.000318	U	0.00499	0.000318	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
tert-Butylbenzene	<0.00128	U	0.00499	0.00128	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
trans-1,2-Dichloroethene	<0.000433	U	0.00499	0.000433	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
trans-1,3-Dichloropropene	<0.000908	U	0.00499	0.000908	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Vinyl chloride	<0.000440	U	0.00499	0.000440	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
1,1,1,2-Tetrachloroethane	<0.000266	U	0.00499	0.000266	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
1,1,1-Trichloroethane	<0.000502	U	0.00499	0.000502	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
1,1,2,2-Tetrachloroethane	<0.000469	U	0.00499	0.000469	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
1,1,2-Trichloroethane	<0.000391	U	0.00499	0.000391	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
1,1-Dichloroethane	<0.000375	U	0.00499	0.000375	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
1,1-Dichloroethene	<0.000277	U	0.00499	0.000277	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
1,1-Dichloropropene	<0.000448	U	0.00499	0.000448	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00499	0.00200	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
1,2,3-Trichloropropane	<0.000449	U	0.00499	0.000449	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00499	0.00200	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
1,2,4-Trimethylbenzene	<0.000254	U	0.00499	0.000254	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
1,2-Dibromo-3-Chloropropane	<0.000703	U	0.00499	0.000703	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
1,2-Dibromoethane	<0.00104	U	0.00499	0.00104	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
1,2-Dichlorobenzene	<0.000287	U	0.00499	0.000287	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
1,2-Dichloroethane	<0.000303	U	0.00499	0.000303	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
1,2-Dichloropropane	<0.000198	U	0.00499	0.000198	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
1,3,5-Trimethylbenzene	<0.000288	U	0.00499	0.000288	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
1,3-Dichlorobenzene	<0.000272	U	0.00499	0.000272	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
1,3-Dichloropropane	<0.000408	U	0.00499	0.000408	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
1,4-Dichlorobenzene	<0.000214	U	0.00499	0.000214	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
2,2-Dichloropropane	<0.000523	U	0.00499	0.000523	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
2-Butanone	<0.00364	U	0.0200	0.00364	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
4-Chlorotoluene	<0.000263	U	0.00499	0.000263	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Benzene	<0.000207	U	0.000998	0.000207	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Bromobenzene	<0.000346	U	0.00499	0.000346	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Bromochloromethane	<0.000525	U	0.00499	0.000525	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Bromodichloromethane	<0.000251	U	0.00499	0.000251	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Bromoform	<0.00103	U	0.00499	0.00103	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Bromomethane	<0.000941	U **	0.00499	0.000941	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Carbon tetrachloride	<0.00164	U	0.00499	0.00164	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Chlorobenzene	<0.000236	U	0.00499	0.000236	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Chloroethane	<0.000443	U **	0.00998	0.000443	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Chloroform	<0.000172	U	0.00499	0.000172	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Chloromethane	<0.000430	U	0.00499	0.000430	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Dibromochloromethane	<0.000893	U	0.00499	0.000893	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Dichlorodifluoromethane	<0.00111	U	0.00499	0.00111	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Ethylbenzene	<0.000335	U	0.000998	0.000335	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Hexachlorobutadiene	<0.00200	U **	0.00499	0.00200	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
MTBE	<0.000408	U	0.00499	0.000408	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Methylene Chloride	<0.00421	U	0.0200	0.00421	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Naphthalene	<0.00200	U	0.00998	0.00200	mg/Kg		06/21/22 12:22	06/21/22 16:34	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-7**

**Lab Sample ID: 830-1995-20**

Date Collected: 06/14/22 14:05

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.000260	U	0.00499	0.000260	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Styrene	<0.000205	U	0.00499	0.000205	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Tetrachloroethene	<0.000369	U	0.00499	0.000369	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Toluene	<0.000998	U	0.00499	0.000998	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Trichloroethene	<0.000493	U	0.00499	0.000493	mg/Kg		06/21/22 12:22	06/21/22 16:34	1
Trichlorofluoromethane	<0.000307	U	0.00499	0.000307	mg/Kg		06/21/22 12:22	06/21/22 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		56 - 150	06/21/22 12:22	06/21/22 16:34	1
4-Bromofluorobenzene (Surr)	103		68 - 152	06/21/22 12:22	06/21/22 16:34	1
Dibromofluoromethane (Surr)	114		53 - 142	06/21/22 12:22	06/21/22 16:34	1
Toluene-d8 (Surr)	98		70 - 130	06/21/22 12:22	06/21/22 16:34	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/17/22 20:56	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/17/22 20:56	1
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/17/22 20:56	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.0	21.1	mg/Kg			06/20/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130	06/17/22 16:06	06/17/22 20:56	1
o-Terphenyl (Surr)	101		70 - 130	06/17/22 16:06	06/17/22 20:56	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.35	J	3.45	0.532	mg/Kg		06/22/22 19:32	06/25/22 03:30	10
Barium	36.8		3.45	0.299	mg/Kg		06/22/22 19:32	06/25/22 03:30	10
Cadmium	<0.100	U	1.72	0.100	mg/Kg		06/22/22 19:32	06/25/22 03:30	10
Chromium	3.40	J	3.45	0.234	mg/Kg		06/22/22 19:32	06/25/22 03:30	10
Lead	2.82		1.72	0.167	mg/Kg		06/22/22 19:32	06/25/22 03:30	10
Selenium	<0.428	U	1.72	0.428	mg/Kg		06/22/22 19:32	06/25/22 03:30	10
Silver	0.280	J B	1.72	0.137	mg/Kg		06/22/22 19:32	06/25/22 03:30	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00377	U	0.0196	0.00377	mg/Kg		06/21/22 07:20	06/21/22 14:27	1

**Client Sample ID: B-7**

**Lab Sample ID: 830-1995-21**

Date Collected: 06/14/22 14:10

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 15

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000209	U	0.00101	0.000209	mg/Kg		06/17/22 09:40	06/17/22 18:34	1
Toluene	<0.00101	U	0.00505	0.00101	mg/Kg		06/17/22 09:40	06/17/22 18:34	1
Ethylbenzene	<0.000339	U	0.00101	0.000339	mg/Kg		06/17/22 09:40	06/17/22 18:34	1
m,p-Xylenes	<0.000808	U	0.00202	0.000808	mg/Kg		06/17/22 09:40	06/17/22 18:34	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-7**

**Lab Sample ID: 830-1995-21**

Date Collected: 06/14/22 14:10

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 15

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000995	U	0.00101	0.000995	mg/Kg		06/17/22 09:40	06/17/22 18:34	1
Xylenes, Total	<0.000995	U	0.00202	0.000995	mg/Kg		06/17/22 09:40	06/17/22 18:34	1
MTBE	<0.000413	U	0.00505	0.000413	mg/Kg		06/17/22 09:40	06/17/22 18:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	112		56 - 150				06/17/22 09:40	06/17/22 18:34	1
4-Bromofluorobenzene (Surr)	100		68 - 152				06/17/22 09:40	06/17/22 18:34	1
Dibromofluoromethane (Surr)	103		53 - 142				06/17/22 09:40	06/17/22 18:34	1
Toluene-d8 (Surr)	94		70 - 130				06/17/22 09:40	06/17/22 18:34	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/17/22 21:16	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/17/22 21:16	1
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/17/22 21:16	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.0	21.1	mg/Kg			06/20/22 18:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane (Surr)	97		70 - 130				06/17/22 16:06	06/17/22 21:16	1
o-Terphenyl (Surr)	106		70 - 130				06/17/22 16:06	06/17/22 21:16	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>1.02</b>	<b>J</b>	3.51	0.541	mg/Kg		06/22/22 19:32	06/25/22 03:33	10
<b>Barium</b>	<b>34.4</b>		3.51	0.304	mg/Kg		06/22/22 19:32	06/25/22 03:33	10
Cadmium	<0.102	U	1.75	0.102	mg/Kg		06/22/22 19:32	06/25/22 03:33	10
<b>Chromium</b>	<b>6.28</b>		3.51	0.238	mg/Kg		06/22/22 19:32	06/25/22 03:33	10
<b>Lead</b>	<b>2.79</b>		1.75	0.170	mg/Kg		06/22/22 19:32	06/25/22 03:33	10
Selenium	<0.435	U	1.75	0.435	mg/Kg		06/22/22 19:32	06/25/22 03:33	10
<b>Silver</b>	<b>0.283</b>	<b>J B</b>	1.75	0.139	mg/Kg		06/22/22 19:32	06/25/22 03:33	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00370	U	0.0192	0.00370	mg/Kg		06/21/22 07:54	06/21/22 16:19	1

**Client Sample ID: B-8**

**Lab Sample ID: 830-1995-22**

Date Collected: 06/14/22 14:35

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 5

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000205	U	0.000992	0.000205	mg/Kg		06/17/22 09:40	06/20/22 15:00	1
Toluene	<0.000992	U	0.00496	0.000992	mg/Kg		06/17/22 09:40	06/20/22 15:00	1
Ethylbenzene	<0.000333	U	0.000992	0.000333	mg/Kg		06/17/22 09:40	06/20/22 15:00	1
m,p-Xylenes	<0.000794	U	0.00198	0.000794	mg/Kg		06/17/22 09:40	06/20/22 15:00	1
o-Xylene	<0.000977	U	0.000992	0.000977	mg/Kg		06/17/22 09:40	06/20/22 15:00	1
Xylenes, Total	<0.000977	U	0.00198	0.000977	mg/Kg		06/17/22 09:40	06/20/22 15:00	1
MTBE	<0.000405	U	0.00496	0.000405	mg/Kg		06/17/22 09:40	06/20/22 15:00	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-8**

**Lab Sample ID: 830-1995-22**

**Date Collected: 06/14/22 14:35**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

**Sample Depth: 5**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		56 - 150	06/17/22 09:40	06/20/22 15:00	1
4-Bromofluorobenzene (Surr)	96		68 - 152	06/17/22 09:40	06/20/22 15:00	1
Dibromofluoromethane (Surr)	101		53 - 142	06/17/22 09:40	06/20/22 15:00	1
Toluene-d8 (Surr)	96		70 - 130	06/17/22 09:40	06/20/22 15:00	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/17/22 22:16	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/17/22 22:16	1
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/17/22 22:16	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.0	21.1	mg/Kg			06/20/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130	06/17/22 16:06	06/17/22 22:16	1
o-Terphenyl (Surr)	106		70 - 130	06/17/22 16:06	06/17/22 22:16	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.00	J	3.70	0.571	mg/Kg		06/22/22 19:32	06/25/22 03:36	10
Barium	15.1		3.70	0.321	mg/Kg		06/22/22 19:32	06/25/22 03:36	10
Cadmium	<0.107	U	1.85	0.107	mg/Kg		06/22/22 19:32	06/25/22 03:36	10
Chromium	3.22	J	3.70	0.251	mg/Kg		06/22/22 19:32	06/25/22 03:36	10
Lead	1.94		1.85	0.179	mg/Kg		06/22/22 19:32	06/25/22 03:36	10
Selenium	<0.459	U	1.85	0.459	mg/Kg		06/22/22 19:32	06/25/22 03:36	10
Silver	0.295	J B	1.85	0.147	mg/Kg		06/22/22 19:32	06/25/22 03:36	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00349	U	0.0182	0.00349	mg/Kg		06/21/22 07:54	06/21/22 16:29	1

**Client Sample ID: B-8**

**Lab Sample ID: 830-1995-23**

**Date Collected: 06/14/22 14:40**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

**Sample Depth: 10**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.000993	U	0.00202	0.000993	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
cis-1,2-Dichloroethene	<0.000303	U	0.00504	0.000303	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
cis-1,3-Dichloropropene	<0.000231	U	0.00504	0.000231	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Isopropylbenzene	<0.000175	U	0.00504	0.000175	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
m,p-Xylenes	<0.000806	U	0.00202	0.000806	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
n-Butylbenzene	<0.000276	U	0.00504	0.000276	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
N-Propylbenzene	<0.000288	U	0.00504	0.000288	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
o-Xylene	<0.000993	U	0.00101	0.000993	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
p-Cymene (p-Isopropyltoluene)	<0.000321	U	0.00504	0.000321	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
tert-Butylbenzene	<0.00129	U	0.00504	0.00129	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
trans-1,2-Dichloroethene	<0.000437	U	0.00504	0.000437	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
trans-1,3-Dichloropropene	<0.000917	U	0.00504	0.000917	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Vinyl chloride	<0.000445	U	0.00504	0.000445	mg/Kg		06/21/22 12:22	06/21/22 16:56	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

Client Sample ID: B-8

Lab Sample ID: 830-1995-23

Date Collected: 06/14/22 14:40

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 10

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.000269	U	0.00504	0.000269	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,1,1-Trichloroethane	<0.000507	U	0.00504	0.000507	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,1,2,2-Tetrachloroethane	<0.000473	U	0.00504	0.000473	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,1,2-Trichloroethane	<0.000395	U	0.00504	0.000395	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,1-Dichloroethane	<0.000379	U	0.00504	0.000379	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,1-Dichloroethene	<0.000279	U	0.00504	0.000279	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,1-Dichloropropene	<0.000452	U	0.00504	0.000452	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,2,3-Trichlorobenzene	<0.00202	U	0.00504	0.00202	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,2,3-Trichloropropane	<0.000453	U	0.00504	0.000453	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,2,4-Trichlorobenzene	<0.00202	U	0.00504	0.00202	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,2,4-Trimethylbenzene	<0.000257	U	0.00504	0.000257	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,2-Dibromo-3-Chloropropane	<0.000710	U	0.00504	0.000710	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,2-Dibromoethane	<0.00105	U	0.00504	0.00105	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,2-Dichlorobenzene	<0.000290	U	0.00504	0.000290	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,2-Dichloroethane	<0.000306	U	0.00504	0.000306	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,2-Dichloropropane	<0.000200	U	0.00504	0.000200	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,3,5-Trimethylbenzene	<0.000291	U	0.00504	0.000291	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,3-Dichlorobenzene	<0.000275	U	0.00504	0.000275	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,3-Dichloropropane	<0.000412	U	0.00504	0.000412	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,4-Dichlorobenzene	<0.000216	U	0.00504	0.000216	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
2,2-Dichloropropane	<0.000528	U	0.00504	0.000528	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
2-Butanone	<0.00368	U	0.0202	0.00368	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
4-Chlorotoluene	<0.000266	U	0.00504	0.000266	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Benzene	<0.000209	U	0.00101	0.000209	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Bromobenzene	<0.000349	U	0.00504	0.000349	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Bromochloromethane	<0.000530	U	0.00504	0.000530	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Bromodichloromethane	<0.000253	U	0.00504	0.000253	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Bromoform	<0.00104	U	0.00504	0.00104	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Bromomethane	<0.000951	U **	0.00504	0.000951	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Carbon tetrachloride	<0.00166	U	0.00504	0.00166	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Chlorobenzene	<0.000239	U	0.00504	0.000239	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Chloroethane	<0.000448	U **	0.0101	0.000448	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Chloroform	<0.000174	U	0.00504	0.000174	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Chloromethane	<0.000434	U	0.00504	0.000434	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Dibromochloromethane	<0.000902	U	0.00504	0.000902	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Dichlorodifluoromethane	<0.00112	U	0.00504	0.00112	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Ethylbenzene	<0.000338	U	0.00101	0.000338	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Hexachlorobutadiene	<0.00202	U *	0.00504	0.00202	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
MTBE	<0.000412	U	0.00504	0.000412	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Methylene Chloride	<0.00425	U	0.0202	0.00425	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Naphthalene	<0.00202	U	0.0101	0.00202	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
sec-Butylbenzene	<0.000263	U	0.00504	0.000263	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Styrene	<0.000207	U	0.00504	0.000207	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Tetrachloroethene	<0.000373	U	0.00504	0.000373	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Toluene	<0.00101	U	0.00504	0.00101	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Trichloroethene	<0.000498	U	0.00504	0.000498	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Trichlorofluoromethane	<0.000310	U	0.00504	0.000310	mg/Kg		06/21/22 12:22	06/21/22 16:56	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-8**

**Lab Sample ID: 830-1995-23**

Date Collected: 06/14/22 14:40

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		56 - 150	06/21/22 12:22	06/21/22 16:56	1
4-Bromofluorobenzene (Surr)	107		68 - 152	06/21/22 12:22	06/21/22 16:56	1
Dibromofluoromethane (Surr)	116		53 - 142	06/21/22 12:22	06/21/22 16:56	1
Toluene-d8 (Surr)	98		70 - 130	06/21/22 12:22	06/21/22 16:56	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/17/22 22:35	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/17/22 22:35	1
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/17/22 22:35	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.0	21.1	mg/Kg			06/20/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130	06/17/22 16:06	06/17/22 22:35	1
o-Terphenyl (Surr)	105		70 - 130	06/17/22 16:06	06/17/22 22:35	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.868	J	3.57	0.551	mg/Kg		06/22/22 19:32	06/25/22 03:40	10
Barium	16.0		3.57	0.310	mg/Kg		06/22/22 19:32	06/25/22 03:40	10
Cadmium	<0.104	U	1.79	0.104	mg/Kg		06/22/22 19:32	06/25/22 03:40	10
Chromium	3.46	J	3.57	0.242	mg/Kg		06/22/22 19:32	06/25/22 03:40	10
Lead	1.71	J	1.79	0.173	mg/Kg		06/22/22 19:32	06/25/22 03:40	10
Selenium	<0.443	U	1.79	0.443	mg/Kg		06/22/22 19:32	06/25/22 03:40	10
Silver	0.284	J B	1.79	0.142	mg/Kg		06/22/22 19:32	06/25/22 03:40	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00337	U	0.0175	0.00337	mg/Kg		06/21/22 07:54	06/21/22 16:31	1

**Client Sample ID: B-8**

**Lab Sample ID: 830-1995-24**

Date Collected: 06/14/22 14:45

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 15

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000207	U	0.00100	0.000207	mg/Kg		06/17/22 09:40	06/20/22 15:20	1
Toluene	<0.00100	U	0.00501	0.00100	mg/Kg		06/17/22 09:40	06/20/22 15:20	1
Ethylbenzene	<0.000336	U	0.00100	0.000336	mg/Kg		06/17/22 09:40	06/20/22 15:20	1
m,p-Xylenes	<0.000802	U	0.00200	0.000802	mg/Kg		06/17/22 09:40	06/20/22 15:20	1
o-Xylene	<0.000987	U	0.00100	0.000987	mg/Kg		06/17/22 09:40	06/20/22 15:20	1
Xylenes, Total	<0.000987	U	0.00200	0.000987	mg/Kg		06/17/22 09:40	06/20/22 15:20	1
MTBE	<0.000409	U	0.00501	0.000409	mg/Kg		06/17/22 09:40	06/20/22 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		56 - 150	06/17/22 09:40	06/20/22 15:20	1
4-Bromofluorobenzene (Surr)	95		68 - 152	06/17/22 09:40	06/20/22 15:20	1
Dibromofluoromethane (Surr)	100		53 - 142	06/17/22 09:40	06/20/22 15:20	1
Toluene-d8 (Surr)	95		70 - 130	06/17/22 09:40	06/20/22 15:20	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-8**

**Lab Sample ID: 830-1995-24**

Date Collected: 06/14/22 14:45

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 15

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.0	U	49.8	21.0	mg/Kg		06/17/22 16:06	06/17/22 22:55	1
>C12-C28	<21.0	U	49.8	21.0	mg/Kg		06/17/22 16:06	06/17/22 22:55	1
>C28-C35	<21.0	U	49.8	21.0	mg/Kg		06/17/22 16:06	06/17/22 22:55	1
Total Petroleum Hydrocarbons (C6-C35)	<21.0	U	49.8	21.0	mg/Kg			06/20/22 18:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane (Surr)	96		70 - 130				06/17/22 16:06	06/17/22 22:55	1
o-Terphenyl (Surr)	108		70 - 130				06/17/22 16:06	06/17/22 22:55	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>2.37</b>	<b>J</b>	3.77	0.582	mg/Kg		06/22/22 19:32	06/25/22 03:43	10
<b>Barium</b>	<b>25.6</b>		3.77	0.327	mg/Kg		06/22/22 19:32	06/25/22 03:43	10
Cadmium	<0.109	U	1.89	0.109	mg/Kg		06/22/22 19:32	06/25/22 03:43	10
<b>Chromium</b>	<b>5.72</b>		3.77	0.256	mg/Kg		06/22/22 19:32	06/25/22 03:43	10
<b>Lead</b>	<b>2.39</b>		1.89	0.183	mg/Kg		06/22/22 19:32	06/25/22 03:43	10
Selenium	<0.468	U	1.89	0.468	mg/Kg		06/22/22 19:32	06/25/22 03:43	10
<b>Silver</b>	<b>0.298</b>	<b>J B</b>	1.89	0.150	mg/Kg		06/22/22 19:32	06/25/22 03:43	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00363	U	0.0189	0.00363	mg/Kg		06/21/22 07:54	06/21/22 16:32	1

**Client Sample ID: B-9**

**Lab Sample ID: 830-1995-25**

Date Collected: 06/14/22 15:10

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 5

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000206	U	0.000994	0.000206	mg/Kg		06/17/22 09:40	06/20/22 14:39	1
<b>Toluene</b>	<b>0.00126</b>	<b>J</b>	0.00497	0.000994	mg/Kg		06/17/22 09:40	06/20/22 14:39	1
Ethylbenzene	<0.000334	U	0.000994	0.000334	mg/Kg		06/17/22 09:40	06/20/22 14:39	1
m,p-Xylenes	<0.000795	U	0.00199	0.000795	mg/Kg		06/17/22 09:40	06/20/22 14:39	1
o-Xylene	<0.000979	U	0.000994	0.000979	mg/Kg		06/17/22 09:40	06/20/22 14:39	1
Xylenes, Total	<0.000979	U	0.00199	0.000979	mg/Kg		06/17/22 09:40	06/20/22 14:39	1
MTBE	<0.000406	U	0.00497	0.000406	mg/Kg		06/17/22 09:40	06/20/22 14:39	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	99		56 - 150				06/17/22 09:40	06/20/22 14:39	1
4-Bromofluorobenzene (Surr)	96		68 - 152				06/17/22 09:40	06/20/22 14:39	1
Dibromofluoromethane (Surr)	103		53 - 142				06/17/22 09:40	06/20/22 14:39	1
Toluene-d8 (Surr)	96		70 - 130				06/17/22 09:40	06/20/22 14:39	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/17/22 23:15	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/17/22 23:15	1
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/17/22 23:15	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-9**

**Lab Sample ID: 830-1995-25**

Date Collected: 06/14/22 15:10

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 5

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.0	21.1	mg/Kg			06/20/22 18:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane (Surr)	96		70 - 130				06/17/22 16:06	06/17/22 23:15	1
o-Terphenyl (Surr)	108		70 - 130				06/17/22 16:06	06/17/22 23:15	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.727</b>	<b>J</b>	3.33	0.514	mg/Kg		06/22/22 19:32	06/25/22 03:46	10
<b>Barium</b>	<b>23.5</b>		3.33	0.289	mg/Kg		06/22/22 19:32	06/25/22 03:46	10
Cadmium	<0.0967	U	1.67	0.0967	mg/Kg		06/22/22 19:32	06/25/22 03:46	10
<b>Chromium</b>	<b>2.88</b>	<b>J</b>	3.33	0.226	mg/Kg		06/22/22 19:32	06/25/22 03:46	10
<b>Lead</b>	<b>1.66</b>	<b>J</b>	1.67	0.161	mg/Kg		06/22/22 19:32	06/25/22 03:46	10
Selenium	<0.413	U	1.67	0.413	mg/Kg		06/22/22 19:32	06/25/22 03:46	10
<b>Silver</b>	<b>0.264</b>	<b>J B</b>	1.67	0.132	mg/Kg		06/22/22 19:32	06/25/22 03:46	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00356	U	0.0185	0.00356	mg/Kg		06/21/22 07:54	06/21/22 16:33	1

**Client Sample ID: B-9**

**Lab Sample ID: 830-1995-26**

Date Collected: 06/14/22 15:15

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.000995	U	0.00202	0.000995	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
cis-1,2-Dichloroethene	<0.000304	U	0.00505	0.000304	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
cis-1,3-Dichloropropene	<0.000232	U	0.00505	0.000232	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Isopropylbenzene	<0.000176	U	0.00505	0.000176	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
m,p-Xylenes	<0.000808	U	0.00202	0.000808	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
n-Butylbenzene	<0.000277	U	0.00505	0.000277	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
N-Propylbenzene	<0.000289	U	0.00505	0.000289	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
o-Xylene	<0.000995	U	0.00101	0.000995	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
p-Cymene (p-Isopropyltoluene)	<0.000322	U	0.00505	0.000322	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
tert-Butylbenzene	<0.00130	U	0.00505	0.00130	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
trans-1,2-Dichloroethene	<0.000438	U	0.00505	0.000438	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
trans-1,3-Dichloropropene	<0.000919	U	0.00505	0.000919	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Vinyl chloride	<0.000446	U	0.00505	0.000446	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
1,1,1,2-Tetrachloroethane	<0.000270	U	0.00505	0.000270	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
1,1,1-Trichloroethane	<0.000508	U	0.00505	0.000508	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
1,1,2,2-Tetrachloroethane	<0.000474	U	0.00505	0.000474	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
1,1,2-Trichloroethane	<0.000396	U	0.00505	0.000396	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
1,1-Dichloroethane	<0.000380	U	0.00505	0.000380	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
1,1-Dichloroethene	<0.000280	U	0.00505	0.000280	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
1,1-Dichloropropene	<0.000453	U	0.00505	0.000453	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
1,2,3-Trichlorobenzene	<0.00202	U	0.00505	0.00202	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
1,2,3-Trichloropropane	<0.000454	U	0.00505	0.000454	mg/Kg		06/21/22 12:22	06/21/22 17:19	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-9**

**Lab Sample ID: 830-1995-26**

**Date Collected: 06/14/22 15:15**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

**Sample Depth: 10**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.00202	U	0.00505	0.00202	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
1,2,4-Trimethylbenzene	<0.000258	U	0.00505	0.000258	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
1,2-Dibromo-3-Chloropropane	<0.000711	U	0.00505	0.000711	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
1,2-Dibromoethane	<0.00105	U	0.00505	0.00105	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
1,2-Dichlorobenzene	<0.000290	U	0.00505	0.000290	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
1,2-Dichloroethane	<0.000307	U	0.00505	0.000307	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
1,2-Dichloropropane	<0.000200	U	0.00505	0.000200	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
1,3,5-Trimethylbenzene	<0.000292	U	0.00505	0.000292	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
1,3-Dichlorobenzene	<0.000275	U	0.00505	0.000275	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
1,3-Dichloropropane	<0.000413	U	0.00505	0.000413	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
1,4-Dichlorobenzene	<0.000217	U	0.00505	0.000217	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
2,2-Dichloropropane	<0.000530	U	0.00505	0.000530	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
2-Butanone	<0.00368	U	0.0202	0.00368	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
4-Chlorotoluene	<0.000266	U	0.00505	0.000266	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Benzene	<0.000209	U	0.00101	0.000209	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Bromobenzene	<0.000350	U	0.00505	0.000350	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Bromochloromethane	<0.000531	U	0.00505	0.000531	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Bromodichloromethane	<0.000254	U	0.00505	0.000254	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Bromoform	<0.00104	U	0.00505	0.00104	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Bromomethane	<0.000953	U **	0.00505	0.000953	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Carbon tetrachloride	<0.00166	U	0.00505	0.00166	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Chlorobenzene	<0.000239	U	0.00505	0.000239	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Chloroethane	<0.000448	U **	0.0101	0.000448	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Chloroform	<0.000175	U	0.00505	0.000175	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Chloromethane	<0.000435	U	0.00505	0.000435	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Dibromochloromethane	<0.000904	U	0.00505	0.000904	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Dichlorodifluoromethane	<0.00113	U	0.00505	0.00113	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Ethylbenzene	<0.000339	U	0.00101	0.000339	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Hexachlorobutadiene	<0.00202	U *-	0.00505	0.00202	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
MTBE	<0.000413	U	0.00505	0.000413	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Methylene Chloride	<0.00426	U	0.0202	0.00426	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Naphthalene	<0.00202	U	0.0101	0.00202	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
sec-Butylbenzene	<0.000263	U	0.00505	0.000263	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Styrene	<0.000208	U	0.00505	0.000208	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Tetrachloroethene	<0.000373	U	0.00505	0.000373	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Toluene	<0.00101	U	0.00505	0.00101	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Trichloroethene	<0.000499	U	0.00505	0.000499	mg/Kg		06/21/22 12:22	06/21/22 17:19	1
Trichlorofluoromethane	<0.000311	U	0.00505	0.000311	mg/Kg		06/21/22 12:22	06/21/22 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		56 - 150	06/21/22 12:22	06/21/22 17:19	1
4-Bromofluorobenzene (Surr)	108		68 - 152	06/21/22 12:22	06/21/22 17:19	1
Dibromofluoromethane (Surr)	109		53 - 142	06/21/22 12:22	06/21/22 17:19	1
Toluene-d8 (Surr)	96		70 - 130	06/21/22 12:22	06/21/22 17:19	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/17/22 23:35	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/17/22 23:35	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-9**

**Lab Sample ID: 830-1995-26**

Date Collected: 06/14/22 15:15

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 10

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/17/22 23:35	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.0	21.1	mg/Kg			06/20/22 18:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130				06/17/22 16:06	06/17/22 23:35	1
o-Terphenyl (Surr)	105		70 - 130				06/17/22 16:06	06/17/22 23:35	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.07	J	3.64	0.561	mg/Kg		06/22/22 19:32	06/25/22 03:49	10
Barium	33.0		3.64	0.315	mg/Kg		06/22/22 19:32	06/25/22 03:49	10
Cadmium	<0.105	U	1.82	0.105	mg/Kg		06/22/22 19:32	06/25/22 03:49	10
Chromium	3.97		3.64	0.247	mg/Kg		06/22/22 19:32	06/25/22 03:49	10
Lead	2.35		1.82	0.176	mg/Kg		06/22/22 19:32	06/25/22 03:49	10
Selenium	<0.451	U	1.82	0.451	mg/Kg		06/22/22 19:32	06/25/22 03:49	10
Silver	0.288	J B	1.82	0.144	mg/Kg		06/22/22 19:32	06/25/22 03:49	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00356	U	0.0185	0.00356	mg/Kg		06/21/22 07:54	06/21/22 16:35	1

**Client Sample ID: B-9**

**Lab Sample ID: 830-1995-27**

Date Collected: 06/14/22 15:25

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 15

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000207	U	0.000998	0.000207	mg/Kg		06/17/22 09:40	06/20/22 15:40	1
Toluene	<0.000998	U	0.00499	0.000998	mg/Kg		06/17/22 09:40	06/20/22 15:40	1
Ethylbenzene	<0.000335	U	0.000998	0.000335	mg/Kg		06/17/22 09:40	06/20/22 15:40	1
m,p-Xylenes	<0.000798	U	0.00200	0.000798	mg/Kg		06/17/22 09:40	06/20/22 15:40	1
o-Xylene	<0.000983	U	0.000998	0.000983	mg/Kg		06/17/22 09:40	06/20/22 15:40	1
Xylenes, Total	<0.000983	U	0.00200	0.000983	mg/Kg		06/17/22 09:40	06/20/22 15:40	1
MTBE	<0.000408	U	0.00499	0.000408	mg/Kg		06/17/22 09:40	06/20/22 15:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		56 - 150				06/17/22 09:40	06/20/22 15:40	1
4-Bromofluorobenzene (Surr)	96		68 - 152				06/17/22 09:40	06/20/22 15:40	1
Dibromofluoromethane (Surr)	102		53 - 142				06/17/22 09:40	06/20/22 15:40	1
Toluene-d8 (Surr)	96		70 - 130				06/17/22 09:40	06/20/22 15:40	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.1	21.1	mg/Kg		06/17/22 16:06	06/17/22 23:54	1
>C12-C28	<21.1	U	50.1	21.1	mg/Kg		06/17/22 16:06	06/17/22 23:54	1
>C28-C35	<21.1	U	50.1	21.1	mg/Kg		06/17/22 16:06	06/17/22 23:54	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.1	21.1	mg/Kg			06/20/22 18:03	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-9**

**Lab Sample ID: 830-1995-27**

Date Collected: 06/14/22 15:25

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130	06/17/22 16:06	06/17/22 23:54	1
o-Terphenyl (Surr)	106		70 - 130	06/17/22 16:06	06/17/22 23:54	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>1.11</b>	<b>J</b>	3.33	0.514	mg/Kg		06/22/22 19:32	06/25/22 03:52	10
<b>Barium</b>	<b>31.5</b>		3.33	0.289	mg/Kg		06/22/22 19:32	06/25/22 03:52	10
Cadmium	<0.0967	U	1.67	0.0967	mg/Kg		06/22/22 19:32	06/25/22 03:52	10
<b>Chromium</b>	<b>2.25</b>	<b>J</b>	3.33	0.226	mg/Kg		06/22/22 19:32	06/25/22 03:52	10
<b>Lead</b>	<b>2.07</b>		1.67	0.161	mg/Kg		06/22/22 19:32	06/25/22 03:52	10
Selenium	<0.413	U	1.67	0.413	mg/Kg		06/22/22 19:32	06/25/22 03:52	10
<b>Silver</b>	<b>0.266</b>	<b>J B</b>	1.67	0.132	mg/Kg		06/22/22 19:32	06/25/22 03:52	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.0981</b>		0.0192	0.00370	mg/Kg		06/21/22 07:54	06/21/22 16:36	1

**Client Sample ID: B-10**

**Lab Sample ID: 830-1995-28**

Date Collected: 06/14/22 15:45

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 5

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000208	U	0.00101	0.000208	mg/Kg		06/17/22 09:40	06/20/22 16:01	1
<b>Toluene</b>	<b>0.00118</b>	<b>J</b>	0.00503	0.00101	mg/Kg		06/17/22 09:40	06/20/22 16:01	1
Ethylbenzene	<0.000338	U	0.00101	0.000338	mg/Kg		06/17/22 09:40	06/20/22 16:01	1
m,p-Xylenes	<0.000805	U	0.00201	0.000805	mg/Kg		06/17/22 09:40	06/20/22 16:01	1
o-Xylene	<0.000991	U	0.00101	0.000991	mg/Kg		06/17/22 09:40	06/20/22 16:01	1
Xylenes, Total	<0.000991	U	0.00201	0.000991	mg/Kg		06/17/22 09:40	06/20/22 16:01	1
MTBE	<0.000411	U	0.00503	0.000411	mg/Kg		06/17/22 09:40	06/20/22 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		56 - 150	06/17/22 09:40	06/20/22 16:01	1
4-Bromofluorobenzene (Surr)	97		68 - 152	06/17/22 09:40	06/20/22 16:01	1
Dibromofluoromethane (Surr)	102		53 - 142	06/17/22 09:40	06/20/22 16:01	1
Toluene-d8 (Surr)	94		70 - 130	06/17/22 09:40	06/20/22 16:01	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.0	U	49.8	21.0	mg/Kg		06/17/22 16:06	06/18/22 00:14	1
>C12-C28	<21.0	U	49.8	21.0	mg/Kg		06/17/22 16:06	06/18/22 00:14	1
>C28-C35	<21.0	U	49.8	21.0	mg/Kg		06/17/22 16:06	06/18/22 00:14	1
Total Petroleum Hydrocarbons (C6-C35)	<21.0	U	49.8	21.0	mg/Kg			06/20/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130	06/17/22 16:06	06/18/22 00:14	1
o-Terphenyl (Surr)	102		70 - 130	06/17/22 16:06	06/18/22 00:14	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-10**

**Lab Sample ID: 830-1995-28**

Date Collected: 06/14/22 15:45

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 5

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.925	J	3.57	0.551	mg/Kg		06/22/22 19:32	06/25/22 04:02	10
Barium	33.5		3.57	0.310	mg/Kg		06/22/22 19:32	06/25/22 04:02	10
Cadmium	<0.104	U	1.79	0.104	mg/Kg		06/22/22 19:32	06/25/22 04:02	10
Chromium	6.77		3.57	0.242	mg/Kg		06/22/22 19:32	06/25/22 04:02	10
Lead	2.57		1.79	0.173	mg/Kg		06/22/22 19:32	06/25/22 04:02	10
Selenium	<0.443	U	1.79	0.443	mg/Kg		06/22/22 19:32	06/25/22 04:02	10
Silver	0.279	J B	1.79	0.142	mg/Kg		06/22/22 19:32	06/25/22 04:02	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00370	U	0.0192	0.00370	mg/Kg		06/21/22 07:54	06/21/22 16:38	1

**Client Sample ID: B-10**

**Lab Sample ID: 830-1995-29**

Date Collected: 06/14/22 15:54

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.000979	U	0.00199	0.000979	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
cis-1,2-Dichloroethene	<0.000299	U	0.00497	0.000299	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
cis-1,3-Dichloropropene	<0.000228	U	0.00497	0.000228	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Isopropylbenzene	<0.000173	U	0.00497	0.000173	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
m,p-Xylenes	<0.000795	U	0.00199	0.000795	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
n-Butylbenzene	<0.000272	U	0.00497	0.000272	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
N-Propylbenzene	<0.000284	U	0.00497	0.000284	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
o-Xylene	<0.000979	U	0.000994	0.000979	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
p-Cymene (p-Isopropyltoluene)	<0.000317	U	0.00497	0.000317	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
tert-Butylbenzene	<0.00128	U	0.00497	0.00128	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
trans-1,2-Dichloroethene	<0.000431	U	0.00497	0.000431	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
trans-1,3-Dichloropropene	<0.000904	U	0.00497	0.000904	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Vinyl chloride	<0.000439	U	0.00497	0.000439	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,1,1,2-Tetrachloroethane	<0.000265	U	0.00497	0.000265	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,1,1-Trichloroethane	<0.000500	U	0.00497	0.000500	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,1,2,2-Tetrachloroethane	<0.000467	U	0.00497	0.000467	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,1,2-Trichloroethane	<0.000390	U	0.00497	0.000390	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,1-Dichloroethane	<0.000374	U	0.00497	0.000374	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,1-Dichloroethene	<0.000275	U	0.00497	0.000275	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,1-Dichloropropene	<0.000446	U	0.00497	0.000446	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,2,3-Trichlorobenzene	<0.00199	U	0.00497	0.00199	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,2,3-Trichloropropane	<0.000447	U	0.00497	0.000447	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,2,4-Trichlorobenzene	<0.00199	U	0.00497	0.00199	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,2,4-Trimethylbenzene	<0.000253	U	0.00497	0.000253	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,2-Dibromo-3-Chloropropane	<0.000700	U	0.00497	0.000700	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,2-Dibromoethane	<0.00104	U	0.00497	0.00104	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,2-Dichlorobenzene	<0.000286	U	0.00497	0.000286	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,2-Dichloroethane	<0.000302	U	0.00497	0.000302	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,2-Dichloropropane	<0.000197	U	0.00497	0.000197	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,3,5-Trimethylbenzene	<0.000287	U	0.00497	0.000287	mg/Kg		06/21/22 12:22	06/21/22 16:56	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-10**

**Lab Sample ID: 830-1995-29**

**Date Collected: 06/14/22 15:54**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

**Sample Depth: 10**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.000271	U	0.00497	0.000271	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,3-Dichloropropane	<0.000406	U	0.00497	0.000406	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
1,4-Dichlorobenzene	<0.000213	U	0.00497	0.000213	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
2,2-Dichloropropane	<0.000521	U	0.00497	0.000521	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
2-Butanone	<0.00362	U	0.0199	0.00362	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
4-Chlorotoluene	<0.000262	U	0.00497	0.000262	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Benzene	<0.000206	U	0.000994	0.000206	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Bromobenzene	<0.000344	U	0.00497	0.000344	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Bromochloromethane	<0.000523	U	0.00497	0.000523	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Bromodichloromethane	<0.000250	U	0.00497	0.000250	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Bromoform	<0.00103	U	0.00497	0.00103	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Bromomethane	<0.000938	U	0.00497	0.000938	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Carbon tetrachloride	<0.00163	U	0.00497	0.00163	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Chlorobenzene	<0.000235	U	0.00497	0.000235	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Chloroethane	<0.000441	U	0.00994	0.000441	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Chloroform	<0.000172	U	0.00497	0.000172	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Chloromethane	<0.000428	U	0.00497	0.000428	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Dibromochloromethane	<0.000889	U	0.00497	0.000889	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Dichlorodifluoromethane	<0.00111	U **	0.00497	0.00111	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Ethylbenzene	<0.000334	U	0.000994	0.000334	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Hexachlorobutadiene	<0.00199	U	0.00497	0.00199	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
MTBE	<0.000406	U	0.00497	0.000406	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Methylene Chloride	<0.00419	U	0.0199	0.00419	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Naphthalene	<0.00199	U	0.00994	0.00199	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
sec-Butylbenzene	<0.000259	U	0.00497	0.000259	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Styrene	<0.000204	U	0.00497	0.000204	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Tetrachloroethene	<0.000367	U	0.00497	0.000367	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Toluene	<0.000994	U	0.00497	0.000994	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Trichloroethene	<0.000491	U	0.00497	0.000491	mg/Kg		06/21/22 12:22	06/21/22 16:56	1
Trichlorofluoromethane	<0.000306	U	0.00497	0.000306	mg/Kg		06/21/22 12:22	06/21/22 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		56 - 150	06/21/22 12:22	06/21/22 16:56	1
4-Bromofluorobenzene (Surr)	106		68 - 152	06/21/22 12:22	06/21/22 16:56	1
Dibromofluoromethane (Surr)	103		53 - 142	06/21/22 12:22	06/21/22 16:56	1
Toluene-d8 (Surr)	101		70 - 130	06/21/22 12:22	06/21/22 16:56	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/18/22 00:33	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/18/22 00:33	1
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/18/22 00:33	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.0	21.1	mg/Kg			06/20/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130	06/17/22 16:06	06/18/22 00:33	1
o-Terphenyl (Surr)	101		70 - 130	06/17/22 16:06	06/18/22 00:33	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-10**

**Lab Sample ID: 830-1995-29**

Date Collected: 06/14/22 15:54

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 10

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.22	J	3.57	0.551	mg/Kg		06/22/22 19:32	06/25/22 04:05	10
Barium	30.7		3.57	0.310	mg/Kg		06/22/22 19:32	06/25/22 04:05	10
Cadmium	<0.104	U	1.79	0.104	mg/Kg		06/22/22 19:32	06/25/22 04:05	10
Chromium	4.30		3.57	0.242	mg/Kg		06/22/22 19:32	06/25/22 04:05	10
Lead	4.35		1.79	0.173	mg/Kg		06/22/22 19:32	06/25/22 04:05	10
Selenium	<0.443	U	1.79	0.443	mg/Kg		06/22/22 19:32	06/25/22 04:05	10
Silver	0.282	J B	1.79	0.142	mg/Kg		06/22/22 19:32	06/25/22 04:05	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00370	U	0.0192	0.00370	mg/Kg		06/21/22 07:54	06/21/22 16:39	1

**Client Sample ID: B-10**

**Lab Sample ID: 830-1995-30**

Date Collected: 06/14/22 16:00

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 15

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000206	U	0.000994	0.000206	mg/Kg		06/17/22 09:40	06/20/22 16:21	1
Toluene	<0.000994	U	0.00497	0.000994	mg/Kg		06/17/22 09:40	06/20/22 16:21	1
Ethylbenzene	<0.000334	U	0.000994	0.000334	mg/Kg		06/17/22 09:40	06/20/22 16:21	1
m,p-Xylenes	<0.000795	U	0.00199	0.000795	mg/Kg		06/17/22 09:40	06/20/22 16:21	1
o-Xylene	<0.000979	U	0.000994	0.000979	mg/Kg		06/17/22 09:40	06/20/22 16:21	1
Xylenes, Total	<0.000979	U	0.00199	0.000979	mg/Kg		06/17/22 09:40	06/20/22 16:21	1
MTBE	<0.000406	U	0.00497	0.000406	mg/Kg		06/17/22 09:40	06/20/22 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		56 - 150	06/17/22 09:40	06/20/22 16:21	1
4-Bromofluorobenzene (Surr)	95		68 - 152	06/17/22 09:40	06/20/22 16:21	1
Dibromofluoromethane (Surr)	102		53 - 142	06/17/22 09:40	06/20/22 16:21	1
Toluene-d8 (Surr)	95		70 - 130	06/17/22 09:40	06/20/22 16:21	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.1	21.1	mg/Kg		06/17/22 16:06	06/18/22 00:53	1
>C12-C28	<21.1	U	50.1	21.1	mg/Kg		06/17/22 16:06	06/18/22 00:53	1
>C28-C35	<21.1	U	50.1	21.1	mg/Kg		06/17/22 16:06	06/18/22 00:53	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.1	21.1	mg/Kg			06/20/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130	06/17/22 16:06	06/18/22 00:53	1
o-Terphenyl (Surr)	106		70 - 130	06/17/22 16:06	06/18/22 00:53	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.28	J	3.85	0.593	mg/Kg		06/22/22 19:32	06/25/22 04:08	10
Barium	28.7		3.85	0.334	mg/Kg		06/22/22 19:32	06/25/22 04:08	10
Cadmium	<0.112	U	1.92	0.112	mg/Kg		06/22/22 19:32	06/25/22 04:08	10

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
 Project/Site: B&C -22-01

Job ID: 830-1995-1  
 SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-10**

**Lab Sample ID: 830-1995-30**

Date Collected: 06/14/22 16:00

Matrix: Solid

Date Received: 06/15/22 14:21

Sample Depth: 15

**Method: 6020A - Metals (ICP/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chromium</b>	<b>2.83</b>	<b>J</b>	3.85	0.261	mg/Kg		06/22/22 19:32	06/25/22 04:08	10
<b>Lead</b>	<b>2.16</b>		1.92	0.186	mg/Kg		06/22/22 19:32	06/25/22 04:08	10
Selenium	<0.477	U	1.92	0.477	mg/Kg		06/22/22 19:32	06/25/22 04:08	10
<b>Silver</b>	<b>0.305</b>	<b>J B</b>	1.92	0.153	mg/Kg		06/22/22 19:32	06/25/22 04:08	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00377	U	0.0196	0.00377	mg/Kg		06/21/22 07:54	06/21/22 16:45	1

# Surrogate Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (56-150)	BFB (68-152)	DBFM (53-142)	TOL (70-130)
830-1995-1	B-1	110	97	101	94
830-1995-2	B-1	111	98	111	103
830-1995-3	B-1	111	99	100	94
830-1995-4	B-2	109	100	100	95
830-1995-5	B-2	95	113	94	107
830-1995-5	B-2	110	100	104	100
830-1995-6	B-2	112	102	98	96
830-1995-7	B-3	111	102	101	97
830-1995-8	B-3	98	112	94	105
830-1995-8	B-3	111	108	108	99
830-1995-9	B-3	113	99	101	96
830-1995-10	B-4	109	98	100	95
830-1995-11	B-4	96	111	93	105
830-1995-11	B-4	112	102	105	99
830-1995-12	B-4	113	98	99	94
830-1995-13	B-5	114	100	98	95
830-1995-14	B-5	108	100	107	100
830-1995-15	B-5	113	99	102	96
830-1995-16	B-6	116	98	101	95
830-1995-17	B-6	109	98	107	99
830-1995-18	B-6	114	101	100	96
830-1995-19	B-7	115	98	102	95
830-1995-20	B-7	111	103	114	98
830-1995-21	B-7	112	100	103	94
830-1995-22	B-8	100	96	101	96
830-1995-23	B-8	109	107	116	98
830-1995-24	B-8	99	95	100	95
830-1995-25	B-9	99	96	103	96
830-1995-25 MS	B-9	96	97	102	99
830-1995-26	B-9	113	108	109	96
830-1995-27	B-9	103	96	102	96
830-1995-28	B-10	105	97	102	94
830-1995-29	B-10	91	106	103	101
830-1995-30	B-10	105	95	102	95
LCS 860-57337/3	Lab Control Sample	103	95	104	100
LCS 860-57368/3	Lab Control Sample	93	113	100	105
LCS 860-57579/3	Lab Control Sample	104	98	103	100
LCS 860-57615/3	Lab Control Sample	109	107	100	102
LCS 860-57798/3	Lab Control Sample	111	115	112	103
LCS 860-57800/3	Lab Control Sample	89	109	104	103
LCSD 860-57337/4	Lab Control Sample Dup	101	99	104	101
LCSD 860-57368/4	Lab Control Sample Dup	94	112	103	104
LCSD 860-57579/4	Lab Control Sample Dup	99	98	101	99
LCSD 860-57615/4	Lab Control Sample Dup	112	107	100	100
LCSD 860-57798/4	Lab Control Sample Dup	110	113	111	101
LCSD 860-57800/4	Lab Control Sample Dup	84	110	103	102
MB 860-57337/9	Method Blank	107	98	101	97
MB 860-57368/9	Method Blank	97	108	97	105
MB 860-57579/9	Method Blank	113	97	100	95

# Surrogate Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Matrix: Solid**

**Prep Type: Total/NA**

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (56-150)	BFB (68-152)	DBFM (53-142)	TOL (70-130)
MB 860-57615/10	Method Blank	114	100	101	100
MB 860-57798/8	Method Blank	115	103	111	99
MB 860-57800/8	Method Blank	87	109	104	104

#### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane (Surr)  
TOL = Toluene-d8 (Surr)

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

**Matrix: Solid**

**Prep Type: Total/NA**

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (51-133)	NBZ (31-130)	TPHd14 (46-137)
830-1995-9	B-3	63	61	60
LCS 860-58538/2-A - RA	Lab Control Sample	70	69	65
LCSD 860-58538/3-A - RA	Lab Control Sample Dup	69	69	64
MB 860-58538/1-A	Method Blank	71	71	62

#### Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)  
NBZ = Nitrobenzene-d5 (Surr)  
TPHd14 = p-Terphenyl-d14 (Surr)

## Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

**Matrix: Solid**

**Prep Type: Total/NA**

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO (70-130)	OTPH (70-130)
830-1995-1	B-1	103	101
830-1995-2	B-1	106	112
830-1995-3	B-1	105	103
830-1995-4	B-2	108	114
830-1995-5	B-2	104	104
830-1995-6	B-2	108	111
830-1995-7	B-3	103	105
830-1995-8	B-3	109	115
830-1995-9	B-3	108	109
830-1995-10	B-4	123	127
830-1995-11	B-4	114	119
830-1995-12	B-4	122	130
830-1995-13	B-5	119	124
830-1995-14	B-5	107	108
830-1995-15	B-5	100	100
830-1995-16	B-6	108	114
830-1995-17	B-6	104	105
830-1995-18	B-6	118	115
830-1995-19	B-7	106	108
830-1995-20	B-7	93	101

# Surrogate Summary

Client: ESSCO Environmental, Inc.  
 Project/Site: B&C -22-01

Job ID: 830-1995-1  
 SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) (Continued)

**Matrix: Solid**

**Prep Type: Total/NA**

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO (70-130)	OTPH (70-130)
830-1995-21	B-7	97	106
830-1995-22	B-8	98	106
830-1995-23	B-8	97	105
830-1995-24	B-8	96	108
830-1995-25	B-9	96	108
830-1995-26	B-9	94	105
830-1995-27	B-9	96	106
830-1995-28	B-10	94	102
830-1995-29	B-10	95	101
830-1995-30	B-10	98	106
LCS 860-57428/2-A	Lab Control Sample	106	106
LCS 860-57488/2-A	Lab Control Sample	93	97
LCSD 860-57428/3-A	Lab Control Sample Dup	97	100
LCSD 860-57488/3-A	Lab Control Sample Dup	93	97
MB 860-57428/1-A	Method Blank	96	104
MB 860-57488/1-A	Method Blank	87	96

**Surrogate Legend**

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 860-57337/9**  
**Matrix: Solid**  
**Analysis Batch: 57337**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Xylenes, Total	<0.000985	U	0.00200	0.000985	mg/Kg			06/17/22 11:46	1
m,p-Xylenes	<0.000800	U	0.00200	0.000800	mg/Kg			06/17/22 11:46	1
o-Xylene	<0.000985	U	0.00100	0.000985	mg/Kg			06/17/22 11:46	1
Benzene	<0.000207	U	0.00100	0.000207	mg/Kg			06/17/22 11:46	1
Ethylbenzene	<0.000336	U	0.00100	0.000336	mg/Kg			06/17/22 11:46	1
MTBE	<0.000409	U	0.00500	0.000409	mg/Kg			06/17/22 11:46	1
Toluene	<0.00100	U	0.00500	0.00100	mg/Kg			06/17/22 11:46	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	107		56 - 150		06/17/22 11:46	1
4-Bromofluorobenzene (Surr)	98		68 - 152		06/17/22 11:46	1
Dibromofluoromethane (Surr)	101		53 - 142		06/17/22 11:46	1
Toluene-d8 (Surr)	97		70 - 130		06/17/22 11:46	1

**Lab Sample ID: LCS 860-57337/3**  
**Matrix: Solid**  
**Analysis Batch: 57337**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
m,p-Xylenes	0.0500	0.05035		mg/Kg		101	78 - 130
o-Xylene	0.0500	0.05127		mg/Kg		103	79 - 130
Benzene	0.0500	0.04835		mg/Kg		97	66 - 142
Ethylbenzene	0.0500	0.05011		mg/Kg		100	80 - 130
MTBE	0.0500	0.05571		mg/Kg		111	64 - 148
Toluene	0.0500	0.04826		mg/Kg		97	74 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	103		56 - 150
4-Bromofluorobenzene (Surr)	95		68 - 152
Dibromofluoromethane (Surr)	104		53 - 142
Toluene-d8 (Surr)	100		70 - 130

**Lab Sample ID: LCSD 860-57337/4**  
**Matrix: Solid**  
**Analysis Batch: 57337**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
m,p-Xylenes	0.0500	0.05317		mg/Kg		106	78 - 130	5	25
o-Xylene	0.0500	0.05441		mg/Kg		109	79 - 130	6	25
Benzene	0.0500	0.04920		mg/Kg		98	66 - 142	2	25
Ethylbenzene	0.0500	0.05267		mg/Kg		105	80 - 130	5	25
MTBE	0.0500	0.05635		mg/Kg		113	64 - 148	1	25
Toluene	0.0500	0.04969		mg/Kg		99	74 - 130	3	25

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		56 - 150
4-Bromofluorobenzene (Surr)	99		68 - 152

# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-57337/4  
Matrix: Solid  
Analysis Batch: 57337

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	104		53 - 142
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: 830-1995-25 MS  
Matrix: Solid  
Analysis Batch: 57579

Client Sample ID: B-9  
Prep Type: Total/NA  
Prep Batch: 57360

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	<0.000795	U	0.0505	0.05170		mg/Kg		102	78 - 127
o-Xylene	<0.000979	U	0.0505	0.05145		mg/Kg		102	79 - 125
Benzene	<0.000206	U	0.0505	0.04973		mg/Kg		98	71 - 119
Ethylbenzene	<0.000334	U	0.0505	0.05167		mg/Kg		102	80 - 123
MTBE	<0.000406	U	0.0505	0.04754		mg/Kg		94	64 - 148
Toluene	0.00126	J	0.0505	0.04989		mg/Kg		96	74 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		56 - 150
4-Bromofluorobenzene (Surr)	97		68 - 152
Dibromofluoromethane (Surr)	102		53 - 142
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: MB 860-57368/9  
Matrix: Solid  
Analysis Batch: 57368

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.000301	U	0.00500	0.000301	mg/Kg			06/17/22 14:48	1
Xylenes, Total	<0.000985	U	0.00200	0.000985	mg/Kg			06/17/22 14:48	1
cis-1,3-Dichloropropene	<0.000230	U	0.00500	0.000230	mg/Kg			06/17/22 14:48	1
Isopropylbenzene	<0.000174	U	0.00500	0.000174	mg/Kg			06/17/22 14:48	1
m,p-Xylenes	<0.000800	U	0.00200	0.000800	mg/Kg			06/17/22 14:48	1
n-Butylbenzene	<0.000274	U	0.00500	0.000274	mg/Kg			06/17/22 14:48	1
N-Propylbenzene	<0.000286	U	0.00500	0.000286	mg/Kg			06/17/22 14:48	1
o-Xylene	<0.000985	U	0.00100	0.000985	mg/Kg			06/17/22 14:48	1
p-Cymene (p-Isopropyltoluene)	<0.000319	U	0.00500	0.000319	mg/Kg			06/17/22 14:48	1
tert-Butylbenzene	<0.00128	U	0.00500	0.00128	mg/Kg			06/17/22 14:48	1
trans-1,2-Dichloroethene	<0.000434	U	0.00500	0.000434	mg/Kg			06/17/22 14:48	1
trans-1,3-Dichloropropene	<0.000909	U	0.00500	0.000909	mg/Kg			06/17/22 14:48	1
Vinyl chloride	<0.000441	U	0.00500	0.000441	mg/Kg			06/17/22 14:48	1
1,1,1,2-Tetrachloroethane	<0.000267	U	0.00500	0.000267	mg/Kg			06/17/22 14:48	1
1,1,1-Trichloroethane	<0.000503	U	0.00500	0.000503	mg/Kg			06/17/22 14:48	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00500	0.000470	mg/Kg			06/17/22 14:48	1
1,1,2-Trichloroethane	<0.000392	U	0.00500	0.000392	mg/Kg			06/17/22 14:48	1
1,1-Dichloroethane	<0.000376	U	0.00500	0.000376	mg/Kg			06/17/22 14:48	1
1,1-Dichloroethene	<0.000277	U	0.00500	0.000277	mg/Kg			06/17/22 14:48	1
1,1-Dichloropropene	<0.000448	U	0.00500	0.000448	mg/Kg			06/17/22 14:48	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/Kg			06/17/22 14:48	1
1,2,3-Trichloropropane	<0.000450	U	0.00500	0.000450	mg/Kg			06/17/22 14:48	1

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-57368/9**  
**Matrix: Solid**  
**Analysis Batch: 57368**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/Kg			06/17/22 14:48	1
1,2,4-Trimethylbenzene	<0.000255	U	0.00500	0.000255	mg/Kg			06/17/22 14:48	1
1,2-Dibromo-3-Chloropropane	<0.000704	U	0.00500	0.000704	mg/Kg			06/17/22 14:48	1
1,2-Dibromoethane	<0.00104	U	0.00500	0.00104	mg/Kg			06/17/22 14:48	1
1,2-Dichlorobenzene	<0.000288	U	0.00500	0.000288	mg/Kg			06/17/22 14:48	1
1,2-Dichloroethane	<0.000304	U	0.00500	0.000304	mg/Kg			06/17/22 14:48	1
1,2-Dichloropropane	<0.000198	U	0.00500	0.000198	mg/Kg			06/17/22 14:48	1
1,3,5-Trimethylbenzene	<0.000289	U	0.00500	0.000289	mg/Kg			06/17/22 14:48	1
1,3-Dichlorobenzene	<0.000273	U	0.00500	0.000273	mg/Kg			06/17/22 14:48	1
1,3-Dichloropropane	<0.000409	U	0.00500	0.000409	mg/Kg			06/17/22 14:48	1
1,4-Dichlorobenzene	<0.000214	U	0.00500	0.000214	mg/Kg			06/17/22 14:48	1
2,2-Dichloropropane	<0.000524	U	0.00500	0.000524	mg/Kg			06/17/22 14:48	1
2-Butanone	<0.00365	U	0.0200	0.00365	mg/Kg			06/17/22 14:48	1
4-Chlorotoluene	<0.000264	U	0.00500	0.000264	mg/Kg			06/17/22 14:48	1
Benzene	<0.000207	U	0.00100	0.000207	mg/Kg			06/17/22 14:48	1
Bromobenzene	<0.000346	U	0.00500	0.000346	mg/Kg			06/17/22 14:48	1
Bromochloromethane	<0.000526	U	0.00500	0.000526	mg/Kg			06/17/22 14:48	1
Bromodichloromethane	<0.000251	U	0.00500	0.000251	mg/Kg			06/17/22 14:48	1
Bromoform	<0.00103	U	0.00500	0.00103	mg/Kg			06/17/22 14:48	1
Bromomethane	<0.000943	U	0.00500	0.000943	mg/Kg			06/17/22 14:48	1
Carbon tetrachloride	<0.00164	U	0.00500	0.00164	mg/Kg			06/17/22 14:48	1
Chlorobenzene	<0.000237	U	0.00500	0.000237	mg/Kg			06/17/22 14:48	1
Chloroethane	<0.000444	U	0.0100	0.000444	mg/Kg			06/17/22 14:48	1
Chloroform	<0.000173	U	0.00500	0.000173	mg/Kg			06/17/22 14:48	1
Chloromethane	<0.000431	U	0.00500	0.000431	mg/Kg			06/17/22 14:48	1
Dibromochloromethane	<0.000895	U	0.00500	0.000895	mg/Kg			06/17/22 14:48	1
Dichlorodifluoromethane	<0.00111	U	0.00500	0.00111	mg/Kg			06/17/22 14:48	1
Ethylbenzene	<0.000336	U	0.00100	0.000336	mg/Kg			06/17/22 14:48	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/Kg			06/17/22 14:48	1
MTBE	<0.000409	U	0.00500	0.000409	mg/Kg			06/17/22 14:48	1
Methylene Chloride	<0.00422	U	0.0200	0.00422	mg/Kg			06/17/22 14:48	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/Kg			06/17/22 14:48	1
sec-Butylbenzene	<0.000261	U	0.00500	0.000261	mg/Kg			06/17/22 14:48	1
Styrene	<0.000205	U	0.00500	0.000205	mg/Kg			06/17/22 14:48	1
Tetrachloroethene	<0.000370	U	0.00500	0.000370	mg/Kg			06/17/22 14:48	1
Toluene	<0.00100	U	0.00500	0.00100	mg/Kg			06/17/22 14:48	1
Trichloroethene	<0.000494	U	0.00500	0.000494	mg/Kg			06/17/22 14:48	1
Trichlorofluoromethane	<0.000307	U	0.00500	0.000307	mg/Kg			06/17/22 14:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		56 - 150		06/17/22 14:48	1
4-Bromofluorobenzene (Surr)	108		68 - 152		06/17/22 14:48	1
Dibromofluoromethane (Surr)	97		53 - 142		06/17/22 14:48	1
Toluene-d8 (Surr)	105		70 - 130		06/17/22 14:48	1



# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-57368/3**  
**Matrix: Solid**  
**Analysis Batch: 57368**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	0.0500	0.04728		mg/Kg		95	72 - 131
cis-1,3-Dichloropropene	0.0500	0.04988		mg/Kg		100	74 - 135
Isopropylbenzene	0.0500	0.05181		mg/Kg		104	55 - 155
m,p-Xylenes	0.0500	0.04842		mg/Kg		97	78 - 130
n-Butylbenzene	0.0500	0.05732		mg/Kg		115	82 - 130
N-Propylbenzene	0.0500	0.05570		mg/Kg		111	84 - 131
o-Xylene	0.0500	0.04838		mg/Kg		97	79 - 130
p-Cymene (p-Isopropyltoluene)	0.0500	0.05507		mg/Kg		110	84 - 130
tert-Butylbenzene	0.0500	0.05577		mg/Kg		112	83 - 132
trans-1,2-Dichloroethene	0.0500	0.04253		mg/Kg		85	63 - 130
trans-1,3-Dichloropropene	0.0500	0.05162		mg/Kg		103	73 - 130
Vinyl chloride	0.0500	0.05557		mg/Kg		111	60 - 130
1,1,1,2-Tetrachloroethane	0.0500	0.04823		mg/Kg		96	81 - 130
1,1,1-Trichloroethane	0.0500	0.04742		mg/Kg		95	71 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.05441		mg/Kg		109	75 - 133
1,1,2-Trichloroethane	0.0500	0.04989		mg/Kg		100	75 - 131
1,1-Dichloroethane	0.0500	0.04885		mg/Kg		98	73 - 130
1,1-Dichloroethene	0.0500	0.04470		mg/Kg		89	68 - 130
1,1-Dichloropropene	0.0500	0.04568		mg/Kg		91	72 - 130
1,2,3-Trichlorobenzene	0.0500	0.05337		mg/Kg		107	75 - 131
1,2,3-Trichloropropane	0.0500	0.04869		mg/Kg		97	75 - 131
1,2,4-Trichlorobenzene	0.0500	0.05445		mg/Kg		109	79 - 130
1,2,4-Trimethylbenzene	0.0500	0.05310		mg/Kg		106	60 - 159
1,2-Dibromo-3-Chloropropane	0.0500	0.05468		mg/Kg		109	58 - 133
1,2-Dibromoethane	0.0500	0.04894		mg/Kg		98	73 - 130
1,2-Dichlorobenzene	0.0500	0.04890		mg/Kg		98	84 - 130
1,2-Dichloroethane	0.0500	0.04070		mg/Kg		81	70 - 130
1,2-Dichloropropane	0.0500	0.04689		mg/Kg		94	75 - 130
1,3,5-Trimethylbenzene	0.0500	0.05136		mg/Kg		103	61 - 160
1,3-Dichlorobenzene	0.0500	0.04938		mg/Kg		99	84 - 130
1,3-Dichloropropane	0.0500	0.04898		mg/Kg		98	82 - 131
1,4-Dichlorobenzene	0.0500	0.04745		mg/Kg		95	82 - 130
2,2-Dichloropropane	0.0500	0.05126		mg/Kg		103	67 - 137
2-Butanone	0.250	0.2896		mg/Kg		116	75 - 130
4-Chlorotoluene	0.0500	0.05027		mg/Kg		101	83 - 130
Benzene	0.0500	0.04524		mg/Kg		90	66 - 142
Bromobenzene	0.0500	0.04865		mg/Kg		97	75 - 130
Bromochloromethane	0.0500	0.04349		mg/Kg		87	71 - 130
Bromodichloromethane	0.0500	0.04731		mg/Kg		95	78 - 130
Bromoform	0.0500	0.04824		mg/Kg		96	63 - 136
Bromomethane	0.0500	0.03387		mg/Kg		68	60 - 140
Carbon tetrachloride	0.0500	0.04613		mg/Kg		92	63 - 135
Chlorobenzene	0.0500	0.04464		mg/Kg		89	83 - 130
Chloroethane	0.0500	0.05238		mg/Kg		105	57 - 130
Chloroform	0.0500	0.04551		mg/Kg		91	74 - 130
Chloromethane	0.0500	0.04849		mg/Kg		97	58 - 130
Dibromochloromethane	0.0500	0.04969		mg/Kg		99	77 - 130
Dichlorodifluoromethane	0.0500	0.05225		mg/Kg		104	54 - 130

# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-57368/3**  
**Matrix: Solid**  
**Analysis Batch: 57368**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.0500	0.04883		mg/Kg		98	80 - 130
Hexachlorobutadiene	0.0500	0.05329		mg/Kg		107	77 - 130
MTBE	0.0500	0.05050		mg/Kg		101	64 - 148
Methylene Chloride	0.0500	0.04172		mg/Kg		83	57 - 134
Naphthalene	0.0500	0.06081		mg/Kg		122	53 - 150
sec-Butylbenzene	0.0500	0.05664		mg/Kg		113	84 - 131
Styrene	0.0500	0.05067		mg/Kg		101	80 - 130
Tetrachloroethene	0.0500	0.04417		mg/Kg		88	79 - 130
Toluene	0.0500	0.04672		mg/Kg		93	74 - 130
Trichloroethene	0.0500	0.04434		mg/Kg		89	78 - 130
Trichlorofluoromethane	0.0500	0.06939		mg/Kg		139	71 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		56 - 150
4-Bromofluorobenzene (Surr)	113		68 - 152
Dibromofluoromethane (Surr)	100		53 - 142
Toluene-d8 (Surr)	105		70 - 130

**Lab Sample ID: LCSD 860-57368/4**  
**Matrix: Solid**  
**Analysis Batch: 57368**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	0.0500	0.04747		mg/Kg		95	72 - 131	0	25
cis-1,3-Dichloropropene	0.0500	0.05035		mg/Kg		101	74 - 135	1	25
Isopropylbenzene	0.0500	0.05180		mg/Kg		104	55 - 155	0	25
m,p-Xylenes	0.0500	0.04934		mg/Kg		99	78 - 130	2	25
n-Butylbenzene	0.0500	0.05434		mg/Kg		109	82 - 130	5	25
N-Propylbenzene	0.0500	0.05276		mg/Kg		106	84 - 131	5	25
o-Xylene	0.0500	0.04905		mg/Kg		98	79 - 130	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05239		mg/Kg		105	84 - 130	5	25
tert-Butylbenzene	0.0500	0.05298		mg/Kg		106	83 - 132	5	25
trans-1,2-Dichloroethene	0.0500	0.04346		mg/Kg		87	63 - 130	2	25
trans-1,3-Dichloropropene	0.0500	0.05186		mg/Kg		104	73 - 130	0	25
Vinyl chloride	0.0500	0.05777		mg/Kg		116	60 - 130	4	25
1,1,1,2-Tetrachloroethane	0.0500	0.04960		mg/Kg		99	81 - 130	3	25
1,1,1-Trichloroethane	0.0500	0.04765		mg/Kg		95	71 - 130	0	25
1,1,2,2-Tetrachloroethane	0.0500	0.05229		mg/Kg		105	75 - 133	4	25
1,1,2-Trichloroethane	0.0500	0.04994		mg/Kg		100	75 - 131	0	25
1,1-Dichloroethane	0.0500	0.05011		mg/Kg		100	73 - 130	3	25
1,1-Dichloroethene	0.0500	0.04351		mg/Kg		87	68 - 130	3	25
1,1-Dichloropropene	0.0500	0.04641		mg/Kg		93	72 - 130	2	25
1,2,3-Trichlorobenzene	0.0500	0.05236		mg/Kg		105	75 - 131	2	25
1,2,3-Trichloropropane	0.0500	0.05179		mg/Kg		104	75 - 131	6	25
1,2,4-Trichlorobenzene	0.0500	0.05297		mg/Kg		106	79 - 130	3	25
1,2,4-Trimethylbenzene	0.0500	0.05120		mg/Kg		102	60 - 159	4	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05304		mg/Kg		106	58 - 133	3	25
1,2-Dibromoethane	0.0500	0.04903		mg/Kg		98	73 - 130	0	25

# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-57368/4**  
**Matrix: Solid**  
**Analysis Batch: 57368**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene	0.0500	0.04759		mg/Kg		95	84 - 130	3	25
1,2-Dichloroethane	0.0500	0.04143		mg/Kg		83	70 - 130	2	25
1,2-Dichloropropane	0.0500	0.04700		mg/Kg		94	75 - 130	0	25
1,3,5-Trimethylbenzene	0.0500	0.05008		mg/Kg		100	61 - 160	3	25
1,3-Dichlorobenzene	0.0500	0.04747		mg/Kg		95	84 - 130	4	25
1,3-Dichloropropane	0.0500	0.04885		mg/Kg		98	82 - 131	0	25
1,4-Dichlorobenzene	0.0500	0.04598		mg/Kg		92	82 - 130	3	25
2,2-Dichloropropane	0.0500	0.05124		mg/Kg		102	67 - 137	0	25
2-Butanone	0.250	0.2914		mg/Kg		117	75 - 130	1	25
4-Chlorotoluene	0.0500	0.04928		mg/Kg		99	83 - 130	2	25
Benzene	0.0500	0.04530		mg/Kg		91	66 - 142	0	25
Bromobenzene	0.0500	0.04715		mg/Kg		94	75 - 130	3	25
Bromochloromethane	0.0500	0.04357		mg/Kg		87	71 - 130	0	25
Bromodichloromethane	0.0500	0.04739		mg/Kg		95	78 - 130	0	25
Bromoform	0.0500	0.04864		mg/Kg		97	63 - 136	1	25
Bromomethane	0.0500	0.03586		mg/Kg		72	60 - 140	6	25
Carbon tetrachloride	0.0500	0.04508		mg/Kg		90	63 - 135	2	25
Chlorobenzene	0.0500	0.04541		mg/Kg		91	83 - 130	2	25
Chloroethane	0.0500	0.05536		mg/Kg		111	57 - 130	6	25
Chloroform	0.0500	0.04656		mg/Kg		93	74 - 130	2	25
Chloromethane	0.0500	0.05228		mg/Kg		105	58 - 130	8	25
Dibromochloromethane	0.0500	0.04977		mg/Kg		100	77 - 130	0	25
Dichlorodifluoromethane	0.0500	0.05388		mg/Kg		108	54 - 130	3	25
Ethylbenzene	0.0500	0.04936		mg/Kg		99	80 - 130	1	25
Hexachlorobutadiene	0.0500	0.04964		mg/Kg		99	77 - 130	7	25
MTBE	0.0500	0.05145		mg/Kg		103	64 - 148	2	25
Methylene Chloride	0.0500	0.04270		mg/Kg		85	57 - 134	2	25
Naphthalene	0.0500	0.05912		mg/Kg		118	53 - 150	3	25
sec-Butylbenzene	0.0500	0.05384		mg/Kg		108	84 - 131	5	25
Styrene	0.0500	0.05119		mg/Kg		102	80 - 130	1	25
Tetrachloroethene	0.0500	0.04382		mg/Kg		88	79 - 130	1	25
Toluene	0.0500	0.04733		mg/Kg		95	74 - 130	1	25
Trichloroethene	0.0500	0.04290		mg/Kg		86	78 - 130	3	25
Trichlorofluoromethane	0.0500	0.07115		mg/Kg		142	71 - 148	3	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94	U	56 - 150
4-Bromofluorobenzene (Surr)	112	U	68 - 152
Dibromofluoromethane (Surr)	103	U	53 - 142
Toluene-d8 (Surr)	104	U	70 - 130

**Lab Sample ID: MB 860-57579/9**  
**Matrix: Solid**  
**Analysis Batch: 57579**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.000985	U	0.00200	0.000985	mg/Kg			06/20/22 12:24	1
m,p-Xylenes	<0.000800	U	0.00200	0.000800	mg/Kg			06/20/22 12:24	1

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-57579/9**  
**Matrix: Solid**  
**Analysis Batch: 57579**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
o-Xylene	<0.000985	U	0.00100	0.000985	mg/Kg			06/20/22 12:24	1
Benzene	<0.000207	U	0.00100	0.000207	mg/Kg			06/20/22 12:24	1
Ethylbenzene	<0.000336	U	0.00100	0.000336	mg/Kg			06/20/22 12:24	1
MTBE	<0.000409	U	0.00500	0.000409	mg/Kg			06/20/22 12:24	1
Toluene	<0.00100	U	0.00500	0.00100	mg/Kg			06/20/22 12:24	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	113		56 - 150		06/20/22 12:24	1
4-Bromofluorobenzene (Surr)	97		68 - 152		06/20/22 12:24	1
Dibromofluoromethane (Surr)	100		53 - 142		06/20/22 12:24	1
Toluene-d8 (Surr)	95		70 - 130		06/20/22 12:24	1

**Lab Sample ID: LCS 860-57579/3**  
**Matrix: Solid**  
**Analysis Batch: 57579**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
m,p-Xylenes	0.0500	0.05116		mg/Kg		102	78 - 130
o-Xylene	0.0500	0.05163		mg/Kg		103	79 - 130
Benzene	0.0500	0.04779		mg/Kg		96	66 - 142
Ethylbenzene	0.0500	0.05033		mg/Kg		101	80 - 130
MTBE	0.0500	0.05150		mg/Kg		103	64 - 148
Toluene	0.0500	0.04834		mg/Kg		97	74 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	104		56 - 150
4-Bromofluorobenzene (Surr)	98		68 - 152
Dibromofluoromethane (Surr)	103		53 - 142
Toluene-d8 (Surr)	100		70 - 130

**Lab Sample ID: LCSD 860-57579/4**  
**Matrix: Solid**  
**Analysis Batch: 57579**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
m,p-Xylenes	0.0500	0.05094		mg/Kg		102	78 - 130	0	25
o-Xylene	0.0500	0.05211		mg/Kg		104	79 - 130	1	25
Benzene	0.0500	0.04798		mg/Kg		96	66 - 142	0	25
Ethylbenzene	0.0500	0.05115		mg/Kg		102	80 - 130	2	25
MTBE	0.0500	0.05126		mg/Kg		103	64 - 148	0	25
Toluene	0.0500	0.04844		mg/Kg		97	74 - 130	0	25

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		56 - 150
4-Bromofluorobenzene (Surr)	98		68 - 152
Dibromofluoromethane (Surr)	101		53 - 142
Toluene-d8 (Surr)	99		70 - 130

# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-57615/10**  
**Matrix: Solid**  
**Analysis Batch: 57615**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.000301	U	0.00500	0.000301	mg/Kg			06/20/22 14:32	1
Xylenes, Total	<0.000985	U	0.00200	0.000985	mg/Kg			06/20/22 14:32	1
cis-1,3-Dichloropropene	<0.000230	U	0.00500	0.000230	mg/Kg			06/20/22 14:32	1
Isopropylbenzene	<0.000174	U	0.00500	0.000174	mg/Kg			06/20/22 14:32	1
m,p-Xylenes	<0.000800	U	0.00200	0.000800	mg/Kg			06/20/22 14:32	1
n-Butylbenzene	<0.000274	U	0.00500	0.000274	mg/Kg			06/20/22 14:32	1
N-Propylbenzene	<0.000286	U	0.00500	0.000286	mg/Kg			06/20/22 14:32	1
o-Xylene	<0.000985	U	0.00100	0.000985	mg/Kg			06/20/22 14:32	1
p-Cymene (p-Isopropyltoluene)	<0.000319	U	0.00500	0.000319	mg/Kg			06/20/22 14:32	1
tert-Butylbenzene	<0.00128	U	0.00500	0.00128	mg/Kg			06/20/22 14:32	1
trans-1,2-Dichloroethene	<0.000434	U	0.00500	0.000434	mg/Kg			06/20/22 14:32	1
trans-1,3-Dichloropropene	<0.000909	U	0.00500	0.000909	mg/Kg			06/20/22 14:32	1
Vinyl chloride	<0.000441	U	0.00500	0.000441	mg/Kg			06/20/22 14:32	1
1,1,1,2-Tetrachloroethane	<0.000267	U	0.00500	0.000267	mg/Kg			06/20/22 14:32	1
1,1,1-Trichloroethane	<0.000503	U	0.00500	0.000503	mg/Kg			06/20/22 14:32	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00500	0.000470	mg/Kg			06/20/22 14:32	1
1,1,2-Trichloroethane	<0.000392	U	0.00500	0.000392	mg/Kg			06/20/22 14:32	1
1,1-Dichloroethane	<0.000376	U	0.00500	0.000376	mg/Kg			06/20/22 14:32	1
1,1-Dichloroethene	<0.000277	U	0.00500	0.000277	mg/Kg			06/20/22 14:32	1
1,1-Dichloropropene	<0.000448	U	0.00500	0.000448	mg/Kg			06/20/22 14:32	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/Kg			06/20/22 14:32	1
1,2,3-Trichloropropane	<0.000450	U	0.00500	0.000450	mg/Kg			06/20/22 14:32	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/Kg			06/20/22 14:32	1
1,2,4-Trimethylbenzene	<0.000255	U	0.00500	0.000255	mg/Kg			06/20/22 14:32	1
1,2-Dibromo-3-Chloropropane	<0.000704	U	0.00500	0.000704	mg/Kg			06/20/22 14:32	1
1,2-Dibromoethane	<0.00104	U	0.00500	0.00104	mg/Kg			06/20/22 14:32	1
1,2-Dichlorobenzene	<0.000288	U	0.00500	0.000288	mg/Kg			06/20/22 14:32	1
1,2-Dichloroethane	<0.000304	U	0.00500	0.000304	mg/Kg			06/20/22 14:32	1
1,2-Dichloropropane	<0.000198	U	0.00500	0.000198	mg/Kg			06/20/22 14:32	1
1,3,5-Trimethylbenzene	<0.000289	U	0.00500	0.000289	mg/Kg			06/20/22 14:32	1
1,3-Dichlorobenzene	<0.000273	U	0.00500	0.000273	mg/Kg			06/20/22 14:32	1
1,3-Dichloropropane	<0.000409	U	0.00500	0.000409	mg/Kg			06/20/22 14:32	1
1,4-Dichlorobenzene	<0.000214	U	0.00500	0.000214	mg/Kg			06/20/22 14:32	1
2,2-Dichloropropane	<0.000524	U	0.00500	0.000524	mg/Kg			06/20/22 14:32	1
2-Butanone	<0.00365	U	0.0200	0.00365	mg/Kg			06/20/22 14:32	1
4-Chlorotoluene	<0.000264	U	0.00500	0.000264	mg/Kg			06/20/22 14:32	1
Benzene	<0.000207	U	0.00100	0.000207	mg/Kg			06/20/22 14:32	1
Bromobenzene	<0.000346	U	0.00500	0.000346	mg/Kg			06/20/22 14:32	1
Bromochloromethane	<0.000526	U	0.00500	0.000526	mg/Kg			06/20/22 14:32	1
Bromodichloromethane	<0.000251	U	0.00500	0.000251	mg/Kg			06/20/22 14:32	1
Bromoform	<0.00103	U	0.00500	0.00103	mg/Kg			06/20/22 14:32	1
Bromomethane	<0.000943	U	0.00500	0.000943	mg/Kg			06/20/22 14:32	1
Carbon tetrachloride	<0.00164	U	0.00500	0.00164	mg/Kg			06/20/22 14:32	1
Chlorobenzene	<0.000237	U	0.00500	0.000237	mg/Kg			06/20/22 14:32	1
Chloroethane	<0.000444	U	0.0100	0.000444	mg/Kg			06/20/22 14:32	1
Chloroform	<0.000173	U	0.00500	0.000173	mg/Kg			06/20/22 14:32	1
Chloromethane	<0.000431	U	0.00500	0.000431	mg/Kg			06/20/22 14:32	1
Dibromochloromethane	<0.000895	U	0.00500	0.000895	mg/Kg			06/20/22 14:32	1

# QC Sample Results

Client: ESSCO Environmental, Inc.  
 Project/Site: B&C -22-01

Job ID: 830-1995-1  
 SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-57615/10**  
**Matrix: Solid**  
**Analysis Batch: 57615**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dichlorodifluoromethane	<0.00111	U	0.00500	0.00111	mg/Kg			06/20/22 14:32	1
Ethylbenzene	<0.000336	U	0.00100	0.000336	mg/Kg			06/20/22 14:32	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/Kg			06/20/22 14:32	1
MTBE	<0.000409	U	0.00500	0.000409	mg/Kg			06/20/22 14:32	1
Methylene Chloride	<0.00422	U	0.0200	0.00422	mg/Kg			06/20/22 14:32	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/Kg			06/20/22 14:32	1
sec-Butylbenzene	<0.000261	U	0.00500	0.000261	mg/Kg			06/20/22 14:32	1
Styrene	<0.000205	U	0.00500	0.000205	mg/Kg			06/20/22 14:32	1
Tetrachloroethene	<0.000370	U	0.00500	0.000370	mg/Kg			06/20/22 14:32	1
Toluene	<0.00100	U	0.00500	0.00100	mg/Kg			06/20/22 14:32	1
Trichloroethene	<0.000494	U	0.00500	0.000494	mg/Kg			06/20/22 14:32	1
Trichlorofluoromethane	<0.000307	U	0.00500	0.000307	mg/Kg			06/20/22 14:32	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	114		56 - 150		06/20/22 14:32	1
4-Bromofluorobenzene (Surr)	100		68 - 152		06/20/22 14:32	1
Dibromofluoromethane (Surr)	101		53 - 142		06/20/22 14:32	1
Toluene-d8 (Surr)	100		70 - 130		06/20/22 14:32	1

**Lab Sample ID: LCS 860-57615/3**  
**Matrix: Solid**  
**Analysis Batch: 57615**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	0.0500	0.05758		mg/Kg		115	74 - 135
Isopropylbenzene	0.0500	0.05563		mg/Kg		111	55 - 155
m,p-Xylenes	0.0500	0.05233		mg/Kg		105	78 - 130
n-Butylbenzene	0.0500	0.05726		mg/Kg		115	82 - 130
N-Propylbenzene	0.0500	0.05692		mg/Kg		114	84 - 131
o-Xylene	0.0500	0.05352		mg/Kg		107	79 - 130
p-Cymene (p-Isopropyltoluene)	0.0500	0.05558		mg/Kg		111	84 - 130
tert-Butylbenzene	0.0500	0.05608		mg/Kg		112	83 - 132
trans-1,2-Dichloroethene	0.0500	0.04894		mg/Kg		98	63 - 130
trans-1,3-Dichloropropene	0.0500	0.05568		mg/Kg		111	73 - 130
Vinyl chloride	0.0500	0.04806		mg/Kg		96	60 - 130
1,1,1,2-Tetrachloroethane	0.0500	0.05585		mg/Kg		112	81 - 130
1,1,1-Trichloroethane	0.0500	0.05591		mg/Kg		112	71 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.05625		mg/Kg		113	75 - 133
1,1,2-Trichloroethane	0.0500	0.05510		mg/Kg		110	75 - 131
1,1-Dichloroethane	0.0500	0.05391		mg/Kg		108	73 - 130
1,1-Dichloroethene	0.0500	0.04805		mg/Kg		96	68 - 130
1,1-Dichloropropene	0.0500	0.05258		mg/Kg		105	72 - 130
1,2,3-Trichlorobenzene	0.0500	0.05159		mg/Kg		103	75 - 131
1,2,3-Trichloropropane	0.0500	0.05657		mg/Kg		113	75 - 131
1,2,4-Trichlorobenzene	0.0500	0.05236		mg/Kg		105	79 - 130
1,2,4-Trimethylbenzene	0.0500	0.05614		mg/Kg		112	60 - 159
1,2-Dibromo-3-Chloropropane	0.0500	0.05083		mg/Kg		102	58 - 133

# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-57615/3**  
**Matrix: Solid**  
**Analysis Batch: 57615**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane	0.0500	0.05007		mg/Kg		100	73 - 130
1,2-Dichlorobenzene	0.0500	0.05037		mg/Kg		101	84 - 130
1,2-Dichloroethane	0.0500	0.05752		mg/Kg		115	70 - 130
1,2-Dichloropropane	0.0500	0.05621		mg/Kg		112	75 - 130
1,3,5-Trimethylbenzene	0.0500	0.05506		mg/Kg		110	61 - 160
1,3-Dichlorobenzene	0.0500	0.05184		mg/Kg		104	84 - 130
1,3-Dichloropropane	0.0500	0.05533		mg/Kg		111	82 - 131
1,4-Dichlorobenzene	0.0500	0.05169		mg/Kg		103	82 - 130
2,2-Dichloropropane	0.0500	0.05706		mg/Kg		114	67 - 137
2-Butanone	0.250	0.2807		mg/Kg		112	75 - 130
4-Chlorotoluene	0.0500	0.05568		mg/Kg		111	83 - 130
Benzene	0.0500	0.05298		mg/Kg		106	66 - 142
Bromobenzene	0.0500	0.05164		mg/Kg		103	75 - 130
Bromochloromethane	0.0500	0.05240		mg/Kg		105	71 - 130
Bromodichloromethane	0.0500	0.05797		mg/Kg		116	78 - 130
Bromoform	0.0500	0.05761		mg/Kg		115	63 - 136
Bromomethane	0.0500	0.05633		mg/Kg		113	60 - 140
Carbon tetrachloride	0.0500	0.05222		mg/Kg		104	63 - 135
Chlorobenzene	0.0500	0.05072		mg/Kg		101	83 - 130
Chloroethane	0.0500	0.06010		mg/Kg		120	57 - 130
Chloroform	0.0500	0.05663		mg/Kg		113	74 - 130
Chloromethane	0.0500	0.04612		mg/Kg		92	58 - 130
Dibromochloromethane	0.0500	0.05319		mg/Kg		106	77 - 130
Dichlorodifluoromethane	0.0500	0.04440		mg/Kg		89	54 - 130
Ethylbenzene	0.0500	0.05412		mg/Kg		108	80 - 130
Hexachlorobutadiene	0.0500	0.05349		mg/Kg		107	77 - 130
MTBE	0.0500	0.05570		mg/Kg		111	64 - 148
Methylene Chloride	0.0500	0.04877		mg/Kg		98	57 - 134
Naphthalene	0.0500	0.05359		mg/Kg		107	53 - 150
sec-Butylbenzene	0.0500	0.05674		mg/Kg		113	84 - 131
Styrene	0.0500	0.05262		mg/Kg		105	80 - 130
Tetrachloroethene	0.0500	0.04774		mg/Kg		95	79 - 130
Toluene	0.0500	0.05116		mg/Kg		102	74 - 130
Trichloroethene	0.0500	0.05088		mg/Kg		102	78 - 130
Trichlorofluoromethane	0.0500	0.05381		mg/Kg		108	71 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		56 - 150
4-Bromofluorobenzene (Surr)	107		68 - 152
Dibromofluoromethane (Surr)	100		53 - 142
Toluene-d8 (Surr)	102		70 - 130

**Lab Sample ID: LCSD 860-57615/4**  
**Matrix: Solid**  
**Analysis Batch: 57615**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	0.0500	0.05313		mg/Kg		106	72 - 131	2	25

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-57615/4**  
**Matrix: Solid**  
**Analysis Batch: 57615**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	0.0500	0.05330		mg/Kg		107	74 - 135	8	25
Isopropylbenzene	0.0500	0.05210		mg/Kg		104	55 - 155	7	25
m,p-Xylenes	0.0500	0.04903		mg/Kg		98	78 - 130	7	25
n-Butylbenzene	0.0500	0.05441		mg/Kg		109	82 - 130	5	25
N-Propylbenzene	0.0500	0.05472		mg/Kg		109	84 - 131	4	25
o-Xylene	0.0500	0.05027		mg/Kg		101	79 - 130	6	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05275		mg/Kg		106	84 - 130	5	25
tert-Butylbenzene	0.0500	0.05290		mg/Kg		106	83 - 132	6	25
trans-1,2-Dichloroethene	0.0500	0.04699		mg/Kg		94	63 - 130	4	25
trans-1,3-Dichloropropene	0.0500	0.05220		mg/Kg		104	73 - 130	6	25
Vinyl chloride	0.0500	0.05747		mg/Kg		115	60 - 130	18	25
1,1,1,2-Tetrachloroethane	0.0500	0.05210		mg/Kg		104	81 - 130	7	25
1,1,1-Trichloroethane	0.0500	0.05310		mg/Kg		106	71 - 130	5	25
1,1,2,2-Tetrachloroethane	0.0500	0.05628		mg/Kg		113	75 - 133	0	25
1,1,2-Trichloroethane	0.0500	0.05382		mg/Kg		108	75 - 131	2	25
1,1-Dichloroethane	0.0500	0.05179		mg/Kg		104	73 - 130	4	25
1,1-Dichloroethene	0.0500	0.04593		mg/Kg		92	68 - 130	5	25
1,1-Dichloropropene	0.0500	0.05035		mg/Kg		101	72 - 130	4	25
1,2,3-Trichlorobenzene	0.0500	0.05033		mg/Kg		101	75 - 131	2	25
1,2,3-Trichloropropane	0.0500	0.05529		mg/Kg		111	75 - 131	2	25
1,2,4-Trichlorobenzene	0.0500	0.05019		mg/Kg		100	79 - 130	4	25
1,2,4-Trimethylbenzene	0.0500	0.05315		mg/Kg		106	60 - 159	5	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05008		mg/Kg		100	58 - 133	1	25
1,2-Dibromoethane	0.0500	0.04845		mg/Kg		97	73 - 130	3	25
1,2-Dichlorobenzene	0.0500	0.04811		mg/Kg		96	84 - 130	5	25
1,2-Dichloroethane	0.0500	0.05563		mg/Kg		111	70 - 130	3	25
1,2-Dichloropropane	0.0500	0.05336		mg/Kg		107	75 - 130	5	25
1,3,5-Trimethylbenzene	0.0500	0.05191		mg/Kg		104	61 - 160	6	25
1,3-Dichlorobenzene	0.0500	0.04932		mg/Kg		99	84 - 130	5	25
1,3-Dichloropropane	0.0500	0.05280		mg/Kg		106	82 - 131	5	25
1,4-Dichlorobenzene	0.0500	0.04855		mg/Kg		97	82 - 130	6	25
2,2-Dichloropropane	0.0500	0.05578		mg/Kg		112	67 - 137	2	25
2-Butanone	0.250	0.2966		mg/Kg		119	75 - 130	6	25
4-Chlorotoluene	0.0500	0.05324		mg/Kg		106	83 - 130	4	25
Benzene	0.0500	0.05047		mg/Kg		101	66 - 142	5	25
Bromobenzene	0.0500	0.04846		mg/Kg		97	75 - 130	6	25
Bromochloromethane	0.0500	0.04995		mg/Kg		100	71 - 130	5	25
Bromodichloromethane	0.0500	0.05461		mg/Kg		109	78 - 130	6	25
Bromoform	0.0500	0.05380		mg/Kg		108	63 - 136	7	25
Bromomethane	0.0500	0.06669		mg/Kg		133	60 - 140	17	25
Carbon tetrachloride	0.0500	0.04967		mg/Kg		99	63 - 135	5	25
Chlorobenzene	0.0500	0.04831		mg/Kg		97	83 - 130	5	25
Chloroethane	0.0500	0.06932	*+	mg/Kg		139	57 - 130	14	25
Chloroform	0.0500	0.05398		mg/Kg		108	74 - 130	5	25
Chloromethane	0.0500	0.05280		mg/Kg		106	58 - 130	14	25
Dibromochloromethane	0.0500	0.05090		mg/Kg		102	77 - 130	4	25
Dichlorodifluoromethane	0.0500	0.05302		mg/Kg		106	54 - 130	18	25
Ethylbenzene	0.0500	0.05097		mg/Kg		102	80 - 130	6	25
Hexachlorobutadiene	0.0500	0.04901		mg/Kg		98	77 - 130	9	25

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-57615/4**  
**Matrix: Solid**  
**Analysis Batch: 57615**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
MTBE	0.0500	0.05525		mg/Kg		110	64 - 148	1	25
Methylene Chloride	0.0500	0.04665		mg/Kg		93	57 - 134	4	25
Naphthalene	0.0500	0.05316		mg/Kg		106	53 - 150	1	25
sec-Butylbenzene	0.0500	0.05371		mg/Kg		107	84 - 131	5	25
Styrene	0.0500	0.05025		mg/Kg		100	80 - 130	5	25
Tetrachloroethene	0.0500	0.04653		mg/Kg		93	79 - 130	3	25
Toluene	0.0500	0.04846		mg/Kg		97	74 - 130	5	25
Trichloroethene	0.0500	0.04823		mg/Kg		96	78 - 130	5	25
Trichlorofluoromethane	0.0500	0.06161		mg/Kg		123	71 - 148	14	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	112		56 - 150
4-Bromofluorobenzene (Surr)	107		68 - 152
Dibromofluoromethane (Surr)	100		53 - 142
Toluene-d8 (Surr)	100		70 - 130

**Lab Sample ID: MB 860-57798/8**  
**Matrix: Solid**  
**Analysis Batch: 57798**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.000301	U	0.00500	0.000301	mg/Kg			06/21/22 16:11	1
Xylenes, Total	<0.000985	U	0.00200	0.000985	mg/Kg			06/21/22 16:11	1
cis-1,3-Dichloropropene	<0.000230	U	0.00500	0.000230	mg/Kg			06/21/22 16:11	1
Isopropylbenzene	<0.000174	U	0.00500	0.000174	mg/Kg			06/21/22 16:11	1
m,p-Xylenes	<0.000800	U	0.00200	0.000800	mg/Kg			06/21/22 16:11	1
n-Butylbenzene	<0.000274	U	0.00500	0.000274	mg/Kg			06/21/22 16:11	1
N-Propylbenzene	<0.000286	U	0.00500	0.000286	mg/Kg			06/21/22 16:11	1
o-Xylene	<0.000985	U	0.00100	0.000985	mg/Kg			06/21/22 16:11	1
p-Cymene (p-Isopropyltoluene)	<0.000319	U	0.00500	0.000319	mg/Kg			06/21/22 16:11	1
tert-Butylbenzene	<0.00128	U	0.00500	0.00128	mg/Kg			06/21/22 16:11	1
trans-1,2-Dichloroethene	<0.000434	U	0.00500	0.000434	mg/Kg			06/21/22 16:11	1
trans-1,3-Dichloropropene	<0.000909	U	0.00500	0.000909	mg/Kg			06/21/22 16:11	1
Vinyl chloride	<0.000441	U	0.00500	0.000441	mg/Kg			06/21/22 16:11	1
1,1,1,2-Tetrachloroethane	<0.000267	U	0.00500	0.000267	mg/Kg			06/21/22 16:11	1
1,1,1-Trichloroethane	<0.000503	U	0.00500	0.000503	mg/Kg			06/21/22 16:11	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00500	0.000470	mg/Kg			06/21/22 16:11	1
1,1,2-Trichloroethane	<0.000392	U	0.00500	0.000392	mg/Kg			06/21/22 16:11	1
1,1-Dichloroethane	<0.000376	U	0.00500	0.000376	mg/Kg			06/21/22 16:11	1
1,1-Dichloroethene	<0.000277	U	0.00500	0.000277	mg/Kg			06/21/22 16:11	1
1,1-Dichloropropene	<0.000448	U	0.00500	0.000448	mg/Kg			06/21/22 16:11	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/Kg			06/21/22 16:11	1
1,2,3-Trichloropropane	<0.000450	U	0.00500	0.000450	mg/Kg			06/21/22 16:11	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/Kg			06/21/22 16:11	1
1,2,4-Trimethylbenzene	<0.000255	U	0.00500	0.000255	mg/Kg			06/21/22 16:11	1
1,2-Dibromo-3-Chloropropane	<0.000704	U	0.00500	0.000704	mg/Kg			06/21/22 16:11	1
1,2-Dibromoethane	<0.00104	U	0.00500	0.00104	mg/Kg			06/21/22 16:11	1
1,2-Dichlorobenzene	<0.000288	U	0.00500	0.000288	mg/Kg			06/21/22 16:11	1

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-57798/8**  
**Matrix: Solid**  
**Analysis Batch: 57798**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.000304	U	0.00500	0.000304	mg/Kg			06/21/22 16:11	1
1,2-Dichloropropane	<0.000198	U	0.00500	0.000198	mg/Kg			06/21/22 16:11	1
1,3,5-Trimethylbenzene	<0.000289	U	0.00500	0.000289	mg/Kg			06/21/22 16:11	1
1,3-Dichlorobenzene	<0.000273	U	0.00500	0.000273	mg/Kg			06/21/22 16:11	1
1,3-Dichloropropane	<0.000409	U	0.00500	0.000409	mg/Kg			06/21/22 16:11	1
1,4-Dichlorobenzene	<0.000214	U	0.00500	0.000214	mg/Kg			06/21/22 16:11	1
2,2-Dichloropropane	<0.000524	U	0.00500	0.000524	mg/Kg			06/21/22 16:11	1
2-Butanone	<0.00365	U	0.0200	0.00365	mg/Kg			06/21/22 16:11	1
4-Chlorotoluene	<0.000264	U	0.00500	0.000264	mg/Kg			06/21/22 16:11	1
Benzene	<0.000207	U	0.00100	0.000207	mg/Kg			06/21/22 16:11	1
Bromobenzene	<0.000346	U	0.00500	0.000346	mg/Kg			06/21/22 16:11	1
Bromochloromethane	<0.000526	U	0.00500	0.000526	mg/Kg			06/21/22 16:11	1
Bromodichloromethane	<0.000251	U	0.00500	0.000251	mg/Kg			06/21/22 16:11	1
Bromoform	<0.00103	U	0.00500	0.00103	mg/Kg			06/21/22 16:11	1
Bromomethane	<0.000943	U	0.00500	0.000943	mg/Kg			06/21/22 16:11	1
Carbon tetrachloride	<0.00164	U	0.00500	0.00164	mg/Kg			06/21/22 16:11	1
Chlorobenzene	<0.000237	U	0.00500	0.000237	mg/Kg			06/21/22 16:11	1
Chloroethane	<0.000444	U	0.0100	0.000444	mg/Kg			06/21/22 16:11	1
Chloroform	<0.000173	U	0.00500	0.000173	mg/Kg			06/21/22 16:11	1
Chloromethane	<0.000431	U	0.00500	0.000431	mg/Kg			06/21/22 16:11	1
Dibromochloromethane	<0.000895	U	0.00500	0.000895	mg/Kg			06/21/22 16:11	1
Dichlorodifluoromethane	<0.00111	U	0.00500	0.00111	mg/Kg			06/21/22 16:11	1
Ethylbenzene	<0.000336	U	0.00100	0.000336	mg/Kg			06/21/22 16:11	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/Kg			06/21/22 16:11	1
MTBE	<0.000409	U	0.00500	0.000409	mg/Kg			06/21/22 16:11	1
Methylene Chloride	<0.00422	U	0.0200	0.00422	mg/Kg			06/21/22 16:11	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/Kg			06/21/22 16:11	1
sec-Butylbenzene	<0.000261	U	0.00500	0.000261	mg/Kg			06/21/22 16:11	1
Styrene	<0.000205	U	0.00500	0.000205	mg/Kg			06/21/22 16:11	1
Tetrachloroethene	<0.000370	U	0.00500	0.000370	mg/Kg			06/21/22 16:11	1
Toluene	<0.00100	U	0.00500	0.00100	mg/Kg			06/21/22 16:11	1
Trichloroethene	<0.000494	U	0.00500	0.000494	mg/Kg			06/21/22 16:11	1
Trichlorofluoromethane	<0.000307	U	0.00500	0.000307	mg/Kg			06/21/22 16:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		56 - 150		06/21/22 16:11	1
4-Bromofluorobenzene (Surr)	103		68 - 152		06/21/22 16:11	1
Dibromofluoromethane (Surr)	111		53 - 142		06/21/22 16:11	1
Toluene-d8 (Surr)	99		70 - 130		06/21/22 16:11	1

**Lab Sample ID: LCS 860-57798/3**  
**Matrix: Solid**  
**Analysis Batch: 57798**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	0.0500	0.05558		mg/Kg		111	72 - 131
cis-1,3-Dichloropropene	0.0500	0.05152		mg/Kg		103	74 - 135
Isopropylbenzene	0.0500	0.04949		mg/Kg		99	55 - 155

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-57798/3**  
**Matrix: Solid**  
**Analysis Batch: 57798**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	0.0500	0.04766		mg/Kg		95	78 - 130
n-Butylbenzene	0.0500	0.05570		mg/Kg		111	82 - 130
N-Propylbenzene	0.0500	0.05382		mg/Kg		108	84 - 131
o-Xylene	0.0500	0.04913		mg/Kg		98	79 - 130
p-Cymene (p-Isopropyltoluene)	0.0500	0.05337		mg/Kg		107	84 - 130
tert-Butylbenzene	0.0500	0.05348		mg/Kg		107	83 - 132
trans-1,2-Dichloroethene	0.0500	0.04751		mg/Kg		95	63 - 130
trans-1,3-Dichloropropene	0.0500	0.05190		mg/Kg		104	73 - 130
Vinyl chloride	0.0500	0.05939		mg/Kg		119	60 - 130
1,1,1,2-Tetrachloroethane	0.0500	0.05005		mg/Kg		100	81 - 130
1,1,1-Trichloroethane	0.0500	0.05574		mg/Kg		111	71 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.05891		mg/Kg		118	75 - 133
1,1,2-Trichloroethane	0.0500	0.05505		mg/Kg		110	75 - 131
1,1-Dichloroethane	0.0500	0.05309		mg/Kg		106	73 - 130
1,1-Dichloroethene	0.0500	0.04602		mg/Kg		92	68 - 130
1,1-Dichloropropene	0.0500	0.05286		mg/Kg		106	72 - 130
1,2,3-Trichlorobenzene	0.0500	0.04686		mg/Kg		94	75 - 131
1,2,3-Trichloropropane	0.0500	0.06002		mg/Kg		120	75 - 131
1,2,4-Trichlorobenzene	0.0500	0.04393		mg/Kg		88	79 - 130
1,2,4-Trimethylbenzene	0.0500	0.05357		mg/Kg		107	60 - 159
1,2-Dibromo-3-Chloropropane	0.0500	0.04804		mg/Kg		96	58 - 133
1,2-Dibromoethane	0.0500	0.05020		mg/Kg		100	73 - 130
1,2-Dichlorobenzene	0.0500	0.04711		mg/Kg		94	84 - 130
1,2-Dichloroethane	0.0500	0.05401		mg/Kg		108	70 - 130
1,2-Dichloropropane	0.0500	0.05195		mg/Kg		104	75 - 130
1,3,5-Trimethylbenzene	0.0500	0.05251		mg/Kg		105	61 - 160
1,3-Dichlorobenzene	0.0500	0.04795		mg/Kg		96	84 - 130
1,3-Dichloropropane	0.0500	0.05237		mg/Kg		105	82 - 131
1,4-Dichlorobenzene	0.0500	0.04738		mg/Kg		95	82 - 130
2,2-Dichloropropane	0.0500	0.05749		mg/Kg		115	67 - 137
2-Butanone	0.250	0.3256		mg/Kg		130	75 - 130
4-Chlorotoluene	0.0500	0.05400		mg/Kg		108	83 - 130
Benzene	0.0500	0.04815		mg/Kg		96	66 - 142
Bromobenzene	0.0500	0.04792		mg/Kg		96	75 - 130
Bromochloromethane	0.0500	0.05080		mg/Kg		102	71 - 130
Bromodichloromethane	0.0500	0.05428		mg/Kg		109	78 - 130
Bromoform	0.0500	0.04911		mg/Kg		98	63 - 136
Bromomethane	0.0500	0.07152	*+	mg/Kg		143	60 - 140
Carbon tetrachloride	0.0500	0.05172		mg/Kg		103	63 - 135
Chlorobenzene	0.0500	0.04725		mg/Kg		94	83 - 130
Chloroethane	0.0500	0.07245	*+	mg/Kg		145	57 - 130
Chloroform	0.0500	0.05813		mg/Kg		116	74 - 130
Chloromethane	0.0500	0.05463		mg/Kg		109	58 - 130
Dibromochloromethane	0.0500	0.05007		mg/Kg		100	77 - 130
Dichlorodifluoromethane	0.0500	0.05011		mg/Kg		100	54 - 130
Ethylbenzene	0.0500	0.04972		mg/Kg		99	80 - 130
Hexachlorobutadiene	0.0500	0.03845		mg/Kg		77	77 - 130
MTBE	0.0500	0.06008		mg/Kg		120	64 - 148
Methylene Chloride	0.0500	0.04775		mg/Kg		96	57 - 134

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-57798/3  
Matrix: Solid  
Analysis Batch: 57798

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	0.0500	0.05491		mg/Kg		110	53 - 150
sec-Butylbenzene	0.0500	0.05351		mg/Kg		107	84 - 131
Styrene	0.0500	0.04923		mg/Kg		98	80 - 130
Tetrachloroethene	0.0500	0.04174		mg/Kg		83	79 - 130
Toluene	0.0500	0.04746		mg/Kg		95	74 - 130
Trichloroethene	0.0500	0.04469		mg/Kg		89	78 - 130
Trichlorofluoromethane	0.0500	0.06726		mg/Kg		135	71 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		56 - 150
4-Bromofluorobenzene (Surr)	115		68 - 152
Dibromofluoromethane (Surr)	112		53 - 142
Toluene-d8 (Surr)	103		70 - 130

Lab Sample ID: LCSD 860-57798/4  
Matrix: Solid  
Analysis Batch: 57798

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	0.0500	0.05544		mg/Kg		111	72 - 131	0	25
cis-1,3-Dichloropropene	0.0500	0.05120		mg/Kg		102	74 - 135	1	25
Isopropylbenzene	0.0500	0.04861		mg/Kg		97	55 - 155	2	25
m,p-Xylenes	0.0500	0.04654		mg/Kg		93	78 - 130	2	25
n-Butylbenzene	0.0500	0.05423		mg/Kg		108	82 - 130	3	25
N-Propylbenzene	0.0500	0.05239		mg/Kg		105	84 - 131	3	25
o-Xylene	0.0500	0.04835		mg/Kg		97	79 - 130	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05207		mg/Kg		104	84 - 130	2	25
tert-Butylbenzene	0.0500	0.05210		mg/Kg		104	83 - 132	3	25
trans-1,2-Dichloroethene	0.0500	0.04507		mg/Kg		90	63 - 130	5	25
trans-1,3-Dichloropropene	0.0500	0.05104		mg/Kg		102	73 - 130	2	25
Vinyl chloride	0.0500	0.05955		mg/Kg		119	60 - 130	0	25
1,1,1,2-Tetrachloroethane	0.0500	0.05002		mg/Kg		100	81 - 130	0	25
1,1,1-Trichloroethane	0.0500	0.05624		mg/Kg		112	71 - 130	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.05868		mg/Kg		117	75 - 133	0	25
1,1,2-Trichloroethane	0.0500	0.05417		mg/Kg		108	75 - 131	2	25
1,1-Dichloroethane	0.0500	0.05287		mg/Kg		106	73 - 130	0	25
1,1-Dichloroethene	0.0500	0.04635		mg/Kg		93	68 - 130	1	25
1,1-Dichloropropene	0.0500	0.05217		mg/Kg		104	72 - 130	1	25
1,2,3-Trichlorobenzene	0.0500	0.04510		mg/Kg		90	75 - 131	4	25
1,2,3-Trichloropropane	0.0500	0.05872		mg/Kg		117	75 - 131	2	25
1,2,4-Trichlorobenzene	0.0500	0.04298		mg/Kg		86	79 - 130	2	25
1,2,4-Trimethylbenzene	0.0500	0.05265		mg/Kg		105	60 - 159	2	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04459		mg/Kg		89	58 - 133	7	25
1,2-Dibromoethane	0.0500	0.04869		mg/Kg		97	73 - 130	3	25
1,2-Dichlorobenzene	0.0500	0.04523		mg/Kg		90	84 - 130	4	25
1,2-Dichloroethane	0.0500	0.05340		mg/Kg		107	70 - 130	1	25
1,2-Dichloropropane	0.0500	0.05114		mg/Kg		102	75 - 130	2	25
1,3,5-Trimethylbenzene	0.0500	0.05118		mg/Kg		102	61 - 160	3	25

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-57798/4**  
**Matrix: Solid**  
**Analysis Batch: 57798**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,3-Dichlorobenzene	0.0500	0.04658		mg/Kg		93	84 - 130	3	25
1,3-Dichloropropane	0.0500	0.05102		mg/Kg		102	82 - 131	3	25
1,4-Dichlorobenzene	0.0500	0.04458		mg/Kg		89	82 - 130	6	25
2,2-Dichloropropane	0.0500	0.05752		mg/Kg		115	67 - 137	0	25
2-Butanone	0.250	0.3167		mg/Kg		127	75 - 130	3	25
4-Chlorotoluene	0.0500	0.05250		mg/Kg		105	83 - 130	3	25
Benzene	0.0500	0.04720		mg/Kg		94	66 - 142	2	25
Bromobenzene	0.0500	0.04505		mg/Kg		90	75 - 130	6	25
Bromochloromethane	0.0500	0.05087		mg/Kg		102	71 - 130	0	25
Bromodichloromethane	0.0500	0.05305		mg/Kg		106	78 - 130	2	25
Bromoform	0.0500	0.04829		mg/Kg		97	63 - 136	2	25
Bromomethane	0.0500	0.07511	*+	mg/Kg		150	60 - 140	5	25
Carbon tetrachloride	0.0500	0.05042		mg/Kg		101	63 - 135	3	25
Chlorobenzene	0.0500	0.04623		mg/Kg		92	83 - 130	2	25
Chloroethane	0.0500	0.07399	*+	mg/Kg		148	57 - 130	2	25
Chloroform	0.0500	0.05654		mg/Kg		113	74 - 130	3	25
Chloromethane	0.0500	0.05345		mg/Kg		107	58 - 130	2	25
Dibromochloromethane	0.0500	0.05200		mg/Kg		104	77 - 130	4	25
Dichlorodifluoromethane	0.0500	0.05164		mg/Kg		103	54 - 130	3	25
Ethylbenzene	0.0500	0.04859		mg/Kg		97	80 - 130	2	25
Hexachlorobutadiene	0.0500	0.03741	*-	mg/Kg		75	77 - 130	3	25
MTBE	0.0500	0.05830		mg/Kg		117	64 - 148	3	25
Methylene Chloride	0.0500	0.04989		mg/Kg		100	57 - 134	4	25
Naphthalene	0.0500	0.05380		mg/Kg		108	53 - 150	2	25
sec-Butylbenzene	0.0500	0.05192		mg/Kg		104	84 - 131	3	25
Styrene	0.0500	0.04811		mg/Kg		96	80 - 130	2	25
Tetrachloroethene	0.0500	0.04037		mg/Kg		81	79 - 130	3	25
Toluene	0.0500	0.04612		mg/Kg		92	74 - 130	3	25
Trichloroethene	0.0500	0.04363		mg/Kg		87	78 - 130	2	25
Trichlorofluoromethane	0.0500	0.06563		mg/Kg		131	71 - 148	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	110		56 - 150
4-Bromofluorobenzene (Surr)	113		68 - 152
Dibromofluoromethane (Surr)	111		53 - 142
Toluene-d8 (Surr)	101		70 - 130

**Lab Sample ID: MB 860-57800/8**  
**Matrix: Solid**  
**Analysis Batch: 57800**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.000301	U	0.00500	0.000301	mg/Kg			06/21/22 15:22	1
Xylenes, Total	<0.000985	U	0.00200	0.000985	mg/Kg			06/21/22 15:22	1
cis-1,3-Dichloropropene	<0.000230	U	0.00500	0.000230	mg/Kg			06/21/22 15:22	1
Isopropylbenzene	<0.000174	U	0.00500	0.000174	mg/Kg			06/21/22 15:22	1
m,p-Xylenes	<0.000800	U	0.00200	0.000800	mg/Kg			06/21/22 15:22	1
n-Butylbenzene	<0.000274	U	0.00500	0.000274	mg/Kg			06/21/22 15:22	1

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-57800/8**  
**Matrix: Solid**  
**Analysis Batch: 57800**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<0.000286	U	0.00500	0.000286	mg/Kg			06/21/22 15:22	1
o-Xylene	<0.000985	U	0.00100	0.000985	mg/Kg			06/21/22 15:22	1
p-Cymene (p-Isopropyltoluene)	<0.000319	U	0.00500	0.000319	mg/Kg			06/21/22 15:22	1
tert-Butylbenzene	<0.00128	U	0.00500	0.00128	mg/Kg			06/21/22 15:22	1
trans-1,2-Dichloroethene	<0.000434	U	0.00500	0.000434	mg/Kg			06/21/22 15:22	1
trans-1,3-Dichloropropene	<0.000909	U	0.00500	0.000909	mg/Kg			06/21/22 15:22	1
Vinyl chloride	<0.000441	U	0.00500	0.000441	mg/Kg			06/21/22 15:22	1
1,1,1,2-Tetrachloroethane	<0.000267	U	0.00500	0.000267	mg/Kg			06/21/22 15:22	1
1,1,1-Trichloroethane	<0.000503	U	0.00500	0.000503	mg/Kg			06/21/22 15:22	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00500	0.000470	mg/Kg			06/21/22 15:22	1
1,1,2-Trichloroethane	<0.000392	U	0.00500	0.000392	mg/Kg			06/21/22 15:22	1
1,1-Dichloroethane	<0.000376	U	0.00500	0.000376	mg/Kg			06/21/22 15:22	1
1,1-Dichloroethene	<0.000277	U	0.00500	0.000277	mg/Kg			06/21/22 15:22	1
1,1-Dichloropropene	<0.000448	U	0.00500	0.000448	mg/Kg			06/21/22 15:22	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/Kg			06/21/22 15:22	1
1,2,3-Trichloropropane	<0.000450	U	0.00500	0.000450	mg/Kg			06/21/22 15:22	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/Kg			06/21/22 15:22	1
1,2,4-Trimethylbenzene	<0.000255	U	0.00500	0.000255	mg/Kg			06/21/22 15:22	1
1,2-Dibromo-3-Chloropropane	<0.000704	U	0.00500	0.000704	mg/Kg			06/21/22 15:22	1
1,2-Dibromoethane	<0.00104	U	0.00500	0.00104	mg/Kg			06/21/22 15:22	1
1,2-Dichlorobenzene	<0.000288	U	0.00500	0.000288	mg/Kg			06/21/22 15:22	1
1,2-Dichloroethane	<0.000304	U	0.00500	0.000304	mg/Kg			06/21/22 15:22	1
1,2-Dichloropropane	<0.000198	U	0.00500	0.000198	mg/Kg			06/21/22 15:22	1
1,3,5-Trimethylbenzene	<0.000289	U	0.00500	0.000289	mg/Kg			06/21/22 15:22	1
1,3-Dichlorobenzene	<0.000273	U	0.00500	0.000273	mg/Kg			06/21/22 15:22	1
1,3-Dichloropropane	<0.000409	U	0.00500	0.000409	mg/Kg			06/21/22 15:22	1
1,4-Dichlorobenzene	<0.000214	U	0.00500	0.000214	mg/Kg			06/21/22 15:22	1
2,2-Dichloropropane	<0.000524	U	0.00500	0.000524	mg/Kg			06/21/22 15:22	1
2-Butanone	<0.00365	U	0.0200	0.00365	mg/Kg			06/21/22 15:22	1
4-Chlorotoluene	<0.000264	U	0.00500	0.000264	mg/Kg			06/21/22 15:22	1
Benzene	<0.000207	U	0.00100	0.000207	mg/Kg			06/21/22 15:22	1
Bromobenzene	<0.000346	U	0.00500	0.000346	mg/Kg			06/21/22 15:22	1
Bromochloromethane	<0.000526	U	0.00500	0.000526	mg/Kg			06/21/22 15:22	1
Bromodichloromethane	<0.000251	U	0.00500	0.000251	mg/Kg			06/21/22 15:22	1
Bromoform	<0.00103	U	0.00500	0.00103	mg/Kg			06/21/22 15:22	1
Bromomethane	<0.000943	U	0.00500	0.000943	mg/Kg			06/21/22 15:22	1
Carbon tetrachloride	<0.00164	U	0.00500	0.00164	mg/Kg			06/21/22 15:22	1
Chlorobenzene	<0.000237	U	0.00500	0.000237	mg/Kg			06/21/22 15:22	1
Chloroethane	<0.000444	U	0.0100	0.000444	mg/Kg			06/21/22 15:22	1
Chloroform	<0.000173	U	0.00500	0.000173	mg/Kg			06/21/22 15:22	1
Chloromethane	<0.000431	U	0.00500	0.000431	mg/Kg			06/21/22 15:22	1
Dibromochloromethane	<0.000895	U	0.00500	0.000895	mg/Kg			06/21/22 15:22	1
Dichlorodifluoromethane	<0.00111	U	0.00500	0.00111	mg/Kg			06/21/22 15:22	1
Ethylbenzene	<0.000336	U	0.00100	0.000336	mg/Kg			06/21/22 15:22	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/Kg			06/21/22 15:22	1
MTBE	<0.000409	U	0.00500	0.000409	mg/Kg			06/21/22 15:22	1
Methylene Chloride	<0.00422	U	0.0200	0.00422	mg/Kg			06/21/22 15:22	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/Kg			06/21/22 15:22	1
sec-Butylbenzene	<0.000261	U	0.00500	0.000261	mg/Kg			06/21/22 15:22	1

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-57800/8**  
**Matrix: Solid**  
**Analysis Batch: 57800**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.000205	U	0.00500	0.000205	mg/Kg			06/21/22 15:22	1
Tetrachloroethene	<0.000370	U	0.00500	0.000370	mg/Kg			06/21/22 15:22	1
Toluene	<0.00100	U	0.00500	0.00100	mg/Kg			06/21/22 15:22	1
Trichloroethene	<0.000494	U	0.00500	0.000494	mg/Kg			06/21/22 15:22	1
Trichlorofluoromethane	<0.000307	U	0.00500	0.000307	mg/Kg			06/21/22 15:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		56 - 150		06/21/22 15:22	1
4-Bromofluorobenzene (Surr)	109		68 - 152		06/21/22 15:22	1
Dibromofluoromethane (Surr)	104		53 - 142		06/21/22 15:22	1
Toluene-d8 (Surr)	104		70 - 130		06/21/22 15:22	1

**Lab Sample ID: LCS 860-57800/3**  
**Matrix: Solid**  
**Analysis Batch: 57800**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	0.0500	0.04931		mg/Kg		99	72 - 131
cis-1,3-Dichloropropene	0.0500	0.05117		mg/Kg		102	74 - 135
Isopropylbenzene	0.0500	0.05373		mg/Kg		107	55 - 155
m,p-Xylenes	0.0500	0.05015		mg/Kg		100	78 - 130
n-Butylbenzene	0.0500	0.05393		mg/Kg		108	82 - 130
N-Propylbenzene	0.0500	0.05508		mg/Kg		110	84 - 131
o-Xylene	0.0500	0.05005		mg/Kg		100	79 - 130
p-Cymene (p-Isopropyltoluene)	0.0500	0.05448		mg/Kg		109	84 - 130
tert-Butylbenzene	0.0500	0.05547		mg/Kg		111	83 - 132
trans-1,2-Dichloroethene	0.0500	0.05267		mg/Kg		105	63 - 130
trans-1,3-Dichloropropene	0.0500	0.05165		mg/Kg		103	73 - 130
Vinyl chloride	0.0500	0.05530		mg/Kg		111	60 - 130
1,1,1,2-Tetrachloroethane	0.0500	0.05030		mg/Kg		101	81 - 130
1,1,1-Trichloroethane	0.0500	0.05089		mg/Kg		102	71 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.04760		mg/Kg		95	75 - 133
1,1,2-Trichloroethane	0.0500	0.04898		mg/Kg		98	75 - 131
1,1-Dichloroethane	0.0500	0.05224		mg/Kg		104	73 - 130
1,1-Dichloroethene	0.0500	0.05771		mg/Kg		115	68 - 130
1,1-Dichloropropene	0.0500	0.05207		mg/Kg		104	72 - 130
1,2,3-Trichlorobenzene	0.0500	0.04964		mg/Kg		99	75 - 131
1,2,3-Trichloropropane	0.0500	0.04727		mg/Kg		95	75 - 131
1,2,4-Trichlorobenzene	0.0500	0.05163		mg/Kg		103	79 - 130
1,2,4-Trimethylbenzene	0.0500	0.05226		mg/Kg		105	60 - 159
1,2-Dibromo-3-Chloropropane	0.0500	0.04855		mg/Kg		97	58 - 133
1,2-Dibromoethane	0.0500	0.05041		mg/Kg		101	73 - 130
1,2-Dichlorobenzene	0.0500	0.04712		mg/Kg		94	84 - 130
1,2-Dichloroethane	0.0500	0.04109		mg/Kg		82	70 - 130
1,2-Dichloropropane	0.0500	0.04679		mg/Kg		94	75 - 130
1,3,5-Trimethylbenzene	0.0500	0.05111		mg/Kg		102	61 - 160
1,3-Dichlorobenzene	0.0500	0.04940		mg/Kg		99	84 - 130
1,3-Dichloropropane	0.0500	0.04800		mg/Kg		96	82 - 131

# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-57800/3**  
**Matrix: Solid**  
**Analysis Batch: 57800**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	0.0500	0.04710		mg/Kg		94	82 - 130
2,2-Dichloropropane	0.0500	0.05308		mg/Kg		106	67 - 137
2-Butanone	0.250	0.2698		mg/Kg		108	75 - 130
4-Chlorotoluene	0.0500	0.04952		mg/Kg		99	83 - 130
Benzene	0.0500	0.04962		mg/Kg		99	66 - 142
Bromobenzene	0.0500	0.04939		mg/Kg		99	75 - 130
Bromochloromethane	0.0500	0.04826		mg/Kg		97	71 - 130
Bromodichloromethane	0.0500	0.04702		mg/Kg		94	78 - 130
Bromoform	0.0500	0.04970		mg/Kg		99	63 - 136
Bromomethane	0.0500	0.04364		mg/Kg		87	60 - 140
Carbon tetrachloride	0.0500	0.05250		mg/Kg		105	63 - 135
Chlorobenzene	0.0500	0.04699		mg/Kg		94	83 - 130
Chloroethane	0.0500	0.05085		mg/Kg		102	57 - 130
Chloroform	0.0500	0.04767		mg/Kg		95	74 - 130
Chloromethane	0.0500	0.05152		mg/Kg		103	58 - 130
Dibromochloromethane	0.0500	0.05122		mg/Kg		102	77 - 130
Dichlorodifluoromethane	0.0500	0.06997	*+	mg/Kg		140	54 - 130
Ethylbenzene	0.0500	0.05124		mg/Kg		102	80 - 130
Hexachlorobutadiene	0.0500	0.05042		mg/Kg		101	77 - 130
MTBE	0.0500	0.05033		mg/Kg		101	64 - 148
Methylene Chloride	0.0500	0.04852		mg/Kg		97	57 - 134
Naphthalene	0.0500	0.05624		mg/Kg		112	53 - 150
sec-Butylbenzene	0.0500	0.05531		mg/Kg		111	84 - 131
Styrene	0.0500	0.05220		mg/Kg		104	80 - 130
Tetrachloroethene	0.0500	0.05083		mg/Kg		102	79 - 130
Toluene	0.0500	0.05072		mg/Kg		101	74 - 130
Trichloroethene	0.0500	0.05170		mg/Kg		103	78 - 130
Trichlorofluoromethane	0.0500	0.06930		mg/Kg		139	71 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		56 - 150
4-Bromofluorobenzene (Surr)	109		68 - 152
Dibromofluoromethane (Surr)	104		53 - 142
Toluene-d8 (Surr)	103		70 - 130

**Lab Sample ID: LCSD 860-57800/4**  
**Matrix: Solid**  
**Analysis Batch: 57800**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
cis-1,2-Dichloroethene	0.0500	0.05167		mg/Kg		103	72 - 131	5	25
cis-1,3-Dichloropropene	0.0500	0.05337		mg/Kg		107	74 - 135	4	25
Isopropylbenzene	0.0500	0.05716		mg/Kg		114	55 - 155	6	25
m,p-Xylenes	0.0500	0.05409		mg/Kg		108	78 - 130	8	25
n-Butylbenzene	0.0500	0.05888		mg/Kg		118	82 - 130	9	25
N-Propylbenzene	0.0500	0.05994		mg/Kg		120	84 - 131	8	25
o-Xylene	0.0500	0.05223		mg/Kg		104	79 - 130	4	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05951		mg/Kg		119	84 - 130	9	25

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-57800/4**  
**Matrix: Solid**  
**Analysis Batch: 57800**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
tert-Butylbenzene	0.0500	0.06058		mg/Kg		121	83 - 132	9	25
trans-1,2-Dichloroethene	0.0500	0.05699		mg/Kg		114	63 - 130	8	25
trans-1,3-Dichloropropene	0.0500	0.05228		mg/Kg		105	73 - 130	1	25
Vinyl chloride	0.0500	0.04699		mg/Kg		94	60 - 130	16	25
1,1,1,2-Tetrachloroethane	0.0500	0.05162		mg/Kg		103	81 - 130	3	25
1,1,1-Trichloroethane	0.0500	0.05557		mg/Kg		111	71 - 130	9	25
1,1,1,2-Tetrachloroethane	0.0500	0.04666		mg/Kg		93	75 - 133	2	25
1,1,2-Trichloroethane	0.0500	0.04873		mg/Kg		97	75 - 131	1	25
1,1-Dichloroethane	0.0500	0.05488		mg/Kg		110	73 - 130	5	25
1,1-Dichloroethene	0.0500	0.06257		mg/Kg		125	68 - 130	8	25
1,1-Dichloropropene	0.0500	0.05658		mg/Kg		113	72 - 130	8	25
1,2,3-Trichlorobenzene	0.0500	0.05084		mg/Kg		102	75 - 131	2	25
1,2,3-Trichloropropane	0.0500	0.04537		mg/Kg		91	75 - 131	4	25
1,2,4-Trichlorobenzene	0.0500	0.05441		mg/Kg		109	79 - 130	5	25
1,2,4-Trimethylbenzene	0.0500	0.05637		mg/Kg		113	60 - 159	8	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04872		mg/Kg		97	58 - 133	0	25
1,2-Dibromoethane	0.0500	0.04998		mg/Kg		100	73 - 130	1	25
1,2-Dichlorobenzene	0.0500	0.04996		mg/Kg		100	84 - 130	6	25
1,2-Dichloroethane	0.0500	0.04180		mg/Kg		84	70 - 130	2	25
1,2-Dichloropropane	0.0500	0.04944		mg/Kg		99	75 - 130	6	25
1,3,5-Trimethylbenzene	0.0500	0.05532		mg/Kg		111	61 - 160	8	25
1,3-Dichlorobenzene	0.0500	0.05239		mg/Kg		105	84 - 130	6	25
1,3-Dichloropropane	0.0500	0.04789		mg/Kg		96	82 - 131	0	25
1,4-Dichlorobenzene	0.0500	0.05014		mg/Kg		100	82 - 130	6	25
2,2-Dichloropropane	0.0500	0.05753		mg/Kg		115	67 - 137	8	25
2-Butanone	0.250	0.2602		mg/Kg		104	75 - 130	4	25
4-Chlorotoluene	0.0500	0.05277		mg/Kg		106	83 - 130	6	25
Benzene	0.0500	0.05231		mg/Kg		105	66 - 142	5	25
Bromobenzene	0.0500	0.05212		mg/Kg		104	75 - 130	5	25
Bromochloromethane	0.0500	0.04920		mg/Kg		98	71 - 130	2	25
Bromodichloromethane	0.0500	0.04996		mg/Kg		100	78 - 130	6	25
Bromoform	0.0500	0.04997		mg/Kg		100	63 - 136	1	25
Bromomethane	0.0500	0.03927		mg/Kg		79	60 - 140	11	25
Carbon tetrachloride	0.0500	0.05688		mg/Kg		114	63 - 135	8	25
Chlorobenzene	0.0500	0.04913		mg/Kg		98	83 - 130	4	25
Chloroethane	0.0500	0.04246		mg/Kg		85	57 - 130	18	25
Chloroform	0.0500	0.05017		mg/Kg		100	74 - 130	5	25
Chloromethane	0.0500	0.04367		mg/Kg		87	58 - 130	16	25
Dibromochloromethane	0.0500	0.05140		mg/Kg		103	77 - 130	0	25
Dichlorodifluoromethane	0.0500	0.06060		mg/Kg		121	54 - 130	14	25
Ethylbenzene	0.0500	0.05416		mg/Kg		108	80 - 130	6	25
Hexachlorobutadiene	0.0500	0.05492		mg/Kg		110	77 - 130	9	25
MTBE	0.0500	0.05113		mg/Kg		102	64 - 148	2	25
Methylene Chloride	0.0500	0.05013		mg/Kg		100	57 - 134	3	25
Naphthalene	0.0500	0.05505		mg/Kg		110	53 - 150	2	25
sec-Butylbenzene	0.0500	0.06084		mg/Kg		122	84 - 131	10	25
Styrene	0.0500	0.05451		mg/Kg		109	80 - 130	4	25
Tetrachloroethene	0.0500	0.05465		mg/Kg		109	79 - 130	7	25
Toluene	0.0500	0.05266		mg/Kg		105	74 - 130	4	25

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-57800/4**  
**Matrix: Solid**  
**Analysis Batch: 57800**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichloroethene	0.0500	0.05386		mg/Kg		108	78 - 130	4	25
Trichlorofluoromethane	0.0500	0.05861		mg/Kg		117	71 - 148	17	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		56 - 150
4-Bromofluorobenzene (Surr)	110		68 - 152
Dibromofluoromethane (Surr)	103		53 - 142
Toluene-d8 (Surr)	102		70 - 130

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

**Lab Sample ID: MB 860-58538/1-A**  
**Matrix: Solid**  
**Analysis Batch: 58585**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 58538**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00232	U	0.00333	0.00232	mg/Kg		06/25/22 09:16	06/26/22 11:02	1
Acenaphthylene	<0.00251	U	0.00333	0.00251	mg/Kg		06/25/22 09:16	06/26/22 11:02	1
Anthracene	<0.00238	U	0.00333	0.00238	mg/Kg		06/25/22 09:16	06/26/22 11:02	1
Benzo[a]anthracene	<0.00214	U	0.00333	0.00214	mg/Kg		06/25/22 09:16	06/26/22 11:02	1
Benzo[a]pyrene	<0.00245	U	0.00333	0.00245	mg/Kg		06/25/22 09:16	06/26/22 11:02	1
Benzo[b]fluoranthene	<0.00275	U	0.00333	0.00275	mg/Kg		06/25/22 09:16	06/26/22 11:02	1
Benzo[g,h,i]perylene	<0.00264	U	0.00333	0.00264	mg/Kg		06/25/22 09:16	06/26/22 11:02	1
Benzo[k]fluoranthene	<0.00266	U	0.00333	0.00266	mg/Kg		06/25/22 09:16	06/26/22 11:02	1
Chrysene	<0.00185	U	0.00333	0.00185	mg/Kg		06/25/22 09:16	06/26/22 11:02	1
Dibenz(a,h)anthracene	<0.00266	U	0.00333	0.00266	mg/Kg		06/25/22 09:16	06/26/22 11:02	1
Dibenzofuran	<0.00234	U	0.00333	0.00234	mg/Kg		06/25/22 09:16	06/26/22 11:02	1
Fluoranthene	<0.00234	U	0.00333	0.00234	mg/Kg		06/25/22 09:16	06/26/22 11:02	1
Fluorene	<0.00234	U	0.00333	0.00234	mg/Kg		06/25/22 09:16	06/26/22 11:02	1
Indeno[1,2,3-cd]pyrene	<0.00251	U	0.00333	0.00251	mg/Kg		06/25/22 09:16	06/26/22 11:02	1
Naphthalene	<0.00240	U	0.00333	0.00240	mg/Kg		06/25/22 09:16	06/26/22 11:02	1
Phenanthrene	<0.00234	U	0.00333	0.00234	mg/Kg		06/25/22 09:16	06/26/22 11:02	1
Pyrene	<0.00237	U	0.00333	0.00237	mg/Kg		06/25/22 09:16	06/26/22 11:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	71		51 - 133	06/25/22 09:16	06/26/22 11:02	1
Nitrobenzene-d5 (Surr)	71		31 - 130	06/25/22 09:16	06/26/22 11:02	1
p-Terphenyl-d14 (Surr)	62		46 - 137	06/25/22 09:16	06/26/22 11:02	1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - RA

**Lab Sample ID: LCS 860-58538/2-A**  
**Matrix: Solid**  
**Analysis Batch: 58615**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 58538**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene - RA	0.0333	0.02248		mg/Kg		67	55 - 144
Acenaphthylene - RA	0.0333	0.02315		mg/Kg		69	53 - 145
Anthracene - RA	0.0333	0.02005		mg/Kg		60	53 - 145

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - RA (Continued)

**Lab Sample ID: LCS 860-58538/2-A**  
**Matrix: Solid**  
**Analysis Batch: 58615**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 58538**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[a]anthracene - RA	0.0333	0.02353		mg/Kg		71	47 - 145
Benzo[a]pyrene - RA	0.0333	0.02156		mg/Kg		65	52 - 142
Benzo[b]fluoranthene - RA	0.0333	0.02520		mg/Kg		76	45 - 143
Benzo[g,h,i]perylene - RA	0.0333	0.01990		mg/Kg		60	48 - 146
Benzo[k]fluoranthene - RA	0.0333	0.01993		mg/Kg		60	54 - 153
Chrysene - RA	0.0333	0.01899		mg/Kg		57	55 - 156
Dibenz(a,h)anthracene - RA	0.0333	0.02034		mg/Kg		61	41 - 157
Dibenzofuran - RA	0.0333	0.02317		mg/Kg		70	51 - 150
Fluoranthene - RA	0.0333	0.02226		mg/Kg		67	54 - 148
Fluorene - RA	0.0333	0.02267		mg/Kg		68	54 - 149
Indeno[1,2,3-cd]pyrene - RA	0.0333	0.02255		mg/Kg		68	42 - 165
Naphthalene - RA	0.0333	0.02290	J	mg/Kg		69	54 - 167
Phenanthrene - RA	0.0333	0.02241		mg/Kg		67	53 - 163
Pyrene - RA	0.0333	0.02134		mg/Kg		64	53 - 159

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr) - RA	70		51 - 133
Nitrobenzene-d5 (Surr) - RA	69		31 - 130
p-Terphenyl-d14 (Surr) - RA	65		46 - 137

**Lab Sample ID: LCSD 860-58538/3-A**  
**Matrix: Solid**  
**Analysis Batch: 58615**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 58538**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene - RA	0.0333	0.02331		mg/Kg		70	55 - 144	4	25
Acenaphthylene - RA	0.0333	0.02369		mg/Kg		71	53 - 145	2	25
Anthracene - RA	0.0333	0.02073		mg/Kg		62	53 - 145	3	25
Benzo[a]anthracene - RA	0.0333	0.02398		mg/Kg		72	47 - 145	2	25
Benzo[a]pyrene - RA	0.0333	0.02205		mg/Kg		66	52 - 142	2	25
Benzo[b]fluoranthene - RA	0.0333	0.02673		mg/Kg		80	45 - 143	6	25
Benzo[g,h,i]perylene - RA	0.0333	0.02036		mg/Kg		61	48 - 146	2	25
Benzo[k]fluoranthene - RA	0.0333	0.02001		mg/Kg		60	54 - 153	0	25
Chrysene - RA	0.0333	0.01900		mg/Kg		57	55 - 156	0	25
Dibenz(a,h)anthracene - RA	0.0333	0.02082		mg/Kg		62	41 - 157	2	25
Dibenzofuran - RA	0.0333	0.02408		mg/Kg		72	51 - 150	4	25
Fluoranthene - RA	0.0333	0.02293		mg/Kg		69	54 - 148	3	25
Fluorene - RA	0.0333	0.02356		mg/Kg		71	54 - 149	4	25
Indeno[1,2,3-cd]pyrene - RA	0.0333	0.02310		mg/Kg		69	42 - 165	2	25
Naphthalene - RA	0.0333	0.02389	J	mg/Kg		72	54 - 167	4	25
Phenanthrene - RA	0.0333	0.02324		mg/Kg		70	53 - 163	4	25
Pyrene - RA	0.0333	0.02195		mg/Kg		66	53 - 159	3	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl (Surr) - RA	69		51 - 133
Nitrobenzene-d5 (Surr) - RA	69		31 - 130
p-Terphenyl-d14 (Surr) - RA	64		46 - 137

# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

**Lab Sample ID: MB 860-57428/1-A**  
**Matrix: Solid**  
**Analysis Batch: 57652**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 57428**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/17/22 13:51	06/20/22 18:04	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/17/22 13:51	06/20/22 18:04	1
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/17/22 13:51	06/20/22 18:04	1
MB MB									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130				06/17/22 13:51	06/20/22 18:04	1
o-Terphenyl (Surr)	104		70 - 130				06/17/22 13:51	06/20/22 18:04	1

**Lab Sample ID: LCS 860-57428/2-A**  
**Matrix: Solid**  
**Analysis Batch: 57384**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 57428**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits		
		Result	Qualifier					RPD	Limit
C6-C12	1000	1006		mg/Kg		101	75 - 125	6	20
>C12-C28	997	1081		mg/Kg		108	75 - 125	8	20
LCS LCS									
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane (Surr)	106		70 - 130						
o-Terphenyl (Surr)	106		70 - 130						

**Lab Sample ID: LCSD 860-57428/3-A**  
**Matrix: Solid**  
**Analysis Batch: 57384**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 57428**

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
C6-C12	1000	952.1		mg/Kg		95	75 - 125	6	20
>C12-C28	997	1001		mg/Kg		100	75 - 125	8	20
LCSD LCSD									
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane (Surr)	97		70 - 130						
o-Terphenyl (Surr)	100		70 - 130						

**Lab Sample ID: MB 860-57488/1-A**  
**Matrix: Solid**  
**Analysis Batch: 57382**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 57488**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/17/22 18:56	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/17/22 18:56	1
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/17/22 16:06	06/17/22 18:56	1
MB MB									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130				06/17/22 16:06	06/17/22 18:56	1
o-Terphenyl (Surr)	96		70 - 130				06/17/22 16:06	06/17/22 18:56	1

# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) (Continued)

**Lab Sample ID: LCS 860-57488/2-A**  
**Matrix: Solid**  
**Analysis Batch: 57382**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 57488**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
C6-C12	999	935.0		mg/Kg		94	75 - 125	
>C12-C28	998	1164		mg/Kg		117	75 - 125	
<b>LCS LCS</b>								
Surrogate	%Recovery	Qualifier	Limits					
1-Chlorooctane (Surr)	93		70 - 130					
o-Terphenyl (Surr)	97		70 - 130					

**Lab Sample ID: LCSD 860-57488/3-A**  
**Matrix: Solid**  
**Analysis Batch: 57382**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 57488**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit	
									RPD	Limit
C6-C12	999	1000		mg/Kg		100	75 - 125	7	20	
>C12-C28	998	1150		mg/Kg		115	75 - 125	1	20	
<b>LCSD LCSD</b>										
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane (Surr)	93		70 - 130							
o-Terphenyl (Surr)	97		70 - 130							

## Method: 6020A - Metals (ICP/MS)

**Lab Sample ID: MB 860-58093/1-A**  
**Matrix: Solid**  
**Analysis Batch: 58718**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 58093**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.0593	U	0.385	0.0593	mg/Kg		06/22/22 17:40	06/25/22 01:03	1
Barium	<0.0334	U	0.385	0.0334	mg/Kg		06/22/22 17:40	06/25/22 01:03	1
Cadmium	<0.0112	U	0.192	0.0112	mg/Kg		06/22/22 17:40	06/25/22 01:03	1
Chromium	<0.0261	U	0.385	0.0261	mg/Kg		06/22/22 17:40	06/25/22 01:03	1
Lead	<0.0186	U	0.192	0.0186	mg/Kg		06/22/22 17:40	06/25/22 01:03	1
Selenium	<0.0477	U	0.192	0.0477	mg/Kg		06/22/22 17:40	06/25/22 01:03	1
Silver	0.03144	J	0.192	0.0153	mg/Kg		06/22/22 17:40	06/25/22 01:03	1

**Lab Sample ID: LCS 860-58093/2-A**  
**Matrix: Solid**  
**Analysis Batch: 58718**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 58093**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Arsenic	9.80	9.687		mg/Kg		99	80 - 120	
Barium	9.80	9.731		mg/Kg		99	80 - 120	
Cadmium	9.80	9.584		mg/Kg		98	80 - 120	
Chromium	9.80	9.514		mg/Kg		97	80 - 120	
Lead	9.80	9.447		mg/Kg		96	80 - 120	
Selenium	9.80	9.627		mg/Kg		98	80 - 120	
Silver	4.90	4.715		mg/Kg		96	80 - 120	

# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 6020A - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCSD 860-58093/3-A**  
**Matrix: Solid**  
**Analysis Batch: 58718**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 58093**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	9.80	9.138		mg/Kg		93	80 - 120	6	20
Barium	9.80	9.185		mg/Kg		94	80 - 120	6	20
Cadmium	9.80	9.068		mg/Kg		92	80 - 120	6	20
Chromium	9.80	9.219		mg/Kg		94	80 - 120	3	20
Lead	9.80	9.083		mg/Kg		93	80 - 120	4	20
Selenium	9.80	9.077		mg/Kg		93	80 - 120	6	20
Silver	4.90	4.575		mg/Kg		93	80 - 120	3	20

**Lab Sample ID: MB 860-58121/1-A**  
**Matrix: Solid**  
**Analysis Batch: 58718**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 58121**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0593	U	0.385	0.0593	mg/Kg		06/22/22 19:32	06/25/22 02:52	1
Barium	<0.0334	U	0.385	0.0334	mg/Kg		06/22/22 19:32	06/25/22 02:52	1
Cadmium	<0.0112	U	0.192	0.0112	mg/Kg		06/22/22 19:32	06/25/22 02:52	1
Chromium	<0.0261	U	0.385	0.0261	mg/Kg		06/22/22 19:32	06/25/22 02:52	1
Lead	<0.0186	U	0.192	0.0186	mg/Kg		06/22/22 19:32	06/25/22 02:52	1
Selenium	<0.0477	U	0.192	0.0477	mg/Kg		06/22/22 19:32	06/25/22 02:52	1
Silver	0.03067	J	0.192	0.0153	mg/Kg		06/22/22 19:32	06/25/22 02:52	1

**Lab Sample ID: LCS 860-58121/2-A**  
**Matrix: Solid**  
**Analysis Batch: 58718**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 58121**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	9.80	8.892		mg/Kg		91	80 - 120		
Barium	9.80	9.095		mg/Kg		93	80 - 120		
Cadmium	9.80	8.903		mg/Kg		91	80 - 120		
Chromium	9.80	8.759		mg/Kg		89	80 - 120		
Lead	9.80	8.716		mg/Kg		89	80 - 120		
Selenium	9.80	8.890		mg/Kg		91	80 - 120		
Silver	4.90	4.755		mg/Kg		97	80 - 120		

**Lab Sample ID: LCSD 860-58121/3-A**  
**Matrix: Solid**  
**Analysis Batch: 58718**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 58121**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	9.62	9.641		mg/Kg		100	80 - 120	8	20
Barium	9.62	9.566		mg/Kg		99	80 - 120	5	20
Cadmium	9.62	9.378		mg/Kg		98	80 - 120	5	20
Chromium	9.62	9.446		mg/Kg		98	80 - 120	8	20
Lead	9.62	9.304		mg/Kg		97	80 - 120	7	20
Selenium	9.62	9.544		mg/Kg		99	80 - 120	7	20
Silver	4.81	4.654		mg/Kg		97	80 - 120	2	20

# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 6020A - Metals (ICP/MS) (Continued)

**Lab Sample ID: 830-1995-17 MS**  
**Matrix: Solid**  
**Analysis Batch: 58718**

**Client Sample ID: B-6**  
**Prep Type: Total/NA**  
**Prep Batch: 58121**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Arsenic	0.876	J	9.26	8.996		mg/Kg		88		75 - 125
Barium	23.4	F1	9.26	28.97	F1	mg/Kg		60		75 - 125
Cadmium	<0.104	U	9.26	7.782		mg/Kg		84		75 - 125
Chromium	3.33	J	9.26	11.20		mg/Kg		85		75 - 125
Lead	1.86		9.26	9.769		mg/Kg		85		75 - 125
Selenium	<0.443	U	9.26	8.357		mg/Kg		90		75 - 125
Silver	0.291	J B	4.63	4.488		mg/Kg		91		75 - 125

**Lab Sample ID: 830-1995-17 MSD**  
**Matrix: Solid**  
**Analysis Batch: 58718**

**Client Sample ID: B-6**  
**Prep Type: Total/NA**  
**Prep Batch: 58121**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Arsenic	0.876	J	8.62	8.455		mg/Kg		88		75 - 125	6	20
Barium	23.4	F1	8.62	30.82		mg/Kg		86		75 - 125	6	20
Cadmium	<0.104	U	8.62	7.445		mg/Kg		86		75 - 125	4	20
Chromium	3.33	J	8.62	10.02		mg/Kg		78		75 - 125	11	20
Lead	1.86		8.62	9.172		mg/Kg		85		75 - 125	6	20
Selenium	<0.443	U	8.62	7.807		mg/Kg		91		75 - 125	7	20
Silver	0.291	J B	4.31	4.093		mg/Kg		88		75 - 125	9	20

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 860-57739/10-A**  
**Matrix: Solid**  
**Analysis Batch: 57922**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 57739**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00349	U	0.0182	0.00349	mg/Kg		06/21/22 07:20	06/21/22 13:37	1

**Lab Sample ID: LCS 860-57739/11-A**  
**Matrix: Solid**  
**Analysis Batch: 57922**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 57739**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits
Mercury	0.185	0.1912		mg/Kg		103		80 - 120

**Lab Sample ID: LCSD 860-57739/12-A**  
**Matrix: Solid**  
**Analysis Batch: 57922**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 57739**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
Mercury	0.185	0.1951		mg/Kg		105		80 - 120	2	20

**Lab Sample ID: 830-1995-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 57922**

**Client Sample ID: B-1**  
**Prep Type: Total/NA**  
**Prep Batch: 57739**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Mercury	<0.00356	U F1 F2	0.182	0.03164	F1	mg/Kg		17		75 - 125

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: 830-1995-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 57922**

**Client Sample ID: B-1**  
**Prep Type: Total/NA**  
**Prep Batch: 57739**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit
Mercury	<0.00356	U F1 F2	0.185	0.1359	F1 F2	mg/Kg		73	75 - 125	124	20

**Lab Sample ID: 830-1995-11 MS**  
**Matrix: Solid**  
**Analysis Batch: 57922**

**Client Sample ID: B-4**  
**Prep Type: Total/NA**  
**Prep Batch: 57739**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit
Mercury	<0.00377	U F1 F2	0.189	0.1177	F1	mg/Kg		62	75 - 125		

**Lab Sample ID: 830-1995-11 MSD**  
**Matrix: Solid**  
**Analysis Batch: 57922**

**Client Sample ID: B-4**  
**Prep Type: Total/NA**  
**Prep Batch: 57739**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit
Mercury	<0.00377	U F1 F2	0.192	0.2013	F2	mg/Kg		105	75 - 125	52	20

**Lab Sample ID: MB 860-57776/10-A**  
**Matrix: Solid**  
**Analysis Batch: 57922**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 57776**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Mercury	<0.00349	U	0.0182	0.00349	mg/Kg		06/21/22 07:54	06/21/22 16:15		1

**Lab Sample ID: LCS 860-57776/11-A**  
**Matrix: Solid**  
**Analysis Batch: 57922**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 57776**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	RPD	
							Result	Qualifier	Limits
Mercury	0.185	0.1996		mg/Kg		108	80 - 120		

**Lab Sample ID: LCSD 860-57776/12-A**  
**Matrix: Solid**  
**Analysis Batch: 57922**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 57776**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	
							Result	Qualifier	Limits
Mercury	0.185	0.1997		mg/Kg		108	80 - 120	0	20

**Lab Sample ID: 830-1995-21 MS**  
**Matrix: Solid**  
**Analysis Batch: 57922**

**Client Sample ID: B-7**  
**Prep Type: Total/NA**  
**Prep Batch: 57776**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit
Mercury	<0.00370	U	0.189	0.1929		mg/Kg		102	75 - 125		

**Lab Sample ID: 830-1995-21 MSD**  
**Matrix: Solid**  
**Analysis Batch: 57922**

**Client Sample ID: B-7**  
**Prep Type: Total/NA**  
**Prep Batch: 57776**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit
Mercury	<0.00370	U	0.189	0.1979		mg/Kg		105	75 - 125	3	20

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: 830-1995-30 MS**  
**Matrix: Solid**  
**Analysis Batch: 57922**

**Client Sample ID: B-10**  
**Prep Type: Total/NA**  
**Prep Batch: 57776**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00377	U	0.192	0.1982		mg/Kg		103	75 - 125

**Lab Sample ID: 830-1995-30 MSD**  
**Matrix: Solid**  
**Analysis Batch: 57922**

**Client Sample ID: B-10**  
**Prep Type: Total/NA**  
**Prep Batch: 57776**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00377	U	0.196	0.2008		mg/Kg		102	75 - 125	1	20

# QC Association Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## GC/MS VOA

### Analysis Batch: 57337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-1	B-1	Total/NA	Solid	8260C	57360
830-1995-3	B-1	Total/NA	Solid	8260C	57360
830-1995-4	B-2	Total/NA	Solid	8260C	57360
830-1995-6	B-2	Total/NA	Solid	8260C	57360
830-1995-7	B-3	Total/NA	Solid	8260C	57360
830-1995-9	B-3	Total/NA	Solid	8260C	57360
830-1995-10	B-4	Total/NA	Solid	8260C	57360
830-1995-12	B-4	Total/NA	Solid	8260C	57360
830-1995-13	B-5	Total/NA	Solid	8260C	57360
830-1995-15	B-5	Total/NA	Solid	8260C	57360
830-1995-16	B-6	Total/NA	Solid	8260C	57360
830-1995-18	B-6	Total/NA	Solid	8260C	57360
830-1995-19	B-7	Total/NA	Solid	8260C	57360
830-1995-21	B-7	Total/NA	Solid	8260C	57360
MB 860-57337/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-57337/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-57337/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

### Prep Batch: 57360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-1	B-1	Total/NA	Solid	5035	
830-1995-3	B-1	Total/NA	Solid	5035	
830-1995-4	B-2	Total/NA	Solid	5035	
830-1995-5	B-2	Total/NA	Solid	5035	
830-1995-6	B-2	Total/NA	Solid	5035	
830-1995-7	B-3	Total/NA	Solid	5035	
830-1995-8	B-3	Total/NA	Solid	5035	
830-1995-9	B-3	Total/NA	Solid	5035	
830-1995-10	B-4	Total/NA	Solid	5035	
830-1995-11	B-4	Total/NA	Solid	5035	
830-1995-12	B-4	Total/NA	Solid	5035	
830-1995-13	B-5	Total/NA	Solid	5035	
830-1995-14	B-5	Total/NA	Solid	5035	
830-1995-15	B-5	Total/NA	Solid	5035	
830-1995-16	B-6	Total/NA	Solid	5035	
830-1995-17	B-6	Total/NA	Solid	5035	
830-1995-18	B-6	Total/NA	Solid	5035	
830-1995-19	B-7	Total/NA	Solid	5035	
830-1995-21	B-7	Total/NA	Solid	5035	
830-1995-22	B-8	Total/NA	Solid	5035	
830-1995-24	B-8	Total/NA	Solid	5035	
830-1995-25	B-9	Total/NA	Solid	5035	
830-1995-27	B-9	Total/NA	Solid	5035	
830-1995-28	B-10	Total/NA	Solid	5035	
830-1995-30	B-10	Total/NA	Solid	5035	
830-1995-25 MS	B-9	Total/NA	Solid	5035	

### Analysis Batch: 57368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-5	B-2	Total/NA	Solid	8260C	57360
830-1995-8	B-3	Total/NA	Solid	8260C	57360

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# QC Association Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## GC/MS VOA (Continued)

### Analysis Batch: 57368 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-11	B-4	Total/NA	Solid	8260C	57360
MB 860-57368/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-57368/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-57368/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

### Analysis Batch: 57579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-22	B-8	Total/NA	Solid	8260C	57360
830-1995-24	B-8	Total/NA	Solid	8260C	57360
830-1995-25	B-9	Total/NA	Solid	8260C	57360
830-1995-27	B-9	Total/NA	Solid	8260C	57360
830-1995-28	B-10	Total/NA	Solid	8260C	57360
830-1995-30	B-10	Total/NA	Solid	8260C	57360
MB 860-57579/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-57579/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-57579/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
830-1995-25 MS	B-9	Total/NA	Solid	8260C	57360

### Analysis Batch: 57615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-2	B-1	Total/NA	Solid	8260C	57636
830-1995-5	B-2	Total/NA	Solid	8260C	57636
830-1995-8	B-3	Total/NA	Solid	8260C	57636
830-1995-11	B-4	Total/NA	Solid	8260C	57636
830-1995-14	B-5	Total/NA	Solid	8260C	57360
830-1995-17	B-6	Total/NA	Solid	8260C	57360
MB 860-57615/10	Method Blank	Total/NA	Solid	8260C	
LCS 860-57615/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-57615/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

### Prep Batch: 57636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-2	B-1	Total/NA	Solid	5035	
830-1995-5	B-2	Total/NA	Solid	5035	
830-1995-8	B-3	Total/NA	Solid	5035	
830-1995-11	B-4	Total/NA	Solid	5035	

### Analysis Batch: 57798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-20	B-7	Total/NA	Solid	8260C	57827
830-1995-23	B-8	Total/NA	Solid	8260C	57827
830-1995-26	B-9	Total/NA	Solid	8260C	57827
MB 860-57798/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-57798/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-57798/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

### Analysis Batch: 57800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-29	B-10	Total/NA	Solid	8260C	57827
MB 860-57800/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-57800/3	Lab Control Sample	Total/NA	Solid	8260C	

# QC Association Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## GC/MS VOA (Continued)

### Analysis Batch: 57800 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-57800/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

### Prep Batch: 57827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-20	B-7	Total/NA	Solid	5035	
830-1995-23	B-8	Total/NA	Solid	5035	
830-1995-26	B-9	Total/NA	Solid	5035	
830-1995-29	B-10	Total/NA	Solid	5035	

## GC/MS Semi VOA

### Prep Batch: 58538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-9	B-3	Total/NA	Solid	3546	
MB 860-58538/1-A	Method Blank	Total/NA	Solid	3546	
LCS 860-58538/2-A - RA	Lab Control Sample	Total/NA	Solid	3546	
LCSD 860-58538/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	3546	

### Analysis Batch: 58585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-58538/1-A	Method Blank	Total/NA	Solid	8270D SIM	58538

### Analysis Batch: 58615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-58538/2-A - RA	Lab Control Sample	Total/NA	Solid	8270D SIM	58538
LCSD 860-58538/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8270D SIM	58538

### Analysis Batch: 58741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-9	B-3	Total/NA	Solid	8270D SIM	58538

## GC Semi VOA

### Analysis Batch: 57382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-20	B-7	Total/NA	Solid	TX 1005	57488
830-1995-21	B-7	Total/NA	Solid	TX 1005	57488
830-1995-22	B-8	Total/NA	Solid	TX 1005	57488
830-1995-23	B-8	Total/NA	Solid	TX 1005	57488
830-1995-24	B-8	Total/NA	Solid	TX 1005	57488
830-1995-25	B-9	Total/NA	Solid	TX 1005	57488
830-1995-26	B-9	Total/NA	Solid	TX 1005	57488
830-1995-27	B-9	Total/NA	Solid	TX 1005	57488
830-1995-28	B-10	Total/NA	Solid	TX 1005	57488
830-1995-29	B-10	Total/NA	Solid	TX 1005	57488
830-1995-30	B-10	Total/NA	Solid	TX 1005	57488
MB 860-57488/1-A	Method Blank	Total/NA	Solid	TX 1005	57488
LCS 860-57488/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	57488
LCSD 860-57488/3-A	Lab Control Sample Dup	Total/NA	Solid	TX 1005	57488

# QC Association Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## GC Semi VOA

### Analysis Batch: 57384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-1	B-1	Total/NA	Solid	TX 1005	57428
830-1995-2	B-1	Total/NA	Solid	TX 1005	57428
830-1995-3	B-1	Total/NA	Solid	TX 1005	57428
830-1995-4	B-2	Total/NA	Solid	TX 1005	57428
830-1995-5	B-2	Total/NA	Solid	TX 1005	57428
830-1995-6	B-2	Total/NA	Solid	TX 1005	57428
830-1995-7	B-3	Total/NA	Solid	TX 1005	57428
830-1995-8	B-3	Total/NA	Solid	TX 1005	57428
830-1995-9	B-3	Total/NA	Solid	TX 1005	57428
830-1995-10	B-4	Total/NA	Solid	TX 1005	57428
830-1995-11	B-4	Total/NA	Solid	TX 1005	57428
830-1995-12	B-4	Total/NA	Solid	TX 1005	57428
830-1995-13	B-5	Total/NA	Solid	TX 1005	57428
830-1995-14	B-5	Total/NA	Solid	TX 1005	57428
830-1995-15	B-5	Total/NA	Solid	TX 1005	57428
830-1995-16	B-6	Total/NA	Solid	TX 1005	57428
830-1995-17	B-6	Total/NA	Solid	TX 1005	57428
830-1995-18	B-6	Total/NA	Solid	TX 1005	57428
830-1995-19	B-7	Total/NA	Solid	TX 1005	57428
LCS 860-57428/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	57428
LCSD 860-57428/3-A	Lab Control Sample Dup	Total/NA	Solid	TX 1005	57428

### Prep Batch: 57428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-1	B-1	Total/NA	Solid	TX_1005_S_Pre	
830-1995-2	B-1	Total/NA	Solid	TX_1005_S_Pre	
830-1995-3	B-1	Total/NA	Solid	TX_1005_S_Pre	
830-1995-4	B-2	Total/NA	Solid	TX_1005_S_Pre	
830-1995-5	B-2	Total/NA	Solid	TX_1005_S_Pre	
830-1995-6	B-2	Total/NA	Solid	TX_1005_S_Pre	
830-1995-7	B-3	Total/NA	Solid	TX_1005_S_Pre	
830-1995-8	B-3	Total/NA	Solid	TX_1005_S_Pre	
830-1995-9	B-3	Total/NA	Solid	TX_1005_S_Pre	
830-1995-10	B-4	Total/NA	Solid	TX_1005_S_Pre	
830-1995-11	B-4	Total/NA	Solid	TX_1005_S_Pre	
830-1995-12	B-4	Total/NA	Solid	TX_1005_S_Pre	
830-1995-13	B-5	Total/NA	Solid	TX_1005_S_Pre	
830-1995-14	B-5	Total/NA	Solid	TX_1005_S_Pre	
830-1995-15	B-5	Total/NA	Solid	TX_1005_S_Pre	

# QC Association Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## GC Semi VOA (Continued)

### Prep Batch: 57428 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-16	B-6	Total/NA	Solid	TX_1005_S_Pre p	
830-1995-17	B-6	Total/NA	Solid	TX_1005_S_Pre p	
830-1995-18	B-6	Total/NA	Solid	TX_1005_S_Pre p	
830-1995-19	B-7	Total/NA	Solid	TX_1005_S_Pre p	
MB 860-57428/1-A	Method Blank	Total/NA	Solid	TX_1005_S_Pre p	
LCS 860-57428/2-A	Lab Control Sample	Total/NA	Solid	TX_1005_S_Pre p	
LCSD 860-57428/3-A	Lab Control Sample Dup	Total/NA	Solid	TX_1005_S_Pre p	

### Prep Batch: 57488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-20	B-7	Total/NA	Solid	TX_1005_S_Pre p	
830-1995-21	B-7	Total/NA	Solid	TX_1005_S_Pre p	
830-1995-22	B-8	Total/NA	Solid	TX_1005_S_Pre p	
830-1995-23	B-8	Total/NA	Solid	TX_1005_S_Pre p	
830-1995-24	B-8	Total/NA	Solid	TX_1005_S_Pre p	
830-1995-25	B-9	Total/NA	Solid	TX_1005_S_Pre p	
830-1995-26	B-9	Total/NA	Solid	TX_1005_S_Pre p	
830-1995-27	B-9	Total/NA	Solid	TX_1005_S_Pre p	
830-1995-28	B-10	Total/NA	Solid	TX_1005_S_Pre p	
830-1995-29	B-10	Total/NA	Solid	TX_1005_S_Pre p	
830-1995-30	B-10	Total/NA	Solid	TX_1005_S_Pre p	
MB 860-57488/1-A	Method Blank	Total/NA	Solid	TX_1005_S_Pre p	
LCS 860-57488/2-A	Lab Control Sample	Total/NA	Solid	TX_1005_S_Pre p	
LCSD 860-57488/3-A	Lab Control Sample Dup	Total/NA	Solid	TX_1005_S_Pre p	

### Analysis Batch: 57652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-57428/1-A	Method Blank	Total/NA	Solid	TX 1005	57428

### Analysis Batch: 57748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-1	B-1	Total/NA	Solid	TX 1005	
830-1995-2	B-1	Total/NA	Solid	TX 1005	
830-1995-3	B-1	Total/NA	Solid	TX 1005	
830-1995-4	B-2	Total/NA	Solid	TX 1005	

# QC Association Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## GC Semi VOA (Continued)

### Analysis Batch: 57748 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-5	B-2	Total/NA	Solid	TX 1005	
830-1995-6	B-2	Total/NA	Solid	TX 1005	
830-1995-7	B-3	Total/NA	Solid	TX 1005	
830-1995-8	B-3	Total/NA	Solid	TX 1005	
830-1995-9	B-3	Total/NA	Solid	TX 1005	
830-1995-10	B-4	Total/NA	Solid	TX 1005	
830-1995-11	B-4	Total/NA	Solid	TX 1005	
830-1995-12	B-4	Total/NA	Solid	TX 1005	
830-1995-13	B-5	Total/NA	Solid	TX 1005	
830-1995-14	B-5	Total/NA	Solid	TX 1005	
830-1995-15	B-5	Total/NA	Solid	TX 1005	
830-1995-16	B-6	Total/NA	Solid	TX 1005	
830-1995-17	B-6	Total/NA	Solid	TX 1005	
830-1995-18	B-6	Total/NA	Solid	TX 1005	
830-1995-19	B-7	Total/NA	Solid	TX 1005	
830-1995-20	B-7	Total/NA	Solid	TX 1005	
830-1995-21	B-7	Total/NA	Solid	TX 1005	
830-1995-22	B-8	Total/NA	Solid	TX 1005	
830-1995-23	B-8	Total/NA	Solid	TX 1005	
830-1995-24	B-8	Total/NA	Solid	TX 1005	
830-1995-25	B-9	Total/NA	Solid	TX 1005	
830-1995-26	B-9	Total/NA	Solid	TX 1005	
830-1995-27	B-9	Total/NA	Solid	TX 1005	
830-1995-28	B-10	Total/NA	Solid	TX 1005	
830-1995-29	B-10	Total/NA	Solid	TX 1005	
830-1995-30	B-10	Total/NA	Solid	TX 1005	

## Metals

### Prep Batch: 57739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-1	B-1	Total/NA	Solid	7471A	
830-1995-2	B-1	Total/NA	Solid	7471A	
830-1995-3	B-1	Total/NA	Solid	7471A	
830-1995-4	B-2	Total/NA	Solid	7471A	
830-1995-5	B-2	Total/NA	Solid	7471A	
830-1995-6	B-2	Total/NA	Solid	7471A	
830-1995-7	B-3	Total/NA	Solid	7471A	
830-1995-8	B-3	Total/NA	Solid	7471A	
830-1995-9	B-3	Total/NA	Solid	7471A	
830-1995-10	B-4	Total/NA	Solid	7471A	
830-1995-11	B-4	Total/NA	Solid	7471A	
830-1995-12	B-4	Total/NA	Solid	7471A	
830-1995-13	B-5	Total/NA	Solid	7471A	
830-1995-14	B-5	Total/NA	Solid	7471A	
830-1995-15	B-5	Total/NA	Solid	7471A	
830-1995-16	B-6	Total/NA	Solid	7471A	
830-1995-17	B-6	Total/NA	Solid	7471A	
830-1995-18	B-6	Total/NA	Solid	7471A	
830-1995-19	B-7	Total/NA	Solid	7471A	
830-1995-20	B-7	Total/NA	Solid	7471A	

# QC Association Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Metals (Continued)

### Prep Batch: 57739 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-57739/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-57739/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-57739/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
830-1995-1 MS	B-1	Total/NA	Solid	7471A	
830-1995-1 MSD	B-1	Total/NA	Solid	7471A	
830-1995-11 MS	B-4	Total/NA	Solid	7471A	
830-1995-11 MSD	B-4	Total/NA	Solid	7471A	

### Prep Batch: 57776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-21	B-7	Total/NA	Solid	7471A	
830-1995-22	B-8	Total/NA	Solid	7471A	
830-1995-23	B-8	Total/NA	Solid	7471A	
830-1995-24	B-8	Total/NA	Solid	7471A	
830-1995-25	B-9	Total/NA	Solid	7471A	
830-1995-26	B-9	Total/NA	Solid	7471A	
830-1995-27	B-9	Total/NA	Solid	7471A	
830-1995-28	B-10	Total/NA	Solid	7471A	
830-1995-29	B-10	Total/NA	Solid	7471A	
830-1995-30	B-10	Total/NA	Solid	7471A	
MB 860-57776/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-57776/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-57776/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
830-1995-21 MS	B-7	Total/NA	Solid	7471A	
830-1995-21 MSD	B-7	Total/NA	Solid	7471A	
830-1995-30 MS	B-10	Total/NA	Solid	7471A	
830-1995-30 MSD	B-10	Total/NA	Solid	7471A	

### Analysis Batch: 57922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-1	B-1	Total/NA	Solid	7471A	57739
830-1995-2	B-1	Total/NA	Solid	7471A	57739
830-1995-3	B-1	Total/NA	Solid	7471A	57739
830-1995-4	B-2	Total/NA	Solid	7471A	57739
830-1995-5	B-2	Total/NA	Solid	7471A	57739
830-1995-6	B-2	Total/NA	Solid	7471A	57739
830-1995-7	B-3	Total/NA	Solid	7471A	57739
830-1995-8	B-3	Total/NA	Solid	7471A	57739
830-1995-9	B-3	Total/NA	Solid	7471A	57739
830-1995-10	B-4	Total/NA	Solid	7471A	57739
830-1995-11	B-4	Total/NA	Solid	7471A	57739
830-1995-12	B-4	Total/NA	Solid	7471A	57739
830-1995-13	B-5	Total/NA	Solid	7471A	57739
830-1995-14	B-5	Total/NA	Solid	7471A	57739
830-1995-15	B-5	Total/NA	Solid	7471A	57739
830-1995-16	B-6	Total/NA	Solid	7471A	57739
830-1995-17	B-6	Total/NA	Solid	7471A	57739
830-1995-18	B-6	Total/NA	Solid	7471A	57739
830-1995-19	B-7	Total/NA	Solid	7471A	57739
830-1995-20	B-7	Total/NA	Solid	7471A	57739
830-1995-21	B-7	Total/NA	Solid	7471A	57776

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# QC Association Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Metals (Continued)

### Analysis Batch: 57922 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-22	B-8	Total/NA	Solid	7471A	57776
830-1995-23	B-8	Total/NA	Solid	7471A	57776
830-1995-24	B-8	Total/NA	Solid	7471A	57776
830-1995-25	B-9	Total/NA	Solid	7471A	57776
830-1995-26	B-9	Total/NA	Solid	7471A	57776
830-1995-27	B-9	Total/NA	Solid	7471A	57776
830-1995-28	B-10	Total/NA	Solid	7471A	57776
830-1995-29	B-10	Total/NA	Solid	7471A	57776
830-1995-30	B-10	Total/NA	Solid	7471A	57776
MB 860-57739/10-A	Method Blank	Total/NA	Solid	7471A	57739
MB 860-57776/10-A	Method Blank	Total/NA	Solid	7471A	57776
LCS 860-57739/11-A	Lab Control Sample	Total/NA	Solid	7471A	57739
LCS 860-57776/11-A	Lab Control Sample	Total/NA	Solid	7471A	57776
LCSD 860-57739/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	57739
LCSD 860-57776/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	57776
830-1995-1 MS	B-1	Total/NA	Solid	7471A	57739
830-1995-1 MSD	B-1	Total/NA	Solid	7471A	57739
830-1995-11 MS	B-4	Total/NA	Solid	7471A	57739
830-1995-11 MSD	B-4	Total/NA	Solid	7471A	57739
830-1995-21 MS	B-7	Total/NA	Solid	7471A	57776
830-1995-21 MSD	B-7	Total/NA	Solid	7471A	57776
830-1995-30 MS	B-10	Total/NA	Solid	7471A	57776
830-1995-30 MSD	B-10	Total/NA	Solid	7471A	57776

### Prep Batch: 58093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-1	B-1	Total/NA	Solid	3051A	
830-1995-2	B-1	Total/NA	Solid	3051A	
830-1995-3	B-1	Total/NA	Solid	3051A	
830-1995-4	B-2	Total/NA	Solid	3051A	
830-1995-5	B-2	Total/NA	Solid	3051A	
830-1995-6	B-2	Total/NA	Solid	3051A	
830-1995-7	B-3	Total/NA	Solid	3051A	
830-1995-8	B-3	Total/NA	Solid	3051A	
830-1995-9	B-3	Total/NA	Solid	3051A	
830-1995-10	B-4	Total/NA	Solid	3051A	
830-1995-11	B-4	Total/NA	Solid	3051A	
830-1995-12	B-4	Total/NA	Solid	3051A	
830-1995-13	B-5	Total/NA	Solid	3051A	
830-1995-14	B-5	Total/NA	Solid	3051A	
830-1995-15	B-5	Total/NA	Solid	3051A	
830-1995-16	B-6	Total/NA	Solid	3051A	
MB 860-58093/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-58093/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-58093/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

### Prep Batch: 58121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-17	B-6	Total/NA	Solid	3051A	
830-1995-18	B-6	Total/NA	Solid	3051A	
830-1995-19	B-7	Total/NA	Solid	3051A	

# QC Association Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Metals (Continued)

### Prep Batch: 58121 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-20	B-7	Total/NA	Solid	3051A	
830-1995-21	B-7	Total/NA	Solid	3051A	
830-1995-22	B-8	Total/NA	Solid	3051A	
830-1995-23	B-8	Total/NA	Solid	3051A	
830-1995-24	B-8	Total/NA	Solid	3051A	
830-1995-25	B-9	Total/NA	Solid	3051A	
830-1995-26	B-9	Total/NA	Solid	3051A	
830-1995-27	B-9	Total/NA	Solid	3051A	
830-1995-28	B-10	Total/NA	Solid	3051A	
830-1995-29	B-10	Total/NA	Solid	3051A	
830-1995-30	B-10	Total/NA	Solid	3051A	
MB 860-58121/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-58121/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCS 860-58121/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
830-1995-17 MS	B-6	Total/NA	Solid	3051A	
830-1995-17 MSD	B-6	Total/NA	Solid	3051A	

### Analysis Batch: 58718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-1995-1	B-1	Total/NA	Solid	6020A	58093
830-1995-2	B-1	Total/NA	Solid	6020A	58093
830-1995-3	B-1	Total/NA	Solid	6020A	58093
830-1995-4	B-2	Total/NA	Solid	6020A	58093
830-1995-5	B-2	Total/NA	Solid	6020A	58093
830-1995-6	B-2	Total/NA	Solid	6020A	58093
830-1995-7	B-3	Total/NA	Solid	6020A	58093
830-1995-8	B-3	Total/NA	Solid	6020A	58093
830-1995-9	B-3	Total/NA	Solid	6020A	58093
830-1995-10	B-4	Total/NA	Solid	6020A	58093
830-1995-11	B-4	Total/NA	Solid	6020A	58093
830-1995-12	B-4	Total/NA	Solid	6020A	58093
830-1995-13	B-5	Total/NA	Solid	6020A	58093
830-1995-14	B-5	Total/NA	Solid	6020A	58093
830-1995-15	B-5	Total/NA	Solid	6020A	58093
830-1995-16	B-6	Total/NA	Solid	6020A	58093
830-1995-17	B-6	Total/NA	Solid	6020A	58121
830-1995-18	B-6	Total/NA	Solid	6020A	58121
830-1995-19	B-7	Total/NA	Solid	6020A	58121
830-1995-20	B-7	Total/NA	Solid	6020A	58121
830-1995-21	B-7	Total/NA	Solid	6020A	58121
830-1995-22	B-8	Total/NA	Solid	6020A	58121
830-1995-23	B-8	Total/NA	Solid	6020A	58121
830-1995-24	B-8	Total/NA	Solid	6020A	58121
830-1995-25	B-9	Total/NA	Solid	6020A	58121
830-1995-26	B-9	Total/NA	Solid	6020A	58121
830-1995-27	B-9	Total/NA	Solid	6020A	58121
830-1995-28	B-10	Total/NA	Solid	6020A	58121
830-1995-29	B-10	Total/NA	Solid	6020A	58121
830-1995-30	B-10	Total/NA	Solid	6020A	58121
MB 860-58093/1-A	Method Blank	Total/NA	Solid	6020A	58093
MB 860-58121/1-A	Method Blank	Total/NA	Solid	6020A	58121

# QC Association Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Metals (Continued)

### Analysis Batch: 58718 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-58093/2-A	Lab Control Sample	Total/NA	Solid	6020A	58093
LCS 860-58121/2-A	Lab Control Sample	Total/NA	Solid	6020A	58121
LCSD 860-58093/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	58093
LCSD 860-58121/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	58121
830-1995-17 MS	B-6	Total/NA	Solid	6020A	58121
830-1995-17 MSD	B-6	Total/NA	Solid	6020A	58121

# Lab Chronicle

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-1**

**Lab Sample ID: 830-1995-1**

**Date Collected: 06/14/22 08:55**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57337	06/17/22 14:09	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			9.98 g	10 mL	57428	06/17/22 13:51	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57384	06/17/22 19:56	SAR	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.56 g	50 mL	58093	06/22/22 17:41	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 01:45	DP	XEN STF
Total/NA	Prep	7471A			.54 g	50 mL	57739	06/21/22 07:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 13:41	SHZ	XEN STF

**Client Sample ID: B-1**

**Lab Sample ID: 830-1995-2**

**Date Collected: 06/14/22 09:01**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57636	06/20/22 11:27	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57615	06/20/22 19:07	KLV	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.02 g	10 mL	57428	06/17/22 13:51	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57384	06/17/22 20:16	SAR	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.6 g	50 mL	58093	06/22/22 17:41	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 01:48	DP	XEN STF
Total/NA	Prep	7471A			.56 g	50 mL	57739	06/21/22 07:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 13:51	SHZ	XEN STF

**Client Sample ID: B-1**

**Lab Sample ID: 830-1995-3**

**Date Collected: 06/14/22 09:05**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57337	06/17/22 14:29	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.03 g	10 mL	57428	06/17/22 13:51	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57384	06/17/22 20:36	SAR	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.53 g	50 mL	58093	06/22/22 17:41	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 01:51	DP	XEN STF
Total/NA	Prep	7471A			.56 g	50 mL	57739	06/21/22 07:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 13:52	SHZ	XEN STF

# Lab Chronicle

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-2**

**Lab Sample ID: 830-1995-4**

**Date Collected: 06/14/22 09:35**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57337	06/17/22 14:50	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			9.98 g	10 mL	57428	06/17/22 13:51	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57384	06/17/22 20:56	SAR	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.55 g	50 mL	58093	06/22/22 17:41	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 01:55	DP	XEN STF
Total/NA	Prep	7471A			.52 g	50 mL	57739	06/21/22 07:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 13:54	SHZ	XEN STF

**Client Sample ID: B-2**

**Lab Sample ID: 830-1995-5**

**Date Collected: 06/14/22 09:40**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	57636	06/20/22 11:27	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57615	06/20/22 18:45	KLV	XEN STF
Total/NA	Prep	5035			4.96 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57368	06/17/22 22:01	KLV	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10 g	10 mL	57428	06/17/22 13:51	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57384	06/17/22 21:16	SAR	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.6 g	50 mL	58093	06/22/22 17:41	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 01:58	DP	XEN STF
Total/NA	Prep	7471A			.54 g	50 mL	57739	06/21/22 07:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 13:55	SHZ	XEN STF

**Client Sample ID: B-2**

**Lab Sample ID: 830-1995-6**

**Date Collected: 06/14/22 09:45**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57337	06/17/22 15:10	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			9.98 g	10 mL	57428	06/17/22 13:51	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57384	06/17/22 22:16	SAR	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.53 g	50 mL	58093	06/22/22 17:41	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 02:01	DP	XEN STF
Total/NA	Prep	7471A			.54 g	50 mL	57739	06/21/22 07:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 13:57	SHZ	XEN STF

# Lab Chronicle

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-3**

**Lab Sample ID: 830-1995-7**

**Date Collected: 06/14/22 10:10**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57337	06/17/22 15:31	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.01 g	10 mL	57428	06/17/22 13:51	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57384	06/17/22 22:35	SAR	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.51 g	50 mL	58093	06/22/22 17:41	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 02:04	DP	XEN STF
Total/NA	Prep	7471A			.52 g	50 mL	57739	06/21/22 07:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 13:58	SHZ	XEN STF

**Client Sample ID: B-3**

**Lab Sample ID: 830-1995-8**

**Date Collected: 06/14/22 10:15**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	57636	06/20/22 11:27	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57615	06/20/22 18:00	KLV	XEN STF
Total/NA	Prep	5035			5.03 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57368	06/17/22 22:24	KLV	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10 g	10 mL	57428	06/17/22 13:51	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57384	06/17/22 22:55	SAR	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.53 g	50 mL	58093	06/22/22 17:41	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 02:14	DP	XEN STF
Total/NA	Prep	7471A			.51 g	50 mL	57739	06/21/22 07:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 13:59	SHZ	XEN STF

**Client Sample ID: B-3**

**Lab Sample ID: 830-1995-9**

**Date Collected: 06/14/22 10:20**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57337	06/17/22 15:51	MTMG	XEN STF
Total/NA	Prep	3546			16.00 g	1.0 mL	58538	06/25/22 09:16	DR	XEN STF
Total/NA	Analysis	8270D SIM		1			58741	06/27/22 21:35	T1S	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10 g	10 mL	57428	06/17/22 13:51	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57384	06/17/22 23:15	SAR	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.6 g	50 mL	58093	06/22/22 17:41	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 02:17	DP	XEN STF
Total/NA	Prep	7471A			.58 g	50 mL	57739	06/21/22 07:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 14:01	SHZ	XEN STF

# Lab Chronicle

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-4**

**Lab Sample ID: 830-1995-10**

**Date Collected: 06/14/22 10:45**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57337	06/17/22 16:11	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.03 g	10 mL	57428	06/17/22 13:51	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57384	06/17/22 23:35	SAR	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.56 g	50 mL	58093	06/22/22 17:41	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 02:20	DP	XEN STF
Total/NA	Prep	7471A			.5 g	50 mL	57739	06/21/22 07:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 14:02	SHZ	XEN STF

**Client Sample ID: B-4**

**Lab Sample ID: 830-1995-11**

**Date Collected: 06/14/22 10:50**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	57636	06/20/22 11:27	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57615	06/20/22 18:22	KLV	XEN STF
Total/NA	Prep	5035			4.97 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57368	06/17/22 22:48	KLV	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10 g	10 mL	57428	06/17/22 13:51	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57384	06/17/22 23:54	SAR	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.6 g	50 mL	58093	06/22/22 17:41	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 02:23	DP	XEN STF
Total/NA	Prep	7471A			.51 g	50 mL	57739	06/21/22 07:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 14:06	SHZ	XEN STF

**Client Sample ID: B-4**

**Lab Sample ID: 830-1995-12**

**Date Collected: 06/14/22 10:55**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57337	06/17/22 16:32	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.02 g	10 mL	57428	06/17/22 13:51	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57384	06/18/22 00:14	SAR	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.56 g	50 mL	58093	06/22/22 17:41	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 02:26	DP	XEN STF
Total/NA	Prep	7471A			.54 g	50 mL	57739	06/21/22 07:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 14:13	SHZ	XEN STF

# Lab Chronicle

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-5**

**Lab Sample ID: 830-1995-13**

**Date Collected: 06/14/22 11:20**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57337	06/17/22 16:52	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			9.98 g	10 mL	57428	06/17/22 13:51	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57384	06/18/22 00:33	SAR	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.54 g	50 mL	58093	06/22/22 17:41	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 02:30	DP	XEN STF
Total/NA	Prep	7471A			.57 g	50 mL	57739	06/21/22 07:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 14:14	SHZ	XEN STF

**Client Sample ID: B-5**

**Lab Sample ID: 830-1995-14**

**Date Collected: 06/14/22 11:25**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57615	06/20/22 21:45	KLV	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.03 g	10 mL	57428	06/17/22 13:51	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57384	06/18/22 00:53	SAR	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.54 g	50 mL	58093	06/22/22 17:41	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 02:33	DP	XEN STF
Total/NA	Prep	7471A			.57 g	50 mL	57739	06/21/22 07:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 14:16	SHZ	XEN STF

**Client Sample ID: B-5**

**Lab Sample ID: 830-1995-15**

**Date Collected: 06/14/22 11:30**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57337	06/17/22 17:13	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.05 g	10 mL	57428	06/17/22 13:51	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57384	06/18/22 01:12	SAR	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.54 g	50 mL	58093	06/22/22 17:41	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 02:36	DP	XEN STF
Total/NA	Prep	7471A			.56 g	50 mL	57739	06/21/22 07:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 14:17	SHZ	XEN STF



# Lab Chronicle

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-6**

**Lab Sample ID: 830-1995-16**

Date Collected: 06/14/22 13:30

Matrix: Solid

Date Received: 06/15/22 14:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57337	06/17/22 17:33	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.01 g	10 mL	57428	06/17/22 13:51	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57384	06/18/22 02:11	SAR	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.51 g	50 mL	58093	06/22/22 17:41	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 02:39	DP	XEN STF
Total/NA	Prep	7471A			.51 g	50 mL	57739	06/21/22 07:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 14:21	SHZ	XEN STF

**Client Sample ID: B-6**

**Lab Sample ID: 830-1995-17**

Date Collected: 06/14/22 13:35

Matrix: Solid

Date Received: 06/15/22 14:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57615	06/20/22 22:07	KLV	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10 g	10 mL	57428	06/17/22 13:51	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57384	06/18/22 02:30	SAR	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.56 g	50 mL	58121	06/22/22 19:32	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 03:01	DP	XEN STF
Total/NA	Prep	7471A			.52 g	50 mL	57739	06/21/22 07:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 14:23	SHZ	XEN STF

**Client Sample ID: B-6**

**Lab Sample ID: 830-1995-18**

Date Collected: 06/14/22 13:40

Matrix: Solid

Date Received: 06/15/22 14:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57337	06/17/22 17:54	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.03 g	10 mL	57428	06/17/22 13:51	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57384	06/18/22 02:49	SAR	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.58 g	50 mL	58121	06/22/22 19:32	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 03:24	DP	XEN STF
Total/NA	Prep	7471A			.54 g	50 mL	57739	06/21/22 07:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 14:24	SHZ	XEN STF

# Lab Chronicle

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-7**

**Lab Sample ID: 830-1995-19**

**Date Collected: 06/14/22 14:00**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57337	06/17/22 18:14	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.03 g	10 mL	57428	06/17/22 13:51	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57384	06/18/22 03:09	SAR	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.53 g	50 mL	58121	06/22/22 19:32	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 03:27	DP	XEN STF
Total/NA	Prep	7471A			.52 g	50 mL	57739	06/21/22 07:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 14:25	SHZ	XEN STF

**Client Sample ID: B-7**

**Lab Sample ID: 830-1995-20**

**Date Collected: 06/14/22 14:05**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57827	06/21/22 12:22	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57798	06/21/22 16:34	KLV	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10 g	10 mL	57488	06/17/22 16:06	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57382	06/17/22 20:56	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.58 g	50 mL	58121	06/22/22 19:32	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 03:30	DP	XEN STF
Total/NA	Prep	7471A			.51 g	50 mL	57739	06/21/22 07:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 14:27	SHZ	XEN STF

**Client Sample ID: B-7**

**Lab Sample ID: 830-1995-21**

**Date Collected: 06/14/22 14:10**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57337	06/17/22 18:34	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.01 g	10 mL	57488	06/17/22 16:06	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57382	06/17/22 21:16	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.57 g	50 mL	58121	06/22/22 19:32	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 03:33	DP	XEN STF
Total/NA	Prep	7471A			.52 g	50 mL	57776	06/21/22 07:54	MD	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 16:19	SHZ	XEN STF

# Lab Chronicle

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-8**

**Lab Sample ID: 830-1995-22**

**Date Collected: 06/14/22 14:35**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57579	06/20/22 15:00	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.01 g	10 mL	57488	06/17/22 16:06	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57382	06/17/22 22:16	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.54 g	50 mL	58121	06/22/22 19:32	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 03:36	DP	XEN STF
Total/NA	Prep	7471A			.55 g	50 mL	57776	06/21/22 07:54	MD	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 16:29	SHZ	XEN STF

**Client Sample ID: B-8**

**Lab Sample ID: 830-1995-23**

**Date Collected: 06/14/22 14:40**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	57827	06/21/22 12:22	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57798	06/21/22 16:56	KLV	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.01 g	10 mL	57488	06/17/22 16:06	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57382	06/17/22 22:35	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.56 g	50 mL	58121	06/22/22 19:32	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 03:40	DP	XEN STF
Total/NA	Prep	7471A			.57 g	50 mL	57776	06/21/22 07:54	MD	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 16:31	SHZ	XEN STF

**Client Sample ID: B-8**

**Lab Sample ID: 830-1995-24**

**Date Collected: 06/14/22 14:45**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57579	06/20/22 15:20	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.05 g	10 mL	57488	06/17/22 16:06	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57382	06/17/22 22:55	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.53 g	50 mL	58121	06/22/22 19:32	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 03:43	DP	XEN STF
Total/NA	Prep	7471A			.53 g	50 mL	57776	06/21/22 07:54	MD	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 16:32	SHZ	XEN STF

# Lab Chronicle

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-9**

**Lab Sample ID: 830-1995-25**

**Date Collected: 06/14/22 15:10**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57579	06/20/22 14:39	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10 g	10 mL	57488	06/17/22 16:06	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57382	06/17/22 23:15	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.6 g	50 mL	58121	06/22/22 19:32	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 03:46	DP	XEN STF
Total/NA	Prep	7471A			.54 g	50 mL	57776	06/21/22 07:54	MD	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 16:33	SHZ	XEN STF

**Client Sample ID: B-9**

**Lab Sample ID: 830-1995-26**

**Date Collected: 06/14/22 15:15**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	57827	06/21/22 12:22	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57798	06/21/22 17:19	KLV	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.01 g	10 mL	57488	06/17/22 16:06	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57382	06/17/22 23:35	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.55 g	50 mL	58121	06/22/22 19:32	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 03:49	DP	XEN STF
Total/NA	Prep	7471A			.54 g	50 mL	57776	06/21/22 07:54	MD	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 16:35	SHZ	XEN STF

**Client Sample ID: B-9**

**Lab Sample ID: 830-1995-27**

**Date Collected: 06/14/22 15:25**

**Matrix: Solid**

**Date Received: 06/15/22 14:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57579	06/20/22 15:40	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			9.98 g	10 mL	57488	06/17/22 16:06	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57382	06/17/22 23:54	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.6 g	50 mL	58121	06/22/22 19:32	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 03:52	DP	XEN STF
Total/NA	Prep	7471A			.52 g	50 mL	57776	06/21/22 07:54	MD	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 16:36	SHZ	XEN STF

# Lab Chronicle

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-10**

**Lab Sample ID: 830-1995-28**

Date Collected: 06/14/22 15:45

Matrix: Solid

Date Received: 06/15/22 14:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57579	06/20/22 16:01	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.04 g	10 mL	57488	06/17/22 16:06	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57382	06/18/22 00:14	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.56 g	50 mL	58121	06/22/22 19:32	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 04:02	DP	XEN STF
Total/NA	Prep	7471A			.52 g	50 mL	57776	06/21/22 07:54	MD	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 16:38	SHZ	XEN STF

**Client Sample ID: B-10**

**Lab Sample ID: 830-1995-29**

Date Collected: 06/14/22 15:54

Matrix: Solid

Date Received: 06/15/22 14:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57827	06/21/22 12:22	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57800	06/21/22 16:56	KLV	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10 g	10 mL	57488	06/17/22 16:06	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57382	06/18/22 00:33	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.56 g	50 mL	58121	06/22/22 19:32	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 04:05	DP	XEN STF
Total/NA	Prep	7471A			.52 g	50 mL	57776	06/21/22 07:54	MD	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 16:39	SHZ	XEN STF

**Client Sample ID: B-10**

**Lab Sample ID: 830-1995-30**

Date Collected: 06/14/22 16:00

Matrix: Solid

Date Received: 06/15/22 14:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57360	06/17/22 09:40	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57579	06/20/22 16:21	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			9.98 g	10 mL	57488	06/17/22 16:06	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57382	06/18/22 00:53	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/20/22 18:03	DD	XEN STF
Total/NA	Prep	3051A			.52 g	50 mL	58121	06/22/22 19:32	PB	XEN STF
Total/NA	Analysis	6020A		10			58718	06/25/22 04:08	DP	XEN STF
Total/NA	Prep	7471A			.51 g	50 mL	57776	06/21/22 07:54	MD	XEN STF
Total/NA	Analysis	7471A		1			57922	06/21/22 16:45	SHZ	XEN STF

**Laboratory References:**

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

# Accreditation/Certification Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D SIM	3546	Solid	Dibenzofuran

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Method Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	XEN STF
TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	TCEQ	XEN STF
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
3546	Microwave Extraction	SW846	XEN STF
5035	Closed System Purge and Trap	SW846	XEN STF
7471A	Preparation, Mercury	SW846	XEN STF
TX_1005_S_Prep	Extraction - Texas Total petroleum Hyrdocarbons	TCEQ	XEN STF

#### Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.  
TCEQ = Texas Commission of Environmental Quality

#### Laboratory References:

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

# Sample Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C -22-01

Job ID: 830-1995-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
830-1995-1	B-1	Solid	06/14/22 08:55	06/15/22 14:21	5
830-1995-2	B-1	Solid	06/14/22 09:01	06/15/22 14:21	10
830-1995-3	B-1	Solid	06/14/22 09:05	06/15/22 14:21	15
830-1995-4	B-2	Solid	06/14/22 09:35	06/15/22 14:21	5
830-1995-5	B-2	Solid	06/14/22 09:40	06/15/22 14:21	10
830-1995-6	B-2	Solid	06/14/22 09:45	06/15/22 14:21	15
830-1995-7	B-3	Solid	06/14/22 10:10	06/15/22 14:21	5
830-1995-8	B-3	Solid	06/14/22 10:15	06/15/22 14:21	10
830-1995-9	B-3	Solid	06/14/22 10:20	06/15/22 14:21	15
830-1995-10	B-4	Solid	06/14/22 10:45	06/15/22 14:21	5
830-1995-11	B-4	Solid	06/14/22 10:50	06/15/22 14:21	10
830-1995-12	B-4	Solid	06/14/22 10:55	06/15/22 14:21	15
830-1995-13	B-5	Solid	06/14/22 11:20	06/15/22 14:21	5
830-1995-14	B-5	Solid	06/14/22 11:25	06/15/22 14:21	10
830-1995-15	B-5	Solid	06/14/22 11:30	06/15/22 14:21	15
830-1995-16	B-6	Solid	06/14/22 13:30	06/15/22 14:21	5
830-1995-17	B-6	Solid	06/14/22 13:35	06/15/22 14:21	10
830-1995-18	B-6	Solid	06/14/22 13:40	06/15/22 14:21	15
830-1995-19	B-7	Solid	06/14/22 14:00	06/15/22 14:21	5
830-1995-20	B-7	Solid	06/14/22 14:05	06/15/22 14:21	10
830-1995-21	B-7	Solid	06/14/22 14:10	06/15/22 14:21	15
830-1995-22	B-8	Solid	06/14/22 14:35	06/15/22 14:21	5
830-1995-23	B-8	Solid	06/14/22 14:40	06/15/22 14:21	10
830-1995-24	B-8	Solid	06/14/22 14:45	06/15/22 14:21	15
830-1995-25	B-9	Solid	06/14/22 15:10	06/15/22 14:21	5
830-1995-26	B-9	Solid	06/14/22 15:15	06/15/22 14:21	10
830-1995-27	B-9	Solid	06/14/22 15:25	06/15/22 14:21	15
830-1995-28	B-10	Solid	06/14/22 15:45	06/15/22 14:21	5
830-1995-29	B-10	Solid	06/14/22 15:54	06/15/22 14:21	10
830-1995-30	B-10	Solid	06/14/22 16:00	06/15/22 14:21	15





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# CHAIN OF CUSTODY

Page 1 OF 4

Client / Reporting Information		Project Information		Xenoco Quote #		Xenoco Job #		Matrix Codes													
Company Name / Branch: <b>ESSCO Environmental, Inc.</b>		Project Name/Number: <b>B&amp;C-22-01</b>																			
Company Address: <b>1000 Newman St. El Paso, Texas 79902</b>		Project Location: <b>Boone Phase 2 &amp; 2a - 4100 Delta, EPTX</b>																			
Email: <b>ecouroux@esscogroup.org</b> Phone No: <b>(915) 533-1102</b>		Invoice To:																			
Project Contact: <b>Robert Niehary</b>		PO Number:																			
Sampler's Name: <b>Niehary</b>																					
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCl	Number of preserved bottles		Analytical Information											
1	B-1	5 ft	6/14/2022	8:55	S	1		NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	TX-1005 (TPH)	BTEX w/ MTBE	** PAH **	Semi Vols (8310)	RCRA8 Memetals	VOCs	
2	B-1	10 ft	6/14/2022	9:01	S	2									X	X	X	X	X	X	
3	B-1	15 ft	6/14/2022	9:05	S	1									X	X	X	X	X	X	
4	B-2	5 ft	6/14/2022	9:35	S	1									X	X	X	X	X	X	
5	B-2	10 ft	6/14/2022	9:40	S	2									X	X	X	X	X	X	
6	B-2	15 ft	6/14/2022	9:45	S	1									X	X	X	X	X	X	
7	B-3	5 ft	6/14/2022	10:10	S	1									X	X	X	X	X	X	
8	B-3	10 ft	6/14/2022	10:15	S	2									X	X	X	X	X	X	
9	B-3	15 ft	6/14/2022	10:20	S	1									X	X	X	X	X	X	
10																					
Turnaround Time ( Business days)											Data Deliverable Information										
<input type="checkbox"/> Same Day TAT			<input type="checkbox"/> 5 Day TAT			<input type="checkbox"/> Level II Std QC			<input type="checkbox"/> Level IV (Full Data Pkg /raw data)			Run PAH on water sample if there are TPH hits.									
<input type="checkbox"/> Next Day EMERGENCY			<input checked="" type="checkbox"/> 7 Day TAT			<input type="checkbox"/> Level III Std QC+ Forms			<input type="checkbox"/> TRRP Level IV			Run PAH on highest TPH soil sample concentration.									
<input type="checkbox"/> 2 Day EMERGENCY			<input type="checkbox"/> Contract TAT			<input type="checkbox"/> Level 3 (CLP Forms)			<input type="checkbox"/> UST / RG-411												
<input type="checkbox"/> 3 Day EMERGENCY						<input type="checkbox"/> TRRP Checklist															
TAT Starts Day received by Lab, if received by 5:00 pm											Notes:										
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																					
Relinquished by Sampler: <i>[Signature]</i>		Date Time: <i>6/15/22 10:15 AM</i>		Received By: <i>[Signature]</i>		Date Time: <i>6/15/22 11:21 AM</i>		Relinquished By: <i>[Signature]</i>		Date Time: <i>6/15/22 11:21 AM</i>		Received By: <i>[Signature]</i>		Date Time: <i>6/15/22 11:21 AM</i>		Received By: <i>[Signature]</i>		Date Time: <i>6/15/22 11:21 AM</i>		Received By: <i>[Signature]</i>	
Relinquished by:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Received By:		Date Time:		Received By:	
Relinquished by:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Received By:		Date Time:		Received By:	
Relinquished by:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Received By:		Date Time:		Received By:	
Relinquished by:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Received By:		Date Time:		Received By:	



Loc: 830  
1995

- W = Water
- S = Soil/Sed/Solid
- GW = Ground Water
- DW = Drinking Water
- P = Product
- SW = Surface water
- SL = Sludge
- OW = Ocean/Sea Water
- WI = Wipe
- O = Oil
- WW = Waste Water
- A = Air

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenoco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenoco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenoco. A minimum charge of \$75 will be applied to each project. Xenoco's liability will be limited to the cost of samples. Any samples received by Xenoco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.



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# CHAIN OF CUSTODY

Page 2 of 4

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes															
Company Name / Branch: <b>ESSCO Environmental, Inc.</b>		Project Name/Number: <b>B&amp;C-22-01</b>		Xenco Quote #		Xenco Job #															
Company Address: <b>1000 Newman St. El Paso, Texas 79902</b>		Project Location: <b>Boone Phase 2 &amp; 2a - 4100 Della, EPTX</b>		Matrix Codes		W = Water S = Soil/Sed/Solid GW = Ground Water DW = Drinking Water P = Product SW = Surface Water SL = Sludge OW = Ocean/Sea Water WI = Wipe O = Oil WM = Waste Water A = Air															
Email: <b>ecouroux@esscogroup.org</b> Phone No: <b>(915) 533-1102</b>		Invoice To:		Field Comments																	
Project Contact: <b>Robert Niehay</b>		PO Number:																			
Sampler's Name: <b>Niehay</b>																					
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MeOH	None	TX-1005 (TPH)	BTEX w/ MTBE	** PAH **	Semi Vols (8310)	RCRA8 Memetals	VOCs	
1	B-4	5 ft	6/14/2022	10:45	S	1									X	X	X				
2	B-4	10 ft	6/14/2022	10:50	S	2									X	X	X				
3	B-4	15 ft	6/14/2022	10:55	S	1									X	X	X				
4	B-5	5 ft	6/14/2022	11:20	S	1									X	X	X				
5	B-5	10 ft	6/14/2022	11:25	S	2									X	X	X				
6	B-5	15 ft	6/14/2022	11:30	S	1									X	X	X				
7	B-6	5 ft	6/14/2022	13:30	S	1									X	X	X				
8	B-6	10 ft	6/14/2022	13:35	S	2									X	X	X				
9	B-6	15 ft	6/14/2022	13:40	S	1									X	X	X				
10																					

**TAT Starts Day received by Lab, if received by 5:00 pm**

**Turnaround Time (Business days)**

Same Day TAT  5 Day TAT

Next Day EMERGENCY  7 Day TAT

2 Day EMERGENCY  Contract TAT

3 Day EMERGENCY  TRRP Checklist

**DATA DELIVERABLE INFORMATION**

Level II Std QC  Level IV (Full Data Pkg /raw data)

Level III Std QC+ Forms  TRRP Level IV

Level 3 (CLP Forms)  UST / RG-411

**Notes:** Run PAH on water sample if there are TPH hits. Run PAH on highest TPH soil sample concentration.

**Chain of Custody:**

Received By:	Date Time:	Received By:	Date Time:	Received By:	Date Time:	Received By:	Date Time:
1	6/16/22	2		3		4	
Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:	
Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:	
Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:	

On Ice  Cooler Temp. **52.5** Thermo Corr. Factor **1.00**

Preserved where applicable

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# CHAIN OF CUSTODY

Page 3 Of 4

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes	
Company Name / Branch: ESSCO Environmental, Inc.		Project Name/Number: B&C-22-01					
Company Address: 1000 Newman St. El Paso, Texas 79902		Project Location: Boone Phase 2 & 2a - 4100 Delta, EPTX					
Email: ecoulroux@esscoenv.com Phone No: (915) 533-1102		Invoice To:					
Project Contact: Robert Niehaya		PO Number:					
Sample's Name: Rniehaya							

No.	Field ID / Point of Collection	Collection			Number of preserved bottles							TX-1005 (TPH)	BTEX w/ MTBE	** PAH **	Semi Vols (8310)	RCRA8 Memetals	VOCs	Field Comments
		Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH							
1	B-7	5 ft	6/14/2022	14:00	S	1												
2	B-7	10 ft	6/14/2022	14:05	S	2												
3	B-7	15 ft	6/14/2022	14:10	S	1												
4	B-8	5 ft	6/14/2022	14:35	S	1												
5	B-8	10 ft	6/14/2022	14:40	S	2												
6	B-8	15 ft	6/14/2022	14:45	S	1												
7	B-9	5 ft	6/14/2022	15:10	S	1												
8	B-9	10 ft	6/14/2022	15:15	S	2												
9	B-9	15 ft	6/14/2022	15:25	S	1												
10																		

Turnaround Time (Business days)		Data Deliverable Information	
<input type="checkbox"/> Same Day TAT	<input type="checkbox"/> 5 Day TAT	<input type="checkbox"/> Level II Std QC	<input type="checkbox"/> Level IV (Full Data Pkg / raw data)
<input type="checkbox"/> Next Day EMERGENCY	<input checked="" type="checkbox"/> 7 Day TAT	<input type="checkbox"/> Level III Std QC + Forms	<input type="checkbox"/> TRRP Level IV
<input type="checkbox"/> 2 Day EMERGENCY	<input type="checkbox"/> Contract TAT	<input type="checkbox"/> Level 3 (CLP Forms)	<input type="checkbox"/> UST / RG -411
<input type="checkbox"/> 3 Day EMERGENCY		<input type="checkbox"/> TRRP Checklist	

TAT Starts Day received by Lab. if received by 5:00 pm

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished by:	Date Time:	Received By:	Date Time:	Relinquished by:	Date Time:	Received By:	Date Time:	Relinquished by:	Date Time:	Received By:	Date Time:

Relinquished by:	Date Time:	Received By:	Date Time:	Relinquished by:	Date Time:	Received By:	Date Time:	Relinquished by:	Date Time:	Received By:	Date Time:

Notes: Run PAH on water sample if there are TPH hits.  
 Run PAH on highest TPH soil sample concentration.

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

On Ice Cooler Temp. Thermo. Corr. Factor

5.2152 12 10.0



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# CHAIN OF CUSTODY

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Phoenix, Arizona (480-355-0900)

Client / Reporting Information		Project Information		Xenco Quote #		Xenco Job #		Matrix Codes													
Company Name / Branch: <b>ESSCO Environmental, Inc.</b>		Project Name/Number: <b>B&amp;C-22-01</b>						W = Water S = Soil/Sed/Solid GW = Ground Water DW = Drinking Water P = Product SW = Surface water SL = Sludge OW = Ocean/Sea Water WI = Wipe O = Oil WW = Waste Water A = Air													
Company Address: <b>1000 Newman St. El Paso, Texas 79902</b>		Project Location: <b>Boone Phase 2 &amp; 2a - 4100 Delta, EPTX</b>																			
Email: <b>ecouroux@esscogroup.org</b> Phone No: <b>(915) 533-1102</b>		Invoice To:																			
Email: <b>tmehay@esscogroup.org</b>		PO Number:																			
Project Contact: <b>Robert Mehay</b>																					
Sampler's Name: <b>Rmhay</b>																					
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	None	TX-1005 (TPH)	BTEX w/ MTBE	** PAH **	Semi Vols (8310)	RCRA8 Memetals	VOCs	Field Comments
1	B-10	5 ft	6/14/2022	15:45	S	1									X	X	X				
2	B-10	10 ft	6/14/2022	15:54	S	2									X	X	X				
3	B-10	15 ft	6/14/2022	16:00	S	1									X	X	X				
4																					
5																					
6																					
7																					
8																					
9																					
10																					
Turnaround Time (Business days)		Date Deliverable Information		Notes:																	
<input type="checkbox"/> Same Day TAT		<input type="checkbox"/> 5 Day TAT		Run PAH on water sample if there are TPH hits.																	
<input type="checkbox"/> Next Day EMERGENCY		<input checked="" type="checkbox"/> 7 Day TAT		Run PAH on highest TPH soil sample concentration.																	
<input type="checkbox"/> 2 Day EMERGENCY		<input type="checkbox"/> Contract TAT																			
<input type="checkbox"/> 3 Day EMERGENCY		<input type="checkbox"/> TRRP Checklist																			
TAT Starts Day received by Lab, if received by 5:00 pm																					
Reinquinshed by Sampler:		Date Time:		Received By:		Date Time:		Reinquinshed By:		Date Time:		Received By:		Date Time:		Reinquinshed By:		Date Time:		Received By:	
1		6/15/22		[Signature]		6:15:22		[Signature]		6:15:22		[Signature]		6:15:22		[Signature]		6:15:22		[Signature]	
3		6/15/22		[Signature]		6:15:22		[Signature]		6:15:22		[Signature]		6:15:22		[Signature]		6:15:22		[Signature]	
5		6/15/22		[Signature]		6:15:22		[Signature]		6:15:22		[Signature]		6:15:22		[Signature]		6:15:22		[Signature]	

## Login Sample Receipt Checklist

Client: ESSCO Environmental, Inc.

Job Number: 830-1995-1  
SDG Number: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Login Number: 1995**  
**List Number: 1**  
**Creator: Aparicio, Niria**

**List Source: Eurofins El Paso**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



# Login Sample Receipt Checklist

Client: ESSCO Environmental, Inc.

Job Number: 830-1995-1  
SDG Number: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Login Number: 1995**  
**List Number: 2**  
**Creator: Milone, Jeancarlo**

**List Source: Eurofins Houston**  
**List Creation: 06/16/22 02:53 PM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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?	N/A	
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 <6mm (1/4").	True	



## ANALYTICAL REPORT

Eurofins El Paso  
200 East Sunset Rd.  
Suite E  
El Paso, TX 79922  
Tel: (915)585-3443

Laboratory Job ID: 830-2005-1

Laboratory SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX  
Client Project/Site: B&C-22-01

For:  
ESSCO Environmental, Inc.  
1000 Newman St.  
El Paso, Texas 79902

Attn: Emile G Couroux



Authorized for release by:

6/30/2022 8:52:03 PM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

Designee for

Holly Taylor, Project Manager  
(806)794-1296

[Holly.Taylor@et.eurofinsus.com](mailto:Holly.Taylor@et.eurofinsus.com)

### LINKS

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results through



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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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# Definitions/Glossary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

### GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

### Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

## 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

# Case Narrative

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Job ID: 830-2005-1

### Laboratory: Eurofins El Paso

#### Narrative

#### Job Narrative 830-2005-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 6/16/2022 9:38 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 was 17.2° C.

#### GC/MS VOA

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 860-57449 and analytical batch 860-57798 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria of 20% for 1,1,2,2-Tetrachloroethane (27.4%), 1,2,3-Trichloropropane (28.0%), 2,2-Dichloropropane (21.9%), Bromomethane (27.4%), Chloroethane (28.3%), Chloroform (23.8%), Methyl tert-butyl ether (24.7%), and n-Butylbenzene (20.9%).

Method 8260C: The laboratory control sample (LCS) for analytical batch 860-57798 recovered outside control limits for the following analytes: Bromomethane and Chloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 860-57798 recovered outside control limits for the following analytes: Bromomethane and Chloroethane. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 860-57798 recovered outside control limits for the following analyte(s): Hexachlorobutadiene. Hexachlorobutadiene has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria of 20% for 1,2-Dichloroethane (-27.5%), Bromomethane (-23.4%), and Trichlorofluoromethane (21.4%).

Method 8260C: The matrix spike (MS) recoveries for preparation batch 860-57994 and analytical batch 860-57878 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260C: The following samples were diluted due to being a sludge: (860-28197-A-1-E) and (860-28197-A-1-E MS). Elevated reporting limits (RL) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### General Chemistry

# Case Narrative

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

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## Job ID: 830-2005-1 (Continued)

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### Laboratory: Eurofins El Paso (Continued)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-11**

**Lab Sample ID: 830-2005-1**

Date Collected: 06/15/22 08:05

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 5

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000206	U	0.000996	0.000206	mg/Kg		06/20/22 15:49	06/21/22 15:27	1
Toluene	<0.000996	U	0.00498	0.000996	mg/Kg		06/20/22 15:49	06/21/22 15:27	1
Ethylbenzene	<0.000334	U	0.000996	0.000334	mg/Kg		06/20/22 15:49	06/21/22 15:27	1
m,p-Xylenes	<0.000797	U	0.00199	0.000797	mg/Kg		06/20/22 15:49	06/21/22 15:27	1
o-Xylene	<0.000981	U	0.000996	0.000981	mg/Kg		06/20/22 15:49	06/21/22 15:27	1
Xylenes, Total	<0.000981	U	0.00199	0.000981	mg/Kg		06/20/22 15:49	06/21/22 15:27	1
MTBE	<0.000407	U	0.00498	0.000407	mg/Kg		06/20/22 15:49	06/21/22 15:27	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	107		56 - 150				06/20/22 15:49	06/21/22 15:27	1
4-Bromofluorobenzene (Surr)	101		68 - 152				06/20/22 15:49	06/21/22 15:27	1
Dibromofluoromethane (Surr)	100		53 - 142				06/20/22 15:49	06/21/22 15:27	1
Toluene-d8 (Surr)	97		70 - 130				06/20/22 15:49	06/21/22 15:27	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.1	21.1	mg/Kg		06/21/22 16:10	06/22/22 02:52	1
>C12-C28	<21.1	U	50.1	21.1	mg/Kg		06/21/22 16:10	06/22/22 02:52	1
>C28-C35	<21.1	U	50.1	21.1	mg/Kg		06/21/22 16:10	06/22/22 02:52	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.1	21.1	mg/Kg			06/21/22 15:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane (Surr)	95		70 - 130				06/21/22 16:10	06/22/22 02:52	1
o-Terphenyl (Surr)	104		70 - 130				06/21/22 16:10	06/22/22 02:52	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.51		3.64	0.561	mg/Kg		06/26/22 15:13	06/28/22 20:55	10
Barium	110	B	3.64	0.315	mg/Kg		06/26/22 15:13	06/28/22 20:55	10
Cadmium	0.349	J	1.82	0.105	mg/Kg		06/26/22 15:13	06/28/22 20:55	10
Chromium	8.69		3.64	0.247	mg/Kg		06/26/22 15:13	06/28/22 20:55	10
Lead	229		1.82	0.176	mg/Kg		06/26/22 15:13	06/28/22 20:55	10
Selenium	0.493	J	1.82	0.451	mg/Kg		06/26/22 15:13	06/28/22 20:55	10
Silver	0.325	J	1.82	0.144	mg/Kg		06/26/22 15:13	06/28/22 20:55	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0958	F1	0.0185	0.00356	mg/Kg		06/23/22 08:18	06/23/22 14:32	1

**Client Sample ID: B-12**

**Lab Sample ID: 830-2005-2**

Date Collected: 06/15/22 09:35

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 5

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000208	U	0.00100	0.000208	mg/Kg		06/20/22 15:49	06/21/22 15:47	1
Toluene	<0.00100	U	0.00502	0.00100	mg/Kg		06/20/22 15:49	06/21/22 15:47	1
Ethylbenzene	<0.000337	U	0.00100	0.000337	mg/Kg		06/20/22 15:49	06/21/22 15:47	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-12**

**Lab Sample ID: 830-2005-2**

Date Collected: 06/15/22 09:35

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 5

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	<0.000803	U	0.00201	0.000803	mg/Kg		06/20/22 15:49	06/21/22 15:47	1
o-Xylene	<0.000989	U	0.00100	0.000989	mg/Kg		06/20/22 15:49	06/21/22 15:47	1
Xylenes, Total	<0.000989	U	0.00201	0.000989	mg/Kg		06/20/22 15:49	06/21/22 15:47	1
MTBE	<0.000410	U	0.00502	0.000410	mg/Kg		06/20/22 15:49	06/21/22 15:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		56 - 150				06/20/22 15:49	06/21/22 15:47	1
4-Bromofluorobenzene (Surr)	103		68 - 152				06/20/22 15:49	06/21/22 15:47	1
Dibromofluoromethane (Surr)	97		53 - 142				06/20/22 15:49	06/21/22 15:47	1
Toluene-d8 (Surr)	95		70 - 130				06/20/22 15:49	06/21/22 15:47	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.1	21.1	mg/Kg		06/21/22 16:10	06/22/22 03:18	1
>C12-C28	<21.1	U	50.1	21.1	mg/Kg		06/21/22 16:10	06/22/22 03:18	1
>C28-C35	<21.1	U	50.1	21.1	mg/Kg		06/21/22 16:10	06/22/22 03:18	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.1	21.1	mg/Kg			06/21/22 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130				06/21/22 16:10	06/22/22 03:18	1
o-Terphenyl (Surr)	99		70 - 130				06/21/22 16:10	06/22/22 03:18	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.39	J	4.00	0.617	mg/Kg		06/26/22 15:13	06/28/22 21:17	10
Barium	84.6	B	4.00	0.347	mg/Kg		06/26/22 15:13	06/28/22 21:17	10
Cadmium	0.177	J	2.00	0.116	mg/Kg		06/26/22 15:13	06/28/22 21:17	10
Chromium	5.33		4.00	0.271	mg/Kg		06/26/22 15:13	06/28/22 21:17	10
Lead	24.2		2.00	0.194	mg/Kg		06/26/22 15:13	06/28/22 21:17	10
Selenium	<0.496	U	2.00	0.496	mg/Kg		06/26/22 15:13	06/28/22 21:17	10
Silver	<0.159	U	2.00	0.159	mg/Kg		06/26/22 15:13	06/28/22 21:17	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0660		0.0182	0.00349	mg/Kg		06/23/22 08:18	06/23/22 14:42	1

**Client Sample ID: B-12**

**Lab Sample ID: 830-2005-3**

Date Collected: 06/15/22 09:45

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.000265	U	0.00497	0.000265	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
1,1,1-Trichloroethane	<0.000500	U	0.00497	0.000500	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
1,1,2,2-Tetrachloroethane	<0.000467	U	0.00497	0.000467	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
1,1,2-Trichloroethane	<0.000390	U	0.00497	0.000390	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
1,1-Dichloroethane	<0.000374	U	0.00497	0.000374	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
1,1-Dichloroethene	<0.000275	U	0.00497	0.000275	mg/Kg		06/22/22 10:44	06/22/22 17:15	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-12**

**Lab Sample ID: 830-2005-3**

Date Collected: 06/15/22 09:45

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<0.000446	U	0.00497	0.000446	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
1,2,3-Trichlorobenzene	<0.00199	U	0.00497	0.00199	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
1,2,3-Trichloropropane	<0.000447	U	0.00497	0.000447	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
1,2,4-Trichlorobenzene	<0.00199	U	0.00497	0.00199	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
1,2,4-Trimethylbenzene	<0.000253	U	0.00497	0.000253	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
1,2-Dibromo-3-Chloropropane	<0.000700	U	0.00497	0.000700	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
1,2-Dibromoethane	<0.00104	U	0.00497	0.00104	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
1,2-Dichlorobenzene	<0.000286	U	0.00497	0.000286	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
1,2-Dichloroethane	<0.000302	U	0.00497	0.000302	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
1,2-Dichloropropane	<0.000197	U	0.00497	0.000197	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
1,3,5-Trimethylbenzene	<0.000287	U	0.00497	0.000287	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
1,3-Dichlorobenzene	<0.000271	U	0.00497	0.000271	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
1,3-Dichloropropane	<0.000406	U	0.00497	0.000406	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
1,4-Dichlorobenzene	<0.000213	U	0.00497	0.000213	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
2,2-Dichloropropane	<0.000521	U	0.00497	0.000521	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
2-Butanone	<0.00362	U	0.0199	0.00362	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
4-Chlorotoluene	<0.000262	U	0.00497	0.000262	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Benzene	<0.000206	U	0.000994	0.000206	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Bromobenzene	<0.000344	U	0.00497	0.000344	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Bromochloromethane	<0.000523	U	0.00497	0.000523	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Bromodichloromethane	<0.000250	U	0.00497	0.000250	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Bromoform	<0.00103	U	0.00497	0.00103	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Bromomethane	<0.000938	U	0.00497	0.000938	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Carbon tetrachloride	<0.00163	U	0.00497	0.00163	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Chlorobenzene	<0.000235	U	0.00497	0.000235	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Chloroethane	<0.000441	U	0.00994	0.000441	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Chloroform	<0.000172	U	0.00497	0.000172	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Chloromethane	<0.000428	U	0.00497	0.000428	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
cis-1,2-Dichloroethene	<0.000299	U	0.00497	0.000299	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
cis-1,3-Dichloropropene	<0.000228	U	0.00497	0.000228	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Dibromochloromethane	<0.000889	U	0.00497	0.000889	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Dichlorodifluoromethane	<0.00111	U	0.00497	0.00111	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Ethylbenzene	<0.000334	U	0.000994	0.000334	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Hexachlorobutadiene	<0.00199	U	0.00497	0.00199	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Isopropylbenzene	<0.000173	U	0.00497	0.000173	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
m,p-Xylenes	<0.000795	U	0.00199	0.000795	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Methylene Chloride	<0.00419	U	0.0199	0.00419	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
MTBE	<0.000406	U	0.00497	0.000406	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Naphthalene	<0.00199	U	0.00994	0.00199	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
n-Butylbenzene	<0.000272	U	0.00497	0.000272	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
N-Propylbenzene	<0.000284	U	0.00497	0.000284	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
o-Xylene	<0.000979	U	0.000994	0.000979	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
p-Cymene (p-Isopropyltoluene)	<0.000317	U	0.00497	0.000317	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
sec-Butylbenzene	<0.000259	U	0.00497	0.000259	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Styrene	<0.000204	U	0.00497	0.000204	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
tert-Butylbenzene	<0.00128	U	0.00497	0.00128	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Tetrachloroethene	<0.000367	U	0.00497	0.000367	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Toluene	<0.000994	U	0.00497	0.000994	mg/Kg		06/22/22 10:44	06/22/22 17:15	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-12**

**Lab Sample ID: 830-2005-3**

Date Collected: 06/15/22 09:45

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000431	U	0.00497	0.000431	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
trans-1,3-Dichloropropene	<0.000904	U	0.00497	0.000904	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Trichloroethene	<0.000491	U	0.00497	0.000491	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Trichlorofluoromethane	<0.000306	U	0.00497	0.000306	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Vinyl chloride	<0.000439	U	0.00497	0.000439	mg/Kg		06/22/22 10:44	06/22/22 17:15	1
Xylenes, Total	<0.000979	U	0.00199	0.000979	mg/Kg		06/22/22 10:44	06/22/22 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		56 - 150	06/22/22 10:44	06/22/22 17:15	1
4-Bromofluorobenzene (Surr)	108		68 - 152	06/22/22 10:44	06/22/22 17:15	1
Dibromofluoromethane (Surr)	89		53 - 142	06/22/22 10:44	06/22/22 17:15	1
Toluene-d8 (Surr)	102		70 - 130	06/22/22 10:44	06/22/22 17:15	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	49.9	21.1	mg/Kg		06/21/22 16:10	06/22/22 02:33	1
>C12-C28	<21.1	U	49.9	21.1	mg/Kg		06/21/22 16:10	06/22/22 02:33	1
>C28-C35	<21.1	U	49.9	21.1	mg/Kg		06/21/22 16:10	06/22/22 02:33	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	49.9	21.1	mg/Kg			06/21/22 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130	06/21/22 16:10	06/22/22 02:33	1
o-Terphenyl (Surr)	103		70 - 130	06/21/22 16:10	06/22/22 02:33	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.06	J	3.64	0.561	mg/Kg		06/26/22 15:13	06/28/22 21:21	10
Barium	67.2	B	3.64	0.315	mg/Kg		06/26/22 15:13	06/28/22 21:21	10
Cadmium	<0.105	U	1.82	0.105	mg/Kg		06/26/22 15:13	06/28/22 21:21	10
Chromium	5.35		3.64	0.247	mg/Kg		06/26/22 15:13	06/28/22 21:21	10
Lead	4.10		1.82	0.176	mg/Kg		06/26/22 15:13	06/28/22 21:21	10
Selenium	<0.451	U	1.82	0.451	mg/Kg		06/26/22 15:13	06/28/22 21:21	10
Silver	<0.144	U	1.82	0.144	mg/Kg		06/26/22 15:13	06/28/22 21:21	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00490	J	0.0192	0.00370	mg/Kg		06/23/22 08:18	06/23/22 14:43	1

**Client Sample ID: B-13**

**Lab Sample ID: 830-2005-4**

Date Collected: 06/15/22 10:20

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 5

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000209	U	0.00101	0.000209	mg/Kg		06/20/22 15:49	06/21/22 16:07	1
Toluene	<0.00101	U	0.00505	0.00101	mg/Kg		06/20/22 15:49	06/21/22 16:07	1
Ethylbenzene	<0.000339	U	0.00101	0.000339	mg/Kg		06/20/22 15:49	06/21/22 16:07	1
m,p-Xylenes	<0.000808	U	0.00202	0.000808	mg/Kg		06/20/22 15:49	06/21/22 16:07	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-13**

**Lab Sample ID: 830-2005-4**

Date Collected: 06/15/22 10:20

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 5

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000995	U	0.00101	0.000995	mg/Kg		06/20/22 15:49	06/21/22 16:07	1
Xylenes, Total	<0.000995	U	0.00202	0.000995	mg/Kg		06/20/22 15:49	06/21/22 16:07	1
MTBE	<0.000413	U	0.00505	0.000413	mg/Kg		06/20/22 15:49	06/21/22 16:07	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	110		56 - 150				06/20/22 15:49	06/21/22 16:07	1
4-Bromofluorobenzene (Surr)	99		68 - 152				06/20/22 15:49	06/21/22 16:07	1
Dibromofluoromethane (Surr)	99		53 - 142				06/20/22 15:49	06/21/22 16:07	1
Toluene-d8 (Surr)	96		70 - 130				06/20/22 15:49	06/21/22 16:07	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.1	21.1	mg/Kg		06/21/22 16:10	06/21/22 21:20	1
>C12-C28	<21.1	U	50.1	21.1	mg/Kg		06/21/22 16:10	06/21/22 21:20	1
>C28-C35	<21.1	U	50.1	21.1	mg/Kg		06/21/22 16:10	06/21/22 21:20	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.1	21.1	mg/Kg			06/21/22 15:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane (Surr)	92		70 - 130				06/21/22 16:10	06/21/22 21:20	1
o-Terphenyl (Surr)	100		70 - 130				06/21/22 16:10	06/21/22 21:20	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14.1		3.57	0.551	mg/Kg		06/26/22 15:13	06/28/22 21:24	10
Barium	64.9	B	3.57	0.310	mg/Kg		06/26/22 15:13	06/28/22 21:24	10
Cadmium	1.10	J	1.79	0.104	mg/Kg		06/26/22 15:13	06/28/22 21:24	10
Chromium	18.5		3.57	0.242	mg/Kg		06/26/22 15:13	06/28/22 21:24	10
Lead	11.2		1.79	0.173	mg/Kg		06/26/22 15:13	06/28/22 21:24	10
Selenium	<0.443	U	1.79	0.443	mg/Kg		06/26/22 15:13	06/28/22 21:24	10
Silver	<0.142	U	1.79	0.142	mg/Kg		06/26/22 15:13	06/28/22 21:24	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00560	J	0.0200	0.00384	mg/Kg		06/23/22 08:18	06/23/22 14:45	1

**Client Sample ID: B-13**

**Lab Sample ID: 830-2005-5**

Date Collected: 06/15/22 10:30

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.000268	U	0.00503	0.000268	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
1,1,1-Trichloroethane	<0.000506	U	0.00503	0.000506	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
1,1,2,2-Tetrachloroethane	<0.000472	U	0.00503	0.000472	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
1,1,2-Trichloroethane	<0.000394	U	0.00503	0.000394	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
1,1-Dichloroethane	<0.000378	U	0.00503	0.000378	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
1,1-Dichloroethene	<0.000279	U	0.00503	0.000279	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
1,1-Dichloropropene	<0.000451	U	0.00503	0.000451	mg/Kg		06/20/22 15:49	06/21/22 23:41	1



# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-13**

**Lab Sample ID: 830-2005-5**

Date Collected: 06/15/22 10:30

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.00201	U	0.00503	0.00201	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
1,2,3-Trichloropropane	<0.000452	U	0.00503	0.000452	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
1,2,4-Trichlorobenzene	<0.00201	U	0.00503	0.00201	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
1,2,4-Trimethylbenzene	<0.000256	U	0.00503	0.000256	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
1,2-Dibromo-3-Chloropropane	<0.000708	U	0.00503	0.000708	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
1,2-Dibromoethane	<0.00105	U	0.00503	0.00105	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
1,2-Dichlorobenzene	<0.000289	U	0.00503	0.000289	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
1,2-Dichloroethane	<0.000306	U	0.00503	0.000306	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
1,2-Dichloropropane	<0.000200	U	0.00503	0.000200	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
1,3,5-Trimethylbenzene	<0.000291	U	0.00503	0.000291	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
1,3-Dichlorobenzene	<0.000274	U	0.00503	0.000274	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
1,3-Dichloropropane	<0.000411	U	0.00503	0.000411	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
1,4-Dichlorobenzene	<0.000216	U	0.00503	0.000216	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
2,2-Dichloropropane	<0.000527	U	0.00503	0.000527	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
2-Butanone	<0.00367	U	0.0201	0.00367	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
4-Chlorotoluene	<0.000265	U	0.00503	0.000265	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Benzene	<0.000208	U	0.00101	0.000208	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Bromobenzene	<0.000348	U	0.00503	0.000348	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Bromochloromethane	<0.000529	U	0.00503	0.000529	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Bromodichloromethane	<0.000253	U	0.00503	0.000253	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Bromoform	<0.00104	U	0.00503	0.00104	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Bromomethane	<0.000949	U **	0.00503	0.000949	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Carbon tetrachloride	<0.00165	U	0.00503	0.00165	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Chlorobenzene	<0.000238	U	0.00503	0.000238	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Chloroethane	<0.000447	U **	0.0101	0.000447	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Chloroform	<0.000174	U	0.00503	0.000174	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Chloromethane	<0.000433	U	0.00503	0.000433	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
cis-1,2-Dichloroethene	<0.000302	U	0.00503	0.000302	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
cis-1,3-Dichloropropene	<0.000231	U	0.00503	0.000231	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Dibromochloromethane	<0.000900	U	0.00503	0.000900	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Dichlorodifluoromethane	<0.00112	U	0.00503	0.00112	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Ethylbenzene	<0.000338	U	0.00101	0.000338	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Hexachlorobutadiene	<0.00201	U *-	0.00503	0.00201	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Isopropylbenzene	<0.000175	U	0.00503	0.000175	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
m,p-Xylenes	<0.000805	U	0.00201	0.000805	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Methylene Chloride	<0.00424	U	0.0201	0.00424	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
MTBE	<0.000411	U	0.00503	0.000411	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Naphthalene	<0.00201	U	0.0101	0.00201	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
n-Butylbenzene	<0.000275	U	0.00503	0.000275	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
N-Propylbenzene	<0.000288	U	0.00503	0.000288	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
o-Xylene	<0.000991	U	0.00101	0.000991	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
p-Cymene (p-Isopropyltoluene)	<0.000320	U	0.00503	0.000320	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
sec-Butylbenzene	<0.000262	U	0.00503	0.000262	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Styrene	<0.000207	U	0.00503	0.000207	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
tert-Butylbenzene	<0.00129	U	0.00503	0.00129	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Tetrachloroethene	<0.000372	U	0.00503	0.000372	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Toluene	<0.00101	U	0.00503	0.00101	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
trans-1,2-Dichloroethene	<0.000436	U	0.00503	0.000436	mg/Kg		06/20/22 15:49	06/21/22 23:41	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-13**

**Lab Sample ID: 830-2005-5**

Date Collected: 06/15/22 10:30

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000915	U	0.00503	0.000915	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Trichloroethene	<0.000497	U	0.00503	0.000497	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Trichlorofluoromethane	<0.000309	U	0.00503	0.000309	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Vinyl chloride	<0.000444	U	0.00503	0.000444	mg/Kg		06/20/22 15:49	06/21/22 23:41	1
Xylenes, Total	<0.000991	U	0.00201	0.000991	mg/Kg		06/20/22 15:49	06/21/22 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		56 - 150	06/20/22 15:49	06/21/22 23:41	1
4-Bromofluorobenzene (Surr)	107		68 - 152	06/20/22 15:49	06/21/22 23:41	1
Dibromofluoromethane (Surr)	110		53 - 142	06/20/22 15:49	06/21/22 23:41	1
Toluene-d8 (Surr)	100		70 - 130	06/20/22 15:49	06/21/22 23:41	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	49.9	21.1	mg/Kg		06/21/22 16:10	06/21/22 21:40	1
>C12-C28	<21.1	U	49.9	21.1	mg/Kg		06/21/22 16:10	06/21/22 21:40	1
>C28-C35	<21.1	U	49.9	21.1	mg/Kg		06/21/22 16:10	06/21/22 21:40	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	49.9	21.1	mg/Kg			06/21/22 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130	06/21/22 16:10	06/21/22 21:40	1
o-Terphenyl (Surr)	101		70 - 130	06/21/22 16:10	06/21/22 21:40	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.898	J	3.70	0.571	mg/Kg		06/26/22 15:13	06/28/22 21:27	10
Barium	50.4	B	3.70	0.321	mg/Kg		06/26/22 15:13	06/28/22 21:27	10
Cadmium	<0.107	U	1.85	0.107	mg/Kg		06/26/22 15:13	06/28/22 21:27	10
Chromium	3.99		3.70	0.251	mg/Kg		06/26/22 15:13	06/28/22 21:27	10
Lead	2.71		1.85	0.179	mg/Kg		06/26/22 15:13	06/28/22 21:27	10
Selenium	<0.459	U	1.85	0.459	mg/Kg		06/26/22 15:13	06/28/22 21:27	10
Silver	<0.147	U	1.85	0.147	mg/Kg		06/26/22 15:13	06/28/22 21:27	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00349	U	0.0182	0.00349	mg/Kg		06/23/22 08:18	06/23/22 14:46	1

**Client Sample ID: B-13**

**Lab Sample ID: 830-2005-6**

Date Collected: 06/15/22 10:35

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 15

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000208	U	0.00100	0.000208	mg/Kg		06/20/22 15:49	06/21/22 16:28	1
Toluene	<0.00100	U	0.00502	0.00100	mg/Kg		06/20/22 15:49	06/21/22 16:28	1
Ethylbenzene	<0.000337	U	0.00100	0.000337	mg/Kg		06/20/22 15:49	06/21/22 16:28	1
m,p-Xylenes	<0.000803	U	0.00201	0.000803	mg/Kg		06/20/22 15:49	06/21/22 16:28	1
o-Xylene	<0.000989	U	0.00100	0.000989	mg/Kg		06/20/22 15:49	06/21/22 16:28	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-13**

**Lab Sample ID: 830-2005-6**

Date Collected: 06/15/22 10:35

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 15

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.000989	U	0.00201	0.000989	mg/Kg		06/20/22 15:49	06/21/22 16:28	1
MTBE	<0.000410	U	0.00502	0.000410	mg/Kg		06/20/22 15:49	06/21/22 16:28	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	112		56 - 150				06/20/22 15:49	06/21/22 16:28	1
4-Bromofluorobenzene (Surr)	99		68 - 152				06/20/22 15:49	06/21/22 16:28	1
Dibromofluoromethane (Surr)	100		53 - 142				06/20/22 15:49	06/21/22 16:28	1
Toluene-d8 (Surr)	94		70 - 130				06/20/22 15:49	06/21/22 16:28	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/21/22 16:10	06/21/22 22:00	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/21/22 16:10	06/21/22 22:00	1
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/21/22 16:10	06/21/22 22:00	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.0	21.1	mg/Kg			06/21/22 15:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane (Surr)	90		70 - 130				06/21/22 16:10	06/21/22 22:00	1
o-Terphenyl (Surr)	102		70 - 130				06/21/22 16:10	06/21/22 22:00	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.714</b>	<b>J</b>	3.77	0.582	mg/Kg		06/26/22 15:13	06/28/22 21:30	10
<b>Barium</b>	<b>26.1</b>	<b>B</b>	3.77	0.327	mg/Kg		06/26/22 15:13	06/28/22 21:30	10
Cadmium	<0.109	U	1.89	0.109	mg/Kg		06/26/22 15:13	06/28/22 21:30	10
<b>Chromium</b>	<b>1.74</b>	<b>J</b>	3.77	0.256	mg/Kg		06/26/22 15:13	06/28/22 21:30	10
<b>Lead</b>	<b>1.66</b>	<b>J</b>	1.89	0.183	mg/Kg		06/26/22 15:13	06/28/22 21:30	10
Selenium	<0.468	U	1.89	0.468	mg/Kg		06/26/22 15:13	06/28/22 21:30	10
Silver	<0.150	U	1.89	0.150	mg/Kg		06/26/22 15:13	06/28/22 21:30	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00349	U	0.0182	0.00349	mg/Kg		06/23/22 08:18	06/23/22 14:48	1

**Client Sample ID: B-14**

**Lab Sample ID: 830-2005-7**

Date Collected: 06/15/22 11:00

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 5

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000207	U	0.000998	0.000207	mg/Kg		06/20/22 15:49	06/21/22 16:48	1
Toluene	<0.000998	U	0.00499	0.000998	mg/Kg		06/20/22 15:49	06/21/22 16:48	1
Ethylbenzene	<0.000335	U	0.000998	0.000335	mg/Kg		06/20/22 15:49	06/21/22 16:48	1
m,p-Xylenes	<0.000798	U	0.00200	0.000798	mg/Kg		06/20/22 15:49	06/21/22 16:48	1
o-Xylene	<0.000983	U	0.000998	0.000983	mg/Kg		06/20/22 15:49	06/21/22 16:48	1
Xylenes, Total	<0.000983	U	0.00200	0.000983	mg/Kg		06/20/22 15:49	06/21/22 16:48	1
MTBE	<0.000408	U	0.00499	0.000408	mg/Kg		06/20/22 15:49	06/21/22 16:48	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-14**

**Lab Sample ID: 830-2005-7**

Date Collected: 06/15/22 11:00

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		56 - 150	06/20/22 15:49	06/21/22 16:48	1
4-Bromofluorobenzene (Surr)	99		68 - 152	06/20/22 15:49	06/21/22 16:48	1
Dibromofluoromethane (Surr)	100		53 - 142	06/20/22 15:49	06/21/22 16:48	1
Toluene-d8 (Surr)	94		70 - 130	06/20/22 15:49	06/21/22 16:48	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.0	U	49.8	21.0	mg/Kg		06/21/22 16:10	06/21/22 22:19	1
>C12-C28	<21.0	U	49.8	21.0	mg/Kg		06/21/22 16:10	06/21/22 22:19	1
>C28-C35	<21.0	U	49.8	21.0	mg/Kg		06/21/22 16:10	06/21/22 22:19	1
Total Petroleum Hydrocarbons (C6-C35)	<21.0	U	49.8	21.0	mg/Kg			06/21/22 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130	06/21/22 16:10	06/21/22 22:19	1
o-Terphenyl (Surr)	104		70 - 130	06/21/22 16:10	06/21/22 22:19	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.864	J	3.57	0.551	mg/Kg		06/26/22 15:13	06/28/22 21:33	10
Barium	31.2	B	3.57	0.310	mg/Kg		06/26/22 15:13	06/28/22 21:33	10
Cadmium	<0.104	U	1.79	0.104	mg/Kg		06/26/22 15:13	06/28/22 21:33	10
Chromium	3.39	J	3.57	0.242	mg/Kg		06/26/22 15:13	06/28/22 21:33	10
Lead	2.06		1.79	0.173	mg/Kg		06/26/22 15:13	06/28/22 21:33	10
Selenium	<0.443	U	1.79	0.443	mg/Kg		06/26/22 15:13	06/28/22 21:33	10
Silver	<0.142	U	1.79	0.142	mg/Kg		06/26/22 15:13	06/28/22 21:33	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00326	U	0.0169	0.00326	mg/Kg		06/23/22 08:18	06/23/22 14:49	1

**Client Sample ID: B-14**

**Lab Sample ID: 830-2005-8**

Date Collected: 06/15/22 11:05

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.000266	U	0.00498	0.000266	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
1,1,1-Trichloroethane	<0.000501	U	0.00498	0.000501	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
1,1,1,2,2-Tetrachloroethane	<0.000468	U	0.00498	0.000468	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
1,1,2-Trichloroethane	<0.000391	U	0.00498	0.000391	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
1,1-Dichloroethane	<0.000375	U	0.00498	0.000375	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
1,1-Dichloroethene	<0.000276	U	0.00498	0.000276	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
1,1-Dichloropropene	<0.000447	U	0.00498	0.000447	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
1,2,3-Trichlorobenzene	<0.00199	U	0.00498	0.00199	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
1,2,3-Trichloropropane	<0.000448	U	0.00498	0.000448	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
1,2,4-Trichlorobenzene	<0.00199	U	0.00498	0.00199	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
1,2,4-Trimethylbenzene	<0.000254	U	0.00498	0.000254	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
1,2-Dibromo-3-Chloropropane	<0.000701	U	0.00498	0.000701	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
1,2-Dibromoethane	<0.00104	U	0.00498	0.00104	mg/Kg		06/20/22 15:49	06/22/22 17:38	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-14**

**Lab Sample ID: 830-2005-8**

Date Collected: 06/15/22 11:05

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.000286	U	0.00498	0.000286	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
1,2-Dichloroethane	<0.000303	U	0.00498	0.000303	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
1,2-Dichloropropane	<0.000198	U	0.00498	0.000198	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
1,3,5-Trimethylbenzene	<0.000288	U	0.00498	0.000288	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
1,3-Dichlorobenzene	<0.000271	U	0.00498	0.000271	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
1,3-Dichloropropane	<0.000407	U	0.00498	0.000407	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
1,4-Dichlorobenzene	<0.000214	U	0.00498	0.000214	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
2,2-Dichloropropane	<0.000522	U	0.00498	0.000522	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
2-Butanone	<0.00363	U	0.0199	0.00363	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
4-Chlorotoluene	<0.000263	U	0.00498	0.000263	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Benzene	<0.000206	U	0.000996	0.000206	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Bromobenzene	<0.000345	U	0.00498	0.000345	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Bromochloromethane	<0.000524	U	0.00498	0.000524	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Bromodichloromethane	<0.000250	U	0.00498	0.000250	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Bromoform	<0.00103	U	0.00498	0.00103	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Bromomethane	<0.000939	U	0.00498	0.000939	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Carbon tetrachloride	<0.00164	U	0.00498	0.00164	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Chlorobenzene	<0.000236	U	0.00498	0.000236	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Chloroethane	<0.000442	U	0.00996	0.000442	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Chloroform	<0.000172	U	0.00498	0.000172	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Chloromethane	<0.000429	U	0.00498	0.000429	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
cis-1,2-Dichloroethene	<0.000299	U	0.00498	0.000299	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
cis-1,3-Dichloropropene	<0.000229	U	0.00498	0.000229	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Dibromochloromethane	<0.000891	U	0.00498	0.000891	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Dichlorodifluoromethane	<0.00111	U	0.00498	0.00111	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Ethylbenzene	<0.000334	U	0.000996	0.000334	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Hexachlorobutadiene	<0.00199	U	0.00498	0.00199	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Isopropylbenzene	<0.000173	U	0.00498	0.000173	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
m,p-Xylenes	<0.000797	U	0.00199	0.000797	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Methylene Chloride	<0.00420	U	0.0199	0.00420	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
MTBE	<0.000407	U	0.00498	0.000407	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Naphthalene	<0.00199	U	0.00996	0.00199	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
n-Butylbenzene	<0.000273	U	0.00498	0.000273	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
N-Propylbenzene	<0.000285	U	0.00498	0.000285	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
o-Xylene	<0.000981	U	0.000996	0.000981	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
p-Cymene (p-Isopropyltoluene)	<0.000317	U	0.00498	0.000317	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
sec-Butylbenzene	<0.000260	U	0.00498	0.000260	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Styrene	<0.000205	U	0.00498	0.000205	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
tert-Butylbenzene	<0.00128	U	0.00498	0.00128	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Tetrachloroethene	<0.000368	U	0.00498	0.000368	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Toluene	<0.000996	U	0.00498	0.000996	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
trans-1,2-Dichloroethene	<0.000432	U	0.00498	0.000432	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
trans-1,3-Dichloropropene	<0.000906	U	0.00498	0.000906	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Trichloroethene	<0.000492	U	0.00498	0.000492	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Trichlorofluoromethane	<0.000306	U	0.00498	0.000306	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Vinyl chloride	<0.000440	U	0.00498	0.000440	mg/Kg		06/20/22 15:49	06/22/22 17:38	1
Xylenes, Total	<0.000981	U	0.00199	0.000981	mg/Kg		06/20/22 15:49	06/22/22 17:38	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-14**

**Lab Sample ID: 830-2005-8**

Date Collected: 06/15/22 11:05

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		56 - 150	06/20/22 15:49	06/22/22 17:38	1
4-Bromofluorobenzene (Surr)	105		68 - 152	06/20/22 15:49	06/22/22 17:38	1
Dibromofluoromethane (Surr)	93		53 - 142	06/20/22 15:49	06/22/22 17:38	1
Toluene-d8 (Surr)	102		70 - 130	06/20/22 15:49	06/22/22 17:38	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.0	U	49.8	21.0	mg/Kg		06/21/22 16:10	06/21/22 22:39	1
>C12-C28	<21.0	U	49.8	21.0	mg/Kg		06/21/22 16:10	06/21/22 22:39	1
>C28-C35	<21.0	U	49.8	21.0	mg/Kg		06/21/22 16:10	06/21/22 22:39	1
Total Petroleum Hydrocarbons (C6-C35)	<21.0	U	49.8	21.0	mg/Kg			06/21/22 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130	06/21/22 16:10	06/21/22 22:39	1
o-Terphenyl (Surr)	105		70 - 130	06/21/22 16:10	06/21/22 22:39	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.26	J	3.70	0.571	mg/Kg		06/26/22 15:13	06/28/22 21:37	10
Barium	35.2	B	3.70	0.321	mg/Kg		06/26/22 15:13	06/28/22 21:37	10
Cadmium	<0.107	U	1.85	0.107	mg/Kg		06/26/22 15:13	06/28/22 21:37	10
Chromium	2.81	J	3.70	0.251	mg/Kg		06/26/22 15:13	06/28/22 21:37	10
Lead	2.05		1.85	0.179	mg/Kg		06/26/22 15:13	06/28/22 21:37	10
Selenium	<0.459	U	1.85	0.459	mg/Kg		06/26/22 15:13	06/28/22 21:37	10
Silver	<0.147	U	1.85	0.147	mg/Kg		06/26/22 15:13	06/28/22 21:37	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00320	U	0.0167	0.00320	mg/Kg		06/23/22 08:18	06/23/22 14:50	1

**Client Sample ID: B-14**

**Lab Sample ID: 830-2005-9**

Date Collected: 06/15/22 11:15

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 15

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000209	U	0.00101	0.000209	mg/Kg		06/20/22 15:49	06/21/22 17:09	1
Toluene	<0.00101	U	0.00505	0.00101	mg/Kg		06/20/22 15:49	06/21/22 17:09	1
Ethylbenzene	<0.000339	U	0.00101	0.000339	mg/Kg		06/20/22 15:49	06/21/22 17:09	1
m,p-Xylenes	<0.000808	U	0.00202	0.000808	mg/Kg		06/20/22 15:49	06/21/22 17:09	1
o-Xylene	<0.000995	U	0.00101	0.000995	mg/Kg		06/20/22 15:49	06/21/22 17:09	1
Xylenes, Total	<0.000995	U	0.00202	0.000995	mg/Kg		06/20/22 15:49	06/21/22 17:09	1
MTBE	<0.000413	U	0.00505	0.000413	mg/Kg		06/20/22 15:49	06/21/22 17:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		56 - 150	06/20/22 15:49	06/21/22 17:09	1
4-Bromofluorobenzene (Surr)	96		68 - 152	06/20/22 15:49	06/21/22 17:09	1
Dibromofluoromethane (Surr)	100		53 - 142	06/20/22 15:49	06/21/22 17:09	1
Toluene-d8 (Surr)	95		70 - 130	06/20/22 15:49	06/21/22 17:09	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-14**

**Lab Sample ID: 830-2005-9**

Date Collected: 06/15/22 11:15

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 15

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/21/22 16:10	06/21/22 23:18	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/21/22 16:10	06/21/22 23:18	1
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/21/22 16:10	06/21/22 23:18	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.0	21.1	mg/Kg			06/21/22 15:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane (Surr)	92		70 - 130				06/21/22 16:10	06/21/22 23:18	1
o-Terphenyl (Surr)	104		70 - 130				06/21/22 16:10	06/21/22 23:18	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.888	J	3.39	0.523	mg/Kg		06/26/22 15:13	06/28/22 21:40	10
Barium	40.5	B	3.39	0.294	mg/Kg		06/26/22 15:13	06/28/22 21:40	10
Cadmium	<0.0983	U	1.69	0.0983	mg/Kg		06/26/22 15:13	06/28/22 21:40	10
Chromium	2.41	J	3.39	0.230	mg/Kg		06/26/22 15:13	06/28/22 21:40	10
Lead	2.34		1.69	0.164	mg/Kg		06/26/22 15:13	06/28/22 21:40	10
Selenium	<0.421	U	1.69	0.421	mg/Kg		06/26/22 15:13	06/28/22 21:40	10
Silver	<0.135	U	1.69	0.135	mg/Kg		06/26/22 15:13	06/28/22 21:40	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00363	U	0.0189	0.00363	mg/Kg		06/23/22 08:18	06/23/22 14:52	1

**Client Sample ID: B-15**

**Lab Sample ID: 830-2005-10**

Date Collected: 06/15/22 13:25

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 5

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000209	U	0.00101	0.000209	mg/Kg		06/20/22 15:49	06/21/22 17:29	1
Toluene	<0.00101	U	0.00504	0.00101	mg/Kg		06/20/22 15:49	06/21/22 17:29	1
Ethylbenzene	<0.000338	U	0.00101	0.000338	mg/Kg		06/20/22 15:49	06/21/22 17:29	1
m,p-Xylenes	<0.000806	U	0.00202	0.000806	mg/Kg		06/20/22 15:49	06/21/22 17:29	1
o-Xylene	<0.000993	U	0.00101	0.000993	mg/Kg		06/20/22 15:49	06/21/22 17:29	1
Xylenes, Total	<0.000993	U	0.00202	0.000993	mg/Kg		06/20/22 15:49	06/21/22 17:29	1
MTBE	<0.000412	U	0.00504	0.000412	mg/Kg		06/20/22 15:49	06/21/22 17:29	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	113		56 - 150				06/20/22 15:49	06/21/22 17:29	1
4-Bromofluorobenzene (Surr)	97		68 - 152				06/20/22 15:49	06/21/22 17:29	1
Dibromofluoromethane (Surr)	100		53 - 142				06/20/22 15:49	06/21/22 17:29	1
Toluene-d8 (Surr)	92		70 - 130				06/20/22 15:49	06/21/22 17:29	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/21/22 16:10	06/21/22 23:38	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/21/22 16:10	06/21/22 23:38	1
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/21/22 16:10	06/21/22 23:38	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-15**

**Lab Sample ID: 830-2005-10**

Date Collected: 06/15/22 13:25

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 5

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.0	21.1	mg/Kg			06/21/22 15:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane (Surr)	90		70 - 130				06/21/22 16:10	06/21/22 23:38	1
o-Terphenyl (Surr)	98		70 - 130				06/21/22 16:10	06/21/22 23:38	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.753	J	3.70	0.571	mg/Kg		06/26/22 15:13	06/28/22 21:43	10
Barium	29.6	B	3.70	0.321	mg/Kg		06/26/22 15:13	06/28/22 21:43	10
Cadmium	<0.107	U	1.85	0.107	mg/Kg		06/26/22 15:13	06/28/22 21:43	10
Chromium	3.09	J	3.70	0.251	mg/Kg		06/26/22 15:13	06/28/22 21:43	10
Lead	1.90		1.85	0.179	mg/Kg		06/26/22 15:13	06/28/22 21:43	10
Selenium	<0.459	U	1.85	0.459	mg/Kg		06/26/22 15:13	06/28/22 21:43	10
Silver	<0.147	U	1.85	0.147	mg/Kg		06/26/22 15:13	06/28/22 21:43	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00349	U	0.0182	0.00349	mg/Kg		06/23/22 08:18	06/23/22 14:53	1

**Client Sample ID: B-15**

**Lab Sample ID: 830-2005-11**

Date Collected: 06/15/22 13:30

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.000266	U	0.00499	0.000266	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
1,1,1-Trichloroethane	<0.000502	U	0.00499	0.000502	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
1,1,2,2-Tetrachloroethane	<0.000469	U	0.00499	0.000469	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
1,1,2-Trichloroethane	<0.000391	U	0.00499	0.000391	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
1,1-Dichloroethane	<0.000375	U	0.00499	0.000375	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
1,1-Dichloroethene	<0.000277	U	0.00499	0.000277	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
1,1-Dichloropropene	<0.000448	U	0.00499	0.000448	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00499	0.00200	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
1,2,3-Trichloropropane	<0.000449	U	0.00499	0.000449	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00499	0.00200	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
1,2,4-Trimethylbenzene	<0.000254	U	0.00499	0.000254	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
1,2-Dibromo-3-Chloropropane	<0.000703	U	0.00499	0.000703	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
1,2-Dibromoethane	<0.00104	U	0.00499	0.00104	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
1,2-Dichlorobenzene	<0.000287	U	0.00499	0.000287	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
1,2-Dichloroethane	<0.000303	U	0.00499	0.000303	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
1,2-Dichloropropane	<0.000198	U	0.00499	0.000198	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
1,3,5-Trimethylbenzene	<0.000288	U	0.00499	0.000288	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
1,3-Dichlorobenzene	<0.000272	U	0.00499	0.000272	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
1,3-Dichloropropane	<0.000408	U	0.00499	0.000408	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
1,4-Dichlorobenzene	<0.000214	U	0.00499	0.000214	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
2,2-Dichloropropane	<0.000523	U	0.00499	0.000523	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
2-Butanone	<0.00364	U ** *1	0.0200	0.00364	mg/Kg		06/23/22 11:37	06/23/22 15:23	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-15**

**Lab Sample ID: 830-2005-11**

Date Collected: 06/15/22 13:30

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<0.000263	U	0.00499	0.000263	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Benzene	<0.000207	U	0.000998	0.000207	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Bromobenzene	<0.000346	U	0.00499	0.000346	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Bromochloromethane	<0.000525	U	0.00499	0.000525	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Bromodichloromethane	<0.000251	U	0.00499	0.000251	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Bromoform	<0.00103	U	0.00499	0.00103	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Bromomethane	<0.000941	U	0.00499	0.000941	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Carbon tetrachloride	<0.00164	U	0.00499	0.00164	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Chlorobenzene	<0.000236	U	0.00499	0.000236	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Chloroethane	<0.000443	U *	0.00998	0.000443	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Chloroform	<0.000172	U	0.00499	0.000172	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Chloromethane	<0.000430	U	0.00499	0.000430	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
cis-1,2-Dichloroethene	<0.000300	U	0.00499	0.000300	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
cis-1,3-Dichloropropene	<0.000229	U	0.00499	0.000229	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Dibromochloromethane	<0.000893	U	0.00499	0.000893	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Dichlorodifluoromethane	<0.00111	U	0.00499	0.00111	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Ethylbenzene	<0.000335	U	0.000998	0.000335	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Hexachlorobutadiene	<0.00200	U	0.00499	0.00200	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Isopropylbenzene	<0.000174	U	0.00499	0.000174	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
m,p-Xylenes	<0.000798	U	0.00200	0.000798	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
<b>Methylene Chloride</b>	<b>0.00492</b>	<b>J</b>	0.0200	0.00421	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
MTBE	<0.000408	U	0.00499	0.000408	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Naphthalene	<0.00200	U	0.00998	0.00200	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
n-Butylbenzene	<0.000273	U	0.00499	0.000273	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
N-Propylbenzene	<0.000285	U	0.00499	0.000285	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
o-Xylene	<0.000983	U	0.000998	0.000983	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
p-Cymene (p-Isopropyltoluene)	<0.000318	U	0.00499	0.000318	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
sec-Butylbenzene	<0.000260	U	0.00499	0.000260	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Styrene	<0.000205	U	0.00499	0.000205	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
tert-Butylbenzene	<0.00128	U	0.00499	0.00128	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Tetrachloroethene	<0.000369	U	0.00499	0.000369	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Toluene	<0.000998	U	0.00499	0.000998	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
trans-1,2-Dichloroethene	<0.000433	U	0.00499	0.000433	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
trans-1,3-Dichloropropene	<0.000908	U	0.00499	0.000908	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Trichloroethene	<0.000493	U	0.00499	0.000493	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Trichlorofluoromethane	<0.000307	U	0.00499	0.000307	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Vinyl chloride	<0.000440	U	0.00499	0.000440	mg/Kg		06/23/22 11:37	06/23/22 15:23	1
Xylenes, Total	<0.000983	U	0.00200	0.000983	mg/Kg		06/23/22 11:37	06/23/22 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		56 - 150	06/23/22 11:37	06/23/22 15:23	1
4-Bromofluorobenzene (Surr)	105		68 - 152	06/23/22 11:37	06/23/22 15:23	1
Dibromofluoromethane (Surr)	116		53 - 142	06/23/22 11:37	06/23/22 15:23	1
Toluene-d8 (Surr)	101		70 - 130	06/23/22 11:37	06/23/22 15:23	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/21/22 16:10	06/21/22 23:57	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/21/22 16:10	06/21/22 23:57	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-15**

**Lab Sample ID: 830-2005-11**

Date Collected: 06/15/22 13:30

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 10

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/21/22 16:10	06/21/22 23:57	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.0	21.1	mg/Kg			06/21/22 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130				06/21/22 16:10	06/21/22 23:57	1
o-Terphenyl (Surr)	102		70 - 130				06/21/22 16:10	06/21/22 23:57	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.36	J	3.45	0.532	mg/Kg		06/26/22 15:13	06/28/22 21:46	10
Barium	41.1	B	3.45	0.299	mg/Kg		06/26/22 15:13	06/28/22 21:46	10
Cadmium	<0.100	U	1.72	0.100	mg/Kg		06/26/22 15:13	06/28/22 21:46	10
Chromium	3.78		3.45	0.234	mg/Kg		06/26/22 15:13	06/28/22 21:46	10
Lead	2.20		1.72	0.167	mg/Kg		06/26/22 15:13	06/28/22 21:46	10
Selenium	<0.428	U	1.72	0.428	mg/Kg		06/26/22 15:13	06/28/22 21:46	10
Silver	<0.137	U	1.72	0.137	mg/Kg		06/26/22 15:13	06/28/22 21:46	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00349	U	0.0182	0.00349	mg/Kg		06/23/22 08:18	06/23/22 14:57	1

**Client Sample ID: B-15**

**Lab Sample ID: 830-2005-12**

Date Collected: 06/15/22 13:35

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 15

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000206	U	0.000994	0.000206	mg/Kg		06/20/22 15:49	06/21/22 17:50	1
Toluene	<0.000994	U	0.00497	0.000994	mg/Kg		06/20/22 15:49	06/21/22 17:50	1
Ethylbenzene	<0.000334	U	0.000994	0.000334	mg/Kg		06/20/22 15:49	06/21/22 17:50	1
m,p-Xylenes	<0.000795	U	0.00199	0.000795	mg/Kg		06/20/22 15:49	06/21/22 17:50	1
o-Xylene	<0.000979	U	0.000994	0.000979	mg/Kg		06/20/22 15:49	06/21/22 17:50	1
Xylenes, Total	<0.000979	U	0.00199	0.000979	mg/Kg		06/20/22 15:49	06/21/22 17:50	1
MTBE	<0.000406	U	0.00497	0.000406	mg/Kg		06/20/22 15:49	06/21/22 17:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		56 - 150				06/20/22 15:49	06/21/22 17:50	1
4-Bromofluorobenzene (Surr)	98		68 - 152				06/20/22 15:49	06/21/22 17:50	1
Dibromofluoromethane (Surr)	99		53 - 142				06/20/22 15:49	06/21/22 17:50	1
Toluene-d8 (Surr)	96		70 - 130				06/20/22 15:49	06/21/22 17:50	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/21/22 16:10	06/22/22 00:17	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/21/22 16:10	06/22/22 00:17	1
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/21/22 16:10	06/22/22 00:17	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.0	21.1	mg/Kg			06/21/22 15:52	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-15**

**Lab Sample ID: 830-2005-12**

Date Collected: 06/15/22 13:35

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130	06/21/22 16:10	06/22/22 00:17	1
o-Terphenyl (Surr)	107		70 - 130	06/21/22 16:10	06/22/22 00:17	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.822	J	3.70	0.571	mg/Kg		06/26/22 15:13	06/28/22 21:56	10
Barium	16.6	B	3.70	0.321	mg/Kg		06/26/22 15:13	06/28/22 21:56	10
Cadmium	<0.107	U	1.85	0.107	mg/Kg		06/26/22 15:13	06/28/22 21:56	10
Chromium	1.67	J	3.70	0.251	mg/Kg		06/26/22 15:13	06/28/22 21:56	10
Lead	1.42	J	1.85	0.179	mg/Kg		06/26/22 15:13	06/28/22 21:56	10
Selenium	<0.459	U	1.85	0.459	mg/Kg		06/26/22 15:13	06/28/22 21:56	10
Silver	<0.147	U	1.85	0.147	mg/Kg		06/26/22 15:13	06/28/22 21:56	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00337	U	0.0175	0.00337	mg/Kg		06/23/22 08:18	06/23/22 15:04	1

**Client Sample ID: B-16**

**Lab Sample ID: 830-2005-13**

Date Collected: 06/15/22 14:05

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 5

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000207	U	0.00100	0.000207	mg/Kg		06/20/22 15:49	06/21/22 19:52	1
Toluene	<0.00100	U	0.00501	0.00100	mg/Kg		06/20/22 15:49	06/21/22 19:52	1
Ethylbenzene	<0.000336	U	0.00100	0.000336	mg/Kg		06/20/22 15:49	06/21/22 19:52	1
m,p-Xylenes	<0.000802	U	0.00200	0.000802	mg/Kg		06/20/22 15:49	06/21/22 19:52	1
o-Xylene	<0.000987	U	0.00100	0.000987	mg/Kg		06/20/22 15:49	06/21/22 19:52	1
Xylenes, Total	<0.000987	U	0.00200	0.000987	mg/Kg		06/20/22 15:49	06/21/22 19:52	1
MTBE	<0.000409	U	0.00501	0.000409	mg/Kg		06/20/22 15:49	06/21/22 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		56 - 150	06/20/22 15:49	06/21/22 19:52	1
4-Bromofluorobenzene (Surr)	102		68 - 152	06/20/22 15:49	06/21/22 19:52	1
Dibromofluoromethane (Surr)	103		53 - 142	06/20/22 15:49	06/21/22 19:52	1
Toluene-d8 (Surr)	95		70 - 130	06/20/22 15:49	06/21/22 19:52	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.0	U	49.8	21.0	mg/Kg		06/21/22 16:10	06/22/22 00:36	1
>C12-C28	<21.0	U	49.8	21.0	mg/Kg		06/21/22 16:10	06/22/22 00:36	1
>C28-C35	<21.0	U	49.8	21.0	mg/Kg		06/21/22 16:10	06/22/22 00:36	1
Total Petroleum Hydrocarbons (C6-C35)	<21.0	U	49.8	21.0	mg/Kg			06/21/22 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130	06/21/22 16:10	06/22/22 00:36	1
o-Terphenyl (Surr)	98		70 - 130	06/21/22 16:10	06/22/22 00:36	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-16**

**Lab Sample ID: 830-2005-13**

Date Collected: 06/15/22 14:05

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 5

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11.4		3.51	0.541	mg/Kg		06/26/22 15:13	06/28/22 21:59	10
Barium	219	B	3.51	0.304	mg/Kg		06/26/22 15:13	06/28/22 21:59	10
Cadmium	0.759	J	1.75	0.102	mg/Kg		06/26/22 15:13	06/28/22 21:59	10
Chromium	25.1		3.51	0.238	mg/Kg		06/26/22 15:13	06/28/22 21:59	10
Lead	12600		439	42.5	mg/Kg		06/26/22 15:13	06/29/22 20:38	2500
Selenium	<0.435	U	1.75	0.435	mg/Kg		06/26/22 15:13	06/28/22 21:59	10
Silver	0.605	J	1.75	0.139	mg/Kg		06/26/22 15:13	06/28/22 21:59	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.09		0.0893	0.0172	mg/Kg		06/23/22 08:18	06/23/22 15:21	5

**Client Sample ID: B-16**

**Lab Sample ID: 830-2005-14**

Date Collected: 06/15/22 14:10

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.000270	U	0.00505	0.000270	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
1,1,1-Trichloroethane	<0.000508	U	0.00505	0.000508	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
1,1,2,2-Tetrachloroethane	<0.000474	U	0.00505	0.000474	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
1,1,2-Trichloroethane	<0.000396	U	0.00505	0.000396	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
1,1-Dichloroethane	<0.000380	U	0.00505	0.000380	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
1,1-Dichloroethene	<0.000280	U	0.00505	0.000280	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
1,1-Dichloropropene	<0.000453	U	0.00505	0.000453	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
1,2,3-Trichlorobenzene	<0.00202	U	0.00505	0.00202	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
1,2,3-Trichloropropane	<0.000454	U	0.00505	0.000454	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
1,2,4-Trichlorobenzene	<0.00202	U	0.00505	0.00202	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
1,2,4-Trimethylbenzene	<0.000258	U	0.00505	0.000258	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
1,2-Dibromo-3-Chloropropane	<0.000711	U	0.00505	0.000711	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
1,2-Dibromoethane	<0.00105	U	0.00505	0.00105	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
1,2-Dichlorobenzene	<0.000290	U	0.00505	0.000290	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
1,2-Dichloroethane	<0.000307	U	0.00505	0.000307	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
1,2-Dichloropropane	<0.000200	U	0.00505	0.000200	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
1,3,5-Trimethylbenzene	<0.000292	U	0.00505	0.000292	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
1,3-Dichlorobenzene	<0.000275	U	0.00505	0.000275	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
1,3-Dichloropropane	<0.000413	U	0.00505	0.000413	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
1,4-Dichlorobenzene	<0.000217	U	0.00505	0.000217	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
2,2-Dichloropropane	<0.000530	U	0.00505	0.000530	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
2-Butanone	<0.00368	U	0.0202	0.00368	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
4-Chlorotoluene	<0.000266	U	0.00505	0.000266	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Benzene	<0.000209	U	0.00101	0.000209	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Bromobenzene	<0.000350	U	0.00505	0.000350	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Bromochloromethane	<0.000531	U	0.00505	0.000531	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Bromodichloromethane	<0.000254	U	0.00505	0.000254	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Bromoform	<0.00104	U	0.00505	0.00104	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Bromomethane	<0.000953	U	0.00505	0.000953	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Carbon tetrachloride	<0.00166	U	0.00505	0.00166	mg/Kg		06/20/22 15:49	06/22/22 18:25	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-16**

**Lab Sample ID: 830-2005-14**

Date Collected: 06/15/22 14:10

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<0.000239	U	0.00505	0.000239	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Chloroethane	<0.000448	U	0.0101	0.000448	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Chloroform	<0.000175	U	0.00505	0.000175	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Chloromethane	<0.000435	U	0.00505	0.000435	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
cis-1,2-Dichloroethene	<0.000304	U	0.00505	0.000304	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
cis-1,3-Dichloropropene	<0.000232	U	0.00505	0.000232	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Dibromochloromethane	<0.000904	U	0.00505	0.000904	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Dichlorodifluoromethane	<0.00113	U	0.00505	0.00113	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Ethylbenzene	<0.000339	U	0.00101	0.000339	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Hexachlorobutadiene	<0.00202	U	0.00505	0.00202	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Isopropylbenzene	<0.000176	U	0.00505	0.000176	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
m,p-Xylenes	<0.000808	U	0.00202	0.000808	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Methylene Chloride	<0.00426	U	0.0202	0.00426	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
MTBE	<0.000413	U	0.00505	0.000413	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Naphthalene	<0.00202	U	0.0101	0.00202	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
n-Butylbenzene	<0.000277	U	0.00505	0.000277	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
N-Propylbenzene	<0.000289	U	0.00505	0.000289	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
o-Xylene	<0.000995	U	0.00101	0.000995	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
p-Cymene (p-Isopropyltoluene)	<0.000322	U	0.00505	0.000322	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
sec-Butylbenzene	<0.000263	U	0.00505	0.000263	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Styrene	<0.000208	U	0.00505	0.000208	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
tert-Butylbenzene	<0.00130	U	0.00505	0.00130	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Tetrachloroethene	<0.000373	U	0.00505	0.000373	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Toluene	<0.00101	U	0.00505	0.00101	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
trans-1,2-Dichloroethene	<0.000438	U	0.00505	0.000438	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
trans-1,3-Dichloropropene	<0.000919	U	0.00505	0.000919	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Trichloroethene	<0.000499	U	0.00505	0.000499	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Trichlorofluoromethane	<0.000311	U	0.00505	0.000311	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Vinyl chloride	<0.000446	U	0.00505	0.000446	mg/Kg		06/20/22 15:49	06/22/22 18:25	1
Xylenes, Total	<0.000995	U	0.00202	0.000995	mg/Kg		06/20/22 15:49	06/22/22 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		56 - 150	06/20/22 15:49	06/22/22 18:25	1
4-Bromofluorobenzene (Surr)	108		68 - 152	06/20/22 15:49	06/22/22 18:25	1
Dibromofluoromethane (Surr)	94		53 - 142	06/20/22 15:49	06/22/22 18:25	1
Toluene-d8 (Surr)	102		70 - 130	06/20/22 15:49	06/22/22 18:25	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	49.9	21.1	mg/Kg		06/21/22 16:10	06/22/22 00:56	1
>C12-C28	<21.1	U	49.9	21.1	mg/Kg		06/21/22 16:10	06/22/22 00:56	1
>C28-C35	<21.1	U	49.9	21.1	mg/Kg		06/21/22 16:10	06/22/22 00:56	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	49.9	21.1	mg/Kg			06/21/22 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130	06/21/22 16:10	06/22/22 00:56	1
o-Terphenyl (Surr)	110		70 - 130	06/21/22 16:10	06/22/22 00:56	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-16**

**Lab Sample ID: 830-2005-14**

Date Collected: 06/15/22 14:10

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 10

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.07	J	3.57	0.551	mg/Kg		06/26/22 15:13	06/28/22 22:02	10
Barium	44.4	B	3.57	0.310	mg/Kg		06/26/22 15:13	06/28/22 22:02	10
Cadmium	<0.104	U	1.79	0.104	mg/Kg		06/26/22 15:13	06/28/22 22:02	10
Chromium	3.86		3.57	0.242	mg/Kg		06/26/22 15:13	06/28/22 22:02	10
Lead	4.36		1.79	0.173	mg/Kg		06/26/22 15:13	06/28/22 22:02	10
Selenium	<0.443	U	1.79	0.443	mg/Kg		06/26/22 15:13	06/28/22 22:02	10
Silver	<0.142	U	1.79	0.142	mg/Kg		06/26/22 15:13	06/28/22 22:02	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00363	U	0.0189	0.00363	mg/Kg		06/23/22 08:18	06/23/22 15:09	1

**Client Sample ID: B-16**

**Lab Sample ID: 830-2005-15**

Date Collected: 06/15/22 14:20

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 15

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000205	U	0.000990	0.000205	mg/Kg		06/20/22 15:49	06/21/22 18:10	1
Toluene	<0.000990	U	0.00495	0.000990	mg/Kg		06/20/22 15:49	06/21/22 18:10	1
Ethylbenzene	<0.000332	U	0.000990	0.000332	mg/Kg		06/20/22 15:49	06/21/22 18:10	1
m,p-Xylenes	<0.000792	U	0.00198	0.000792	mg/Kg		06/20/22 15:49	06/21/22 18:10	1
o-Xylene	<0.000975	U	0.000990	0.000975	mg/Kg		06/20/22 15:49	06/21/22 18:10	1
Xylenes, Total	<0.000975	U	0.00198	0.000975	mg/Kg		06/20/22 15:49	06/21/22 18:10	1
MTBE	<0.000405	U	0.00495	0.000405	mg/Kg		06/20/22 15:49	06/21/22 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		56 - 150	06/20/22 15:49	06/21/22 18:10	1
4-Bromofluorobenzene (Surr)	97		68 - 152	06/20/22 15:49	06/21/22 18:10	1
Dibromofluoromethane (Surr)	100		53 - 142	06/20/22 15:49	06/21/22 18:10	1
Toluene-d8 (Surr)	96		70 - 130	06/20/22 15:49	06/21/22 18:10	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	49.9	21.1	mg/Kg		06/21/22 16:10	06/22/22 01:15	1
>C12-C28	<21.1	U	49.9	21.1	mg/Kg		06/21/22 16:10	06/22/22 01:15	1
>C28-C35	<21.1	U	49.9	21.1	mg/Kg		06/21/22 16:10	06/22/22 01:15	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	49.9	21.1	mg/Kg			06/21/22 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130	06/21/22 16:10	06/22/22 01:15	1
o-Terphenyl (Surr)	104		70 - 130	06/21/22 16:10	06/22/22 01:15	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.641	J	3.77	0.582	mg/Kg		06/26/22 15:13	06/28/22 22:05	10
Barium	22.2	B	3.77	0.327	mg/Kg		06/26/22 15:13	06/28/22 22:05	10
Cadmium	<0.109	U	1.89	0.109	mg/Kg		06/26/22 15:13	06/28/22 22:05	10

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Client Sample ID: B-16

Lab Sample ID: 830-2005-15

Date Collected: 06/15/22 14:20

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 15

### Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	1.92	J	3.77	0.256	mg/Kg		06/26/22 15:13	06/28/22 22:05	10
Lead	2.43		1.89	0.183	mg/Kg		06/26/22 15:13	06/28/22 22:05	10
Selenium	<0.468	U	1.89	0.468	mg/Kg		06/26/22 15:13	06/28/22 22:05	10
Silver	<0.150	U	1.89	0.150	mg/Kg		06/26/22 15:13	06/28/22 22:05	10

### Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00363	U	0.0189	0.00363	mg/Kg		06/23/22 08:18	06/23/22 15:10	1

## Client Sample ID: B-17

Lab Sample ID: 830-2005-16

Date Collected: 06/15/22 14:37

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 5

### Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000208	U	0.00101	0.000208	mg/Kg		06/20/22 15:49	06/21/22 18:30	1
Toluene	<0.00101	U	0.00503	0.00101	mg/Kg		06/20/22 15:49	06/21/22 18:30	1
Ethylbenzene	<0.000338	U	0.00101	0.000338	mg/Kg		06/20/22 15:49	06/21/22 18:30	1
m,p-Xylenes	<0.000805	U	0.00201	0.000805	mg/Kg		06/20/22 15:49	06/21/22 18:30	1
o-Xylene	<0.000991	U	0.00101	0.000991	mg/Kg		06/20/22 15:49	06/21/22 18:30	1
Xylenes, Total	<0.000991	U	0.00201	0.000991	mg/Kg		06/20/22 15:49	06/21/22 18:30	1
MTBE	<0.000411	U	0.00503	0.000411	mg/Kg		06/20/22 15:49	06/21/22 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		56 - 150	06/20/22 15:49	06/21/22 18:30	1
4-Bromofluorobenzene (Surr)	97		68 - 152	06/20/22 15:49	06/21/22 18:30	1
Dibromofluoromethane (Surr)	99		53 - 142	06/20/22 15:49	06/21/22 18:30	1
Toluene-d8 (Surr)	94		70 - 130	06/20/22 15:49	06/21/22 18:30	1

### Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.2	U	50.2	21.2	mg/Kg		06/21/22 16:10	06/22/22 01:35	1
>C12-C28	<21.2	U	50.2	21.2	mg/Kg		06/21/22 16:10	06/22/22 01:35	1
>C28-C35	<21.2	U	50.2	21.2	mg/Kg		06/21/22 16:10	06/22/22 01:35	1
Total Petroleum Hydrocarbons (C6-C35)	<21.2	U	50.2	21.2	mg/Kg			06/21/22 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130	06/21/22 16:10	06/22/22 01:35	1
o-Terphenyl (Surr)	104		70 - 130	06/21/22 16:10	06/22/22 01:35	1

### Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.06	J	3.70	0.571	mg/Kg		06/26/22 15:13	06/28/22 22:09	10
Barium	31.3	B	3.70	0.321	mg/Kg		06/26/22 15:13	06/28/22 22:09	10
Cadmium	<0.107	U	1.85	0.107	mg/Kg		06/26/22 15:13	06/28/22 22:09	10
Chromium	2.48	J	3.70	0.251	mg/Kg		06/26/22 15:13	06/28/22 22:09	10
Lead	2.63		1.85	0.179	mg/Kg		06/26/22 15:13	06/28/22 22:09	10
Selenium	<0.459	U	1.85	0.459	mg/Kg		06/26/22 15:13	06/28/22 22:09	10

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-17**

**Lab Sample ID: 830-2005-16**

Date Collected: 06/15/22 14:37

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 5

**Method: 6020A - Metals (ICP/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.147	U	1.85	0.147	mg/Kg		06/26/22 15:13	06/28/22 22:09	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00337	U	0.0175	0.00337	mg/Kg		06/23/22 08:18	06/23/22 15:14	1

**Client Sample ID: B-17**

**Lab Sample ID: 830-2005-17**

Date Collected: 06/15/22 14:45

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.000265	U	0.00497	0.000265	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
1,1,1-Trichloroethane	<0.000500	U	0.00497	0.000500	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
1,1,2,2-Tetrachloroethane	<0.000467	U	0.00497	0.000467	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
1,1,2-Trichloroethane	<0.000390	U	0.00497	0.000390	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
1,1-Dichloroethane	<0.000374	U	0.00497	0.000374	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
1,1-Dichloroethene	<0.000275	U	0.00497	0.000275	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
1,1-Dichloropropene	<0.000446	U	0.00497	0.000446	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
1,2,3-Trichlorobenzene	<0.00199	U	0.00497	0.00199	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
1,2,3-Trichloropropane	<0.000447	U	0.00497	0.000447	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
1,2,4-Trichlorobenzene	<0.00199	U	0.00497	0.00199	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
1,2,4-Trimethylbenzene	<0.000253	U	0.00497	0.000253	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
1,2-Dibromo-3-Chloropropane	<0.000700	U	0.00497	0.000700	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
1,2-Dibromoethane	<0.00104	U	0.00497	0.00104	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
1,2-Dichlorobenzene	<0.000286	U	0.00497	0.000286	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
1,2-Dichloroethane	<0.000302	U	0.00497	0.000302	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
1,2-Dichloropropane	<0.000197	U	0.00497	0.000197	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
1,3,5-Trimethylbenzene	<0.000287	U	0.00497	0.000287	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
1,3-Dichlorobenzene	<0.000271	U	0.00497	0.000271	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
1,3-Dichloropropane	<0.000406	U	0.00497	0.000406	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
1,4-Dichlorobenzene	<0.000213	U	0.00497	0.000213	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
2,2-Dichloropropane	<0.000521	U	0.00497	0.000521	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
2-Butanone	<0.00362	U	0.0199	0.00362	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
4-Chlorotoluene	<0.000262	U	0.00497	0.000262	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Benzene	<0.000206	U	0.000994	0.000206	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Bromobenzene	<0.000344	U	0.00497	0.000344	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Bromochloromethane	<0.000523	U	0.00497	0.000523	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Bromodichloromethane	<0.000250	U	0.00497	0.000250	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Bromoform	<0.00103	U	0.00497	0.00103	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Bromomethane	<0.000938	U	0.00497	0.000938	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Carbon tetrachloride	<0.00163	U	0.00497	0.00163	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Chlorobenzene	<0.000235	U	0.00497	0.000235	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Chloroethane	<0.000441	U	0.00994	0.000441	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Chloroform	<0.000172	U	0.00497	0.000172	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Chloromethane	<0.000428	U	0.00497	0.000428	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
cis-1,2-Dichloroethene	<0.000299	U	0.00497	0.000299	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
cis-1,3-Dichloropropene	<0.000228	U	0.00497	0.000228	mg/Kg		06/20/22 15:49	06/22/22 18:48	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-17**

**Lab Sample ID: 830-2005-17**

Date Collected: 06/15/22 14:45

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<0.000889	U	0.00497	0.000889	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Dichlorodifluoromethane	<0.00111	U	0.00497	0.00111	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Ethylbenzene	<0.000334	U	0.000994	0.000334	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Hexachlorobutadiene	<0.00199	U	0.00497	0.00199	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Isopropylbenzene	<0.000173	U	0.00497	0.000173	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
m,p-Xylenes	<0.000795	U	0.00199	0.000795	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Methylene Chloride	<0.00419	U	0.0199	0.00419	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
MTBE	<0.000406	U	0.00497	0.000406	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Naphthalene	<0.00199	U	0.00994	0.00199	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
n-Butylbenzene	<0.000272	U	0.00497	0.000272	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
N-Propylbenzene	<0.000284	U	0.00497	0.000284	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
o-Xylene	<0.000979	U	0.000994	0.000979	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
p-Cymene (p-Isopropyltoluene)	<0.000317	U	0.00497	0.000317	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
sec-Butylbenzene	<0.000259	U	0.00497	0.000259	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Styrene	<0.000204	U	0.00497	0.000204	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
tert-Butylbenzene	<0.00128	U	0.00497	0.00128	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Tetrachloroethene	<0.000367	U	0.00497	0.000367	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Toluene	<0.000994	U	0.00497	0.000994	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
trans-1,2-Dichloroethene	<0.000431	U	0.00497	0.000431	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
trans-1,3-Dichloropropene	<0.000904	U	0.00497	0.000904	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Trichloroethene	<0.000491	U	0.00497	0.000491	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Trichlorofluoromethane	<0.000306	U	0.00497	0.000306	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Vinyl chloride	<0.000439	U	0.00497	0.000439	mg/Kg		06/20/22 15:49	06/22/22 18:48	1
Xylenes, Total	<0.000979	U	0.00199	0.000979	mg/Kg		06/20/22 15:49	06/22/22 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		56 - 150	06/20/22 15:49	06/22/22 18:48	1
4-Bromofluorobenzene (Surr)	108		68 - 152	06/20/22 15:49	06/22/22 18:48	1
Dibromofluoromethane (Surr)	94		53 - 142	06/20/22 15:49	06/22/22 18:48	1
Toluene-d8 (Surr)	106		70 - 130	06/20/22 15:49	06/22/22 18:48	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.1	21.1	mg/Kg		06/21/22 16:10	06/22/22 01:54	1
>C12-C28	<21.1	U	50.1	21.1	mg/Kg		06/21/22 16:10	06/22/22 01:54	1
>C28-C35	<21.1	U	50.1	21.1	mg/Kg		06/21/22 16:10	06/22/22 01:54	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.1	21.1	mg/Kg			06/21/22 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130	06/21/22 16:10	06/22/22 01:54	1
o-Terphenyl (Surr)	110		70 - 130	06/21/22 16:10	06/22/22 01:54	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.27	J	3.64	0.561	mg/Kg		06/26/22 15:13	06/28/22 22:12	10
Barium	26.2	B	3.64	0.315	mg/Kg		06/26/22 15:13	06/28/22 22:12	10
Cadmium	<0.105	U	1.82	0.105	mg/Kg		06/26/22 15:13	06/28/22 22:12	10
Chromium	4.14		3.64	0.247	mg/Kg		06/26/22 15:13	06/28/22 22:12	10
Lead	3.08		1.82	0.176	mg/Kg		06/26/22 15:13	06/28/22 22:12	10

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-17**

**Lab Sample ID: 830-2005-17**

Date Collected: 06/15/22 14:45

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 10

**Method: 6020A - Metals (ICP/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.451	U	1.82	0.451	mg/Kg		06/26/22 15:13	06/28/22 22:12	10
Silver	<0.144	U	1.82	0.144	mg/Kg		06/26/22 15:13	06/28/22 22:12	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00331	U	0.0172	0.00331	mg/Kg		06/23/22 08:18	06/23/22 15:16	1

**Client Sample ID: B-17**

**Lab Sample ID: 830-2005-18**

Date Collected: 06/15/22 14:52

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 15

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000209	U	0.00101	0.000209	mg/Kg		06/20/22 15:49	06/21/22 18:51	1
Toluene	<0.00101	U	0.00504	0.00101	mg/Kg		06/20/22 15:49	06/21/22 18:51	1
Ethylbenzene	<0.000338	U	0.00101	0.000338	mg/Kg		06/20/22 15:49	06/21/22 18:51	1
m,p-Xylenes	<0.000806	U	0.00202	0.000806	mg/Kg		06/20/22 15:49	06/21/22 18:51	1
o-Xylene	<0.000993	U	0.00101	0.000993	mg/Kg		06/20/22 15:49	06/21/22 18:51	1
Xylenes, Total	<0.000993	U	0.00202	0.000993	mg/Kg		06/20/22 15:49	06/21/22 18:51	1
MTBE	<0.000412	U	0.00504	0.000412	mg/Kg		06/20/22 15:49	06/21/22 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		56 - 150	06/20/22 15:49	06/21/22 18:51	1
4-Bromofluorobenzene (Surr)	94		68 - 152	06/20/22 15:49	06/21/22 18:51	1
Dibromofluoromethane (Surr)	103		53 - 142	06/20/22 15:49	06/21/22 18:51	1
Toluene-d8 (Surr)	94		70 - 130	06/20/22 15:49	06/21/22 18:51	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.0	U	49.8	21.0	mg/Kg		06/21/22 16:10	06/22/22 02:14	1
>C12-C28	<21.0	U	49.8	21.0	mg/Kg		06/21/22 16:10	06/22/22 02:14	1
>C28-C35	<21.0	U	49.8	21.0	mg/Kg		06/21/22 16:10	06/22/22 02:14	1
Total Petroleum Hydrocarbons (C6-C35)	<21.0	U	49.8	21.0	mg/Kg			06/21/22 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130	06/21/22 16:10	06/22/22 02:14	1
o-Terphenyl (Surr)	99		70 - 130	06/21/22 16:10	06/22/22 02:14	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.773	J	3.70	0.571	mg/Kg		06/26/22 15:13	06/28/22 22:15	10
Barium	23.3	B	3.70	0.321	mg/Kg		06/26/22 15:13	06/28/22 22:15	10
Cadmium	<0.107	U	1.85	0.107	mg/Kg		06/26/22 15:13	06/28/22 22:15	10
Chromium	2.52	J	3.70	0.251	mg/Kg		06/26/22 15:13	06/28/22 22:15	10
Lead	2.11		1.85	0.179	mg/Kg		06/26/22 15:13	06/28/22 22:15	10
Selenium	<0.459	U	1.85	0.459	mg/Kg		06/26/22 15:13	06/28/22 22:15	10
Silver	<0.147	U	1.85	0.147	mg/Kg		06/26/22 15:13	06/28/22 22:15	10

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Client Sample ID: B-17

Lab Sample ID: 830-2005-18

Date Collected: 06/15/22 14:52

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 15

### Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00370	U	0.0192	0.00370	mg/Kg		06/23/22 08:18	06/23/22 15:17	1

## Client Sample ID: B-18

Lab Sample ID: 830-2005-19

Date Collected: 06/15/22 15:19

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 5

### Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000206	U	0.000996	0.000206	mg/Kg		06/20/22 15:49	06/21/22 19:11	1
Toluene	<0.000996	U	0.00498	0.000996	mg/Kg		06/20/22 15:49	06/21/22 19:11	1
Ethylbenzene	<0.000334	U	0.000996	0.000334	mg/Kg		06/20/22 15:49	06/21/22 19:11	1
m,p-Xylenes	<0.000797	U	0.00199	0.000797	mg/Kg		06/20/22 15:49	06/21/22 19:11	1
o-Xylene	<0.000981	U	0.000996	0.000981	mg/Kg		06/20/22 15:49	06/21/22 19:11	1
Xylenes, Total	<0.000981	U	0.00199	0.000981	mg/Kg		06/20/22 15:49	06/21/22 19:11	1
MTBE	<0.000407	U	0.00498	0.000407	mg/Kg		06/20/22 15:49	06/21/22 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		56 - 150	06/20/22 15:49	06/21/22 19:11	1
4-Bromofluorobenzene (Surr)	97		68 - 152	06/20/22 15:49	06/21/22 19:11	1
Dibromofluoromethane (Surr)	98		53 - 142	06/20/22 15:49	06/21/22 19:11	1
Toluene-d8 (Surr)	95		70 - 130	06/20/22 15:49	06/21/22 19:11	1

### Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/21/22 11:00	06/22/22 00:38	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/21/22 11:00	06/22/22 00:38	1
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/21/22 11:00	06/22/22 00:38	1
Total Petroleum Hydrocarbons (C6-C35)	<21.1	U	50.0	21.1	mg/Kg			06/21/22 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130	06/21/22 11:00	06/22/22 00:38	1
o-Terphenyl (Surr)	89		70 - 130	06/21/22 11:00	06/22/22 00:38	1

### Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.69	J	3.57	0.551	mg/Kg		06/26/22 15:13	06/28/22 22:18	10
Barium	84.8	B	3.57	0.310	mg/Kg		06/26/22 15:13	06/28/22 22:18	10
Cadmium	<0.104	U	1.79	0.104	mg/Kg		06/26/22 15:13	06/28/22 22:18	10
Chromium	3.93		3.57	0.242	mg/Kg		06/26/22 15:13	06/28/22 22:18	10
Lead	3.74		1.79	0.173	mg/Kg		06/26/22 15:13	06/28/22 22:18	10
Selenium	<0.443	U	1.79	0.443	mg/Kg		06/26/22 15:13	06/28/22 22:18	10
Silver	<0.142	U	1.79	0.142	mg/Kg		06/26/22 15:13	06/28/22 22:18	10

### Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00356	U	0.0185	0.00356	mg/Kg		06/23/22 08:18	06/23/22 15:19	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-18**

**Lab Sample ID: 830-2005-20**

Date Collected: 06/15/22 15:25

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.000266	U	0.00498	0.000266	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
1,1,1-Trichloroethane	<0.000501	U	0.00498	0.000501	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
1,1,2,2-Tetrachloroethane	<0.000468	U	0.00498	0.000468	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
1,1,2-Trichloroethane	<0.000391	U	0.00498	0.000391	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
1,1-Dichloroethane	<0.000375	U	0.00498	0.000375	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
1,1-Dichloroethene	<0.000276	U	0.00498	0.000276	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
1,1-Dichloropropene	<0.000447	U	0.00498	0.000447	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
1,2,3-Trichlorobenzene	<0.00199	U	0.00498	0.00199	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
1,2,3-Trichloropropane	<0.000448	U	0.00498	0.000448	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
1,2,4-Trichlorobenzene	<0.00199	U	0.00498	0.00199	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
1,2,4-Trimethylbenzene	<0.000254	U	0.00498	0.000254	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
1,2-Dibromo-3-Chloropropane	<0.000701	U	0.00498	0.000701	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
1,2-Dibromoethane	<0.00104	U	0.00498	0.00104	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
1,2-Dichlorobenzene	<0.000286	U	0.00498	0.000286	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
1,2-Dichloroethane	<0.000303	U	0.00498	0.000303	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
1,2-Dichloropropane	<0.000198	U	0.00498	0.000198	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
1,3,5-Trimethylbenzene	<0.000288	U	0.00498	0.000288	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
1,3-Dichlorobenzene	<0.000271	U	0.00498	0.000271	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
1,3-Dichloropropane	<0.000407	U	0.00498	0.000407	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
1,4-Dichlorobenzene	<0.000214	U	0.00498	0.000214	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
2,2-Dichloropropane	<0.000522	U	0.00498	0.000522	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
2-Butanone	<0.00363	U	0.0199	0.00363	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
4-Chlorotoluene	<0.000263	U	0.00498	0.000263	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Benzene	<0.000206	U	0.000996	0.000206	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Bromobenzene	<0.000345	U	0.00498	0.000345	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Bromochloromethane	<0.000524	U	0.00498	0.000524	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Bromodichloromethane	<0.000250	U	0.00498	0.000250	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Bromoform	<0.00103	U	0.00498	0.00103	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Bromomethane	<0.000939	U	0.00498	0.000939	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Carbon tetrachloride	<0.00164	U	0.00498	0.00164	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Chlorobenzene	<0.000236	U	0.00498	0.000236	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Chloroethane	<0.000442	U	0.00996	0.000442	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Chloroform	<0.000172	U	0.00498	0.000172	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Chloromethane	<0.000429	U	0.00498	0.000429	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
cis-1,2-Dichloroethene	<0.000299	U	0.00498	0.000299	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
cis-1,3-Dichloropropene	<0.000229	U	0.00498	0.000229	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Dibromochloromethane	<0.000891	U	0.00498	0.000891	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Dichlorodifluoromethane	<0.00111	U	0.00498	0.00111	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Ethylbenzene	<0.000334	U	0.000996	0.000334	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Hexachlorobutadiene	<0.00199	U	0.00498	0.00199	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Isopropylbenzene	<0.000173	U	0.00498	0.000173	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
m,p-Xylenes	<0.000797	U	0.00199	0.000797	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Methylene Chloride	<0.00420	U	0.0199	0.00420	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
MTBE	<0.000407	U	0.00498	0.000407	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Naphthalene	<0.00199	U	0.00996	0.00199	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
n-Butylbenzene	<0.000273	U	0.00498	0.000273	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
N-Propylbenzene	<0.000285	U	0.00498	0.000285	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
o-Xylene	<0.000981	U	0.000996	0.000981	mg/Kg		06/20/22 15:49	06/22/22 19:12	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-18**

**Lab Sample ID: 830-2005-20**

Date Collected: 06/15/22 15:25

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Cymene (p-Isopropyltoluene)	<0.000317	U	0.00498	0.000317	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
sec-Butylbenzene	<0.000260	U	0.00498	0.000260	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Styrene	<0.000205	U	0.00498	0.000205	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
tert-Butylbenzene	<0.00128	U	0.00498	0.00128	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Tetrachloroethene	<0.000368	U	0.00498	0.000368	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Toluene	<0.000996	U	0.00498	0.000996	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
trans-1,2-Dichloroethene	<0.000432	U	0.00498	0.000432	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
trans-1,3-Dichloropropene	<0.000906	U	0.00498	0.000906	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Trichloroethene	<0.000492	U	0.00498	0.000492	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Trichlorofluoromethane	<0.000306	U	0.00498	0.000306	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Vinyl chloride	<0.000440	U	0.00498	0.000440	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Xylenes, Total	<0.000981	U	0.00199	0.000981	mg/Kg		06/20/22 15:49	06/22/22 19:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		56 - 150				06/20/22 15:49	06/22/22 19:12	1
4-Bromofluorobenzene (Surr)	107		68 - 152				06/20/22 15:49	06/22/22 19:12	1
Dibromofluoromethane (Surr)	97		53 - 142				06/20/22 15:49	06/22/22 19:12	1
Toluene-d8 (Surr)	100		70 - 130				06/20/22 15:49	06/22/22 19:12	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.2	U	50.2	21.2	mg/Kg		06/21/22 11:00	06/22/22 00:59	1
>C12-C28	<21.2	U	50.2	21.2	mg/Kg		06/21/22 11:00	06/22/22 00:59	1
>C28-C35	<21.2	U	50.2	21.2	mg/Kg		06/21/22 11:00	06/22/22 00:59	1
Total Petroleum Hydrocarbons (C6-C35)	<21.2	U	50.2	21.2	mg/Kg			06/21/22 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130				06/21/22 11:00	06/22/22 00:59	1
o-Terphenyl (Surr)	87		70 - 130				06/21/22 11:00	06/22/22 00:59	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.985</b>	<b>J</b>	3.64	0.561	mg/Kg		06/26/22 15:13	06/28/22 22:21	10
<b>Barium</b>	<b>39.1</b>	<b>B</b>	3.64	0.315	mg/Kg		06/26/22 15:13	06/28/22 22:21	10
Cadmium	<0.105	U	1.82	0.105	mg/Kg		06/26/22 15:13	06/28/22 22:21	10
<b>Chromium</b>	<b>3.51</b>	<b>J</b>	3.64	0.247	mg/Kg		06/26/22 15:13	06/28/22 22:21	10
<b>Lead</b>	<b>2.65</b>		1.82	0.176	mg/Kg		06/26/22 15:13	06/28/22 22:21	10
Selenium	<0.451	U	1.82	0.451	mg/Kg		06/26/22 15:13	06/28/22 22:21	10
Silver	<0.144	U	1.82	0.144	mg/Kg		06/26/22 15:13	06/28/22 22:21	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00349	U	0.0182	0.00349	mg/Kg		06/23/22 08:18	06/23/22 15:20	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-18**

**Lab Sample ID: 830-2005-21**

Date Collected: 06/15/22 15:35

Matrix: Solid

Date Received: 06/16/22 09:38

Sample Depth: 15

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000207	U	0.00100	0.000207	mg/Kg		06/20/22 15:49	06/21/22 19:32	1
Toluene	<0.00100	U	0.00500	0.00100	mg/Kg		06/20/22 15:49	06/21/22 19:32	1
Ethylbenzene	<0.000336	U	0.00100	0.000336	mg/Kg		06/20/22 15:49	06/21/22 19:32	1
m,p-Xylenes	<0.000800	U	0.00200	0.000800	mg/Kg		06/20/22 15:49	06/21/22 19:32	1
o-Xylene	<0.000985	U	0.00100	0.000985	mg/Kg		06/20/22 15:49	06/21/22 19:32	1
Xylenes, Total	<0.000985	U	0.00200	0.000985	mg/Kg		06/20/22 15:49	06/21/22 19:32	1
MTBE	<0.000409	U	0.00500	0.000409	mg/Kg		06/20/22 15:49	06/21/22 19:32	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	118		56 - 150				06/20/22 15:49	06/21/22 19:32	1
4-Bromofluorobenzene (Surr)	97		68 - 152				06/20/22 15:49	06/21/22 19:32	1
Dibromofluoromethane (Surr)	102		53 - 142				06/20/22 15:49	06/21/22 19:32	1
Toluene-d8 (Surr)	93		70 - 130				06/20/22 15:49	06/21/22 19:32	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.0	U	49.7	21.0	mg/Kg		06/21/22 11:00	06/22/22 01:19	1
>C12-C28	<21.0	U	49.7	21.0	mg/Kg		06/21/22 11:00	06/22/22 01:19	1
>C28-C35	<21.0	U	49.7	21.0	mg/Kg		06/21/22 11:00	06/22/22 01:19	1
Total Petroleum Hydrocarbons (C6-C35)	<21.0	U	49.7	21.0	mg/Kg			06/21/22 15:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane (Surr)	84		70 - 130				06/21/22 11:00	06/22/22 01:19	1
o-Terphenyl (Surr)	88		70 - 130				06/21/22 11:00	06/22/22 01:19	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.869</b>	<b>J</b>	3.57	0.551	mg/Kg		06/26/22 15:21	06/28/22 16:47	10
<b>Barium</b>	<b>39.2</b>	<b>B</b>	3.57	0.310	mg/Kg		06/26/22 15:21	06/28/22 16:47	10
Cadmium	<0.104	U	1.79	0.104	mg/Kg		06/26/22 15:21	06/28/22 16:47	10
<b>Chromium</b>	<b>2.47</b>	<b>J</b>	3.57	0.242	mg/Kg		06/26/22 15:21	06/28/22 16:47	10
<b>Lead</b>	<b>2.23</b>		1.79	0.173	mg/Kg		06/26/22 15:21	06/28/22 16:47	10
Selenium	<0.443	U	1.79	0.443	mg/Kg		06/26/22 15:21	06/28/22 16:47	10
Silver	<0.142	U	1.79	0.142	mg/Kg		06/26/22 15:21	06/28/22 16:47	10

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00370	U	0.0192	0.00370	mg/Kg		06/23/22 08:21	06/23/22 16:01	1

# Surrogate Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (56-150)	BFB (68-152)	DBFM (53-142)	TOL (70-130)
830-2005-1	B-11	107	101	100	97
830-2005-2	B-12	109	103	97	95
830-2005-3	B-12	91	108	89	102
830-2005-4	B-13	110	99	99	96
830-2005-5	B-13	105	107	110	100
830-2005-6	B-13	112	99	100	94
830-2005-7	B-14	111	99	100	94
830-2005-8	B-14	91	105	93	102
830-2005-9	B-14	110	96	100	95
830-2005-10	B-15	113	97	100	92
830-2005-11	B-15	109	105	116	101
830-2005-12	B-15	110	98	99	96
830-2005-13	B-16	117	102	103	95
830-2005-14	B-16	89	108	94	102
830-2005-15	B-16	113	97	100	96
830-2005-16	B-17	118	97	99	94
830-2005-17	B-17	91	108	94	106
830-2005-18	B-17	118	94	103	94
830-2005-19	B-18	112	97	98	95
830-2005-20	B-18	89	107	97	100
830-2005-21	B-18	118	97	102	93
LCS 860-57784/3	Lab Control Sample	101	102	101	94
LCS 860-57798/3	Lab Control Sample	111	115	112	103
LCS 860-57878/3	Lab Control Sample	87	106	100	102
LCS 860-58175/3	Lab Control Sample	109	112	112	101
LCSD 860-57784/4	Lab Control Sample Dup	100	99	99	97
LCSD 860-57798/4	Lab Control Sample Dup	110	113	111	101
LCSD 860-57878/4	Lab Control Sample Dup	86	106	100	102
LCSD 860-58175/4	Lab Control Sample Dup	104	111	109	101
MB 860-57784/9	Method Blank	106	97	100	94
MB 860-57798/8	Method Blank	115	103	111	99
MB 860-57878/8	Method Blank	82	109	92	103
MB 860-58175/8	Method Blank	95	107	106	99

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane (Surr)  
TOL = Toluene-d8 (Surr)

## Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO (70-130)	OTPH (70-130)
830-2005-1	B-11	95	104
830-2005-2	B-12	87	99
830-2005-3	B-12	96	103
830-2005-4	B-13	92	100

# Surrogate Summary

Client: ESSCO Environmental, Inc.  
 Project/Site: B&C-22-01

Job ID: 830-2005-1  
 SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO (70-130)	OTPH (70-130)
830-2005-5	B-13	92	101
830-2005-6	B-13	90	102
830-2005-7	B-14	92	104
830-2005-8	B-14	93	105
830-2005-9	B-14	92	104
830-2005-10	B-15	90	98
830-2005-11	B-15	90	102
830-2005-12	B-15	96	107
830-2005-13	B-16	88	98
830-2005-14	B-16	96	110
830-2005-15	B-16	91	104
830-2005-16	B-17	93	104
830-2005-17	B-17	96	110
830-2005-18	B-17	88	99
830-2005-19	B-18	81	89
830-2005-20	B-18	81	87
830-2005-21	B-18	84	88
LCS 860-57677/2-A	Lab Control Sample	88	105
LCS 860-57901/2-A	Lab Control Sample	102	98
LCSD 860-57677/3-A	Lab Control Sample Dup	92	110
LCSD 860-57901/3-A	Lab Control Sample Dup	108	97
MB 860-57677/1-A	Method Blank	89	99
MB 860-57901/1-A	Method Blank	91	102

**Surrogate Legend**

1CO = 1-Chlorooctane (Surr)  
 OTPH = o-Terphenyl (Surr)





## QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

### Method: 8260C - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 860-57784/9**  
**Matrix: Solid**  
**Analysis Batch: 57784**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000207	U	0.00100	0.000207	mg/Kg			06/21/22 12:31	1
Ethylbenzene	<0.000336	U	0.00100	0.000336	mg/Kg			06/21/22 12:31	1
m,p-Xylenes	<0.000800	U	0.00200	0.000800	mg/Kg			06/21/22 12:31	1
MTBE	<0.000409	U	0.00500	0.000409	mg/Kg			06/21/22 12:31	1
o-Xylene	<0.000985	U	0.00100	0.000985	mg/Kg			06/21/22 12:31	1
Toluene	<0.00100	U	0.00500	0.00100	mg/Kg			06/21/22 12:31	1
Xylenes, Total	<0.000985	U	0.00200	0.000985	mg/Kg			06/21/22 12:31	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	106		56 - 150		06/21/22 12:31	1
4-Bromofluorobenzene (Surr)	97		68 - 152		06/21/22 12:31	1
Dibromofluoromethane (Surr)	100		53 - 142		06/21/22 12:31	1
Toluene-d8 (Surr)	94		70 - 130		06/21/22 12:31	1

**Lab Sample ID: LCS 860-57784/3**  
**Matrix: Solid**  
**Analysis Batch: 57784**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.0500	0.04792		mg/Kg		96	66 - 142
Ethylbenzene	0.0500	0.05038		mg/Kg		101	80 - 130
m,p-Xylenes	0.0500	0.05055		mg/Kg		101	78 - 130
MTBE	0.0500	0.05269		mg/Kg		105	64 - 148
o-Xylene	0.0500	0.05085		mg/Kg		102	79 - 130
Toluene	0.0500	0.04527		mg/Kg		91	74 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		56 - 150
4-Bromofluorobenzene (Surr)	102		68 - 152
Dibromofluoromethane (Surr)	101		53 - 142
Toluene-d8 (Surr)	94		70 - 130

**Lab Sample ID: LCSD 860-57784/4**  
**Matrix: Solid**  
**Analysis Batch: 57784**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Benzene	0.0500	0.04782		mg/Kg		96	66 - 142	0	25
Ethylbenzene	0.0500	0.05048		mg/Kg		101	80 - 130	0	25
m,p-Xylenes	0.0500	0.05077		mg/Kg		102	78 - 130	0	25
MTBE	0.0500	0.05580		mg/Kg		112	64 - 148	6	25
o-Xylene	0.0500	0.05195		mg/Kg		104	79 - 130	2	25
Toluene	0.0500	0.04707		mg/Kg		94	74 - 130	4	25

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		56 - 150
4-Bromofluorobenzene (Surr)	99		68 - 152

# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-57784/4**

**Matrix: Solid**

**Analysis Batch: 57784**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	99		53 - 142
Toluene-d8 (Surr)	97		70 - 130

**Lab Sample ID: MB 860-57798/8**

**Matrix: Solid**

**Analysis Batch: 57798**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.000267	U	0.00500	0.000267	mg/Kg			06/21/22 16:11	1
1,1,1-Trichloroethane	<0.000503	U	0.00500	0.000503	mg/Kg			06/21/22 16:11	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00500	0.000470	mg/Kg			06/21/22 16:11	1
1,1,2-Trichloroethane	<0.000392	U	0.00500	0.000392	mg/Kg			06/21/22 16:11	1
1,1-Dichloroethane	<0.000376	U	0.00500	0.000376	mg/Kg			06/21/22 16:11	1
1,1-Dichloroethene	<0.000277	U	0.00500	0.000277	mg/Kg			06/21/22 16:11	1
1,1-Dichloropropene	<0.000448	U	0.00500	0.000448	mg/Kg			06/21/22 16:11	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/Kg			06/21/22 16:11	1
1,2,3-Trichloropropane	<0.000450	U	0.00500	0.000450	mg/Kg			06/21/22 16:11	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/Kg			06/21/22 16:11	1
1,2,4-Trimethylbenzene	<0.000255	U	0.00500	0.000255	mg/Kg			06/21/22 16:11	1
1,2-Dibromo-3-Chloropropane	<0.000704	U	0.00500	0.000704	mg/Kg			06/21/22 16:11	1
1,2-Dibromoethane	<0.00104	U	0.00500	0.00104	mg/Kg			06/21/22 16:11	1
1,2-Dichlorobenzene	<0.000288	U	0.00500	0.000288	mg/Kg			06/21/22 16:11	1
1,2-Dichloroethane	<0.000304	U	0.00500	0.000304	mg/Kg			06/21/22 16:11	1
1,2-Dichloropropane	<0.000198	U	0.00500	0.000198	mg/Kg			06/21/22 16:11	1
1,3,5-Trimethylbenzene	<0.000289	U	0.00500	0.000289	mg/Kg			06/21/22 16:11	1
1,3-Dichlorobenzene	<0.000273	U	0.00500	0.000273	mg/Kg			06/21/22 16:11	1
1,3-Dichloropropane	<0.000409	U	0.00500	0.000409	mg/Kg			06/21/22 16:11	1
1,4-Dichlorobenzene	<0.000214	U	0.00500	0.000214	mg/Kg			06/21/22 16:11	1
2,2-Dichloropropane	<0.000524	U	0.00500	0.000524	mg/Kg			06/21/22 16:11	1
2-Butanone	<0.00365	U	0.0200	0.00365	mg/Kg			06/21/22 16:11	1
4-Chlorotoluene	<0.000264	U	0.00500	0.000264	mg/Kg			06/21/22 16:11	1
Benzene	<0.000207	U	0.00100	0.000207	mg/Kg			06/21/22 16:11	1
Bromobenzene	<0.000346	U	0.00500	0.000346	mg/Kg			06/21/22 16:11	1
Bromochloromethane	<0.000526	U	0.00500	0.000526	mg/Kg			06/21/22 16:11	1
Bromodichloromethane	<0.000251	U	0.00500	0.000251	mg/Kg			06/21/22 16:11	1
Bromoform	<0.00103	U	0.00500	0.00103	mg/Kg			06/21/22 16:11	1
Bromomethane	<0.000943	U	0.00500	0.000943	mg/Kg			06/21/22 16:11	1
Carbon tetrachloride	<0.00164	U	0.00500	0.00164	mg/Kg			06/21/22 16:11	1
Chlorobenzene	<0.000237	U	0.00500	0.000237	mg/Kg			06/21/22 16:11	1
Chloroethane	<0.000444	U	0.0100	0.000444	mg/Kg			06/21/22 16:11	1
Chloroform	<0.000173	U	0.00500	0.000173	mg/Kg			06/21/22 16:11	1
Chloromethane	<0.000431	U	0.00500	0.000431	mg/Kg			06/21/22 16:11	1
cis-1,2-Dichloroethene	<0.000301	U	0.00500	0.000301	mg/Kg			06/21/22 16:11	1
cis-1,3-Dichloropropene	<0.000230	U	0.00500	0.000230	mg/Kg			06/21/22 16:11	1
Dibromochloromethane	<0.000895	U	0.00500	0.000895	mg/Kg			06/21/22 16:11	1
Dichlorodifluoromethane	<0.00111	U	0.00500	0.00111	mg/Kg			06/21/22 16:11	1
Ethylbenzene	<0.000336	U	0.00100	0.000336	mg/Kg			06/21/22 16:11	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/Kg			06/21/22 16:11	1

# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-57798/8

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 57798

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Isopropylbenzene	<0.000174	U	0.00500	0.000174	mg/Kg			06/21/22 16:11	1
m,p-Xylenes	<0.000800	U	0.00200	0.000800	mg/Kg			06/21/22 16:11	1
Methylene Chloride	<0.00422	U	0.0200	0.00422	mg/Kg			06/21/22 16:11	1
MTBE	<0.000409	U	0.00500	0.000409	mg/Kg			06/21/22 16:11	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/Kg			06/21/22 16:11	1
n-Butylbenzene	<0.000274	U	0.00500	0.000274	mg/Kg			06/21/22 16:11	1
N-Propylbenzene	<0.000286	U	0.00500	0.000286	mg/Kg			06/21/22 16:11	1
o-Xylene	<0.000985	U	0.00100	0.000985	mg/Kg			06/21/22 16:11	1
p-Cymene (p-Isopropyltoluene)	<0.000319	U	0.00500	0.000319	mg/Kg			06/21/22 16:11	1
sec-Butylbenzene	<0.000261	U	0.00500	0.000261	mg/Kg			06/21/22 16:11	1
Styrene	<0.000205	U	0.00500	0.000205	mg/Kg			06/21/22 16:11	1
tert-Butylbenzene	<0.00128	U	0.00500	0.00128	mg/Kg			06/21/22 16:11	1
Tetrachloroethene	<0.000370	U	0.00500	0.000370	mg/Kg			06/21/22 16:11	1
Toluene	<0.00100	U	0.00500	0.00100	mg/Kg			06/21/22 16:11	1
trans-1,2-Dichloroethene	<0.000434	U	0.00500	0.000434	mg/Kg			06/21/22 16:11	1
trans-1,3-Dichloropropene	<0.000909	U	0.00500	0.000909	mg/Kg			06/21/22 16:11	1
Trichloroethene	<0.000494	U	0.00500	0.000494	mg/Kg			06/21/22 16:11	1
Trichlorofluoromethane	<0.000307	U	0.00500	0.000307	mg/Kg			06/21/22 16:11	1
Vinyl chloride	<0.000441	U	0.00500	0.000441	mg/Kg			06/21/22 16:11	1
Xylenes, Total	<0.000985	U	0.00200	0.000985	mg/Kg			06/21/22 16:11	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	115		56 - 150		06/21/22 16:11	1
4-Bromofluorobenzene (Surr)	103		68 - 152		06/21/22 16:11	1
Dibromofluoromethane (Surr)	111		53 - 142		06/21/22 16:11	1
Toluene-d8 (Surr)	99		70 - 130		06/21/22 16:11	1

Lab Sample ID: LCS 860-57798/3

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 57798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.05574		mg/Kg		111	71 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.05891		mg/Kg		118	75 - 133
1,1,2-Trichloroethane	0.0500	0.05505		mg/Kg		110	75 - 131
1,1-Dichloroethane	0.0500	0.05309		mg/Kg		106	73 - 130
1,1-Dichloroethene	0.0500	0.04602		mg/Kg		92	68 - 130
1,1-Dichloropropene	0.0500	0.05286		mg/Kg		106	72 - 130
1,2,3-Trichlorobenzene	0.0500	0.04686		mg/Kg		94	75 - 131
1,2,3-Trichloropropane	0.0500	0.06002		mg/Kg		120	75 - 131
1,2,4-Trichlorobenzene	0.0500	0.04393		mg/Kg		88	79 - 130
1,2,4-Trimethylbenzene	0.0500	0.05357		mg/Kg		107	60 - 159
1,2-Dibromo-3-Chloropropane	0.0500	0.04804		mg/Kg		96	58 - 133
1,2-Dibromoethane	0.0500	0.05020		mg/Kg		100	73 - 130
1,2-Dichlorobenzene	0.0500	0.04711		mg/Kg		94	84 - 130
1,2-Dichloroethane	0.0500	0.05401		mg/Kg		108	70 - 130
1,2-Dichloropropane	0.0500	0.05195		mg/Kg		104	75 - 130

# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-57798/3

Matrix: Solid

Analysis Batch: 57798

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
1,3,5-Trimethylbenzene	0.0500	0.05251		mg/Kg		105	61 - 160
1,3-Dichlorobenzene	0.0500	0.04795		mg/Kg		96	84 - 130
1,3-Dichloropropane	0.0500	0.05237		mg/Kg		105	82 - 131
1,4-Dichlorobenzene	0.0500	0.04738		mg/Kg		95	82 - 130
2,2-Dichloropropane	0.0500	0.05749		mg/Kg		115	67 - 137
2-Butanone	0.250	0.3256		mg/Kg		130	75 - 130
4-Chlorotoluene	0.0500	0.05400		mg/Kg		108	83 - 130
Benzene	0.0500	0.04815		mg/Kg		96	66 - 142
Bromobenzene	0.0500	0.04792		mg/Kg		96	75 - 130
Bromochloromethane	0.0500	0.05080		mg/Kg		102	71 - 130
Bromodichloromethane	0.0500	0.05428		mg/Kg		109	78 - 130
Bromoform	0.0500	0.04911		mg/Kg		98	63 - 136
Bromomethane	0.0500	0.07152	*+	mg/Kg		143	60 - 140
Carbon tetrachloride	0.0500	0.05172		mg/Kg		103	63 - 135
Chlorobenzene	0.0500	0.04725		mg/Kg		94	83 - 130
Chloroethane	0.0500	0.07245	*+	mg/Kg		145	57 - 130
Chloroform	0.0500	0.05813		mg/Kg		116	74 - 130
Chloromethane	0.0500	0.05463		mg/Kg		109	58 - 130
cis-1,2-Dichloroethene	0.0500	0.05558		mg/Kg		111	72 - 131
cis-1,3-Dichloropropene	0.0500	0.05152		mg/Kg		103	74 - 135
Dibromochloromethane	0.0500	0.05007		mg/Kg		100	77 - 130
Dichlorodifluoromethane	0.0500	0.05011		mg/Kg		100	54 - 130
Ethylbenzene	0.0500	0.04972		mg/Kg		99	80 - 130
Hexachlorobutadiene	0.0500	0.03845		mg/Kg		77	77 - 130
Isopropylbenzene	0.0500	0.04949		mg/Kg		99	55 - 155
m,p-Xylenes	0.0500	0.04766		mg/Kg		95	78 - 130
Methylene Chloride	0.0500	0.04775		mg/Kg		96	57 - 134
MTBE	0.0500	0.06008		mg/Kg		120	64 - 148
Naphthalene	0.0500	0.05491		mg/Kg		110	53 - 150
n-Butylbenzene	0.0500	0.05570		mg/Kg		111	82 - 130
N-Propylbenzene	0.0500	0.05382		mg/Kg		108	84 - 131
o-Xylene	0.0500	0.04913		mg/Kg		98	79 - 130
p-Cymene (p-Isopropyltoluene)	0.0500	0.05337		mg/Kg		107	84 - 130
sec-Butylbenzene	0.0500	0.05351		mg/Kg		107	84 - 131
Styrene	0.0500	0.04923		mg/Kg		98	80 - 130
tert-Butylbenzene	0.0500	0.05348		mg/Kg		107	83 - 132
Tetrachloroethene	0.0500	0.04174		mg/Kg		83	79 - 130
Toluene	0.0500	0.04746		mg/Kg		95	74 - 130
trans-1,2-Dichloroethene	0.0500	0.04751		mg/Kg		95	63 - 130
trans-1,3-Dichloropropene	0.0500	0.05190		mg/Kg		104	73 - 130
Trichloroethene	0.0500	0.04469		mg/Kg		89	78 - 130
Trichlorofluoromethane	0.0500	0.06726		mg/Kg		135	71 - 148
Vinyl chloride	0.0500	0.05939		mg/Kg		119	60 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	111		56 - 150
4-Bromofluorobenzene (Surr)	115		68 - 152
Dibromofluoromethane (Surr)	112		53 - 142

# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-57798/3

Matrix: Solid

Analysis Batch: 57798

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	103		70 - 130

Lab Sample ID: LCSD 860-57798/4

Matrix: Solid

Analysis Batch: 57798

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.0500	0.05002		mg/Kg		100	81 - 130	0	25
1,1,1-Trichloroethane	0.0500	0.05624		mg/Kg		112	71 - 130	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.05868		mg/Kg		117	75 - 133	0	25
1,1,2-Trichloroethane	0.0500	0.05417		mg/Kg		108	75 - 131	2	25
1,1-Dichloroethane	0.0500	0.05287		mg/Kg		106	73 - 130	0	25
1,1-Dichloroethene	0.0500	0.04635		mg/Kg		93	68 - 130	1	25
1,1-Dichloropropene	0.0500	0.05217		mg/Kg		104	72 - 130	1	25
1,2,3-Trichlorobenzene	0.0500	0.04510		mg/Kg		90	75 - 131	4	25
1,2,3-Trichloropropane	0.0500	0.05872		mg/Kg		117	75 - 131	2	25
1,2,4-Trichlorobenzene	0.0500	0.04298		mg/Kg		86	79 - 130	2	25
1,2,4-Trimethylbenzene	0.0500	0.05265		mg/Kg		105	60 - 159	2	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04459		mg/Kg		89	58 - 133	7	25
1,2-Dibromoethane	0.0500	0.04869		mg/Kg		97	73 - 130	3	25
1,2-Dichlorobenzene	0.0500	0.04523		mg/Kg		90	84 - 130	4	25
1,2-Dichloroethane	0.0500	0.05340		mg/Kg		107	70 - 130	1	25
1,2-Dichloropropane	0.0500	0.05114		mg/Kg		102	75 - 130	2	25
1,3,5-Trimethylbenzene	0.0500	0.05118		mg/Kg		102	61 - 160	3	25
1,3-Dichlorobenzene	0.0500	0.04658		mg/Kg		93	84 - 130	3	25
1,3-Dichloropropane	0.0500	0.05102		mg/Kg		102	82 - 131	3	25
1,4-Dichlorobenzene	0.0500	0.04458		mg/Kg		89	82 - 130	6	25
2,2-Dichloropropane	0.0500	0.05752		mg/Kg		115	67 - 137	0	25
2-Butanone	0.250	0.3167		mg/Kg		127	75 - 130	3	25
4-Chlorotoluene	0.0500	0.05250		mg/Kg		105	83 - 130	3	25
Benzene	0.0500	0.04720		mg/Kg		94	66 - 142	2	25
Bromobenzene	0.0500	0.04505		mg/Kg		90	75 - 130	6	25
Bromochloromethane	0.0500	0.05087		mg/Kg		102	71 - 130	0	25
Bromodichloromethane	0.0500	0.05305		mg/Kg		106	78 - 130	2	25
Bromoform	0.0500	0.04829		mg/Kg		97	63 - 136	2	25
Bromomethane	0.0500	0.07511	*+	mg/Kg		150	60 - 140	5	25
Carbon tetrachloride	0.0500	0.05042		mg/Kg		101	63 - 135	3	25
Chlorobenzene	0.0500	0.04623		mg/Kg		92	83 - 130	2	25
Chloroethane	0.0500	0.07399	*+	mg/Kg		148	57 - 130	2	25
Chloroform	0.0500	0.05654		mg/Kg		113	74 - 130	3	25
Chloromethane	0.0500	0.05345		mg/Kg		107	58 - 130	2	25
cis-1,2-Dichloroethene	0.0500	0.05544		mg/Kg		111	72 - 131	0	25
cis-1,3-Dichloropropene	0.0500	0.05120		mg/Kg		102	74 - 135	1	25
Dibromochloromethane	0.0500	0.05200		mg/Kg		104	77 - 130	4	25
Dichlorodifluoromethane	0.0500	0.05164		mg/Kg		103	54 - 130	3	25
Ethylbenzene	0.0500	0.04859		mg/Kg		97	80 - 130	2	25
Hexachlorobutadiene	0.0500	0.03741	*-	mg/Kg		75	77 - 130	3	25
Isopropylbenzene	0.0500	0.04861		mg/Kg		97	55 - 155	2	25

# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-57798/4

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 57798

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes	0.0500	0.04654		mg/Kg		93	78 - 130	2	25
Methylene Chloride	0.0500	0.04989		mg/Kg		100	57 - 134	4	25
MTBE	0.0500	0.05830		mg/Kg		117	64 - 148	3	25
Naphthalene	0.0500	0.05380		mg/Kg		108	53 - 150	2	25
n-Butylbenzene	0.0500	0.05423		mg/Kg		108	82 - 130	3	25
N-Propylbenzene	0.0500	0.05239		mg/Kg		105	84 - 131	3	25
o-Xylene	0.0500	0.04835		mg/Kg		97	79 - 130	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05207		mg/Kg		104	84 - 130	2	25
sec-Butylbenzene	0.0500	0.05192		mg/Kg		104	84 - 131	3	25
Styrene	0.0500	0.04811		mg/Kg		96	80 - 130	2	25
tert-Butylbenzene	0.0500	0.05210		mg/Kg		104	83 - 132	3	25
Tetrachloroethene	0.0500	0.04037		mg/Kg		81	79 - 130	3	25
Toluene	0.0500	0.04612		mg/Kg		92	74 - 130	3	25
trans-1,2-Dichloroethene	0.0500	0.04507		mg/Kg		90	63 - 130	5	25
trans-1,3-Dichloropropene	0.0500	0.05104		mg/Kg		102	73 - 130	2	25
Trichloroethene	0.0500	0.04363		mg/Kg		87	78 - 130	2	25
Trichlorofluoromethane	0.0500	0.06563		mg/Kg		131	71 - 148	2	25
Vinyl chloride	0.0500	0.05955		mg/Kg		119	60 - 130	0	25

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	110		56 - 150
4-Bromofluorobenzene (Surr)	113		68 - 152
Dibromofluoromethane (Surr)	111		53 - 142
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: MB 860-57878/8

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 57878

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.000267	U	0.00500	0.000267	mg/Kg			06/22/22 13:46	1
1,1,1-Trichloroethane	<0.000503	U	0.00500	0.000503	mg/Kg			06/22/22 13:46	1
1,1,1,2,2-Tetrachloroethane	<0.000470	U	0.00500	0.000470	mg/Kg			06/22/22 13:46	1
1,1,2-Trichloroethane	<0.000392	U	0.00500	0.000392	mg/Kg			06/22/22 13:46	1
1,1-Dichloroethane	<0.000376	U	0.00500	0.000376	mg/Kg			06/22/22 13:46	1
1,1-Dichloroethene	<0.000277	U	0.00500	0.000277	mg/Kg			06/22/22 13:46	1
1,1-Dichloropropene	<0.000448	U	0.00500	0.000448	mg/Kg			06/22/22 13:46	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/Kg			06/22/22 13:46	1
1,2,3-Trichloropropane	<0.000450	U	0.00500	0.000450	mg/Kg			06/22/22 13:46	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/Kg			06/22/22 13:46	1
1,2,4-Trimethylbenzene	<0.000255	U	0.00500	0.000255	mg/Kg			06/22/22 13:46	1
1,2-Dibromo-3-Chloropropane	<0.000704	U	0.00500	0.000704	mg/Kg			06/22/22 13:46	1
1,2-Dibromoethane	<0.00104	U	0.00500	0.00104	mg/Kg			06/22/22 13:46	1
1,2-Dichlorobenzene	<0.000288	U	0.00500	0.000288	mg/Kg			06/22/22 13:46	1
1,2-Dichloroethane	<0.000304	U	0.00500	0.000304	mg/Kg			06/22/22 13:46	1
1,2-Dichloropropane	<0.000198	U	0.00500	0.000198	mg/Kg			06/22/22 13:46	1
1,3,5-Trimethylbenzene	<0.000289	U	0.00500	0.000289	mg/Kg			06/22/22 13:46	1
1,3-Dichlorobenzene	<0.000273	U	0.00500	0.000273	mg/Kg			06/22/22 13:46	1

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-57878/8**

**Client Sample ID: Method Blank**

**Matrix: Solid**

**Prep Type: Total/NA**

**Analysis Batch: 57878**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,3-Dichloropropane	<0.000409	U	0.00500	0.000409	mg/Kg			06/22/22 13:46	1
1,4-Dichlorobenzene	<0.000214	U	0.00500	0.000214	mg/Kg			06/22/22 13:46	1
2,2-Dichloropropane	<0.000524	U	0.00500	0.000524	mg/Kg			06/22/22 13:46	1
2-Butanone	<0.00365	U	0.0200	0.00365	mg/Kg			06/22/22 13:46	1
4-Chlorotoluene	<0.000264	U	0.00500	0.000264	mg/Kg			06/22/22 13:46	1
Benzene	<0.000207	U	0.00100	0.000207	mg/Kg			06/22/22 13:46	1
Bromobenzene	<0.000346	U	0.00500	0.000346	mg/Kg			06/22/22 13:46	1
Bromochloromethane	<0.000526	U	0.00500	0.000526	mg/Kg			06/22/22 13:46	1
Bromodichloromethane	<0.000251	U	0.00500	0.000251	mg/Kg			06/22/22 13:46	1
Bromoform	<0.00103	U	0.00500	0.00103	mg/Kg			06/22/22 13:46	1
Bromomethane	<0.000943	U	0.00500	0.000943	mg/Kg			06/22/22 13:46	1
Carbon tetrachloride	<0.00164	U	0.00500	0.00164	mg/Kg			06/22/22 13:46	1
Chlorobenzene	<0.000237	U	0.00500	0.000237	mg/Kg			06/22/22 13:46	1
Chloroethane	<0.000444	U	0.0100	0.000444	mg/Kg			06/22/22 13:46	1
Chloroform	<0.000173	U	0.00500	0.000173	mg/Kg			06/22/22 13:46	1
Chloromethane	<0.000431	U	0.00500	0.000431	mg/Kg			06/22/22 13:46	1
cis-1,2-Dichloroethene	<0.000301	U	0.00500	0.000301	mg/Kg			06/22/22 13:46	1
cis-1,3-Dichloropropene	<0.000230	U	0.00500	0.000230	mg/Kg			06/22/22 13:46	1
Dibromochloromethane	<0.000895	U	0.00500	0.000895	mg/Kg			06/22/22 13:46	1
Dichlorodifluoromethane	<0.00111	U	0.00500	0.00111	mg/Kg			06/22/22 13:46	1
Ethylbenzene	<0.000336	U	0.00100	0.000336	mg/Kg			06/22/22 13:46	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/Kg			06/22/22 13:46	1
Isopropylbenzene	<0.000174	U	0.00500	0.000174	mg/Kg			06/22/22 13:46	1
m,p-Xylenes	<0.000800	U	0.00200	0.000800	mg/Kg			06/22/22 13:46	1
Methylene Chloride	<0.00422	U	0.0200	0.00422	mg/Kg			06/22/22 13:46	1
MTBE	<0.000409	U	0.00500	0.000409	mg/Kg			06/22/22 13:46	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/Kg			06/22/22 13:46	1
n-Butylbenzene	<0.000274	U	0.00500	0.000274	mg/Kg			06/22/22 13:46	1
N-Propylbenzene	<0.000286	U	0.00500	0.000286	mg/Kg			06/22/22 13:46	1
o-Xylene	<0.000985	U	0.00100	0.000985	mg/Kg			06/22/22 13:46	1
p-Cymene (p-Isopropyltoluene)	<0.000319	U	0.00500	0.000319	mg/Kg			06/22/22 13:46	1
sec-Butylbenzene	<0.000261	U	0.00500	0.000261	mg/Kg			06/22/22 13:46	1
Styrene	<0.000205	U	0.00500	0.000205	mg/Kg			06/22/22 13:46	1
tert-Butylbenzene	<0.00128	U	0.00500	0.00128	mg/Kg			06/22/22 13:46	1
Tetrachloroethene	<0.000370	U	0.00500	0.000370	mg/Kg			06/22/22 13:46	1
Toluene	<0.00100	U	0.00500	0.00100	mg/Kg			06/22/22 13:46	1
trans-1,2-Dichloroethene	<0.000434	U	0.00500	0.000434	mg/Kg			06/22/22 13:46	1
trans-1,3-Dichloropropene	<0.000909	U	0.00500	0.000909	mg/Kg			06/22/22 13:46	1
Trichloroethene	<0.000494	U	0.00500	0.000494	mg/Kg			06/22/22 13:46	1
Trichlorofluoromethane	<0.000307	U	0.00500	0.000307	mg/Kg			06/22/22 13:46	1
Vinyl chloride	<0.000441	U	0.00500	0.000441	mg/Kg			06/22/22 13:46	1
Xylenes, Total	<0.000985	U	0.00200	0.000985	mg/Kg			06/22/22 13:46	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	82		56 - 150		06/22/22 13:46	1
4-Bromofluorobenzene (Surr)	109		68 - 152		06/22/22 13:46	1
Dibromofluoromethane (Surr)	92		53 - 142		06/22/22 13:46	1
Toluene-d8 (Surr)	103		70 - 130		06/22/22 13:46	1

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-57878/3**

**Matrix: Solid**

**Analysis Batch: 57878**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	0.0500	0.05667		mg/Kg		113	81 - 130
1,1,1-Trichloroethane	0.0500	0.05434		mg/Kg		109	71 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.05301		mg/Kg		106	75 - 133
1,1,2-Trichloroethane	0.0500	0.05513		mg/Kg		110	75 - 131
1,1-Dichloroethane	0.0500	0.05412		mg/Kg		108	73 - 130
1,1-Dichloroethene	0.0500	0.06189		mg/Kg		124	68 - 130
1,1-Dichloropropene	0.0500	0.05383		mg/Kg		108	72 - 130
1,2,3-Trichlorobenzene	0.0500	0.05621		mg/Kg		112	75 - 131
1,2,3-Trichloropropane	0.0500	0.05536		mg/Kg		111	75 - 131
1,2,4-Trichlorobenzene	0.0500	0.05855		mg/Kg		117	79 - 130
1,2,4-Trimethylbenzene	0.0500	0.05799		mg/Kg		116	60 - 159
1,2-Dibromo-3-Chloropropane	0.0500	0.05984		mg/Kg		120	58 - 133
1,2-Dibromoethane	0.0500	0.05751		mg/Kg		115	73 - 130
1,2-Dichlorobenzene	0.0500	0.05263		mg/Kg		105	84 - 130
1,2-Dichloroethane	0.0500	0.04490		mg/Kg		90	70 - 130
1,2-Dichloropropane	0.0500	0.05065		mg/Kg		101	75 - 130
1,3,5-Trimethylbenzene	0.0500	0.05576		mg/Kg		112	61 - 160
1,3-Dichlorobenzene	0.0500	0.05445		mg/Kg		109	84 - 130
1,3-Dichloropropane	0.0500	0.05333		mg/Kg		107	82 - 131
1,4-Dichlorobenzene	0.0500	0.05232		mg/Kg		105	82 - 130
2,2-Dichloropropane	0.0500	0.05637		mg/Kg		113	67 - 137
2-Butanone	0.250	0.2918		mg/Kg		117	75 - 130
4-Chlorotoluene	0.0500	0.05345		mg/Kg		107	83 - 130
Benzene	0.0500	0.05323		mg/Kg		106	66 - 142
Bromobenzene	0.0500	0.05484		mg/Kg		110	75 - 130
Bromochloromethane	0.0500	0.05346		mg/Kg		107	71 - 130
Bromodichloromethane	0.0500	0.05276		mg/Kg		106	78 - 130
Bromoform	0.0500	0.06014		mg/Kg		120	63 - 136
Bromomethane	0.0500	0.03925		mg/Kg		79	60 - 140
Carbon tetrachloride	0.0500	0.05584		mg/Kg		112	63 - 135
Chlorobenzene	0.0500	0.05216		mg/Kg		104	83 - 130
Chloroethane	0.0500	0.04065		mg/Kg		81	57 - 130
Chloroform	0.0500	0.05035		mg/Kg		101	74 - 130
Chloromethane	0.0500	0.04215		mg/Kg		84	58 - 130
cis-1,2-Dichloroethene	0.0500	0.05210		mg/Kg		104	72 - 131
cis-1,3-Dichloropropene	0.0500	0.05694		mg/Kg		114	74 - 135
Dibromochloromethane	0.0500	0.05924		mg/Kg		118	77 - 130
Dichlorodifluoromethane	0.0500	0.05608		mg/Kg		112	54 - 130
Ethylbenzene	0.0500	0.05633		mg/Kg		113	80 - 130
Hexachlorobutadiene	0.0500	0.05991		mg/Kg		120	77 - 130
Isopropylbenzene	0.0500	0.05949		mg/Kg		119	55 - 155
m,p-Xylenes	0.0500	0.05702		mg/Kg		114	78 - 130
Methylene Chloride	0.0500	0.05140		mg/Kg		103	57 - 134
MTBE	0.0500	0.05402		mg/Kg		108	64 - 148
Naphthalene	0.0500	0.06431		mg/Kg		129	53 - 150
n-Butylbenzene	0.0500	0.05966		mg/Kg		119	82 - 130
N-Propylbenzene	0.0500	0.05984		mg/Kg		120	84 - 131
o-Xylene	0.0500	0.05513		mg/Kg		110	79 - 130



# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-57878/3**

**Matrix: Solid**

**Analysis Batch: 57878**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
p-Cymene (p-Isopropyltoluene)	0.0500	0.06000		mg/Kg		120	84 - 130	
sec-Butylbenzene	0.0500	0.06149		mg/Kg		123	84 - 131	
Styrene	0.0500	0.05834		mg/Kg		117	80 - 130	
tert-Butylbenzene	0.0500	0.06159		mg/Kg		123	83 - 132	
Tetrachloroethene	0.0500	0.05654		mg/Kg		113	79 - 130	
Toluene	0.0500	0.05476		mg/Kg		110	74 - 130	
trans-1,2-Dichloroethene	0.0500	0.05498		mg/Kg		110	63 - 130	
trans-1,3-Dichloropropene	0.0500	0.05801		mg/Kg		116	73 - 130	
Trichloroethene	0.0500	0.05667		mg/Kg		113	78 - 130	
Trichlorofluoromethane	0.0500	0.05757		mg/Kg		115	71 - 148	
Vinyl chloride	0.0500	0.04442		mg/Kg		89	60 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	87		56 - 150
4-Bromofluorobenzene (Surr)	106		68 - 152
Dibromofluoromethane (Surr)	100		53 - 142
Toluene-d8 (Surr)	102		70 - 130

**Lab Sample ID: LCSD 860-57878/4**

**Matrix: Solid**

**Analysis Batch: 57878**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	
									RPD	Limit
1,1,1,2-Tetrachloroethane	0.0500	0.05400		mg/Kg		108	81 - 130	5	25	
1,1,1-Trichloroethane	0.0500	0.04987		mg/Kg		100	71 - 130	9	25	
1,1,1,2-Tetrachloroethane	0.0500	0.04941		mg/Kg		99	75 - 133	7	25	
1,1,2-Trichloroethane	0.0500	0.05263		mg/Kg		105	75 - 131	5	25	
1,1-Dichloroethane	0.0500	0.05098		mg/Kg		102	73 - 130	6	25	
1,1-Dichloroethene	0.0500	0.05628		mg/Kg		113	68 - 130	10	25	
1,1-Dichloropropene	0.0500	0.04929		mg/Kg		99	72 - 130	9	25	
1,2,3-Trichlorobenzene	0.0500	0.05522		mg/Kg		110	75 - 131	2	25	
1,2,3-Trichloropropane	0.0500	0.04847		mg/Kg		97	75 - 131	13	25	
1,2,4-Trichlorobenzene	0.0500	0.05710		mg/Kg		114	79 - 130	3	25	
1,2,4-Trimethylbenzene	0.0500	0.05594		mg/Kg		112	60 - 159	4	25	
1,2-Dibromo-3-Chloropropane	0.0500	0.05624		mg/Kg		112	58 - 133	6	25	
1,2-Dibromoethane	0.0500	0.05396		mg/Kg		108	73 - 130	6	25	
1,2-Dichlorobenzene	0.0500	0.05120		mg/Kg		102	84 - 130	3	25	
1,2-Dichloroethane	0.0500	0.04278		mg/Kg		86	70 - 130	5	25	
1,2-Dichloropropane	0.0500	0.04892		mg/Kg		98	75 - 130	3	25	
1,3,5-Trimethylbenzene	0.0500	0.05344		mg/Kg		107	61 - 160	4	25	
1,3-Dichlorobenzene	0.0500	0.05284		mg/Kg		106	84 - 130	3	25	
1,3-Dichloropropane	0.0500	0.05018		mg/Kg		100	82 - 131	6	25	
1,4-Dichlorobenzene	0.0500	0.05102		mg/Kg		102	82 - 130	3	25	
2,2-Dichloropropane	0.0500	0.05196		mg/Kg		104	67 - 137	8	25	
2-Butanone	0.250	0.2688		mg/Kg		108	75 - 130	8	25	
4-Chlorotoluene	0.0500	0.05138		mg/Kg		103	83 - 130	4	25	
Benzene	0.0500	0.05074		mg/Kg		101	66 - 142	5	25	
Bromobenzene	0.0500	0.05305		mg/Kg		106	75 - 130	3	25	

# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-57878/4

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 57878

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromochloromethane	0.0500	0.04980		mg/Kg		100	71 - 130	7	25
Bromodichloromethane	0.0500	0.04999		mg/Kg		100	78 - 130	5	25
Bromoform	0.0500	0.05674		mg/Kg		113	63 - 136	6	25
Bromomethane	0.0500	0.04175		mg/Kg		84	60 - 140	6	25
Carbon tetrachloride	0.0500	0.04997		mg/Kg		100	63 - 135	11	25
Chlorobenzene	0.0500	0.05006		mg/Kg		100	83 - 130	4	25
Chloroethane	0.0500	0.04499		mg/Kg		90	57 - 130	10	25
Chloroform	0.0500	0.04748		mg/Kg		95	74 - 130	6	25
Chloromethane	0.0500	0.04464		mg/Kg		89	58 - 130	6	25
cis-1,2-Dichloroethene	0.0500	0.04819		mg/Kg		96	72 - 131	8	25
cis-1,3-Dichloropropene	0.0500	0.05361		mg/Kg		107	74 - 135	6	25
Dibromochloromethane	0.0500	0.05632		mg/Kg		113	77 - 130	5	25
Dichlorodifluoromethane	0.0500	0.05832		mg/Kg		117	54 - 130	4	25
Ethylbenzene	0.0500	0.05356		mg/Kg		107	80 - 130	5	25
Hexachlorobutadiene	0.0500	0.05578		mg/Kg		112	77 - 130	7	25
Isopropylbenzene	0.0500	0.05592		mg/Kg		112	55 - 155	6	25
m,p-Xylenes	0.0500	0.05356		mg/Kg		107	78 - 130	6	25
Methylene Chloride	0.0500	0.04890		mg/Kg		98	57 - 134	5	25
MTBE	0.0500	0.04988		mg/Kg		100	64 - 148	8	25
Naphthalene	0.0500	0.06101		mg/Kg		122	53 - 150	5	25
n-Butylbenzene	0.0500	0.05548		mg/Kg		111	82 - 130	7	25
N-Propylbenzene	0.0500	0.05629		mg/Kg		113	84 - 131	6	25
o-Xylene	0.0500	0.05288		mg/Kg		106	79 - 130	4	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05628		mg/Kg		113	84 - 130	6	25
sec-Butylbenzene	0.0500	0.05710		mg/Kg		114	84 - 131	7	25
Styrene	0.0500	0.05579		mg/Kg		112	80 - 130	4	25
tert-Butylbenzene	0.0500	0.05739		mg/Kg		115	83 - 132	7	25
Tetrachloroethene	0.0500	0.05261		mg/Kg		105	79 - 130	7	25
Toluene	0.0500	0.05245		mg/Kg		105	74 - 130	4	25
trans-1,2-Dichloroethene	0.0500	0.05160		mg/Kg		103	63 - 130	6	25
trans-1,3-Dichloropropene	0.0500	0.05455		mg/Kg		109	73 - 130	6	25
Trichloroethene	0.0500	0.05364		mg/Kg		107	78 - 130	5	25
Trichlorofluoromethane	0.0500	0.06137		mg/Kg		123	71 - 148	6	25
Vinyl chloride	0.0500	0.04641		mg/Kg		93	60 - 130	4	25

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	86		56 - 150
4-Bromofluorobenzene (Surr)	106		68 - 152
Dibromofluoromethane (Surr)	100		53 - 142
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: MB 860-58175/8

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 58175

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.000267	U	0.00500	0.000267	mg/Kg			06/23/22 14:16	1
1,1,1-Trichloroethane	<0.000503	U	0.00500	0.000503	mg/Kg			06/23/22 14:16	1

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-58175/8

Matrix: Solid

Analysis Batch: 58175

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00500	0.000470	mg/Kg			06/23/22 14:16	1
1,1,2-Trichloroethane	<0.000392	U	0.00500	0.000392	mg/Kg			06/23/22 14:16	1
1,1-Dichloroethane	<0.000376	U	0.00500	0.000376	mg/Kg			06/23/22 14:16	1
1,1-Dichloroethene	<0.000277	U	0.00500	0.000277	mg/Kg			06/23/22 14:16	1
1,1-Dichloropropene	<0.000448	U	0.00500	0.000448	mg/Kg			06/23/22 14:16	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/Kg			06/23/22 14:16	1
1,2,3-Trichloropropane	<0.000450	U	0.00500	0.000450	mg/Kg			06/23/22 14:16	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/Kg			06/23/22 14:16	1
1,2,4-Trimethylbenzene	<0.000255	U	0.00500	0.000255	mg/Kg			06/23/22 14:16	1
1,2-Dibromo-3-Chloropropane	<0.000704	U	0.00500	0.000704	mg/Kg			06/23/22 14:16	1
1,2-Dibromoethane	<0.00104	U	0.00500	0.00104	mg/Kg			06/23/22 14:16	1
1,2-Dichlorobenzene	<0.000288	U	0.00500	0.000288	mg/Kg			06/23/22 14:16	1
1,2-Dichloroethane	<0.000304	U	0.00500	0.000304	mg/Kg			06/23/22 14:16	1
1,2-Dichloropropane	<0.000198	U	0.00500	0.000198	mg/Kg			06/23/22 14:16	1
1,3,5-Trimethylbenzene	<0.000289	U	0.00500	0.000289	mg/Kg			06/23/22 14:16	1
1,3-Dichlorobenzene	<0.000273	U	0.00500	0.000273	mg/Kg			06/23/22 14:16	1
1,3-Dichloropropane	<0.000409	U	0.00500	0.000409	mg/Kg			06/23/22 14:16	1
1,4-Dichlorobenzene	<0.000214	U	0.00500	0.000214	mg/Kg			06/23/22 14:16	1
2,2-Dichloropropane	<0.000524	U	0.00500	0.000524	mg/Kg			06/23/22 14:16	1
2-Butanone	<0.00365	U	0.0200	0.00365	mg/Kg			06/23/22 14:16	1
4-Chlorotoluene	<0.000264	U	0.00500	0.000264	mg/Kg			06/23/22 14:16	1
Benzene	<0.000207	U	0.00100	0.000207	mg/Kg			06/23/22 14:16	1
Bromobenzene	<0.000346	U	0.00500	0.000346	mg/Kg			06/23/22 14:16	1
Bromochloromethane	<0.000526	U	0.00500	0.000526	mg/Kg			06/23/22 14:16	1
Bromodichloromethane	<0.000251	U	0.00500	0.000251	mg/Kg			06/23/22 14:16	1
Bromoform	<0.00103	U	0.00500	0.00103	mg/Kg			06/23/22 14:16	1
Bromomethane	<0.000943	U	0.00500	0.000943	mg/Kg			06/23/22 14:16	1
Carbon tetrachloride	<0.00164	U	0.00500	0.00164	mg/Kg			06/23/22 14:16	1
Chlorobenzene	<0.000237	U	0.00500	0.000237	mg/Kg			06/23/22 14:16	1
Chloroethane	<0.000444	U	0.0100	0.000444	mg/Kg			06/23/22 14:16	1
Chloroform	<0.000173	U	0.00500	0.000173	mg/Kg			06/23/22 14:16	1
Chloromethane	<0.000431	U	0.00500	0.000431	mg/Kg			06/23/22 14:16	1
cis-1,2-Dichloroethene	<0.000301	U	0.00500	0.000301	mg/Kg			06/23/22 14:16	1
cis-1,3-Dichloropropene	<0.000230	U	0.00500	0.000230	mg/Kg			06/23/22 14:16	1
Dibromochloromethane	<0.000895	U	0.00500	0.000895	mg/Kg			06/23/22 14:16	1
Dichlorodifluoromethane	<0.00111	U	0.00500	0.00111	mg/Kg			06/23/22 14:16	1
Ethylbenzene	<0.000336	U	0.00100	0.000336	mg/Kg			06/23/22 14:16	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/Kg			06/23/22 14:16	1
Isopropylbenzene	<0.000174	U	0.00500	0.000174	mg/Kg			06/23/22 14:16	1
m,p-Xylenes	<0.000800	U	0.00200	0.000800	mg/Kg			06/23/22 14:16	1
Methylene Chloride	<0.00422	U	0.0200	0.00422	mg/Kg			06/23/22 14:16	1
MTBE	<0.000409	U	0.00500	0.000409	mg/Kg			06/23/22 14:16	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/Kg			06/23/22 14:16	1
n-Butylbenzene	<0.000274	U	0.00500	0.000274	mg/Kg			06/23/22 14:16	1
N-Propylbenzene	<0.000286	U	0.00500	0.000286	mg/Kg			06/23/22 14:16	1
o-Xylene	<0.000985	U	0.00100	0.000985	mg/Kg			06/23/22 14:16	1
p-Cymene (p-Isopropyltoluene)	<0.000319	U	0.00500	0.000319	mg/Kg			06/23/22 14:16	1
sec-Butylbenzene	<0.000261	U	0.00500	0.000261	mg/Kg			06/23/22 14:16	1
Styrene	<0.000205	U	0.00500	0.000205	mg/Kg			06/23/22 14:16	1

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-58175/8**

**Matrix: Solid**

**Analysis Batch: 58175**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
tert-Butylbenzene	<0.00128	U	0.00500	0.00128	mg/Kg			06/23/22 14:16	1
Tetrachloroethene	<0.000370	U	0.00500	0.000370	mg/Kg			06/23/22 14:16	1
Toluene	<0.00100	U	0.00500	0.00100	mg/Kg			06/23/22 14:16	1
trans-1,2-Dichloroethene	<0.000434	U	0.00500	0.000434	mg/Kg			06/23/22 14:16	1
trans-1,3-Dichloropropene	<0.000909	U	0.00500	0.000909	mg/Kg			06/23/22 14:16	1
Trichloroethene	<0.000494	U	0.00500	0.000494	mg/Kg			06/23/22 14:16	1
Trichlorofluoromethane	<0.000307	U	0.00500	0.000307	mg/Kg			06/23/22 14:16	1
Vinyl chloride	<0.000441	U	0.00500	0.000441	mg/Kg			06/23/22 14:16	1
Xylenes, Total	<0.000985	U	0.00200	0.000985	mg/Kg			06/23/22 14:16	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	95		56 - 150		06/23/22 14:16	1
4-Bromofluorobenzene (Surr)	107		68 - 152		06/23/22 14:16	1
Dibromofluoromethane (Surr)	106		53 - 142		06/23/22 14:16	1
Toluene-d8 (Surr)	99		70 - 130		06/23/22 14:16	1

**Lab Sample ID: LCS 860-58175/3**

**Matrix: Solid**

**Analysis Batch: 58175**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	0.0500	0.05385		mg/Kg		108	81 - 130
1,1,1-Trichloroethane	0.0500	0.06107		mg/Kg		122	71 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.06290		mg/Kg		126	75 - 133
1,1,2-Trichloroethane	0.0500	0.05807		mg/Kg		116	75 - 131
1,1-Dichloroethane	0.0500	0.05680		mg/Kg		114	73 - 130
1,1-Dichloroethene	0.0500	0.04960		mg/Kg		99	68 - 130
1,1-Dichloropropene	0.0500	0.05518		mg/Kg		110	72 - 130
1,2,3-Trichlorobenzene	0.0500	0.04936		mg/Kg		99	75 - 131
1,2,3-Trichloropropane	0.0500	0.06247		mg/Kg		125	75 - 131
1,2,4-Trichlorobenzene	0.0500	0.04914		mg/Kg		98	79 - 130
1,2,4-Trimethylbenzene	0.0500	0.05813		mg/Kg		116	60 - 159
1,2-Dibromo-3-Chloropropane	0.0500	0.04970		mg/Kg		99	58 - 133
1,2-Dibromoethane	0.0500	0.05315		mg/Kg		106	73 - 130
1,2-Dichlorobenzene	0.0500	0.05269		mg/Kg		105	84 - 130
1,2-Dichloroethane	0.0500	0.06035		mg/Kg		121	70 - 130
1,2-Dichloropropane	0.0500	0.05629		mg/Kg		113	75 - 130
1,3,5-Trimethylbenzene	0.0500	0.05687		mg/Kg		114	61 - 160
1,3-Dichlorobenzene	0.0500	0.05151		mg/Kg		103	84 - 130
1,3-Dichloropropane	0.0500	0.05450		mg/Kg		109	82 - 131
1,4-Dichlorobenzene	0.0500	0.05152		mg/Kg		103	82 - 130
2,2-Dichloropropane	0.0500	0.06303		mg/Kg		126	67 - 137
2-Butanone	0.250	0.3565	*+	mg/Kg		143	75 - 130
4-Chlorotoluene	0.0500	0.05847		mg/Kg		117	83 - 130
Benzene	0.0500	0.05168		mg/Kg		103	66 - 142
Bromobenzene	0.0500	0.04949		mg/Kg		99	75 - 130
Bromochloromethane	0.0500	0.05798		mg/Kg		116	71 - 130
Bromodichloromethane	0.0500	0.05864		mg/Kg		117	78 - 130

# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-58175/3

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 58175

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromoform	0.0500	0.05154		mg/Kg		103	63 - 136
Bromomethane	0.0500	0.06860		mg/Kg		137	60 - 140
Carbon tetrachloride	0.0500	0.05569		mg/Kg		111	63 - 135
Chlorobenzene	0.0500	0.05010		mg/Kg		100	83 - 130
Chloroethane	0.0500	0.06866	*+	mg/Kg		137	57 - 130
Chloroform	0.0500	0.06467		mg/Kg		129	74 - 130
Chloromethane	0.0500	0.04463		mg/Kg		89	58 - 130
cis-1,2-Dichloroethene	0.0500	0.06026		mg/Kg		121	72 - 131
cis-1,3-Dichloropropene	0.0500	0.05682		mg/Kg		114	74 - 135
Dibromochloromethane	0.0500	0.05375		mg/Kg		107	77 - 130
Dichlorodifluoromethane	0.0500	0.03681		mg/Kg		74	54 - 130
Ethylbenzene	0.0500	0.05240		mg/Kg		105	80 - 130
Hexachlorobutadiene	0.0500	0.04214		mg/Kg		84	77 - 130
Isopropylbenzene	0.0500	0.05309		mg/Kg		106	55 - 155
m,p-Xylenes	0.0500	0.04992		mg/Kg		100	78 - 130
Methylene Chloride	0.0500	0.05399		mg/Kg		108	57 - 134
MTBE	0.0500	0.06673		mg/Kg		133	64 - 148
Naphthalene	0.0500	0.05824		mg/Kg		116	53 - 150
n-Butylbenzene	0.0500	0.06148		mg/Kg		123	82 - 130
N-Propylbenzene	0.0500	0.05701		mg/Kg		114	84 - 131
o-Xylene	0.0500	0.05203		mg/Kg		104	79 - 130
p-Cymene (p-Isopropyltoluene)	0.0500	0.05742		mg/Kg		115	84 - 130
sec-Butylbenzene	0.0500	0.05783		mg/Kg		116	84 - 131
Styrene	0.0500	0.05296		mg/Kg		106	80 - 130
tert-Butylbenzene	0.0500	0.05620		mg/Kg		112	83 - 132
Tetrachloroethene	0.0500	0.04116		mg/Kg		82	79 - 130
Toluene	0.0500	0.04887		mg/Kg		98	74 - 130
trans-1,2-Dichloroethene	0.0500	0.05107		mg/Kg		102	63 - 130
trans-1,3-Dichloropropene	0.0500	0.05473		mg/Kg		109	73 - 130
Trichloroethene	0.0500	0.04611		mg/Kg		92	78 - 130
Trichlorofluoromethane	0.0500	0.06034		mg/Kg		121	71 - 148
Vinyl chloride	0.0500	0.05179		mg/Kg		104	60 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	109		56 - 150
4-Bromofluorobenzene (Surr)	112		68 - 152
Dibromofluoromethane (Surr)	112		53 - 142
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCSD 860-58175/4

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 58175

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
1,1,1,2-Tetrachloroethane	0.0500	0.05460		mg/Kg		109	81 - 130	1	25
1,1,1-Trichloroethane	0.0500	0.06187		mg/Kg		124	71 - 130	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.05388		mg/Kg		108	75 - 133	15	25
1,1,2-Trichloroethane	0.0500	0.05064		mg/Kg		101	75 - 131	14	25

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-58175/4

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 58175

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD
									Limit
1,1-Dichloroethane	0.0500	0.05715		mg/Kg		114	73 - 130	1	25
1,1-Dichloroethene	0.0500	0.04997		mg/Kg		100	68 - 130	1	25
1,1-Dichloropropene	0.0500	0.05585		mg/Kg		112	72 - 130	1	25
1,2,3-Trichlorobenzene	0.0500	0.04650		mg/Kg		93	75 - 131	6	25
1,2,3-Trichloropropane	0.0500	0.05271		mg/Kg		105	75 - 131	17	25
1,2,4-Trichlorobenzene	0.0500	0.04570		mg/Kg		91	79 - 130	7	25
1,2,4-Trimethylbenzene	0.0500	0.05942		mg/Kg		119	60 - 159	2	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04029		mg/Kg		81	58 - 133	21	25
1,2-Dibromoethane	0.0500	0.04662		mg/Kg		93	73 - 130	13	25
1,2-Dichlorobenzene	0.0500	0.04987		mg/Kg		100	84 - 130	5	25
1,2-Dichloroethane	0.0500	0.05407		mg/Kg		108	70 - 130	11	25
1,2-Dichloropropane	0.0500	0.05559		mg/Kg		111	75 - 130	1	25
1,3,5-Trimethylbenzene	0.0500	0.05880		mg/Kg		118	61 - 160	3	25
1,3-Dichlorobenzene	0.0500	0.05104		mg/Kg		102	84 - 130	1	25
1,3-Dichloropropane	0.0500	0.04960		mg/Kg		99	82 - 131	9	25
1,4-Dichlorobenzene	0.0500	0.05088		mg/Kg		102	82 - 130	1	25
2,2-Dichloropropane	0.0500	0.06547		mg/Kg		131	67 - 137	4	25
2-Butanone	0.250	0.2729	*1	mg/Kg		109	75 - 130	27	25
4-Chlorotoluene	0.0500	0.05995		mg/Kg		120	83 - 130	2	25
Benzene	0.0500	0.05158		mg/Kg		103	66 - 142	0	25
Bromobenzene	0.0500	0.04881		mg/Kg		98	75 - 130	1	25
Bromochloromethane	0.0500	0.05187		mg/Kg		104	71 - 130	11	25
Bromodichloromethane	0.0500	0.05679		mg/Kg		114	78 - 130	3	25
Bromoform	0.0500	0.04481		mg/Kg		90	63 - 136	14	25
Bromomethane	0.0500	0.06483		mg/Kg		130	60 - 140	6	25
Carbon tetrachloride	0.0500	0.05622		mg/Kg		112	63 - 135	1	25
Chlorobenzene	0.0500	0.05016		mg/Kg		100	83 - 130	0	25
Chloroethane	0.0500	0.06691	*+	mg/Kg		134	57 - 130	3	25
Chloroform	0.0500	0.06405		mg/Kg		128	74 - 130	1	25
Chloromethane	0.0500	0.04983		mg/Kg		100	58 - 130	11	25
cis-1,2-Dichloroethene	0.0500	0.06069		mg/Kg		121	72 - 131	1	25
cis-1,3-Dichloropropene	0.0500	0.05348		mg/Kg		107	74 - 135	6	25
Dibromochloromethane	0.0500	0.05002		mg/Kg		100	77 - 130	7	25
Dichlorodifluoromethane	0.0500	0.04338		mg/Kg		87	54 - 130	16	25
Ethylbenzene	0.0500	0.05331		mg/Kg		107	80 - 130	2	25
Hexachlorobutadiene	0.0500	0.04333		mg/Kg		87	77 - 130	3	25
Isopropylbenzene	0.0500	0.05363		mg/Kg		107	55 - 155	1	25
m,p-Xylenes	0.0500	0.05124		mg/Kg		102	78 - 130	3	25
Methylene Chloride	0.0500	0.05128		mg/Kg		103	57 - 134	5	25
MTBE	0.0500	0.05888		mg/Kg		118	64 - 148	13	25
Naphthalene	0.0500	0.04956		mg/Kg		99	53 - 150	16	25
n-Butylbenzene	0.0500	0.06349		mg/Kg		127	82 - 130	3	25
N-Propylbenzene	0.0500	0.05973		mg/Kg		119	84 - 131	5	25
o-Xylene	0.0500	0.05315		mg/Kg		106	79 - 130	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05961		mg/Kg		119	84 - 130	4	25
sec-Butylbenzene	0.0500	0.06033		mg/Kg		121	84 - 131	4	25
Styrene	0.0500	0.05212		mg/Kg		104	80 - 130	2	25
tert-Butylbenzene	0.0500	0.05978		mg/Kg		120	83 - 132	6	25
Tetrachloroethene	0.0500	0.04143		mg/Kg		83	79 - 130	1	25

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-58175/4**  
**Matrix: Solid**  
**Analysis Batch: 58175**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.0500	0.05006		mg/Kg		100	74 - 130	2	25
trans-1,2-Dichloroethene	0.0500	0.05104		mg/Kg		102	63 - 130	0	25
trans-1,3-Dichloropropene	0.0500	0.05181		mg/Kg		104	73 - 130	5	25
Trichloroethene	0.0500	0.04715		mg/Kg		94	78 - 130	2	25
Trichlorofluoromethane	0.0500	0.06450		mg/Kg		129	71 - 148	7	25
Vinyl chloride	0.0500	0.05456		mg/Kg		109	60 - 130	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	104		56 - 150
4-Bromofluorobenzene (Surr)	111		68 - 152
Dibromofluoromethane (Surr)	109		53 - 142
Toluene-d8 (Surr)	101		70 - 130

## Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

**Lab Sample ID: MB 860-57677/1-A**  
**Matrix: Solid**  
**Analysis Batch: 57650**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 57677**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/20/22 13:35	06/20/22 14:31	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/20/22 13:35	06/20/22 14:31	1
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/20/22 13:35	06/20/22 14:31	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130	06/20/22 13:35	06/20/22 14:31	1
o-Terphenyl (Surr)	99		70 - 130	06/20/22 13:35	06/20/22 14:31	1

**Lab Sample ID: LCS 860-57677/2-A**  
**Matrix: Solid**  
**Analysis Batch: 57650**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 57677**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C6-C12	999	874.8		mg/Kg		88	75 - 125
>C12-C28	998	1091		mg/Kg		109	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
1-Chlorooctane (Surr)	88		70 - 130
o-Terphenyl (Surr)	105		70 - 130

**Lab Sample ID: LCSD 860-57677/3-A**  
**Matrix: Solid**  
**Analysis Batch: 57650**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 57677**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C6-C12	999	920.3		mg/Kg		92	75 - 125	5	20
>C12-C28	998	1154		mg/Kg		116	75 - 125	6	20

# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) (Continued)

**Lab Sample ID: LCSD 860-57677/3-A**  
**Matrix: Solid**  
**Analysis Batch: 57650**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 57677**

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane (Surr)	92		70 - 130
o-Terphenyl (Surr)	110		70 - 130

**Lab Sample ID: MB 860-57901/1-A**  
**Matrix: Solid**  
**Analysis Batch: 57836**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 57901**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/21/22 16:10	06/21/22 20:21	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/21/22 16:10	06/21/22 20:21	1
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/21/22 16:10	06/21/22 20:21	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane (Surr)	91		70 - 130	06/21/22 16:10	06/21/22 20:21	1
o-Terphenyl (Surr)	102		70 - 130	06/21/22 16:10	06/21/22 20:21	1

**Lab Sample ID: LCS 860-57901/2-A**  
**Matrix: Solid**  
**Analysis Batch: 57836**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 57901**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
C6-C12	999	890.9		mg/Kg		89	75 - 125
>C12-C28	998	1156		mg/Kg		116	75 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane (Surr)	102		70 - 130
o-Terphenyl (Surr)	98		70 - 130

**Lab Sample ID: LCSD 860-57901/3-A**  
**Matrix: Solid**  
**Analysis Batch: 57836**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 57901**

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
C6-C12	999	902.1		mg/Kg		90	75 - 125	1	20
>C12-C28	998	1031		mg/Kg		103	75 - 125	11	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane (Surr)	108		70 - 130
o-Terphenyl (Surr)	97		70 - 130

## Method: 6020A - Metals (ICP/MS)

**Lab Sample ID: MB 860-58594/1-A**  
**Matrix: Solid**  
**Analysis Batch: 59108**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 58594**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.0593	U	0.385	0.0593	mg/Kg		06/26/22 15:13	06/28/22 20:45	1

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 6020A - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 860-58594/1-A**  
**Matrix: Solid**  
**Analysis Batch: 59108**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 58594**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	0.08144	J	0.385	0.0334	mg/Kg		06/26/22 15:13	06/28/22 20:45	1
Cadmium	<0.0112	U	0.192	0.0112	mg/Kg		06/26/22 15:13	06/28/22 20:45	1
Chromium	<0.0261	U	0.385	0.0261	mg/Kg		06/26/22 15:13	06/28/22 20:45	1
Lead	<0.0186	U	0.192	0.0186	mg/Kg		06/26/22 15:13	06/28/22 20:45	1
Selenium	<0.0477	U	0.192	0.0477	mg/Kg		06/26/22 15:13	06/28/22 20:45	1
Silver	<0.0153	U	0.192	0.0153	mg/Kg		06/26/22 15:13	06/28/22 20:45	1

**Lab Sample ID: LCS 860-58594/2-A**  
**Matrix: Solid**  
**Analysis Batch: 59108**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 58594**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	9.62	9.046		mg/Kg		94	80 - 120
Cadmium	9.62	9.273		mg/Kg		96	80 - 120
Chromium	9.62	9.254		mg/Kg		96	80 - 120
Lead	9.62	8.858		mg/Kg		92	80 - 120
Selenium	9.62	9.175		mg/Kg		95	80 - 120
Silver	4.81	4.590		mg/Kg		95	80 - 120

**Lab Sample ID: LCSD 860-58594/3-A**  
**Matrix: Solid**  
**Analysis Batch: 59108**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 58594**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Arsenic	9.80	9.454		mg/Kg		96	80 - 120	2	20
Barium	9.80	9.258		mg/Kg		94	80 - 120	2	20
Cadmium	9.80	9.480		mg/Kg		97	80 - 120	2	20
Chromium	9.80	9.356		mg/Kg		95	80 - 120	1	20
Lead	9.80	9.062		mg/Kg		92	80 - 120	2	20
Selenium	9.80	9.351		mg/Kg		95	80 - 120	2	20
Silver	4.90	4.653		mg/Kg		95	80 - 120	1	20

**Lab Sample ID: 830-2005-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 59108**

**Client Sample ID: B-11**  
**Prep Type: Total/NA**  
**Prep Batch: 58594**

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Arsenic	8.51		9.26	15.62		mg/Kg		77	75 - 125
Barium	110	B	9.26	122.2	4	mg/Kg		131	75 - 125
Cadmium	0.349	J	9.26	9.056		mg/Kg		94	75 - 125
Chromium	8.69		9.26	19.31		mg/Kg		115	75 - 125
Lead	229		9.26	251.8	4	mg/Kg		244	75 - 125
Selenium	0.493	J	9.26	8.785		mg/Kg		90	75 - 125
Silver	0.325	J	4.63	4.729		mg/Kg		95	75 - 125

# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 6020A - Metals (ICP/MS) (Continued)

**Lab Sample ID: 830-2005-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 59108**

**Client Sample ID: B-11**  
**Prep Type: Total/NA**  
**Prep Batch: 58594**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Arsenic	8.51		8.93	16.61		mg/Kg		91	75 - 125	6	20
Barium	110	B	8.93	149.8	4	mg/Kg		445	75 - 125	20	20
Cadmium	0.349	J	8.93	8.662		mg/Kg		93	75 - 125	4	20
Chromium	8.69		8.93	18.03		mg/Kg		105	75 - 125	7	20
Lead	229		8.93	225.4	4	mg/Kg		-43	75 - 125	11	20
Selenium	0.493	J	8.93	8.512		mg/Kg		90	75 - 125	3	20
Silver	0.325	J	4.46	4.646		mg/Kg		97	75 - 125	2	20

**Lab Sample ID: MB 860-58596/1-A**  
**Matrix: Solid**  
**Analysis Batch: 58973**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 58596**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Arsenic	<0.0593	U	0.385	0.0593	mg/Kg		06/26/22 15:21	06/28/22 15:17		1
Barium	0.05471	J	0.385	0.0334	mg/Kg		06/26/22 15:21	06/28/22 15:17		1
Cadmium	<0.0112	U	0.192	0.0112	mg/Kg		06/26/22 15:21	06/28/22 15:17		1
Chromium	<0.0261	U	0.385	0.0261	mg/Kg		06/26/22 15:21	06/28/22 15:17		1
Lead	<0.0186	U	0.192	0.0186	mg/Kg		06/26/22 15:21	06/28/22 15:17		1
Selenium	<0.0477	U	0.192	0.0477	mg/Kg		06/26/22 15:21	06/28/22 15:17		1
Silver	<0.0153	U	0.192	0.0153	mg/Kg		06/26/22 15:21	06/28/22 15:17		1

**Lab Sample ID: LCS 860-58596/2-A**  
**Matrix: Solid**  
**Analysis Batch: 58973**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 58596**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
							Added
Arsenic	9.62	10.08		mg/Kg		105	80 - 120
Barium	9.62	9.618		mg/Kg		100	80 - 120
Cadmium	9.62	10.27		mg/Kg		107	80 - 120
Chromium	9.62	10.16		mg/Kg		106	80 - 120
Lead	9.62	10.08		mg/Kg		105	80 - 120
Selenium	9.62	9.979		mg/Kg		104	80 - 120
Silver	4.81	4.728		mg/Kg		98	80 - 120

**Lab Sample ID: LCSD 860-58596/3-A**  
**Matrix: Solid**  
**Analysis Batch: 58973**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 58596**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
							Added		
Arsenic	9.80	10.29		mg/Kg		105	80 - 120	2	20
Barium	9.80	9.945		mg/Kg		101	80 - 120	3	20
Cadmium	9.80	10.66		mg/Kg		109	80 - 120	4	20
Chromium	9.80	10.41		mg/Kg		106	80 - 120	2	20
Lead	9.80	10.28		mg/Kg		105	80 - 120	2	20
Selenium	9.80	10.24		mg/Kg		104	80 - 120	3	20
Silver	4.90	4.913		mg/Kg		100	80 - 120	4	20

# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 860-58144/10-A**  
**Matrix: Solid**  
**Analysis Batch: 58280**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 58144**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00370	U	0.0192	0.00370	mg/Kg		06/23/22 08:18	06/23/22 14:28	1

**Lab Sample ID: LCS 860-58144/11-A**  
**Matrix: Solid**  
**Analysis Batch: 58280**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 58144**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.189	0.2042		mg/Kg		108	80 - 120

**Lab Sample ID: LCSD 860-58144/12-A**  
**Matrix: Solid**  
**Analysis Batch: 58280**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 58144**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.189	0.2032		mg/Kg		108	80 - 120	1	20

**Lab Sample ID: 830-2005-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 58280**

**Client Sample ID: B-11**  
**Prep Type: Total/NA**  
**Prep Batch: 58144**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0958	F1	0.185	0.2954		mg/Kg		108	75 - 125

**Lab Sample ID: 830-2005-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 58280**

**Client Sample ID: B-11**  
**Prep Type: Total/NA**  
**Prep Batch: 58144**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.0958	F1	0.182	0.3462	F1	mg/Kg		138	75 - 125	16	20

**Lab Sample ID: 830-2005-11 MS**  
**Matrix: Solid**  
**Analysis Batch: 58280**

**Client Sample ID: B-15**  
**Prep Type: Total/NA**  
**Prep Batch: 58144**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00349	U	0.196	0.2040		mg/Kg		104	75 - 125

**Lab Sample ID: 830-2005-11 MSD**  
**Matrix: Solid**  
**Analysis Batch: 58280**

**Client Sample ID: B-15**  
**Prep Type: Total/NA**  
**Prep Batch: 58144**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00349	U	0.192	0.1971		mg/Kg		103	75 - 125	3	20

**Lab Sample ID: MB 860-58146/10-A**  
**Matrix: Solid**  
**Analysis Batch: 58280**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 58146**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00370	U	0.0192	0.00370	mg/Kg		06/23/22 08:21	06/23/22 15:25	1

# QC Sample Results

Client: ESSCO Environmental, Inc.  
 Project/Site: B&C-22-01

Job ID: 830-2005-1  
 SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: LCS 860-58146/11-A**  
**Matrix: Solid**  
**Analysis Batch: 58280**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 58146**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.189	0.1980		mg/Kg		105	80 - 120

**Lab Sample ID: LCSD 860-58146/12-A**  
**Matrix: Solid**  
**Analysis Batch: 58280**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 58146**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.189	0.2008		mg/Kg		106	80 - 120	1	20



# QC Association Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## GC/MS VOA

### Prep Batch: 57702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-1	B-11	Total/NA	Solid	5035	
830-2005-2	B-12	Total/NA	Solid	5035	
830-2005-4	B-13	Total/NA	Solid	5035	
830-2005-5	B-13	Total/NA	Solid	5035	
830-2005-6	B-13	Total/NA	Solid	5035	
830-2005-7	B-14	Total/NA	Solid	5035	
830-2005-8	B-14	Total/NA	Solid	5035	
830-2005-9	B-14	Total/NA	Solid	5035	
830-2005-10	B-15	Total/NA	Solid	5035	
830-2005-12	B-15	Total/NA	Solid	5035	
830-2005-13	B-16	Total/NA	Solid	5035	
830-2005-14	B-16	Total/NA	Solid	5035	
830-2005-15	B-16	Total/NA	Solid	5035	
830-2005-16	B-17	Total/NA	Solid	5035	
830-2005-17	B-17	Total/NA	Solid	5035	
830-2005-18	B-17	Total/NA	Solid	5035	
830-2005-19	B-18	Total/NA	Solid	5035	
830-2005-20	B-18	Total/NA	Solid	5035	
830-2005-21	B-18	Total/NA	Solid	5035	

### Analysis Batch: 57784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-1	B-11	Total/NA	Solid	8260C	57702
830-2005-2	B-12	Total/NA	Solid	8260C	57702
830-2005-4	B-13	Total/NA	Solid	8260C	57702
830-2005-6	B-13	Total/NA	Solid	8260C	57702
830-2005-7	B-14	Total/NA	Solid	8260C	57702
830-2005-9	B-14	Total/NA	Solid	8260C	57702
830-2005-10	B-15	Total/NA	Solid	8260C	57702
830-2005-12	B-15	Total/NA	Solid	8260C	57702
830-2005-13	B-16	Total/NA	Solid	8260C	57702
830-2005-15	B-16	Total/NA	Solid	8260C	57702
830-2005-16	B-17	Total/NA	Solid	8260C	57702
830-2005-18	B-17	Total/NA	Solid	8260C	57702
830-2005-19	B-18	Total/NA	Solid	8260C	57702
830-2005-21	B-18	Total/NA	Solid	8260C	57702
MB 860-57784/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-57784/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-57784/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

### Analysis Batch: 57798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-5	B-13	Total/NA	Solid	8260C	57702
MB 860-57798/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-57798/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-57798/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

### Analysis Batch: 57878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-3	B-12	Total/NA	Solid	8260C	57994
830-2005-8	B-14	Total/NA	Solid	8260C	57702

# QC Association Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## GC/MS VOA (Continued)

### Analysis Batch: 57878 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-14	B-16	Total/NA	Solid	8260C	57702
830-2005-17	B-17	Total/NA	Solid	8260C	57702
830-2005-20	B-18	Total/NA	Solid	8260C	57702
MB 860-57878/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-57878/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-57878/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

### Prep Batch: 57994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-3	B-12	Total/NA	Solid	5035	

### Analysis Batch: 58175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-11	B-15	Total/NA	Solid	8260C	58199
MB 860-58175/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-58175/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-58175/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

### Prep Batch: 58199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-11	B-15	Total/NA	Solid	5035	

## GC Semi VOA

### Analysis Batch: 57650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-57677/1-A	Method Blank	Total/NA	Solid	TX 1005	57677
LCS 860-57677/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	57677
LCSD 860-57677/3-A	Lab Control Sample Dup	Total/NA	Solid	TX 1005	57677

### Prep Batch: 57677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-19	B-18	Total/NA	Solid	TX_1005_S_Pre p	
830-2005-20	B-18	Total/NA	Solid	TX_1005_S_Pre p	
830-2005-21	B-18	Total/NA	Solid	TX_1005_S_Pre p	
MB 860-57677/1-A	Method Blank	Total/NA	Solid	TX_1005_S_Pre p	
LCS 860-57677/2-A	Lab Control Sample	Total/NA	Solid	TX_1005_S_Pre p	
LCSD 860-57677/3-A	Lab Control Sample Dup	Total/NA	Solid	TX_1005_S_Pre p	

### Analysis Batch: 57748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-1	B-11	Total/NA	Solid	TX 1005	
830-2005-2	B-12	Total/NA	Solid	TX 1005	
830-2005-3	B-12	Total/NA	Solid	TX 1005	
830-2005-4	B-13	Total/NA	Solid	TX 1005	
830-2005-5	B-13	Total/NA	Solid	TX 1005	
830-2005-6	B-13	Total/NA	Solid	TX 1005	

# QC Association Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## GC Semi VOA (Continued)

### Analysis Batch: 57748 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-7	B-14	Total/NA	Solid	TX 1005	
830-2005-8	B-14	Total/NA	Solid	TX 1005	
830-2005-9	B-14	Total/NA	Solid	TX 1005	
830-2005-10	B-15	Total/NA	Solid	TX 1005	
830-2005-11	B-15	Total/NA	Solid	TX 1005	
830-2005-12	B-15	Total/NA	Solid	TX 1005	
830-2005-13	B-16	Total/NA	Solid	TX 1005	
830-2005-14	B-16	Total/NA	Solid	TX 1005	
830-2005-15	B-16	Total/NA	Solid	TX 1005	
830-2005-16	B-17	Total/NA	Solid	TX 1005	
830-2005-17	B-17	Total/NA	Solid	TX 1005	
830-2005-18	B-17	Total/NA	Solid	TX 1005	
830-2005-19	B-18	Total/NA	Solid	TX 1005	
830-2005-20	B-18	Total/NA	Solid	TX 1005	
830-2005-21	B-18	Total/NA	Solid	TX 1005	

### Analysis Batch: 57828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-2	B-12	Total/NA	Solid	TX 1005	57901

### Analysis Batch: 57830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-19	B-18	Total/NA	Solid	TX 1005	57677
830-2005-20	B-18	Total/NA	Solid	TX 1005	57677
830-2005-21	B-18	Total/NA	Solid	TX 1005	57677

### Analysis Batch: 57836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-1	B-11	Total/NA	Solid	TX 1005	57901
830-2005-3	B-12	Total/NA	Solid	TX 1005	57901
830-2005-4	B-13	Total/NA	Solid	TX 1005	57901
830-2005-5	B-13	Total/NA	Solid	TX 1005	57901
830-2005-6	B-13	Total/NA	Solid	TX 1005	57901
830-2005-7	B-14	Total/NA	Solid	TX 1005	57901
830-2005-8	B-14	Total/NA	Solid	TX 1005	57901
830-2005-9	B-14	Total/NA	Solid	TX 1005	57901
830-2005-10	B-15	Total/NA	Solid	TX 1005	57901
830-2005-11	B-15	Total/NA	Solid	TX 1005	57901
830-2005-12	B-15	Total/NA	Solid	TX 1005	57901
830-2005-13	B-16	Total/NA	Solid	TX 1005	57901
830-2005-14	B-16	Total/NA	Solid	TX 1005	57901
830-2005-15	B-16	Total/NA	Solid	TX 1005	57901
830-2005-16	B-17	Total/NA	Solid	TX 1005	57901
830-2005-17	B-17	Total/NA	Solid	TX 1005	57901
830-2005-18	B-17	Total/NA	Solid	TX 1005	57901
MB 860-57901/1-A	Method Blank	Total/NA	Solid	TX 1005	57901
LCS 860-57901/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	57901
LCSD 860-57901/3-A	Lab Control Sample Dup	Total/NA	Solid	TX 1005	57901

# QC Association Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## GC Semi VOA

### Prep Batch: 57901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-1	B-11	Total/NA	Solid	TX_1005_S_Pre p	
830-2005-2	B-12	Total/NA	Solid	TX_1005_S_Pre p	
830-2005-3	B-12	Total/NA	Solid	TX_1005_S_Pre p	
830-2005-4	B-13	Total/NA	Solid	TX_1005_S_Pre p	
830-2005-5	B-13	Total/NA	Solid	TX_1005_S_Pre p	
830-2005-6	B-13	Total/NA	Solid	TX_1005_S_Pre p	
830-2005-7	B-14	Total/NA	Solid	TX_1005_S_Pre p	
830-2005-8	B-14	Total/NA	Solid	TX_1005_S_Pre p	
830-2005-9	B-14	Total/NA	Solid	TX_1005_S_Pre p	
830-2005-10	B-15	Total/NA	Solid	TX_1005_S_Pre p	
830-2005-11	B-15	Total/NA	Solid	TX_1005_S_Pre p	
830-2005-12	B-15	Total/NA	Solid	TX_1005_S_Pre p	
830-2005-13	B-16	Total/NA	Solid	TX_1005_S_Pre p	
830-2005-14	B-16	Total/NA	Solid	TX_1005_S_Pre p	
830-2005-15	B-16	Total/NA	Solid	TX_1005_S_Pre p	
830-2005-16	B-17	Total/NA	Solid	TX_1005_S_Pre p	
830-2005-17	B-17	Total/NA	Solid	TX_1005_S_Pre p	
830-2005-18	B-17	Total/NA	Solid	TX_1005_S_Pre p	
MB 860-57901/1-A	Method Blank	Total/NA	Solid	TX_1005_S_Pre p	
LCS 860-57901/2-A	Lab Control Sample	Total/NA	Solid	TX_1005_S_Pre p	
LCSD 860-57901/3-A	Lab Control Sample Dup	Total/NA	Solid	TX_1005_S_Pre p	

## Metals

### Prep Batch: 58144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-1	B-11	Total/NA	Solid	7471A	
830-2005-2	B-12	Total/NA	Solid	7471A	
830-2005-3	B-12	Total/NA	Solid	7471A	
830-2005-4	B-13	Total/NA	Solid	7471A	
830-2005-5	B-13	Total/NA	Solid	7471A	
830-2005-6	B-13	Total/NA	Solid	7471A	
830-2005-7	B-14	Total/NA	Solid	7471A	
830-2005-8	B-14	Total/NA	Solid	7471A	
830-2005-9	B-14	Total/NA	Solid	7471A	
830-2005-10	B-15	Total/NA	Solid	7471A	



# QC Association Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Metals (Continued)

### Prep Batch: 58144 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-11	B-15	Total/NA	Solid	7471A	
830-2005-12	B-15	Total/NA	Solid	7471A	
830-2005-13	B-16	Total/NA	Solid	7471A	
830-2005-14	B-16	Total/NA	Solid	7471A	
830-2005-15	B-16	Total/NA	Solid	7471A	
830-2005-16	B-17	Total/NA	Solid	7471A	
830-2005-17	B-17	Total/NA	Solid	7471A	
830-2005-18	B-17	Total/NA	Solid	7471A	
830-2005-19	B-18	Total/NA	Solid	7471A	
830-2005-20	B-18	Total/NA	Solid	7471A	
MB 860-58144/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-58144/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-58144/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
830-2005-1 MS	B-11	Total/NA	Solid	7471A	
830-2005-1 MSD	B-11	Total/NA	Solid	7471A	
830-2005-11 MS	B-15	Total/NA	Solid	7471A	
830-2005-11 MSD	B-15	Total/NA	Solid	7471A	

### Prep Batch: 58146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-21	B-18	Total/NA	Solid	7471A	
MB 860-58146/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-58146/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-58146/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

### Analysis Batch: 58280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-1	B-11	Total/NA	Solid	7471A	58144
830-2005-2	B-12	Total/NA	Solid	7471A	58144
830-2005-3	B-12	Total/NA	Solid	7471A	58144
830-2005-4	B-13	Total/NA	Solid	7471A	58144
830-2005-5	B-13	Total/NA	Solid	7471A	58144
830-2005-6	B-13	Total/NA	Solid	7471A	58144
830-2005-7	B-14	Total/NA	Solid	7471A	58144
830-2005-8	B-14	Total/NA	Solid	7471A	58144
830-2005-9	B-14	Total/NA	Solid	7471A	58144
830-2005-10	B-15	Total/NA	Solid	7471A	58144
830-2005-11	B-15	Total/NA	Solid	7471A	58144
830-2005-12	B-15	Total/NA	Solid	7471A	58144
830-2005-13	B-16	Total/NA	Solid	7471A	58144
830-2005-14	B-16	Total/NA	Solid	7471A	58144
830-2005-15	B-16	Total/NA	Solid	7471A	58144
830-2005-16	B-17	Total/NA	Solid	7471A	58144
830-2005-17	B-17	Total/NA	Solid	7471A	58144
830-2005-18	B-17	Total/NA	Solid	7471A	58144
830-2005-19	B-18	Total/NA	Solid	7471A	58144
830-2005-20	B-18	Total/NA	Solid	7471A	58144
830-2005-21	B-18	Total/NA	Solid	7471A	58146
MB 860-58144/10-A	Method Blank	Total/NA	Solid	7471A	58144
MB 860-58146/10-A	Method Blank	Total/NA	Solid	7471A	58146
LCS 860-58144/11-A	Lab Control Sample	Total/NA	Solid	7471A	58144

# QC Association Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Metals (Continued)

### Analysis Batch: 58280 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-58146/11-A	Lab Control Sample	Total/NA	Solid	7471A	58146
LCSD 860-58144/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	58144
LCSD 860-58146/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	58146
830-2005-1 MS	B-11	Total/NA	Solid	7471A	58144
830-2005-1 MSD	B-11	Total/NA	Solid	7471A	58144
830-2005-11 MS	B-15	Total/NA	Solid	7471A	58144
830-2005-11 MSD	B-15	Total/NA	Solid	7471A	58144

### Prep Batch: 58594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-1	B-11	Total/NA	Solid	3051A	
830-2005-2	B-12	Total/NA	Solid	3051A	
830-2005-3	B-12	Total/NA	Solid	3051A	
830-2005-4	B-13	Total/NA	Solid	3051A	
830-2005-5	B-13	Total/NA	Solid	3051A	
830-2005-6	B-13	Total/NA	Solid	3051A	
830-2005-7	B-14	Total/NA	Solid	3051A	
830-2005-8	B-14	Total/NA	Solid	3051A	
830-2005-9	B-14	Total/NA	Solid	3051A	
830-2005-10	B-15	Total/NA	Solid	3051A	
830-2005-11	B-15	Total/NA	Solid	3051A	
830-2005-12	B-15	Total/NA	Solid	3051A	
830-2005-13	B-16	Total/NA	Solid	3051A	
830-2005-14	B-16	Total/NA	Solid	3051A	
830-2005-15	B-16	Total/NA	Solid	3051A	
830-2005-16	B-17	Total/NA	Solid	3051A	
830-2005-17	B-17	Total/NA	Solid	3051A	
830-2005-18	B-17	Total/NA	Solid	3051A	
830-2005-19	B-18	Total/NA	Solid	3051A	
830-2005-20	B-18	Total/NA	Solid	3051A	
MB 860-58594/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-58594/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-58594/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
830-2005-1 MS	B-11	Total/NA	Solid	3051A	
830-2005-1 MSD	B-11	Total/NA	Solid	3051A	

### Prep Batch: 58596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-21	B-18	Total/NA	Solid	3051A	
MB 860-58596/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-58596/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-58596/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

### Analysis Batch: 58973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-21	B-18	Total/NA	Solid	6020A	58596
MB 860-58596/1-A	Method Blank	Total/NA	Solid	6020A	58596
LCS 860-58596/2-A	Lab Control Sample	Total/NA	Solid	6020A	58596
LCSD 860-58596/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	58596

# QC Association Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Metals

### Analysis Batch: 59108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-1	B-11	Total/NA	Solid	6020A	58594
830-2005-2	B-12	Total/NA	Solid	6020A	58594
830-2005-3	B-12	Total/NA	Solid	6020A	58594
830-2005-4	B-13	Total/NA	Solid	6020A	58594
830-2005-5	B-13	Total/NA	Solid	6020A	58594
830-2005-6	B-13	Total/NA	Solid	6020A	58594
830-2005-7	B-14	Total/NA	Solid	6020A	58594
830-2005-8	B-14	Total/NA	Solid	6020A	58594
830-2005-9	B-14	Total/NA	Solid	6020A	58594
830-2005-10	B-15	Total/NA	Solid	6020A	58594
830-2005-11	B-15	Total/NA	Solid	6020A	58594
830-2005-12	B-15	Total/NA	Solid	6020A	58594
830-2005-13	B-16	Total/NA	Solid	6020A	58594
830-2005-14	B-16	Total/NA	Solid	6020A	58594
830-2005-15	B-16	Total/NA	Solid	6020A	58594
830-2005-16	B-17	Total/NA	Solid	6020A	58594
830-2005-17	B-17	Total/NA	Solid	6020A	58594
830-2005-18	B-17	Total/NA	Solid	6020A	58594
830-2005-19	B-18	Total/NA	Solid	6020A	58594
830-2005-20	B-18	Total/NA	Solid	6020A	58594
MB 860-58594/1-A	Method Blank	Total/NA	Solid	6020A	58594
LCS 860-58594/2-A	Lab Control Sample	Total/NA	Solid	6020A	58594
LCS 860-58594/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	58594
830-2005-1 MS	B-11	Total/NA	Solid	6020A	58594
830-2005-1 MSD	B-11	Total/NA	Solid	6020A	58594

### Analysis Batch: 59293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-13	B-16	Total/NA	Solid	6020A	58594

## General Chemistry

### Analysis Batch: 57977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-15	B-16	Total/NA	Solid	Moisture	
830-2005-16	B-17	Total/NA	Solid	Moisture	
830-2005-17	B-17	Total/NA	Solid	Moisture	
MB 860-57977/1	Method Blank	Total/NA	Solid	Moisture	

### Analysis Batch: 58003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-1	B-11	Total/NA	Solid	Moisture	
830-2005-2	B-12	Total/NA	Solid	Moisture	
830-2005-3	B-12	Total/NA	Solid	Moisture	
830-2005-4	B-13	Total/NA	Solid	Moisture	
830-2005-5	B-13	Total/NA	Solid	Moisture	
830-2005-6	B-13	Total/NA	Solid	Moisture	
830-2005-7	B-14	Total/NA	Solid	Moisture	
830-2005-8	B-14	Total/NA	Solid	Moisture	
830-2005-9	B-14	Total/NA	Solid	Moisture	
830-2005-10	B-15	Total/NA	Solid	Moisture	

# QC Association Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## General Chemistry (Continued)

### Analysis Batch: 58003 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-11	B-15	Total/NA	Solid	Moisture	
830-2005-12	B-15	Total/NA	Solid	Moisture	
830-2005-13	B-16	Total/NA	Solid	Moisture	
830-2005-14	B-16	Total/NA	Solid	Moisture	
MB 860-58003/1	Method Blank	Total/NA	Solid	Moisture	
830-2005-1 DU	B-11	Total/NA	Solid	Moisture	

### Analysis Batch: 58053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2005-18	B-17	Total/NA	Solid	Moisture	
830-2005-19	B-18	Total/NA	Solid	Moisture	
830-2005-20	B-18	Total/NA	Solid	Moisture	
830-2005-21	B-18	Total/NA	Solid	Moisture	
MB 860-58053/1	Method Blank	Total/NA	Solid	Moisture	
830-2005-19 DU	B-18	Total/NA	Solid	Moisture	

# Lab Chronicle

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Client Sample ID: B-11

## Lab Sample ID: 830-2005-1

Date Collected: 06/15/22 08:05

Matrix: Solid

Date Received: 06/16/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57784	06/21/22 15:27	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			9.98 g	10 mL	57901	06/21/22 16:10	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57836	06/22/22 02:52	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Prep	3051A			.55 g	50 mL	58594	06/26/22 15:13	PB	XEN STF
Total/NA	Analysis	6020A		10			59108	06/28/22 20:55	SHZ	XEN STF
Total/NA	Prep	7471A			.54 g	50 mL	58144	06/23/22 08:18	AGR	XEN STF
Total/NA	Analysis	7471A		1			58280	06/23/22 14:32	SHZ	XEN STF
Total/NA	Analysis	Moisture		1			58003	06/22/22 09:42	JM	XEN STF

## Client Sample ID: B-12

## Lab Sample ID: 830-2005-2

Date Collected: 06/15/22 09:35

Matrix: Solid

Date Received: 06/16/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57784	06/21/22 15:47	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			9.99 g	10 mL	57901	06/21/22 16:10	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57828	06/22/22 03:18	DD	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Prep	3051A			.5 g	50 mL	58594	06/26/22 15:13	PB	XEN STF
Total/NA	Analysis	6020A		10			59108	06/28/22 21:17	SHZ	XEN STF
Total/NA	Prep	7471A			.55 g	50 mL	58144	06/23/22 08:18	AGR	XEN STF
Total/NA	Analysis	7471A		1			58280	06/23/22 14:42	SHZ	XEN STF
Total/NA	Analysis	Moisture		1			58003	06/22/22 09:42	JM	XEN STF

## Client Sample ID: B-12

## Lab Sample ID: 830-2005-3

Date Collected: 06/15/22 09:45

Matrix: Solid

Date Received: 06/16/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57994	06/22/22 10:44	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57878	06/22/22 17:15	KLV	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.02 g	10 mL	57901	06/21/22 16:10	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57836	06/22/22 02:33	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Prep	3051A			.55 g	50 mL	58594	06/26/22 15:13	PB	XEN STF
Total/NA	Analysis	6020A		10			59108	06/28/22 21:21	SHZ	XEN STF
Total/NA	Prep	7471A			.52 g	50 mL	58144	06/23/22 08:18	AGR	XEN STF
Total/NA	Analysis	7471A		1			58280	06/23/22 14:43	SHZ	XEN STF
Total/NA	Analysis	Moisture		1			58003	06/22/22 09:42	JM	XEN STF

# Lab Chronicle

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-13**

**Lab Sample ID: 830-2005-4**

Date Collected: 06/15/22 10:20

Matrix: Solid

Date Received: 06/16/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57784	06/21/22 16:07	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			9.99 g	10 mL	57901	06/21/22 16:10	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57836	06/21/22 21:20	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Prep	3051A			.56 g	50 mL	58594	06/26/22 15:13	PB	XEN STF
Total/NA	Analysis	6020A		10			59108	06/28/22 21:24	SHZ	XEN STF
Total/NA	Prep	7471A			.5 g	50 mL	58144	06/23/22 08:18	AGR	XEN STF
Total/NA	Analysis	7471A		1			58280	06/23/22 14:45	SHZ	XEN STF
Total/NA	Analysis	Moisture		1			58003	06/22/22 09:42	JM	XEN STF

**Client Sample ID: B-13**

**Lab Sample ID: 830-2005-5**

Date Collected: 06/15/22 10:30

Matrix: Solid

Date Received: 06/16/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57798	06/21/22 23:41	KLV	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.02 g	10 mL	57901	06/21/22 16:10	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57836	06/21/22 21:40	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Prep	3051A			.54 g	50 mL	58594	06/26/22 15:13	PB	XEN STF
Total/NA	Analysis	6020A		10			59108	06/28/22 21:27	SHZ	XEN STF
Total/NA	Prep	7471A			.55 g	50 mL	58144	06/23/22 08:18	AGR	XEN STF
Total/NA	Analysis	7471A		1			58280	06/23/22 14:46	SHZ	XEN STF
Total/NA	Analysis	Moisture		1			58003	06/22/22 09:42	JM	XEN STF

**Client Sample ID: B-13**

**Lab Sample ID: 830-2005-6**

Date Collected: 06/15/22 10:35

Matrix: Solid

Date Received: 06/16/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57784	06/21/22 16:28	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.01 g	10 mL	57901	06/21/22 16:10	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57836	06/21/22 22:00	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Prep	3051A			.53 g	50 mL	58594	06/26/22 15:13	PB	XEN STF
Total/NA	Analysis	6020A		10			59108	06/28/22 21:30	SHZ	XEN STF
Total/NA	Prep	7471A			.55 g	50 mL	58144	06/23/22 08:18	AGR	XEN STF
Total/NA	Analysis	7471A		1			58280	06/23/22 14:48	SHZ	XEN STF
Total/NA	Analysis	Moisture		1			58003	06/22/22 09:42	JM	XEN STF

# Lab Chronicle

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-14**

**Lab Sample ID: 830-2005-7**

Date Collected: 06/15/22 11:00

Matrix: Solid

Date Received: 06/16/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57784	06/21/22 16:48	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.05 g	10 mL	57901	06/21/22 16:10	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57836	06/21/22 22:19	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Prep	3051A			.56 g	50 mL	58594	06/26/22 15:13	PB	XEN STF
Total/NA	Analysis	6020A		10			59108	06/28/22 21:33	SHZ	XEN STF
Total/NA	Prep	7471A			.59 g	50 mL	58144	06/23/22 08:18	AGR	XEN STF
Total/NA	Analysis	7471A		1			58280	06/23/22 14:49	SHZ	XEN STF
Total/NA	Analysis	Moisture		1			58003	06/22/22 09:42	JM	XEN STF

**Client Sample ID: B-14**

**Lab Sample ID: 830-2005-8**

Date Collected: 06/15/22 11:05

Matrix: Solid

Date Received: 06/16/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57878	06/22/22 17:38	KLV	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.05 g	10 mL	57901	06/21/22 16:10	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57836	06/21/22 22:39	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Prep	3051A			.54 g	50 mL	58594	06/26/22 15:13	PB	XEN STF
Total/NA	Analysis	6020A		10			59108	06/28/22 21:37	SHZ	XEN STF
Total/NA	Prep	7471A			.6 g	50 mL	58144	06/23/22 08:18	AGR	XEN STF
Total/NA	Analysis	7471A		1			58280	06/23/22 14:50	SHZ	XEN STF
Total/NA	Analysis	Moisture		1			58003	06/22/22 09:42	JM	XEN STF

**Client Sample ID: B-14**

**Lab Sample ID: 830-2005-9**

Date Collected: 06/15/22 11:15

Matrix: Solid

Date Received: 06/16/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57784	06/21/22 17:09	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10 g	10 mL	57901	06/21/22 16:10	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57836	06/21/22 23:18	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Prep	3051A			.59 g	50 mL	58594	06/26/22 15:13	PB	XEN STF
Total/NA	Analysis	6020A		10			59108	06/28/22 21:40	SHZ	XEN STF
Total/NA	Prep	7471A			.53 g	50 mL	58144	06/23/22 08:18	AGR	XEN STF
Total/NA	Analysis	7471A		1			58280	06/23/22 14:52	SHZ	XEN STF
Total/NA	Analysis	Moisture		1			58003	06/22/22 09:42	JM	XEN STF

# Lab Chronicle

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-15**

**Lab Sample ID: 830-2005-10**

Date Collected: 06/15/22 13:25

Matrix: Solid

Date Received: 06/16/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57784	06/21/22 17:29	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10 g	10 mL	57901	06/21/22 16:10	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57836	06/21/22 23:38	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Prep	3051A			.54 g	50 mL	58594	06/26/22 15:13	PB	XEN STF
Total/NA	Analysis	6020A		10			59108	06/28/22 21:43	SHZ	XEN STF
Total/NA	Prep	7471A			.55 g	50 mL	58144	06/23/22 08:18	AGR	XEN STF
Total/NA	Analysis	7471A		1			58280	06/23/22 14:53	SHZ	XEN STF
Total/NA	Analysis	Moisture		1			58003	06/22/22 09:42	JM	XEN STF

**Client Sample ID: B-15**

**Lab Sample ID: 830-2005-11**

Date Collected: 06/15/22 13:30

Matrix: Solid

Date Received: 06/16/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	58199	06/23/22 11:37	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	58175	06/23/22 15:23	KLV	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10 g	10 mL	57901	06/21/22 16:10	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57836	06/21/22 23:57	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Prep	3051A			.58 g	50 mL	58594	06/26/22 15:13	PB	XEN STF
Total/NA	Analysis	6020A		10			59108	06/28/22 21:46	SHZ	XEN STF
Total/NA	Prep	7471A			.55 g	50 mL	58144	06/23/22 08:18	AGR	XEN STF
Total/NA	Analysis	7471A		1			58280	06/23/22 14:57	SHZ	XEN STF
Total/NA	Analysis	Moisture		1			58003	06/22/22 09:42	JM	XEN STF

**Client Sample ID: B-15**

**Lab Sample ID: 830-2005-12**

Date Collected: 06/15/22 13:35

Matrix: Solid

Date Received: 06/16/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57784	06/21/22 17:50	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.01 g	10 mL	57901	06/21/22 16:10	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57836	06/22/22 00:17	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Prep	3051A			.54 g	50 mL	58594	06/26/22 15:13	PB	XEN STF
Total/NA	Analysis	6020A		10			59108	06/28/22 21:56	SHZ	XEN STF
Total/NA	Prep	7471A			.57 g	50 mL	58144	06/23/22 08:18	AGR	XEN STF
Total/NA	Analysis	7471A		1			58280	06/23/22 15:04	SHZ	XEN STF
Total/NA	Analysis	Moisture		1			58003	06/22/22 09:42	JM	XEN STF



# Lab Chronicle

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-16**

**Lab Sample ID: 830-2005-13**

**Date Collected: 06/15/22 14:05**

**Matrix: Solid**

**Date Received: 06/16/22 09:38**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57784	06/21/22 19:52	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.04 g	10 mL	57901	06/21/22 16:10	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57836	06/22/22 00:36	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Prep	3051A			.57 g	50 mL	58594	06/26/22 15:13	PB	XEN STF
Total/NA	Analysis	6020A		10			59108	06/28/22 21:59	SHZ	XEN STF
Total/NA	Prep	3051A			.57 g	50 mL	58594	06/26/22 15:13	PB	XEN STF
Total/NA	Analysis	6020A		2500			59293	06/29/22 20:38	SHZ	XEN STF
Total/NA	Prep	7471A			.56 g	50 mL	58144	06/23/22 08:18	AGR	XEN STF
Total/NA	Analysis	7471A		5			58280	06/23/22 15:21	SHZ	XEN STF
Total/NA	Analysis	Moisture		1			58003	06/22/22 09:42	JM	XEN STF

**Client Sample ID: B-16**

**Lab Sample ID: 830-2005-14**

**Date Collected: 06/15/22 14:10**

**Matrix: Solid**

**Date Received: 06/16/22 09:38**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57878	06/22/22 18:25	KLV	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.02 g	10 mL	57901	06/21/22 16:10	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57836	06/22/22 00:56	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Prep	3051A			.56 g	50 mL	58594	06/26/22 15:13	PB	XEN STF
Total/NA	Analysis	6020A		10			59108	06/28/22 22:02	SHZ	XEN STF
Total/NA	Prep	7471A			.53 g	50 mL	58144	06/23/22 08:18	AGR	XEN STF
Total/NA	Analysis	7471A		1			58280	06/23/22 15:09	SHZ	XEN STF
Total/NA	Analysis	Moisture		1			58003	06/22/22 09:42	JM	XEN STF

**Client Sample ID: B-16**

**Lab Sample ID: 830-2005-15**

**Date Collected: 06/15/22 14:20**

**Matrix: Solid**

**Date Received: 06/16/22 09:38**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57784	06/21/22 18:10	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.02 g	10 mL	57901	06/21/22 16:10	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57836	06/22/22 01:15	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Prep	3051A			.53 g	50 mL	58594	06/26/22 15:13	PB	XEN STF
Total/NA	Analysis	6020A		10			59108	06/28/22 22:05	SHZ	XEN STF
Total/NA	Prep	7471A			.53 g	50 mL	58144	06/23/22 08:18	AGR	XEN STF
Total/NA	Analysis	7471A		1			58280	06/23/22 15:10	SHZ	XEN STF
Total/NA	Analysis	Moisture		1			57977	06/21/22 17:51	JM	XEN STF

# Lab Chronicle

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-17**

**Lab Sample ID: 830-2005-16**

Date Collected: 06/15/22 14:37

Matrix: Solid

Date Received: 06/16/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57784	06/21/22 18:30	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			9.96 g	10 mL	57901	06/21/22 16:10	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57836	06/22/22 01:35	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Prep	3051A			.54 g	50 mL	58594	06/26/22 15:13	PB	XEN STF
Total/NA	Analysis	6020A		10			59108	06/28/22 22:09	SHZ	XEN STF
Total/NA	Prep	7471A			.57 g	50 mL	58144	06/23/22 08:18	AGR	XEN STF
Total/NA	Analysis	7471A		1			58280	06/23/22 15:14	SHZ	XEN STF
Total/NA	Analysis	Moisture		1			57977	06/21/22 17:51	JM	XEN STF

**Client Sample ID: B-17**

**Lab Sample ID: 830-2005-17**

Date Collected: 06/15/22 14:45

Matrix: Solid

Date Received: 06/16/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57878	06/22/22 18:48	KLV	XEN STF
Total/NA	Prep	TX_1005_S_Prep			9.98 g	10 mL	57901	06/21/22 16:10	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57836	06/22/22 01:54	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Prep	3051A			.55 g	50 mL	58594	06/26/22 15:13	PB	XEN STF
Total/NA	Analysis	6020A		10			59108	06/28/22 22:12	SHZ	XEN STF
Total/NA	Prep	7471A			.58 g	50 mL	58144	06/23/22 08:18	AGR	XEN STF
Total/NA	Analysis	7471A		1			58280	06/23/22 15:16	SHZ	XEN STF
Total/NA	Analysis	Moisture		1			57977	06/21/22 17:51	JM	XEN STF

**Client Sample ID: B-17**

**Lab Sample ID: 830-2005-18**

Date Collected: 06/15/22 14:52

Matrix: Solid

Date Received: 06/16/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57784	06/21/22 18:51	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.04 g	10 mL	57901	06/21/22 16:10	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57836	06/22/22 02:14	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Prep	3051A			.54 g	50 mL	58594	06/26/22 15:13	PB	XEN STF
Total/NA	Analysis	6020A		10			59108	06/28/22 22:15	SHZ	XEN STF
Total/NA	Prep	7471A			.52 g	50 mL	58144	06/23/22 08:18	AGR	XEN STF
Total/NA	Analysis	7471A		1			58280	06/23/22 15:17	SHZ	XEN STF
Total/NA	Analysis	Moisture		1			58053	06/22/22 12:58	JM	XEN STF

# Lab Chronicle

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Client Sample ID: B-18**

**Lab Sample ID: 830-2005-19**

Date Collected: 06/15/22 15:19

Matrix: Solid

Date Received: 06/16/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57784	06/21/22 19:11	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10 g	10 mL	57677	06/21/22 11:00	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57830	06/22/22 00:38	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Prep	3051A			.56 g	50 mL	58594	06/26/22 15:13	PB	XEN STF
Total/NA	Analysis	6020A		10			59108	06/28/22 22:18	SHZ	XEN STF
Total/NA	Prep	7471A			.54 g	50 mL	58144	06/23/22 08:18	AGR	XEN STF
Total/NA	Analysis	7471A		1			58280	06/23/22 15:19	SHZ	XEN STF
Total/NA	Analysis	Moisture		1			58053	06/22/22 12:58	JM	XEN STF

**Client Sample ID: B-18**

**Lab Sample ID: 830-2005-20**

Date Collected: 06/15/22 15:25

Matrix: Solid

Date Received: 06/16/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57878	06/22/22 19:12	KLV	XEN STF
Total/NA	Prep	TX_1005_S_Prep			9.97 g	10 mL	57677	06/21/22 11:00	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57830	06/22/22 00:59	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Prep	3051A			.55 g	50 mL	58594	06/26/22 15:13	PB	XEN STF
Total/NA	Analysis	6020A		10			59108	06/28/22 22:21	SHZ	XEN STF
Total/NA	Prep	7471A			.55 g	50 mL	58144	06/23/22 08:18	AGR	XEN STF
Total/NA	Analysis	7471A		1			58280	06/23/22 15:20	SHZ	XEN STF
Total/NA	Analysis	Moisture		1			58053	06/22/22 12:58	JM	XEN STF

**Client Sample ID: B-18**

**Lab Sample ID: 830-2005-21**

Date Collected: 06/15/22 15:35

Matrix: Solid

Date Received: 06/16/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57784	06/21/22 19:32	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.06 g	10 mL	57677	06/21/22 11:00	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57830	06/22/22 01:19	T1S	XEN STF
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Prep	3051A			.56 g	50 mL	58596	06/26/22 15:21	PB	XEN STF
Total/NA	Analysis	6020A		10			58973	06/28/22 16:47	DP	XEN STF
Total/NA	Prep	7471A			.52 g	50 mL	58146	06/23/22 08:21	AGR	XEN STF
Total/NA	Analysis	7471A		1			58280	06/23/22 16:01	SHZ	XEN STF
Total/NA	Analysis	Moisture		1			58053	06/22/22 12:58	JM	XEN STF

**Laboratory References:**

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Eurofins El Paso

# Accreditation/Certification Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

## Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-22-46	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Solids

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Method Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	TCEQ	XEN STF
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
Moisture	Percent Moisture	EPA	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
5035	Closed System Purge and Trap	SW846	XEN STF
7471A	Preparation, Mercury	SW846	XEN STF
TX_1005_S_Prep	Extraction - Texas Total petroleum Hyrdocarbons	TCEQ	XEN STF

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TCEQ = Texas Commission of Environmental Quality

**Laboratory References:**

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

# Sample Summary

Client: ESSCO Environmental, Inc.  
Project/Site: B&C-22-01

Job ID: 830-2005-1  
SDG: Boone Phase 2 & 2a - 4100 Delta, EPTX

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
830-2005-1	B-11	Solid	06/15/22 08:05	06/16/22 09:38	5
830-2005-2	B-12	Solid	06/15/22 09:35	06/16/22 09:38	5
830-2005-3	B-12	Solid	06/15/22 09:45	06/16/22 09:38	10
830-2005-4	B-13	Solid	06/15/22 10:20	06/16/22 09:38	5
830-2005-5	B-13	Solid	06/15/22 10:30	06/16/22 09:38	10
830-2005-6	B-13	Solid	06/15/22 10:35	06/16/22 09:38	15
830-2005-7	B-14	Solid	06/15/22 11:00	06/16/22 09:38	5
830-2005-8	B-14	Solid	06/15/22 11:05	06/16/22 09:38	10
830-2005-9	B-14	Solid	06/15/22 11:15	06/16/22 09:38	15
830-2005-10	B-15	Solid	06/15/22 13:25	06/16/22 09:38	5
830-2005-11	B-15	Solid	06/15/22 13:30	06/16/22 09:38	10
830-2005-12	B-15	Solid	06/15/22 13:35	06/16/22 09:38	15
830-2005-13	B-16	Solid	06/15/22 14:05	06/16/22 09:38	5
830-2005-14	B-16	Solid	06/15/22 14:10	06/16/22 09:38	10
830-2005-15	B-16	Solid	06/15/22 14:20	06/16/22 09:38	15
830-2005-16	B-17	Solid	06/15/22 14:37	06/16/22 09:38	5
830-2005-17	B-17	Solid	06/15/22 14:45	06/16/22 09:38	10
830-2005-18	B-17	Solid	06/15/22 14:52	06/16/22 09:38	15
830-2005-19	B-18	Solid	06/15/22 15:19	06/16/22 09:38	5
830-2005-20	B-18	Solid	06/15/22 15:25	06/16/22 09:38	10
830-2005-21	B-18	Solid	06/15/22 15:35	06/16/22 09:38	15



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 Stafford, Texas (281-240-4200)  
 Dallas, Texas (214-902-0300)

# CHAIN OF CUSTODY

Page 1 Of 3

San Antonio, Texas (210-509-3334)  
 Midland, Texas (432-704-5251)

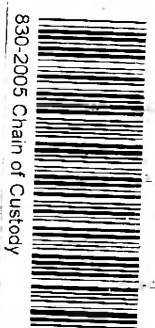
www.xenco.com

Phoenix, Arizona (480-355-0900)

Xenco Quote #

Xenco Job #

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes															
Company Name / Branch: <b>ESSCO Environmental, Inc.</b>		Project Name/Number: <b>B&amp;C-22-01</b>																			
Company Address: <b>1000 Newman St. El Paso, Texas 79902</b>		Project Location: <b>Boone Phase 2 &amp; 2a - 4100 Delta, EPTX</b>																			
Email: <b>ecourtoix@esscogroup.org</b> Phone No: <b>(915) 533-1102</b>		Invoice To:																			
Email: <b>rlnehay@esscogroup.org</b>		PO Number:																			
Project Contact: <b>Robert Niehay</b>																					
Samplers Name: <b>Rlnhay</b>																					
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCI	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	TX-1005 (TPH)	BTEX w/ MTBE	PAH **	Semi Vols (8310)	RCRA8 Memetals	VOCs	
1	B-11	5 ft	6/15/2022	8:05	S	1									X	X	X*				
2	B-12	5 ft	6/15/2022	9:35	S	1									X	X	X*				
3	B-12	10 ft	6/15/2022	9:45	S	2									X	X	X*			X	
4	B-13	5 ft	6/15/2022	10:20	S	1									X	X	X*				
5	B-13	10 ft	6/15/2022	10:30	S	2									X	X	X*			X	
6	B-13	15 ft	6/15/2022	10:35	S	1									X	X	X*				
7	B-14	5 ft	6/15/2022	11:00	S	1									X	X	X*				
8	B-14	10 ft	6/15/2022	11:05	S	2									X	X	X*			X	
9	B-14	15 ft	6/15/2022	11:15	S	1									X	X	X*				
Turnaround Time (Business days)		Data Deliverable Information		Notes:																	
<input type="checkbox"/> Same Day TAT		<input type="checkbox"/> 5 Day TAT		Run PAH on water sample if there are TPH hits.																	
<input type="checkbox"/> Next Day EMERGENCY		<input checked="" type="checkbox"/> 7 Day TAT		Run PAH on highest TPH soil sample concentration.																	
<input type="checkbox"/> 2 Day EMERGENCY		<input type="checkbox"/> Contract TAT																			
<input type="checkbox"/> 3 Day EMERGENCY		<input type="checkbox"/> TRRP Checklist																			
<b>TAT Starts Day received by Lab, if received by 5:00 pm</b>		<b>FED-EX / UPS: Tracking #</b>																			
Relinquished by Sampler:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:	
1		6/16/22 9:38		1		6/16/22 9:38		1		6/16/22 9:38		1		6/16/22 9:38		1		6/16/22 9:38		1	
3		6/16/22 9:38		3		6/16/22 9:38		3		6/16/22 9:38		3		6/16/22 9:38		3		6/16/22 9:38		3	
5		6/16/22 9:38		5		6/16/22 9:38		5		6/16/22 9:38		5		6/16/22 9:38		5		6/16/22 9:38		5	



830-2005 Chain of Custody

Loc: 830  
2005

- W = Water
- S = Soil/Sed/Solid
- GW = Ground Water
- DW = Drinking Water
- P = Product
- SW = Surface water
- SL = Sludge
- OW = Ocean/Sea Water
- WI = Wipe
- O = Oil
- WW = Waste Water
- A = Air

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the loss of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.







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 Midland, Texas (432-704-5251)

Phoenix, Arizona (480-356-0900)

# CHAIN OF CUSTODY

Page 3 Of 3

MMVA XENCO 5041

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes													
Company Name / Branch:	ESSCO Environmental, Inc.	Project Name/Number:	BAC-22-01	Xenoco Quote #		Xenoco Job #													
Company Address:	1000 Newman St. El Paso, Texas 79902	Project Location:	Boone Phase 2 & 2a - 4100 Delta, EPTX																
Email:	ecouroux@esscogroup.org meihay@esscogroup.org	Invoice To:																	
Phone No:	(915) 533-1102	PO Number:																	
Project Contact:	Robert Niehay																		
Sampler's Name:	Robert Niehay																		
No.	Field ID / Point of Collection	Collection	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	TX-1005 (TPH)	BTEX w/ MTBE	PAH **	Semi Vols (8310)	RCRA8 Memetals	VOCs	Field Comments
1	B-18	5 ft	6/15/2022	15:19	S	1							X	X	X	X	X	X	
2	B-18	10 ft	6/15/2022	15:25	S	2							X	X	X	X	X	X	
3	B-18	15 ft	6/15/2022	15:35	S	1							X	X	X	X	X	X	
4																			
5																			
6																			
7																			
8																			
9																			
10																			
Turnaround Time (Business days)		Data Deliverable Information																	
<input type="checkbox"/> Same Day TAT		<input type="checkbox"/> 5 Day TAT		<input type="checkbox"/> Level II Std QC		<input type="checkbox"/> Level IV (Full Data Pkg /raw data)		Notes:											
<input type="checkbox"/> Next Day EMERGENCY		<input checked="" type="checkbox"/> 7 Day TAT		<input type="checkbox"/> Level III Std QC+ Forms		<input type="checkbox"/> TRRP Level IV		Run PAH on water sample if there are TPH hits.											
<input type="checkbox"/> 2 Day EMERGENCY		<input type="checkbox"/> Contract TAT		<input type="checkbox"/> Level 3 (CLP Forms)		<input type="checkbox"/> UST / RG -411		Run PAH on highest TPH soil sample concentration.											
<input type="checkbox"/> 3 Day EMERGENCY				<input type="checkbox"/> TRRP Checklist															
TAT Starts by 8:00 am and ends by 4:00 pm																			
Relinquished by Sampler:		Date Time:		SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLE CHANGE POSSESSION, INCLUDING COURIER DELIVERY		Relinquished By:		Date Time:		Received By:		Date Time:		Received By:		Date Time:		Received By:	
1		6/16/22 11:38				[Signature]		6/16/22 09:38		[Signature]		6/16/22 09:38		[Signature]		6/16/22 09:38		[Signature]	
3						[Signature]				[Signature]				[Signature]				[Signature]	
5						[Signature]				[Signature]				[Signature]				[Signature]	
Cooler Temp:		Thermo Corr Factor:		On Ice		Cooler Temp:		Thermo Corr Factor:		On Ice		Cooler Temp:		Thermo Corr Factor:		On Ice		Cooler Temp:	
IR-2-172/172				X		IR-2-172/172				X		IR-2-172/172				X		IR-2-172/172	

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenoco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenoco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenoco. A minimum charge of \$75 will be applied to each project. Xenoco's liability will be limited to the cost of samples. Any samples received by Xenoco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

# Chain of Custody Record



Client Information (Sub Contract Lab)		Lab Pk:	Carrier Tracking Note(s):	ICCC No:													
200 East Sunset Rd Suite E El Paso, TX 79922 Phone: 915-585-3443		Taylor Holly		830-673-1													
Shipping/Receiving		E-Mail: Holly Taylor@et.eurofins.com	State of Origin: Texas	Page: Page 1 of 3													
Company Eurofins Environment Testing South Cent		Accreditations Required (See note): NELAP Texas	Job #:	830-2005-1													
Address: 4145 Greenbriar Dr		Due Date Requested: 6/22/2022	Preservation Codes: A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other														
City: Stafford		TAT Requested (days):	M Hexane N None O AsNaO2 P Na2O4S Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W PH 4-5 Y Trizma Z other (specify)														
State, Zip: TX, 77477		PO #:															
Phone: 281-240-4200(Tel)		WO #:															
Email:		Project #: 83000024															
B&C-22-01		SSOW#:															
Site:																	
Sample Identification	Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, B=bitumen, A=air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TX 1005/TX 1005_S_Prep (MOD) Standard List	6020A/3061A RCRA 8 (excl. Hg)	7474A/7474A_Prep	8260C/6036FP_Cale (MOD) BTEX and MTBE	8270D/3660A Polyyclic Aromatic Hydrocarbons	(PAHs) (Hold)	8260C/6036FP_Cale Full List VOCs	Total Number of Containers	Special Instructions/Note:
B-11 (830-2005-1)		6/15/22	08:05 Mountain	Solid	Solid		X	X	X	X	X	X	X	X	X	1	
B-12 (830-2005-2)		6/15/22	09:35 Mountain	Solid	Solid		X	X	X	X	X	X	X	X	X	1	
B-12 (830-2005-3)		6/15/22	09:45 Mountain	Solid	Solid		X	X	X	X	X	X	X	X	X	2	
B-13 (830-2005-4)		6/15/22	10:20 Mountain	Solid	Solid		X	X	X	X	X	X	X	X	X	1	
B-13 (830-2005-5)		6/15/22	10:30 Mountain	Solid	Solid		X	X	X	X	X	X	X	X	X	2	
B-13 (830-2005-6)		6/15/22	10:35 Mountain	Solid	Solid		X	X	X	X	X	X	X	X	X	1	
B-14 (830-2005-7)		6/15/22	11:00 Mountain	Solid	Solid		X	X	X	X	X	X	X	X	X	1	
B-14 (830-2005-8)		6/15/22	11:05 Mountain	Solid	Solid		X	X	X	X	X	X	X	X	X	2	
B-14 (830-2005-9)		6/15/22	11:15 Mountain	Solid	Solid		X	X	X	X	X	X	X	X	X	1	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte &amp; accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/estimatix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.</p>																	
<p><b>Possible Hazard Identification</b>                  Unconfirmed                  Deliverable Requested: I II III, IV Other (specify) _____                  Primary Deliverable Rank: 2                  Date: _____                  Relinquished by: <i>[Signature]</i> Company: <i>[Signature]</i>                  Relinquished by: <i>[Signature]</i> Company: <i>[Signature]</i>                  Relinquished by: <i>[Signature]</i> Company: <i>[Signature]</i>                  Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No                  Cooler Temperature(s) °C and Other Remarks: <i>[Signature]</i>                  Corrected Temp: 21.0                  Date: 6/22/2022                  Company: Ex</p>																	







## Login Sample Receipt Checklist

Client: ESSCO Environmental, Inc.

Job Number: 830-2005-1  
SDG Number: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Login Number: 2005**  
**List Number: 1**  
**Creator: Aparicio, Niria**

**List Source: Eurofins El Paso**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



## Login Sample Receipt Checklist

Client: ESSCO Environmental, Inc.

Job Number: 830-2005-1  
SDG Number: Boone Phase 2 & 2a - 4100 Delta, EPTX

**Login Number: 2005**  
**List Number: 2**  
**Creator: Palmar, Pedro**

**List Source: Eurofins Houston**  
**List Creation: 06/20/22 01:08 PM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	21.2
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?	False	
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 <6mm (1/4").	True	



## ANALYTICAL REPORT

Eurofins El Paso  
200 East Sunset Rd.  
Suite E  
El Paso, TX 79922  
Tel: (915)585-3443

Laboratory Job ID: 830-2010-1

Client Project/Site: Boone Siphon B&C -22-01

For:  
ESSCO Environmental, Inc.  
1000 Newman St.  
El Paso, Texas 79902

Attn: Emile G Couroux



Authorized for release by:  
6/30/2022 8:53:00 PM  
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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# Definitions/Glossary

Client: ESSCO Environmental, Inc.  
Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

### GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

### Metals

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.
U	Indicates the analyte was analyzed for but not detected.

## 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

# Case Narrative

Client: ESSCO Environmental, Inc.  
Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

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## Job ID: 830-2010-1

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Laboratory: Eurofins El Paso

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### Narrative

#### Job Narrative 830-2010-1

#### Receipt

The samples were received on 6/16/2022 11:58 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 20.2°C

#### GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

**Client Sample ID: B-19**

**Lab Sample ID: 830-2010-1**

Date Collected: 06/16/22 10:50

Matrix: Solid

Date Received: 06/16/22 11:58

Percent Solids: 91.2

Sample Depth: 5

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000228	U	0.00110	0.000228	mg/Kg	✱	06/20/22 15:49	06/21/22 15:06	1
Toluene	<0.00110	U	0.00552	0.00110	mg/Kg	✱	06/20/22 15:49	06/21/22 15:06	1
Ethylbenzene	<0.000370	U	0.00110	0.000370	mg/Kg	✱	06/20/22 15:49	06/21/22 15:06	1
m,p-Xylenes	<0.000883	U	0.00221	0.000883	mg/Kg	✱	06/20/22 15:49	06/21/22 15:06	1
o-Xylene	<0.00109	U	0.00110	0.00109	mg/Kg	✱	06/20/22 15:49	06/21/22 15:06	1
Xylenes, Total	<0.00109	U	0.00221	0.00109	mg/Kg	✱	06/20/22 15:49	06/21/22 15:06	1
MTBE	<0.000451	U	0.00552	0.000451	mg/Kg	✱	06/20/22 15:49	06/21/22 15:06	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	104		56 - 150				06/20/22 15:49	06/21/22 15:06	1
4-Bromofluorobenzene (Surr)	97		68 - 152				06/20/22 15:49	06/21/22 15:06	1
Dibromofluoromethane (Surr)	98		53 - 142				06/20/22 15:49	06/21/22 15:06	1
Toluene-d8 (Surr)	95		70 - 130				06/20/22 15:49	06/21/22 15:06	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<23.1	U	54.8	23.1	mg/Kg	✱	06/21/22 11:00	06/22/22 01:39	1
>C12-C28	<23.1	U	54.8	23.1	mg/Kg	✱	06/21/22 11:00	06/22/22 01:39	1
>C28-C35	<23.1	U	54.8	23.1	mg/Kg	✱	06/21/22 11:00	06/22/22 01:39	1
Total Petroleum Hydrocarbons (C6-C35)	<23.1	U	54.8	23.1	mg/Kg			06/21/22 15:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane (Surr)	92		70 - 130				06/21/22 11:00	06/22/22 01:39	1
o-Terphenyl (Surr)	98		70 - 130				06/21/22 11:00	06/22/22 01:39	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>2.34</b>	<b>J</b>	4.14	0.638	mg/Kg	✱	06/29/22 16:47	06/29/22 22:01	10
<b>Barium</b>	<b>116</b>		4.14	0.359	mg/Kg	✱	06/29/22 16:47	06/29/22 22:01	10
Cadmium	<0.120	U	2.07	0.120	mg/Kg	✱	06/29/22 16:47	06/29/22 22:01	10
<b>Chromium</b>	<b>7.52</b>		4.14	0.281	mg/Kg	✱	06/29/22 16:47	06/29/22 22:01	10
<b>Lead</b>	<b>7.41</b>		2.07	0.200	mg/Kg	✱	06/29/22 16:47	06/29/22 22:01	10
Selenium	<0.513	U	2.07	0.513	mg/Kg	✱	06/29/22 16:47	06/29/22 22:01	10
Silver	<0.164	U	2.07	0.164	mg/Kg	✱	06/29/22 16:47	06/29/22 22:01	10

**Client Sample ID: B-19**

**Lab Sample ID: 830-2010-2**

Date Collected: 06/16/22 11:00

Matrix: Solid

Date Received: 06/16/22 11:58

Percent Solids: 91.5

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00108	U	0.00219	0.00108	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
cis-1,2-Dichloroethene	<0.000329	U	0.00547	0.000329	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
cis-1,3-Dichloropropene	<0.000251	U	0.00547	0.000251	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
Isopropylbenzene	<0.000190	U	0.00547	0.000190	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
m,p-Xylenes	<0.000874	U	0.00219	0.000874	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
n-Butylbenzene	<0.000299	U	0.00547	0.000299	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
N-Propylbenzene	<0.000312	U	0.00547	0.000312	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1

Eurofins El Paso

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

**Client Sample ID: B-19**

**Lab Sample ID: 830-2010-2**

Date Collected: 06/16/22 11:00

Matrix: Solid

Date Received: 06/16/22 11:58

Percent Solids: 91.5

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00108	U	0.00109	0.00108	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
p-Cymene (p-Isopropyltoluene)	<0.000348	U	0.00547	0.000348	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
tert-Butylbenzene	<0.00140	U	0.00547	0.00140	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
trans-1,2-Dichloroethene	<0.000474	U	0.00547	0.000474	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
trans-1,3-Dichloropropene	<0.000994	U	0.00547	0.000994	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
Vinyl chloride	<0.000482	U	0.00547	0.000482	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
1,1,1,2-Tetrachloroethane	<0.000292	U	0.00547	0.000292	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
1,1,1-Trichloroethane	<0.000550	U	0.00547	0.000550	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
1,1,2,2-Tetrachloroethane	<0.000513	U	0.00547	0.000513	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
1,1,2-Trichloroethane	<0.000429	U	0.00547	0.000429	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
1,1-Dichloroethane	<0.000411	U	0.00547	0.000411	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
1,1-Dichloroethene	<0.000303	U	0.00547	0.000303	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
1,1-Dichloropropene	<0.000490	U	0.00547	0.000490	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
1,2,3-Trichlorobenzene	<0.00219	U	0.00547	0.00219	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
1,2,3-Trichloropropene	<0.000491	U	0.00547	0.000491	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
1,2,4-Trichlorobenzene	<0.00219	U	0.00547	0.00219	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
1,2,4-Trimethylbenzene	<0.000279	U	0.00547	0.000279	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
1,2-Dibromo-3-Chloropropane	<0.000769	U	0.00547	0.000769	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
1,2-Dibromoethane	<0.00114	U	0.00547	0.00114	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
1,2-Dichlorobenzene	<0.000314	U	0.00547	0.000314	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
1,2-Dichloroethane	<0.000332	U	0.00547	0.000332	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
1,2-Dichloropropane	<0.000217	U	0.00547	0.000217	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
1,3,5-Trimethylbenzene	<0.000316	U	0.00547	0.000316	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
1,3-Dichlorobenzene	<0.000298	U	0.00547	0.000298	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
1,3-Dichloropropane	<0.000447	U	0.00547	0.000447	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
1,4-Dichlorobenzene	<0.000234	U	0.00547	0.000234	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
2,2-Dichloropropane	<0.000573	U	0.00547	0.000573	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
2-Butanone	<0.00399	U	0.0219	0.00399	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
4-Chlorotoluene	<0.000288	U	0.00547	0.000288	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
Benzene	<0.000226	U	0.00109	0.000226	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
Bromobenzene	<0.000379	U	0.00547	0.000379	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
Bromochloromethane	<0.000575	U	0.00547	0.000575	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
Bromodichloromethane	<0.000274	U	0.00547	0.000274	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
Bromoform	<0.00113	U	0.00547	0.00113	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
Bromomethane	<0.00103	U **	0.00547	0.00103	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
Carbon tetrachloride	<0.00180	U	0.00547	0.00180	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
Chlorobenzene	<0.000259	U	0.00547	0.000259	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
Chloroethane	<0.000485	U **	0.0109	0.000485	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
Chloroform	<0.000189	U	0.00547	0.000189	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
Chloromethane	<0.000471	U	0.00547	0.000471	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
Dibromochloromethane	<0.000978	U	0.00547	0.000978	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
Dichlorodifluoromethane	<0.00122	U	0.00547	0.00122	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
Ethylbenzene	<0.000367	U	0.00109	0.000367	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
Hexachlorobutadiene	<0.00219	U *-	0.00547	0.00219	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
MTBE	<0.000447	U	0.00547	0.000447	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
Methylene Chloride	<0.00461	U	0.0219	0.00461	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
Naphthalene	<0.00219	U	0.0109	0.00219	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1
sec-Butylbenzene	<0.000285	U	0.00547	0.000285	mg/Kg	✱	06/20/22 15:49	06/21/22 22:34	1

Eurofins El Paso

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

**Client Sample ID: B-19**

**Lab Sample ID: 830-2010-2**

Date Collected: 06/16/22 11:00

Matrix: Solid

Date Received: 06/16/22 11:58

Percent Solids: 91.5

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.000225	U	0.00547	0.000225	mg/Kg	✳	06/20/22 15:49	06/21/22 22:34	1
Tetrachloroethene	<0.000404	U	0.00547	0.000404	mg/Kg	✳	06/20/22 15:49	06/21/22 22:34	1
Toluene	<0.00109	U	0.00547	0.00109	mg/Kg	✳	06/20/22 15:49	06/21/22 22:34	1
Trichloroethene	<0.000540	U	0.00547	0.000540	mg/Kg	✳	06/20/22 15:49	06/21/22 22:34	1
Trichlorofluoromethane	<0.000336	U	0.00547	0.000336	mg/Kg	✳	06/20/22 15:49	06/21/22 22:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		56 - 150				06/20/22 15:49	06/21/22 22:34	1
4-Bromofluorobenzene (Surr)	104		68 - 152				06/20/22 15:49	06/21/22 22:34	1
Dibromofluoromethane (Surr)	118		53 - 142				06/20/22 15:49	06/21/22 22:34	1
Toluene-d8 (Surr)	97		70 - 130				06/20/22 15:49	06/21/22 22:34	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<23.1	U	54.7	23.1	mg/Kg	✳	06/21/22 11:00	06/22/22 01:58	1
>C12-C28	<23.1	U	54.7	23.1	mg/Kg	✳	06/21/22 11:00	06/22/22 01:58	1
>C28-C35	<23.1	U	54.7	23.1	mg/Kg	✳	06/21/22 11:00	06/22/22 01:58	1
Total Petroleum Hydrocarbons (C6-C35)	<23.1	U	54.7	23.1	mg/Kg			06/21/22 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130				06/21/22 11:00	06/22/22 01:58	1
o-Terphenyl (Surr)	87		70 - 130				06/21/22 11:00	06/22/22 01:58	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.23	J	4.05	0.624	mg/Kg	✳	06/29/22 16:47	06/29/22 22:03	10
Barium	54.9		4.05	0.351	mg/Kg	✳	06/29/22 16:47	06/29/22 22:03	10
Cadmium	<0.117	U	2.02	0.117	mg/Kg	✳	06/29/22 16:47	06/29/22 22:03	10
Chromium	4.77		4.05	0.275	mg/Kg	✳	06/29/22 16:47	06/29/22 22:03	10
Lead	3.53		2.02	0.196	mg/Kg	✳	06/29/22 16:47	06/29/22 22:03	10
Selenium	<0.502	U	2.02	0.502	mg/Kg	✳	06/29/22 16:47	06/29/22 22:03	10
Silver	<0.161	U	2.02	0.161	mg/Kg	✳	06/29/22 16:47	06/29/22 22:03	10

**Client Sample ID: B-19**

**Lab Sample ID: 830-2010-3**

Date Collected: 06/16/22 11:05

Matrix: Solid

Date Received: 06/16/22 11:58

Percent Solids: 96.3

Sample Depth: 15

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000213	U	0.00103	0.000213	mg/Kg	✳	06/20/22 15:49	06/21/22 14:05	1
Toluene	<0.00103	U	0.00515	0.00103	mg/Kg	✳	06/20/22 15:49	06/21/22 14:05	1
Ethylbenzene	<0.000346	U	0.00103	0.000346	mg/Kg	✳	06/20/22 15:49	06/21/22 14:05	1
m,p-Xylenes	<0.000824	U	0.00206	0.000824	mg/Kg	✳	06/20/22 15:49	06/21/22 14:05	1
o-Xylene	<0.00101	U	0.00103	0.00101	mg/Kg	✳	06/20/22 15:49	06/21/22 14:05	1
Xylenes, Total	<0.00101	U	0.00206	0.00101	mg/Kg	✳	06/20/22 15:49	06/21/22 14:05	1
MTBE	<0.000421	U	0.00515	0.000421	mg/Kg	✳	06/20/22 15:49	06/21/22 14:05	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

## Client Sample ID: B-19

Lab Sample ID: 830-2010-3

Date Collected: 06/16/22 11:05

Matrix: Solid

Date Received: 06/16/22 11:58

Percent Solids: 96.3

Sample Depth: 15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		56 - 150	06/20/22 15:49	06/21/22 14:05	1
4-Bromofluorobenzene (Surr)	100		68 - 152	06/20/22 15:49	06/21/22 14:05	1
Dibromofluoromethane (Surr)	99		53 - 142	06/20/22 15:49	06/21/22 14:05	1
Toluene-d8 (Surr)	94		70 - 130	06/20/22 15:49	06/21/22 14:05	1

### Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.9	U	52.0	21.9	mg/Kg	✱	06/21/22 11:00	06/22/22 02:38	1
>C12-C28	<21.9	U	52.0	21.9	mg/Kg	✱	06/21/22 11:00	06/22/22 02:38	1
>C28-C35	<21.9	U	52.0	21.9	mg/Kg	✱	06/21/22 11:00	06/22/22 02:38	1
Total Petroleum Hydrocarbons (C6-C35)	<21.9	U	52.0	21.9	mg/Kg			06/21/22 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130	06/21/22 11:00	06/22/22 02:38	1
o-Terphenyl (Surr)	95		70 - 130	06/21/22 11:00	06/22/22 02:38	1

### Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.597	J	3.64	0.562	mg/Kg	✱	06/29/22 16:47	06/29/22 22:06	10
Barium	22.3		3.64	0.316	mg/Kg	✱	06/29/22 16:47	06/29/22 22:06	10
Cadmium	<0.106	U	1.82	0.106	mg/Kg	✱	06/29/22 16:47	06/29/22 22:06	10
Chromium	2.83	J	3.64	0.247	mg/Kg	✱	06/29/22 16:47	06/29/22 22:06	10
Lead	1.91		1.82	0.176	mg/Kg	✱	06/29/22 16:47	06/29/22 22:06	10
Selenium	<0.452	U	1.82	0.452	mg/Kg	✱	06/29/22 16:47	06/29/22 22:06	10
Silver	<0.145	U	1.82	0.145	mg/Kg	✱	06/29/22 16:47	06/29/22 22:06	10

## Client Sample ID: B-20

Lab Sample ID: 830-2010-4

Date Collected: 06/16/22 11:20

Matrix: Solid

Date Received: 06/16/22 11:58

Percent Solids: 97.9

Sample Depth: 5

### Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000213	U	0.00103	0.000213	mg/Kg	✱	06/20/22 15:49	06/21/22 14:25	1
Toluene	<0.00103	U	0.00515	0.00103	mg/Kg	✱	06/20/22 15:49	06/21/22 14:25	1
Ethylbenzene	<0.000346	U	0.00103	0.000346	mg/Kg	✱	06/20/22 15:49	06/21/22 14:25	1
m,p-Xylenes	<0.000824	U	0.00206	0.000824	mg/Kg	✱	06/20/22 15:49	06/21/22 14:25	1
o-Xylene	<0.00101	U	0.00103	0.00101	mg/Kg	✱	06/20/22 15:49	06/21/22 14:25	1
Xylenes, Total	<0.00101	U	0.00206	0.00101	mg/Kg	✱	06/20/22 15:49	06/21/22 14:25	1
MTBE	<0.000421	U	0.00515	0.000421	mg/Kg	✱	06/20/22 15:49	06/21/22 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		56 - 150	06/20/22 15:49	06/21/22 14:25	1
4-Bromofluorobenzene (Surr)	98		68 - 152	06/20/22 15:49	06/21/22 14:25	1
Dibromofluoromethane (Surr)	97		53 - 142	06/20/22 15:49	06/21/22 14:25	1
Toluene-d8 (Surr)	95		70 - 130	06/20/22 15:49	06/21/22 14:25	1

### Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.4	U	50.8	21.4	mg/Kg	✱	06/21/22 11:00	06/22/22 02:58	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

**Client Sample ID: B-20**

**Lab Sample ID: 830-2010-4**

Date Collected: 06/16/22 11:20

Matrix: Solid

Date Received: 06/16/22 11:58

Percent Solids: 97.9

Sample Depth: 5

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
>C12-C28	<21.4	U	50.8	21.4	mg/Kg	✳	06/21/22 11:00	06/22/22 02:58	1
>C28-C35	<21.4	U	50.8	21.4	mg/Kg	✳	06/21/22 11:00	06/22/22 02:58	1
Total Petroleum Hydrocarbons (C6-C35)	<21.4	U	50.8	21.4	mg/Kg			06/21/22 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130				06/21/22 11:00	06/22/22 02:58	1
o-Terphenyl (Surr)	90		70 - 130				06/21/22 11:00	06/22/22 02:58	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.664	J	4.01	0.618	mg/Kg	✳	06/29/22 16:47	06/29/22 22:09	10
Barium	17.4		4.01	0.347	mg/Kg	✳	06/29/22 16:47	06/29/22 22:09	10
Cadmium	<0.116	U	2.00	0.116	mg/Kg	✳	06/29/22 16:47	06/29/22 22:09	10
Chromium	2.77	J	4.01	0.272	mg/Kg	✳	06/29/22 16:47	06/29/22 22:09	10
Lead	1.90	J	2.00	0.194	mg/Kg	✳	06/29/22 16:47	06/29/22 22:09	10
Selenium	<0.497	U	2.00	0.497	mg/Kg	✳	06/29/22 16:47	06/29/22 22:09	10
Silver	<0.159	U	2.00	0.159	mg/Kg	✳	06/29/22 16:47	06/29/22 22:09	10

**Client Sample ID: B-20**

**Lab Sample ID: 830-2010-5**

Date Collected: 06/16/22 11:25

Matrix: Solid

Date Received: 06/16/22 11:58

Percent Solids: 98.1

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00100	U	0.00204	0.00100	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1
cis-1,2-Dichloroethene	<0.000306	U	0.00510	0.000306	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1
cis-1,3-Dichloropropene	<0.000234	U	0.00510	0.000234	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1
Isopropylbenzene	<0.000177	U	0.00510	0.000177	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1
m,p-Xylenes	<0.000815	U	0.00204	0.000815	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1
n-Butylbenzene	<0.000279	U	0.00510	0.000279	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1
N-Propylbenzene	<0.000291	U	0.00510	0.000291	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1
o-Xylene	<0.00100	U	0.00102	0.00100	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1
p-Cymene (p-Isopropyltoluene)	<0.000325	U	0.00510	0.000325	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1
tert-Butylbenzene	<0.00131	U	0.00510	0.00131	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1
trans-1,2-Dichloroethene	<0.000442	U	0.00510	0.000442	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1
trans-1,3-Dichloropropene	<0.000927	U	0.00510	0.000927	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1
Vinyl chloride	<0.000450	U	0.00510	0.000450	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1
1,1,1,2-Tetrachloroethane	<0.000272	U	0.00510	0.000272	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1
1,1,1-Trichloroethane	<0.000513	U	0.00510	0.000513	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1
1,1,2,2-Tetrachloroethane	<0.000478	U	0.00510	0.000478	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1
1,1,2-Trichloroethane	<0.000400	U	0.00510	0.000400	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1
1,1-Dichloroethane	<0.000383	U	0.00510	0.000383	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1
1,1-Dichloroethene	<0.000282	U	0.00510	0.000282	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1
1,1-Dichloropropene	<0.000457	U	0.00510	0.000457	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1
1,2,3-Trichlorobenzene	<0.00204	U	0.00510	0.00204	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1
1,2,3-Trichloropropane	<0.000458	U	0.00510	0.000458	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1
1,2,4-Trichlorobenzene	<0.00204	U	0.00510	0.00204	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1
1,2,4-Trimethylbenzene	<0.000260	U	0.00510	0.000260	mg/Kg	✳	06/20/22 15:49	06/21/22 22:56	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

**Client Sample ID: B-20**

**Lab Sample ID: 830-2010-5**

Date Collected: 06/16/22 11:25

Matrix: Solid

Date Received: 06/16/22 11:58

Percent Solids: 98.1

Sample Depth: 10

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<0.000717	U	0.00510	0.000717	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
1,2-Dibromoethane	<0.00106	U	0.00510	0.00106	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
1,2-Dichlorobenzene	<0.000293	U	0.00510	0.000293	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
1,2-Dichloroethane	<0.000310	U	0.00510	0.000310	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
1,2-Dichloropropane	<0.000202	U	0.00510	0.000202	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
1,3,5-Trimethylbenzene	<0.000294	U	0.00510	0.000294	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
1,3-Dichlorobenzene	<0.000278	U	0.00510	0.000278	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
1,3-Dichloropropane	<0.000417	U	0.00510	0.000417	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
1,4-Dichlorobenzene	<0.000219	U	0.00510	0.000219	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
2,2-Dichloropropane	<0.000534	U	0.00510	0.000534	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
2-Butanone	<0.00372	U	0.0204	0.00372	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
4-Chlorotoluene	<0.000269	U	0.00510	0.000269	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
Benzene	<0.000211	U	0.00102	0.000211	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
Bromobenzene	<0.000353	U	0.00510	0.000353	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
Bromochloromethane	<0.000536	U	0.00510	0.000536	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
Bromodichloromethane	<0.000256	U	0.00510	0.000256	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
Bromoform	<0.00105	U	0.00510	0.00105	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
Bromomethane	<0.000961	U **	0.00510	0.000961	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
Carbon tetrachloride	<0.00167	U	0.00510	0.00167	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
Chlorobenzene	<0.000241	U	0.00510	0.000241	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
Chloroethane	<0.000452	U **	0.0102	0.000452	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
Chloroform	<0.000176	U	0.00510	0.000176	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
Chloromethane	<0.000439	U	0.00510	0.000439	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
Dibromochloromethane	<0.000912	U	0.00510	0.000912	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
Dichlorodifluoromethane	<0.00114	U	0.00510	0.00114	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
Ethylbenzene	<0.000342	U	0.00102	0.000342	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
Hexachlorobutadiene	<0.00204	U *-	0.00510	0.00204	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
MTBE	<0.000416	U	0.00510	0.000416	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
Methylene Chloride	<0.00430	U	0.0204	0.00430	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
Naphthalene	<0.00204	U	0.0102	0.00204	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
sec-Butylbenzene	<0.000266	U	0.00510	0.000266	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
Styrene	<0.000209	U	0.00510	0.000209	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
Tetrachloroethene	<0.000377	U	0.00510	0.000377	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
Toluene	<0.00102	U	0.00510	0.00102	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
Trichloroethene	<0.000503	U	0.00510	0.000503	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1
Trichlorofluoromethane	<0.000313	U	0.00510	0.000313	mg/Kg	☼	06/20/22 15:49	06/21/22 22:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		56 - 150	06/20/22 15:49	06/21/22 22:56	1
4-Bromofluorobenzene (Surr)	107		68 - 152	06/20/22 15:49	06/21/22 22:56	1
Dibromofluoromethane (Surr)	113		53 - 142	06/20/22 15:49	06/21/22 22:56	1
Toluene-d8 (Surr)	99		70 - 130	06/20/22 15:49	06/21/22 22:56	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.4	U	50.7	21.4	mg/Kg	☼	06/21/22 11:00	06/22/22 03:38	1
>C12-C28	<21.4	U	50.7	21.4	mg/Kg	☼	06/21/22 11:00	06/22/22 03:38	1
>C28-C35	<21.4	U	50.7	21.4	mg/Kg	☼	06/21/22 11:00	06/22/22 03:38	1

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# Client Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

**Client Sample ID: B-20**

**Lab Sample ID: 830-2010-5**

Date Collected: 06/16/22 11:25

Matrix: Solid

Date Received: 06/16/22 11:58

Percent Solids: 98.1

Sample Depth: 10

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Petroleum Hydrocarbons (C6-C35)	<21.4	U	50.7	21.4	mg/Kg			06/21/22 15:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane (Surr)	82		70 - 130				06/21/22 11:00	06/22/22 03:38	1
o-Terphenyl (Surr)	89		70 - 130				06/21/22 11:00	06/22/22 03:38	1

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.23	J	3.58	0.551	mg/Kg	✱	06/29/22 16:47	06/29/22 22:12	10
Barium	21.7		3.58	0.310	mg/Kg	✱	06/29/22 16:47	06/29/22 22:12	10
Cadmium	<0.104	U	1.79	0.104	mg/Kg	✱	06/29/22 16:47	06/29/22 22:12	10
Chromium	2.76	J	3.58	0.242	mg/Kg	✱	06/29/22 16:47	06/29/22 22:12	10
Lead	2.39		1.79	0.173	mg/Kg	✱	06/29/22 16:47	06/29/22 22:12	10
Selenium	<0.444	U	1.79	0.444	mg/Kg	✱	06/29/22 16:47	06/29/22 22:12	10
Silver	<0.142	U	1.79	0.142	mg/Kg	✱	06/29/22 16:47	06/29/22 22:12	10

**Client Sample ID: B-20**

**Lab Sample ID: 830-2010-6**

Date Collected: 06/16/22 11:30

Matrix: Solid

Date Received: 06/16/22 11:58

Percent Solids: 97.6

Sample Depth: 15

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000212	U	0.00103	0.000212	mg/Kg	✱	06/20/22 15:49	06/21/22 14:46	1
Toluene	<0.00103	U	0.00513	0.00103	mg/Kg	✱	06/20/22 15:49	06/21/22 14:46	1
Ethylbenzene	<0.000345	U	0.00103	0.000345	mg/Kg	✱	06/20/22 15:49	06/21/22 14:46	1
m,p-Xylenes	<0.000821	U	0.00205	0.000821	mg/Kg	✱	06/20/22 15:49	06/21/22 14:46	1
o-Xylene	<0.00101	U	0.00103	0.00101	mg/Kg	✱	06/20/22 15:49	06/21/22 14:46	1
Xylenes, Total	<0.00101	U	0.00205	0.00101	mg/Kg	✱	06/20/22 15:49	06/21/22 14:46	1
MTBE	<0.000419	U	0.00513	0.000419	mg/Kg	✱	06/20/22 15:49	06/21/22 14:46	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	108		56 - 150				06/20/22 15:49	06/21/22 14:46	1
4-Bromofluorobenzene (Surr)	101		68 - 152				06/20/22 15:49	06/21/22 14:46	1
Dibromofluoromethane (Surr)	100		53 - 142				06/20/22 15:49	06/21/22 14:46	1
Toluene-d8 (Surr)	95		70 - 130				06/20/22 15:49	06/21/22 14:46	1

**Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.6	U	51.1	21.6	mg/Kg	✱	06/21/22 11:00	06/22/22 03:18	1
>C12-C28	<21.6	U	51.1	21.6	mg/Kg	✱	06/21/22 11:00	06/22/22 03:18	1
>C28-C35	<21.6	U	51.1	21.6	mg/Kg	✱	06/21/22 11:00	06/22/22 03:18	1
Total Petroleum Hydrocarbons (C6-C35)	<21.6	U	51.1	21.6	mg/Kg			06/21/22 15:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane (Surr)	89		70 - 130				06/21/22 11:00	06/22/22 03:18	1
o-Terphenyl (Surr)	95		70 - 130				06/21/22 11:00	06/22/22 03:18	1

# Client Sample Results

Client: ESSCO Environmental, Inc.  
 Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

**Client Sample ID: B-20**

**Lab Sample ID: 830-2010-6**

Date Collected: 06/16/22 11:30

Matrix: Solid

Date Received: 06/16/22 11:58

Percent Solids: 97.6

Sample Depth: 15

**Method: 6020A - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>1.36</b>	<b>J</b>	3.94	0.607	mg/Kg	✱	06/29/22 16:47	06/29/22 22:15	10
<b>Barium</b>	<b>36.3</b>		3.94	0.342	mg/Kg	✱	06/29/22 16:47	06/29/22 22:15	10
Cadmium	<0.114	U	1.97	0.114	mg/Kg	✱	06/29/22 16:47	06/29/22 22:15	10
<b>Chromium</b>	<b>4.53</b>		3.94	0.267	mg/Kg	✱	06/29/22 16:47	06/29/22 22:15	10
<b>Lead</b>	<b>3.04</b>		1.97	0.191	mg/Kg	✱	06/29/22 16:47	06/29/22 22:15	10
Selenium	<0.489	U	1.97	0.489	mg/Kg	✱	06/29/22 16:47	06/29/22 22:15	10
Silver	<0.156	U	1.97	0.156	mg/Kg	✱	06/29/22 16:47	06/29/22 22:15	10

# Surrogate Summary

Client: ESSCO Environmental, Inc.  
 Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (56-150)	BFB (68-152)	DBFM (53-142)	TOL (70-130)
830-2010-1	B-19	104	97	98	95
830-2010-2	B-19	105	104	118	97
830-2010-3	B-19	104	100	99	94
830-2010-4	B-20	106	98	97	95
830-2010-5	B-20	107	107	113	99
830-2010-6	B-20	108	101	100	95
LCS 860-57784/3	Lab Control Sample	101	102	101	94
LCS 860-57798/3	Lab Control Sample	111	115	112	103
LCSD 860-57784/4	Lab Control Sample Dup	100	99	99	97
LCSD 860-57798/4	Lab Control Sample Dup	110	113	111	101
MB 860-57784/9	Method Blank	106	97	100	94
MB 860-57798/8	Method Blank	115	103	111	99

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)  
 BFB = 4-Bromofluorobenzene (Surr)  
 DBFM = Dibromofluoromethane (Surr)  
 TOL = Toluene-d8 (Surr)

## Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO (70-130)	OTPH (70-130)
830-2010-1	B-19	92	98
830-2010-2	B-19	82	87
830-2010-3	B-19	87	95
830-2010-4	B-20	82	90
830-2010-5	B-20	82	89
830-2010-6	B-20	89	95
LCS 860-57677/2-A	Lab Control Sample	88	105
LCSD 860-57677/3-A	Lab Control Sample Dup	92	110
MB 860-57677/1-A	Method Blank	89	99

**Surrogate Legend**

1CO = 1-Chlorooctane (Surr)  
 OTPH = o-Terphenyl (Surr)

## QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

### Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-57784/9

Matrix: Solid

Analysis Batch: 57784

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Xylenes, Total	<0.000985	U	0.00200	0.000985	mg/Kg			06/21/22 12:31	1
m,p-Xylenes	<0.000800	U	0.00200	0.000800	mg/Kg			06/21/22 12:31	1
o-Xylene	<0.000985	U	0.00100	0.000985	mg/Kg			06/21/22 12:31	1
Benzene	<0.000207	U	0.00100	0.000207	mg/Kg			06/21/22 12:31	1
Ethylbenzene	<0.000336	U	0.00100	0.000336	mg/Kg			06/21/22 12:31	1
MTBE	<0.000409	U	0.00500	0.000409	mg/Kg			06/21/22 12:31	1
Toluene	<0.00100	U	0.00500	0.00100	mg/Kg			06/21/22 12:31	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	106		56 - 150		06/21/22 12:31	1
4-Bromofluorobenzene (Surr)	97		68 - 152		06/21/22 12:31	1
Dibromofluoromethane (Surr)	100		53 - 142		06/21/22 12:31	1
Toluene-d8 (Surr)	94		70 - 130		06/21/22 12:31	1

Lab Sample ID: LCS 860-57784/3

Matrix: Solid

Analysis Batch: 57784

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
m,p-Xylenes	0.0500	0.05055		mg/Kg		101	78 - 130
o-Xylene	0.0500	0.05085		mg/Kg		102	79 - 130
Benzene	0.0500	0.04792		mg/Kg		96	66 - 142
Ethylbenzene	0.0500	0.05038		mg/Kg		101	80 - 130
MTBE	0.0500	0.05269		mg/Kg		105	64 - 148
Toluene	0.0500	0.04527		mg/Kg		91	74 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		56 - 150
4-Bromofluorobenzene (Surr)	102		68 - 152
Dibromofluoromethane (Surr)	101		53 - 142
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCSD 860-57784/4

Matrix: Solid

Analysis Batch: 57784

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
m,p-Xylenes	0.0500	0.05077		mg/Kg		102	78 - 130	0	25
o-Xylene	0.0500	0.05195		mg/Kg		104	79 - 130	2	25
Benzene	0.0500	0.04782		mg/Kg		96	66 - 142	0	25
Ethylbenzene	0.0500	0.05048		mg/Kg		101	80 - 130	0	25
MTBE	0.0500	0.05580		mg/Kg		112	64 - 148	6	25
Toluene	0.0500	0.04707		mg/Kg		94	74 - 130	4	25

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		56 - 150
4-Bromofluorobenzene (Surr)	99		68 - 152

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-57784/4

Matrix: Solid

Analysis Batch: 57784

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	99		53 - 142
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: MB 860-57798/8

Matrix: Solid

Analysis Batch: 57798

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
cis-1,2-Dichloroethene	<0.000301	U	0.00500	0.000301	mg/Kg			06/21/22 16:11	1
Xylenes, Total	<0.000985	U	0.00200	0.000985	mg/Kg			06/21/22 16:11	1
cis-1,3-Dichloropropene	<0.000230	U	0.00500	0.000230	mg/Kg			06/21/22 16:11	1
Isopropylbenzene	<0.000174	U	0.00500	0.000174	mg/Kg			06/21/22 16:11	1
m,p-Xylenes	<0.000800	U	0.00200	0.000800	mg/Kg			06/21/22 16:11	1
n-Butylbenzene	<0.000274	U	0.00500	0.000274	mg/Kg			06/21/22 16:11	1
N-Propylbenzene	<0.000286	U	0.00500	0.000286	mg/Kg			06/21/22 16:11	1
o-Xylene	<0.000985	U	0.00100	0.000985	mg/Kg			06/21/22 16:11	1
p-Cymene (p-Isopropyltoluene)	<0.000319	U	0.00500	0.000319	mg/Kg			06/21/22 16:11	1
tert-Butylbenzene	<0.00128	U	0.00500	0.00128	mg/Kg			06/21/22 16:11	1
trans-1,2-Dichloroethene	<0.000434	U	0.00500	0.000434	mg/Kg			06/21/22 16:11	1
trans-1,3-Dichloropropene	<0.000909	U	0.00500	0.000909	mg/Kg			06/21/22 16:11	1
Vinyl chloride	<0.000441	U	0.00500	0.000441	mg/Kg			06/21/22 16:11	1
1,1,1,2-Tetrachloroethane	<0.000267	U	0.00500	0.000267	mg/Kg			06/21/22 16:11	1
1,1,1-Trichloroethane	<0.000503	U	0.00500	0.000503	mg/Kg			06/21/22 16:11	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00500	0.000470	mg/Kg			06/21/22 16:11	1
1,1,2-Trichloroethane	<0.000392	U	0.00500	0.000392	mg/Kg			06/21/22 16:11	1
1,1-Dichloroethane	<0.000376	U	0.00500	0.000376	mg/Kg			06/21/22 16:11	1
1,1-Dichloroethene	<0.000277	U	0.00500	0.000277	mg/Kg			06/21/22 16:11	1
1,1-Dichloropropene	<0.000448	U	0.00500	0.000448	mg/Kg			06/21/22 16:11	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/Kg			06/21/22 16:11	1
1,2,3-Trichloropropane	<0.000450	U	0.00500	0.000450	mg/Kg			06/21/22 16:11	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/Kg			06/21/22 16:11	1
1,2,4-Trimethylbenzene	<0.000255	U	0.00500	0.000255	mg/Kg			06/21/22 16:11	1
1,2-Dibromo-3-Chloropropane	<0.000704	U	0.00500	0.000704	mg/Kg			06/21/22 16:11	1
1,2-Dibromoethane	<0.00104	U	0.00500	0.00104	mg/Kg			06/21/22 16:11	1
1,2-Dichlorobenzene	<0.000288	U	0.00500	0.000288	mg/Kg			06/21/22 16:11	1
1,2-Dichloroethane	<0.000304	U	0.00500	0.000304	mg/Kg			06/21/22 16:11	1
1,2-Dichloropropane	<0.000198	U	0.00500	0.000198	mg/Kg			06/21/22 16:11	1
1,3,5-Trimethylbenzene	<0.000289	U	0.00500	0.000289	mg/Kg			06/21/22 16:11	1
1,3-Dichlorobenzene	<0.000273	U	0.00500	0.000273	mg/Kg			06/21/22 16:11	1
1,3-Dichloropropane	<0.000409	U	0.00500	0.000409	mg/Kg			06/21/22 16:11	1
1,4-Dichlorobenzene	<0.000214	U	0.00500	0.000214	mg/Kg			06/21/22 16:11	1
2,2-Dichloropropane	<0.000524	U	0.00500	0.000524	mg/Kg			06/21/22 16:11	1
2-Butanone	<0.00365	U	0.0200	0.00365	mg/Kg			06/21/22 16:11	1
4-Chlorotoluene	<0.000264	U	0.00500	0.000264	mg/Kg			06/21/22 16:11	1
Benzene	<0.000207	U	0.00100	0.000207	mg/Kg			06/21/22 16:11	1
Bromobenzene	<0.000346	U	0.00500	0.000346	mg/Kg			06/21/22 16:11	1
Bromochloromethane	<0.000526	U	0.00500	0.000526	mg/Kg			06/21/22 16:11	1
Bromodichloromethane	<0.000251	U	0.00500	0.000251	mg/Kg			06/21/22 16:11	1

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-57798/8

Matrix: Solid

Analysis Batch: 57798

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromoform	<0.00103	U	0.00500	0.00103	mg/Kg			06/21/22 16:11	1
Bromomethane	<0.000943	U	0.00500	0.000943	mg/Kg			06/21/22 16:11	1
Carbon tetrachloride	<0.00164	U	0.00500	0.00164	mg/Kg			06/21/22 16:11	1
Chlorobenzene	<0.000237	U	0.00500	0.000237	mg/Kg			06/21/22 16:11	1
Chloroethane	<0.000444	U	0.0100	0.000444	mg/Kg			06/21/22 16:11	1
Chloroform	<0.000173	U	0.00500	0.000173	mg/Kg			06/21/22 16:11	1
Chloromethane	<0.000431	U	0.00500	0.000431	mg/Kg			06/21/22 16:11	1
Dibromochloromethane	<0.000895	U	0.00500	0.000895	mg/Kg			06/21/22 16:11	1
Dichlorodifluoromethane	<0.00111	U	0.00500	0.00111	mg/Kg			06/21/22 16:11	1
Ethylbenzene	<0.000336	U	0.00100	0.000336	mg/Kg			06/21/22 16:11	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/Kg			06/21/22 16:11	1
MTBE	<0.000409	U	0.00500	0.000409	mg/Kg			06/21/22 16:11	1
Methylene Chloride	<0.00422	U	0.0200	0.00422	mg/Kg			06/21/22 16:11	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/Kg			06/21/22 16:11	1
sec-Butylbenzene	<0.000261	U	0.00500	0.000261	mg/Kg			06/21/22 16:11	1
Styrene	<0.000205	U	0.00500	0.000205	mg/Kg			06/21/22 16:11	1
Tetrachloroethene	<0.000370	U	0.00500	0.000370	mg/Kg			06/21/22 16:11	1
Toluene	<0.00100	U	0.00500	0.00100	mg/Kg			06/21/22 16:11	1
Trichloroethene	<0.000494	U	0.00500	0.000494	mg/Kg			06/21/22 16:11	1
Trichlorofluoromethane	<0.000307	U	0.00500	0.000307	mg/Kg			06/21/22 16:11	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	115		56 - 150		06/21/22 16:11	1
4-Bromofluorobenzene (Surr)	103		68 - 152		06/21/22 16:11	1
Dibromofluoromethane (Surr)	111		53 - 142		06/21/22 16:11	1
Toluene-d8 (Surr)	99		70 - 130		06/21/22 16:11	1

Lab Sample ID: LCS 860-57798/3

Matrix: Solid

Analysis Batch: 57798

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	0.0500	0.05152		mg/Kg		103	74 - 135
Isopropylbenzene	0.0500	0.04949		mg/Kg		99	55 - 155
m,p-Xylenes	0.0500	0.04766		mg/Kg		95	78 - 130
n-Butylbenzene	0.0500	0.05570		mg/Kg		111	82 - 130
N-Propylbenzene	0.0500	0.05382		mg/Kg		108	84 - 131
o-Xylene	0.0500	0.04913		mg/Kg		98	79 - 130
p-Cymene (p-Isopropyltoluene)	0.0500	0.05337		mg/Kg		107	84 - 130
tert-Butylbenzene	0.0500	0.05348		mg/Kg		107	83 - 132
trans-1,2-Dichloroethene	0.0500	0.04751		mg/Kg		95	63 - 130
trans-1,3-Dichloropropene	0.0500	0.05190		mg/Kg		104	73 - 130
Vinyl chloride	0.0500	0.05939		mg/Kg		119	60 - 130
1,1,1,2-Tetrachloroethane	0.0500	0.05005		mg/Kg		100	81 - 130
1,1,1-Trichloroethane	0.0500	0.05574		mg/Kg		111	71 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.05891		mg/Kg		118	75 - 133
1,1,2-Trichloroethane	0.0500	0.05505		mg/Kg		110	75 - 131

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-57798/3

Matrix: Solid

Analysis Batch: 57798

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1-Dichloroethane	0.0500	0.05309		mg/Kg		106	73 - 130
1,1-Dichloroethene	0.0500	0.04602		mg/Kg		92	68 - 130
1,1-Dichloropropene	0.0500	0.05286		mg/Kg		106	72 - 130
1,2,3-Trichlorobenzene	0.0500	0.04686		mg/Kg		94	75 - 131
1,2,3-Trichloropropane	0.0500	0.06002		mg/Kg		120	75 - 131
1,2,4-Trichlorobenzene	0.0500	0.04393		mg/Kg		88	79 - 130
1,2,4-Trimethylbenzene	0.0500	0.05357		mg/Kg		107	60 - 159
1,2-Dibromo-3-Chloropropane	0.0500	0.04804		mg/Kg		96	58 - 133
1,2-Dibromoethane	0.0500	0.05020		mg/Kg		100	73 - 130
1,2-Dichlorobenzene	0.0500	0.04711		mg/Kg		94	84 - 130
1,2-Dichloroethane	0.0500	0.05401		mg/Kg		108	70 - 130
1,2-Dichloropropane	0.0500	0.05195		mg/Kg		104	75 - 130
1,3,5-Trimethylbenzene	0.0500	0.05251		mg/Kg		105	61 - 160
1,3-Dichlorobenzene	0.0500	0.04795		mg/Kg		96	84 - 130
1,3-Dichloropropane	0.0500	0.05237		mg/Kg		105	82 - 131
1,4-Dichlorobenzene	0.0500	0.04738		mg/Kg		95	82 - 130
2,2-Dichloropropane	0.0500	0.05749		mg/Kg		115	67 - 137
2-Butanone	0.250	0.3256		mg/Kg		130	75 - 130
4-Chlorotoluene	0.0500	0.05400		mg/Kg		108	83 - 130
Benzene	0.0500	0.04815		mg/Kg		96	66 - 142
Bromobenzene	0.0500	0.04792		mg/Kg		96	75 - 130
Bromochloromethane	0.0500	0.05080		mg/Kg		102	71 - 130
Bromodichloromethane	0.0500	0.05428		mg/Kg		109	78 - 130
Bromoform	0.0500	0.04911		mg/Kg		98	63 - 136
Bromomethane	0.0500	0.07152	*+	mg/Kg		143	60 - 140
Carbon tetrachloride	0.0500	0.05172		mg/Kg		103	63 - 135
Chlorobenzene	0.0500	0.04725		mg/Kg		94	83 - 130
Chloroethane	0.0500	0.07245	*+	mg/Kg		145	57 - 130
Chloroform	0.0500	0.05813		mg/Kg		116	74 - 130
Chloromethane	0.0500	0.05463		mg/Kg		109	58 - 130
Dibromochloromethane	0.0500	0.05007		mg/Kg		100	77 - 130
Dichlorodifluoromethane	0.0500	0.05011		mg/Kg		100	54 - 130
Ethylbenzene	0.0500	0.04972		mg/Kg		99	80 - 130
Hexachlorobutadiene	0.0500	0.03845		mg/Kg		77	77 - 130
MTBE	0.0500	0.06008		mg/Kg		120	64 - 148
Methylene Chloride	0.0500	0.04775		mg/Kg		96	57 - 134
Naphthalene	0.0500	0.05491		mg/Kg		110	53 - 150
sec-Butylbenzene	0.0500	0.05351		mg/Kg		107	84 - 131
Styrene	0.0500	0.04923		mg/Kg		98	80 - 130
Tetrachloroethene	0.0500	0.04174		mg/Kg		83	79 - 130
Toluene	0.0500	0.04746		mg/Kg		95	74 - 130
Trichloroethene	0.0500	0.04469		mg/Kg		89	78 - 130
Trichlorofluoromethane	0.0500	0.06726		mg/Kg		135	71 - 148

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	111		56 - 150
4-Bromofluorobenzene (Surr)	115		68 - 152
Dibromofluoromethane (Surr)	112		53 - 142

# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-57798/3

Matrix: Solid

Analysis Batch: 57798

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	103		70 - 130

Lab Sample ID: LCSD 860-57798/4

Matrix: Solid

Analysis Batch: 57798

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits	RPD	Limit	
cis-1,2-Dichloroethene	0.0500	0.05544		mg/Kg		111	72 - 131	0	25	
cis-1,3-Dichloropropene	0.0500	0.05120		mg/Kg		102	74 - 135	1	25	
Isopropylbenzene	0.0500	0.04861		mg/Kg		97	55 - 155	2	25	
m,p-Xylenes	0.0500	0.04654		mg/Kg		93	78 - 130	2	25	
n-Butylbenzene	0.0500	0.05423		mg/Kg		108	82 - 130	3	25	
N-Propylbenzene	0.0500	0.05239		mg/Kg		105	84 - 131	3	25	
o-Xylene	0.0500	0.04835		mg/Kg		97	79 - 130	2	25	
p-Cymene (p-Isopropyltoluene)	0.0500	0.05207		mg/Kg		104	84 - 130	2	25	
tert-Butylbenzene	0.0500	0.05210		mg/Kg		104	83 - 132	3	25	
trans-1,2-Dichloroethene	0.0500	0.04507		mg/Kg		90	63 - 130	5	25	
trans-1,3-Dichloropropene	0.0500	0.05104		mg/Kg		102	73 - 130	2	25	
Vinyl chloride	0.0500	0.05955		mg/Kg		119	60 - 130	0	25	
1,1,1,2-Tetrachloroethane	0.0500	0.05002		mg/Kg		100	81 - 130	0	25	
1,1,1-Trichloroethane	0.0500	0.05624		mg/Kg		112	71 - 130	1	25	
1,1,2,2-Tetrachloroethane	0.0500	0.05868		mg/Kg		117	75 - 133	0	25	
1,1,2-Trichloroethane	0.0500	0.05417		mg/Kg		108	75 - 131	2	25	
1,1-Dichloroethane	0.0500	0.05287		mg/Kg		106	73 - 130	0	25	
1,1-Dichloroethene	0.0500	0.04635		mg/Kg		93	68 - 130	1	25	
1,1-Dichloropropene	0.0500	0.05217		mg/Kg		104	72 - 130	1	25	
1,2,3-Trichlorobenzene	0.0500	0.04510		mg/Kg		90	75 - 131	4	25	
1,2,3-Trichloropropane	0.0500	0.05872		mg/Kg		117	75 - 131	2	25	
1,2,4-Trichlorobenzene	0.0500	0.04298		mg/Kg		86	79 - 130	2	25	
1,2,4-Trimethylbenzene	0.0500	0.05265		mg/Kg		105	60 - 159	2	25	
1,2-Dibromo-3-Chloropropane	0.0500	0.04459		mg/Kg		89	58 - 133	7	25	
1,2-Dibromoethane	0.0500	0.04869		mg/Kg		97	73 - 130	3	25	
1,2-Dichlorobenzene	0.0500	0.04523		mg/Kg		90	84 - 130	4	25	
1,2-Dichloroethane	0.0500	0.05340		mg/Kg		107	70 - 130	1	25	
1,2-Dichloropropane	0.0500	0.05114		mg/Kg		102	75 - 130	2	25	
1,3,5-Trimethylbenzene	0.0500	0.05118		mg/Kg		102	61 - 160	3	25	
1,3-Dichlorobenzene	0.0500	0.04658		mg/Kg		93	84 - 130	3	25	
1,3-Dichloropropane	0.0500	0.05102		mg/Kg		102	82 - 131	3	25	
1,4-Dichlorobenzene	0.0500	0.04458		mg/Kg		89	82 - 130	6	25	
2,2-Dichloropropane	0.0500	0.05752		mg/Kg		115	67 - 137	0	25	
2-Butanone	0.250	0.3167		mg/Kg		127	75 - 130	3	25	
4-Chlorotoluene	0.0500	0.05250		mg/Kg		105	83 - 130	3	25	
Benzene	0.0500	0.04720		mg/Kg		94	66 - 142	2	25	
Bromobenzene	0.0500	0.04505		mg/Kg		90	75 - 130	6	25	
Bromochloromethane	0.0500	0.05087		mg/Kg		102	71 - 130	0	25	
Bromodichloromethane	0.0500	0.05305		mg/Kg		106	78 - 130	2	25	
Bromoform	0.0500	0.04829		mg/Kg		97	63 - 136	2	25	
Bromomethane	0.0500	0.07511	*+	mg/Kg		150	60 - 140	5	25	

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-57798/4

Matrix: Solid

Analysis Batch: 57798

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	0.0500	0.05042		mg/Kg		101	63 - 135	3	25
Chlorobenzene	0.0500	0.04623		mg/Kg		92	83 - 130	2	25
Chloroethane	0.0500	0.07399	*+	mg/Kg		148	57 - 130	2	25
Chloroform	0.0500	0.05654		mg/Kg		113	74 - 130	3	25
Chloromethane	0.0500	0.05345		mg/Kg		107	58 - 130	2	25
Dibromochloromethane	0.0500	0.05200		mg/Kg		104	77 - 130	4	25
Dichlorodifluoromethane	0.0500	0.05164		mg/Kg		103	54 - 130	3	25
Ethylbenzene	0.0500	0.04859		mg/Kg		97	80 - 130	2	25
Hexachlorobutadiene	0.0500	0.03741	*-	mg/Kg		75	77 - 130	3	25
MTBE	0.0500	0.05830		mg/Kg		117	64 - 148	3	25
Methylene Chloride	0.0500	0.04989		mg/Kg		100	57 - 134	4	25
Naphthalene	0.0500	0.05380		mg/Kg		108	53 - 150	2	25
sec-Butylbenzene	0.0500	0.05192		mg/Kg		104	84 - 131	3	25
Styrene	0.0500	0.04811		mg/Kg		96	80 - 130	2	25
Tetrachloroethene	0.0500	0.04037		mg/Kg		81	79 - 130	3	25
Toluene	0.0500	0.04612		mg/Kg		92	74 - 130	3	25
Trichloroethene	0.0500	0.04363		mg/Kg		87	78 - 130	2	25
Trichlorofluoromethane	0.0500	0.06563		mg/Kg		131	71 - 148	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	110		56 - 150
4-Bromofluorobenzene (Surr)	113		68 - 152
Dibromofluoromethane (Surr)	111		53 - 142
Toluene-d8 (Surr)	101		70 - 130

## Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Lab Sample ID: MB 860-57677/1-A

Matrix: Solid

Analysis Batch: 57650

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57677

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<21.1	U	50.0	21.1	mg/Kg		06/20/22 13:35	06/20/22 14:31	1
>C12-C28	<21.1	U	50.0	21.1	mg/Kg		06/20/22 13:35	06/20/22 14:31	1
>C28-C35	<21.1	U	50.0	21.1	mg/Kg		06/20/22 13:35	06/20/22 14:31	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130	06/20/22 13:35	06/20/22 14:31	1
o-Terphenyl (Surr)	99		70 - 130	06/20/22 13:35	06/20/22 14:31	1

Lab Sample ID: LCS 860-57677/2-A

Matrix: Solid

Analysis Batch: 57650

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C6-C12	999	874.8		mg/Kg		88	75 - 125
>C12-C28	998	1091		mg/Kg		109	75 - 125

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
 Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

## Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) (Continued)

**Lab Sample ID: LCS 860-57677/2-A**  
**Matrix: Solid**  
**Analysis Batch: 57650**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 57677**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane (Surr)	88		70 - 130
o-Terphenyl (Surr)	105		70 - 130

**Lab Sample ID: LCSD 860-57677/3-A**  
**Matrix: Solid**  
**Analysis Batch: 57650**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 57677**

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
C6-C12	999	920.3		mg/Kg		92	75 - 125	5	20	
>C12-C28	998	1154		mg/Kg		116	75 - 125	6	20	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane (Surr)	92		70 - 130
o-Terphenyl (Surr)	110		70 - 130

## Method: 6020A - Metals (ICP/MS)

**Lab Sample ID: MB 860-59159/1-A**  
**Matrix: Solid**  
**Analysis Batch: 59293**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 59159**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.0617	U	0.400	0.0617	mg/Kg		06/29/22 16:47	06/29/22 20:49	1
Barium	<0.0347	U	0.400	0.0347	mg/Kg		06/29/22 16:47	06/29/22 20:49	1
Cadmium	<0.0116	U	0.200	0.0116	mg/Kg		06/29/22 16:47	06/29/22 20:49	1
Chromium	<0.0271	U	0.400	0.0271	mg/Kg		06/29/22 16:47	06/29/22 20:49	1
Lead	<0.0194	U	0.200	0.0194	mg/Kg		06/29/22 16:47	06/29/22 20:49	1
Selenium	<0.0496	U	0.200	0.0496	mg/Kg		06/29/22 16:47	06/29/22 20:49	1
Silver	<0.0159	U	0.200	0.0159	mg/Kg		06/29/22 16:47	06/29/22 20:49	1

**Lab Sample ID: LCS 860-59159/2-A**  
**Matrix: Solid**  
**Analysis Batch: 59293**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 59159**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	RPD
Arsenic	9.80	9.145		mg/Kg		93	80 - 120	
Barium	9.80	8.859		mg/Kg		90	80 - 120	
Cadmium	9.80	9.523		mg/Kg		97	80 - 120	
Chromium	9.80	9.394		mg/Kg		96	80 - 120	
Lead	9.80	9.399		mg/Kg		96	80 - 120	
Selenium	9.80	8.957		mg/Kg		91	80 - 120	
Silver	4.90	4.852		mg/Kg		99	80 - 120	

**Lab Sample ID: LCSD 860-59159/3-A**  
**Matrix: Solid**  
**Analysis Batch: 59293**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 59159**

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
Arsenic	9.80	8.688		mg/Kg		89	80 - 120	5	20	

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# QC Sample Results

Client: ESSCO Environmental, Inc.  
 Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

## Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-59159/3-A  
 Matrix: Solid  
 Analysis Batch: 59293

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 59159

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Barium	9.80	8.683		mg/Kg		89	80 - 120	2	20
Cadmium	9.80	9.205		mg/Kg		94	80 - 120	3	20
Chromium	9.80	8.979		mg/Kg		92	80 - 120	5	20
Lead	9.80	9.318		mg/Kg		95	80 - 120	1	20
Selenium	9.80	8.553		mg/Kg		87	80 - 120	5	20
Silver	4.90	4.755		mg/Kg		97	80 - 120	2	20

## Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-58334/10-A  
 Matrix: Solid  
 Analysis Batch: 58529

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 58334

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00377	U	0.0196	0.00377	mg/Kg		06/24/22 07:54	06/24/22 17:55	1

Lab Sample ID: LCS 860-58334/11-A  
 Matrix: Solid  
 Analysis Batch: 58529

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 58334

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: LCSD 860-58334/12-A  
 Matrix: Solid  
 Analysis Batch: 58529

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 58334

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Mercury	0.192	0.1982		mg/Kg		103	80 - 120	0	20

# QC Association Summary

Client: ESSCO Environmental, Inc.  
 Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

## GC/MS VOA

### Prep Batch: 57702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2010-1	B-19	Total/NA	Solid	5035	
830-2010-2	B-19	Total/NA	Solid	5035	
830-2010-3	B-19	Total/NA	Solid	5035	
830-2010-4	B-20	Total/NA	Solid	5035	
830-2010-5	B-20	Total/NA	Solid	5035	
830-2010-6	B-20	Total/NA	Solid	5035	

### Analysis Batch: 57784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2010-1	B-19	Total/NA	Solid	8260C	57702
830-2010-3	B-19	Total/NA	Solid	8260C	57702
830-2010-4	B-20	Total/NA	Solid	8260C	57702
830-2010-6	B-20	Total/NA	Solid	8260C	57702
MB 860-57784/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-57784/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-57784/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

### Analysis Batch: 57798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2010-2	B-19	Total/NA	Solid	8260C	57702
830-2010-5	B-20	Total/NA	Solid	8260C	57702
MB 860-57798/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-57798/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-57798/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

## GC Semi VOA

### Analysis Batch: 57650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-57677/1-A	Method Blank	Total/NA	Solid	TX 1005	57677
LCS 860-57677/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	57677
LCSD 860-57677/3-A	Lab Control Sample Dup	Total/NA	Solid	TX 1005	57677

### Prep Batch: 57677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2010-1	B-19	Total/NA	Solid	TX_1005_S_Pre p	
830-2010-2	B-19	Total/NA	Solid	TX_1005_S_Pre p	
830-2010-3	B-19	Total/NA	Solid	TX_1005_S_Pre p	
830-2010-4	B-20	Total/NA	Solid	TX_1005_S_Pre p	
830-2010-5	B-20	Total/NA	Solid	TX_1005_S_Pre p	
830-2010-6	B-20	Total/NA	Solid	TX_1005_S_Pre p	
MB 860-57677/1-A	Method Blank	Total/NA	Solid	TX_1005_S_Pre p	
LCS 860-57677/2-A	Lab Control Sample	Total/NA	Solid	TX_1005_S_Pre p	
LCSD 860-57677/3-A	Lab Control Sample Dup	Total/NA	Solid	TX_1005_S_Pre p	

# QC Association Summary

Client: ESSCO Environmental, Inc.  
 Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

## GC Semi VOA

### Analysis Batch: 57748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2010-1	B-19	Total/NA	Solid	TX 1005	
830-2010-2	B-19	Total/NA	Solid	TX 1005	
830-2010-3	B-19	Total/NA	Solid	TX 1005	
830-2010-4	B-20	Total/NA	Solid	TX 1005	
830-2010-5	B-20	Total/NA	Solid	TX 1005	
830-2010-6	B-20	Total/NA	Solid	TX 1005	

### Analysis Batch: 57830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2010-1	B-19	Total/NA	Solid	TX 1005	57677
830-2010-2	B-19	Total/NA	Solid	TX 1005	57677
830-2010-3	B-19	Total/NA	Solid	TX 1005	57677
830-2010-4	B-20	Total/NA	Solid	TX 1005	57677
830-2010-5	B-20	Total/NA	Solid	TX 1005	57677
830-2010-6	B-20	Total/NA	Solid	TX 1005	57677

## Metals

### Prep Batch: 58334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-58334/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-58334/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-58334/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

### Analysis Batch: 58529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-58334/10-A	Method Blank	Total/NA	Solid	7471A	58334
LCS 860-58334/11-A	Lab Control Sample	Total/NA	Solid	7471A	58334
LCSD 860-58334/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	58334

### Prep Batch: 59159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2010-1	B-19	Total/NA	Solid	3051A	
830-2010-2	B-19	Total/NA	Solid	3051A	
830-2010-3	B-19	Total/NA	Solid	3051A	
830-2010-4	B-20	Total/NA	Solid	3051A	
830-2010-5	B-20	Total/NA	Solid	3051A	
830-2010-6	B-20	Total/NA	Solid	3051A	
MB 860-59159/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-59159/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-59159/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

### Analysis Batch: 59293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2010-1	B-19	Total/NA	Solid	6020A	59159
830-2010-2	B-19	Total/NA	Solid	6020A	59159
830-2010-3	B-19	Total/NA	Solid	6020A	59159
830-2010-4	B-20	Total/NA	Solid	6020A	59159
830-2010-5	B-20	Total/NA	Solid	6020A	59159
830-2010-6	B-20	Total/NA	Solid	6020A	59159
MB 860-59159/1-A	Method Blank	Total/NA	Solid	6020A	59159

# QC Association Summary

Client: ESSCO Environmental, Inc.  
Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

## Metals (Continued)

### Analysis Batch: 59293 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-59159/2-A	Lab Control Sample	Total/NA	Solid	6020A	59159
LCSD 860-59159/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	59159

## General Chemistry

### Analysis Batch: 58771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2010-1	B-19	Total/NA	Solid	Moisture	
830-2010-2	B-19	Total/NA	Solid	Moisture	
830-2010-3	B-19	Total/NA	Solid	Moisture	
830-2010-4	B-20	Total/NA	Solid	Moisture	
830-2010-5	B-20	Total/NA	Solid	Moisture	
830-2010-6	B-20	Total/NA	Solid	Moisture	
MB 860-58771/1	Method Blank	Total/NA	Solid	Moisture	
830-2010-1 DU	B-19	Total/NA	Solid	Moisture	

# Lab Chronicle

Client: ESSCO Environmental, Inc.  
Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

**Client Sample ID: B-19**

**Lab Sample ID: 830-2010-1**

Date Collected: 06/16/22 10:50

Matrix: Solid

Date Received: 06/16/22 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Analysis	Moisture		1			58771	06/27/22 14:13	JM	XEN STF

**Client Sample ID: B-19**

**Lab Sample ID: 830-2010-1**

Date Collected: 06/16/22 10:50

Matrix: Solid

Date Received: 06/16/22 11:58

Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57784	06/21/22 15:06	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.01 g	10 mL	57677	06/21/22 11:00	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57830	06/22/22 01:39	T1S	XEN STF
Total/NA	Prep	3051A			.53 g	50 mL	59159	06/29/22 16:47	PB	XEN STF
Total/NA	Analysis	6020A		10			59293	06/29/22 22:01	SHZ	XEN STF

**Client Sample ID: B-19**

**Lab Sample ID: 830-2010-2**

Date Collected: 06/16/22 11:00

Matrix: Solid

Date Received: 06/16/22 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Analysis	Moisture		1			58771	06/27/22 14:13	JM	XEN STF

**Client Sample ID: B-19**

**Lab Sample ID: 830-2010-2**

Date Collected: 06/16/22 11:00

Matrix: Solid

Date Received: 06/16/22 11:58

Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57798	06/21/22 22:34	KLV	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10 g	10 mL	57677	06/21/22 11:00	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57830	06/22/22 01:58	T1S	XEN STF
Total/NA	Prep	3051A			.54 g	50 mL	59159	06/29/22 16:47	PB	XEN STF
Total/NA	Analysis	6020A		10			59293	06/29/22 22:03	SHZ	XEN STF

**Client Sample ID: B-19**

**Lab Sample ID: 830-2010-3**

Date Collected: 06/16/22 11:05

Matrix: Solid

Date Received: 06/16/22 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Analysis	Moisture		1			58771	06/27/22 14:13	JM	XEN STF

# Lab Chronicle

Client: ESSCO Environmental, Inc.  
Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

## Client Sample ID: B-19

Lab Sample ID: 830-2010-3

Date Collected: 06/16/22 11:05

Matrix: Solid

Date Received: 06/16/22 11:58

Percent Solids: 96.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57784	06/21/22 14:05	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			9.99 g	10 mL	57677	06/21/22 11:00	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57830	06/22/22 02:38	T1S	XEN STF
Total/NA	Prep	3051A			.57 g	50 mL	59159	06/29/22 16:47	PB	XEN STF
Total/NA	Analysis	6020A		10			59293	06/29/22 22:06	SHZ	XEN STF

## Client Sample ID: B-20

Lab Sample ID: 830-2010-4

Date Collected: 06/16/22 11:20

Matrix: Solid

Date Received: 06/16/22 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Analysis	Moisture		1			58771	06/27/22 14:13	JM	XEN STF

## Client Sample ID: B-20

Lab Sample ID: 830-2010-4

Date Collected: 06/16/22 11:20

Matrix: Solid

Date Received: 06/16/22 11:58

Percent Solids: 97.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57784	06/21/22 14:25	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.06 g	10 mL	57677	06/21/22 11:00	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57830	06/22/22 02:58	T1S	XEN STF
Total/NA	Prep	3051A			.51 g	50 mL	59159	06/29/22 16:47	PB	XEN STF
Total/NA	Analysis	6020A		10			59293	06/29/22 22:09	SHZ	XEN STF

## Client Sample ID: B-20

Lab Sample ID: 830-2010-5

Date Collected: 06/16/22 11:25

Matrix: Solid

Date Received: 06/16/22 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Analysis	Moisture		1			58771	06/27/22 14:13	JM	XEN STF

## Client Sample ID: B-20

Lab Sample ID: 830-2010-5

Date Collected: 06/16/22 11:25

Matrix: Solid

Date Received: 06/16/22 11:58

Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57798	06/21/22 22:56	KLV	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.05 g	10 mL	57677	06/21/22 11:00	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57830	06/22/22 03:38	T1S	XEN STF

Eurofins El Paso



# Lab Chronicle

Client: ESSCO Environmental, Inc.  
Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

## Client Sample ID: B-20

Date Collected: 06/16/22 11:25

Date Received: 06/16/22 11:58

## Lab Sample ID: 830-2010-5

Matrix: Solid

Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.57 g	50 mL	59159	06/29/22 16:47	PB	XEN STF
Total/NA	Analysis	6020A		10			59293	06/29/22 22:12	SHZ	XEN STF

## Client Sample ID: B-20

Date Collected: 06/16/22 11:30

Date Received: 06/16/22 11:58

## Lab Sample ID: 830-2010-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TX 1005		1			57748	06/21/22 15:52	DD	XEN STF
Total/NA	Analysis	Moisture		1			58771	06/27/22 14:13	JM	XEN STF

## Client Sample ID: B-20

Date Collected: 06/16/22 11:30

Date Received: 06/16/22 11:58

## Lab Sample ID: 830-2010-6

Matrix: Solid

Percent Solids: 97.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	57702	06/20/22 15:49	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	57784	06/21/22 14:46	MTMG	XEN STF
Total/NA	Prep	TX_1005_S_Prep			10.02 g	10 mL	57677	06/21/22 11:00	SYH	XEN STF
Total/NA	Analysis	TX 1005		1			57830	06/22/22 03:18	T1S	XEN STF
Total/NA	Prep	3051A			.52 g	50 mL	59159	06/29/22 16:47	PB	XEN STF
Total/NA	Analysis	6020A		10			59293	06/29/22 22:15	SHZ	XEN STF

**Laboratory References:**

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

# Accreditation/Certification Summary

Client: ESSCO Environmental, Inc.  
Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

## Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-22-46	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Solids

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Method Summary

Client: ESSCO Environmental, Inc.  
Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	TCEQ	XEN STF
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
Moisture	Percent Moisture	EPA	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
5035	Closed System Purge and Trap	SW846	XEN STF
7471A	Preparation, Mercury	SW846	XEN STF
TX_1005_S_Prep	Extraction - Texas Total petroleum Hyrdocarbons	TCEQ	XEN STF

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TCEQ = Texas Commission of Environmental Quality

**Laboratory References:**

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

# Sample Summary

Client: ESSCO Environmental, Inc.  
Project/Site: Boone Siphon B&C -22-01

Job ID: 830-2010-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
830-2010-1	B-19	Solid	06/16/22 10:50	06/16/22 11:58	5
830-2010-2	B-19	Solid	06/16/22 11:00	06/16/22 11:58	10
830-2010-3	B-19	Solid	06/16/22 11:05	06/16/22 11:58	15
830-2010-4	B-20	Solid	06/16/22 11:20	06/16/22 11:58	5
830-2010-5	B-20	Solid	06/16/22 11:25	06/16/22 11:58	10
830-2010-6	B-20	Solid	06/16/22 11:30	06/16/22 11:58	15

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Sampler	Lab P/N:	Carrier Tracking No(s):	COC No:											
Client Contact: Shipping/Receiving		Phone:	Taylor Holly	State of Origin:	830-673.1											
Company: Eurofins Environment Testing South Cent		E-Mail:	Holly Taylor@et.eurofins.com	Page 1 of 1												
Address: 4145 Greenbriar Dr		Due Date Requested:	Accreditations Required (See note): NELAP Texas													
City: Stafford	State, Zip TX, 77477	TAT Requested (days):	Job #: 830-2010-1													
Phone: 281-240-4200(Tel)	PO #:		Preservation Codes: M Hexane N None O Acetone P Na2O4S Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Y Trizma Z other (specify)													
Email:	WO #:		Other:													
Project #: 83000024																
Site: Boone Siphon B&C -22-01																
<b>Sample Identification</b>	<b>Client ID (Lab ID)</b>	<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=Comp, G=grab)</b>	<b>Matrix (w=water, s=solid, o=wastoil, at=air-tissue, A=Air)</b>	<b>Preservation Code:</b>	<b>Field Filtered Sample (Yes or No)</b>	<b>Form MS/MSD (Yes or No)</b>	<b>TX 1005_Calc</b>	<b>6020/3051A RCRA 8 (excl. Hg)</b>	<b>7471A/7471A_Prep</b>	<b>8260/6036FP_Calc (MOD) BTEX and MTBE</b>	<b>8270/3580A Polyethylene Aromatic Hydrocarbons (PAHs) (Hold)</b>	<b>8260/6036FP_Calc Full List VOCs</b>	<b>Total Number of Containers</b>	<b>Special Instructions/Note:</b>
B-19 (830-2010-1)		6/16/22	10:50 Mountain	Solid	Solid		X	X	X	X	X	X	X	X	1	
B-19 (830-2010-2)		6/16/22	11:00 Mountain	Solid	Solid		X	X	X	X	X	X	X	X	2	
B-19 (830-2010-3)		6/16/22	11:05 Mountain	Solid	Solid		X	X	X	X	X	X	X	X	1	
B-20 (830-2010-4)		6/16/22	11:20 Mountain	Solid	Solid		X	X	X	X	X	X	X	X	1	
B-20 (830-2010-5)		6/16/22	11:25 Mountain	Solid	Solid		X	X	X	X	X	X	X	X	2	
B-20 (830-2010-6)		6/16/22	11:30 Mountain	Solid	Solid		X	X	X	X	X	X	X	X	1	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte &amp; accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.</p>																
<p><b>Possible Hazard Identification</b>                  Unconfirmed                  Deliverable Requested: I II III, IV Other (specify) Primary Deliverable Rank: 2                  Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months                  Special Instructions/QC Requirements:</p>																
<p>Empty Kit Relinquished by: _____ Date: _____ Method of Shipment: _____                  Relinquished by: <i>[Signature]</i> Date/Time: 6/16/22 10:00 Company: _____                  Relinquished by: <i>[Signature]</i> Date/Time: 6/16/22 11:02 Company: <i>Ex</i>                  Relinquished by: _____ Date/Time: _____ Company: _____                  Custody Seals Intact: _____ Custody Seal No. _____                  Cooler Temperature(s) °C and Other Remarks: Temp: 21.2 IR ID: HOU-332                  C/F: -0.2 Corrected Temp: 21.0 36/08/2021</p>																



## Login Sample Receipt Checklist

Client: ESSCO Environmental, Inc.

Job Number: 830-2010-1

**Login Number: 2010**

**List Number: 1**

**Creator: Aparicio, Niria**

**List Source: Eurofins El Paso**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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 <6mm (1/4").	N/A	



## Login Sample Receipt Checklist

Client: ESSCO Environmental, Inc.

Job Number: 830-2010-1

**Login Number: 2010**  
**List Number: 2**  
**Creator: Palmar, Pedro**

**List Source: Eurofins Houston**  
**List Creation: 06/20/22 01:08 PM**

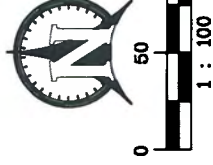
Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	21.2
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?	False	
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 <6mm (1/4").	True	





## **APPENDIX III**

**SUMMARY OF ANALYTICAL RESULTS & BORING PLAN - LIMITED  
ESA II - MAY 2020**



**LEGEND**

**SB-3**  
 Soil Boring Location

**NOTES:**

1. Soil Boring Locations are Graphical Representations only. Locations Selected by CQC.
2. Tables 1 and 2 Present Analytical Concentrations. See Accompanying Report.
3. Environmental Impact Concentrations Depicted Next to Soil Borings Represent Concentrations Exceeding Screening Levels (TPH) and TCEQ PCLs (Mercury). See Accompanying Report for Detailed Information.

**TABLE 1 - SUMMARY OF TPH**

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE DEPTH (ft)	TPH (C6-C12) [TX-1005] (mg/kg)	TPH (C12-C28) [TX-1005] (mg/kg)	TPH (C28-C35) [TX-1005] (mg/kg)	TPH (Total) (C6-C35) [TX-1005] (mg/kg)
<b>TIER 1 RESIDENTIAL (TotalSoil<sub>comb</sub>)</b>			1600	2300	2300	2500
<b>TIER 1 COMMERCIAL (TotalSoil<sub>comb</sub>)</b>			3900	12000	12000	12000
SB1	4/14/2020	2.5	<49.9	60.2	<49.9	60.2
SB1	4/14/2020	5.0	<49.4	304	<49.4	304
SB1	4/14/2020	15.0	<49.8	<49.8	<49.8	<49.8
SB2	4/14/2020	10.0	<49.8	<49.8	<49.8	<49.8
SB3	4/14/2020	2.5	<49.7	114	123	237
SB3	4/14/2020	5.0	<49.9	<49.9	<49.9	<49.9
SB4	4/14/2020	2.5	<50.0	<50.0	<50.0	<50.0
SB5	4/14/2020	10.0	<50.0	<50.0	<50.0	<50.0

**TABLE 2 - SUMMARY OF RCRA 8 METALS**

SAMPLE DESIGNATION	SAMPLE DATE	SAMPLE DEPTH (ft)	Lead (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Mercury (mg/kg)
<b>TEXAS-SPECIFIC BACKGROUND:</b>										
<b>TIER 1 RESIDENTIAL (TotalSoil<sub>comb</sub>):</b>										
TIER 1 COMMERCIAL (TotalSoil <sub>comb</sub> ):	SB1	4/14/2020	12.1	3.5	89.2	<1.89	7.56	<1.89	<1.89	<0.02
	SB1	4/14/2020	500	<1.82	29	<1.82	4.9	<1.82	<1.82	<0.0167
	SB1	4/14/2020	1600	<2.00	27.2	<2.00	<4.00	<2.00	<2.00	<0.0169
	SB2	4/14/2020	3.28	<1.82	35.5	<1.82	3.71	<1.82	<1.82	<0.0179
	SB3	4/14/2020	326	<1.79	188	<1.79	16.1	<1.79	<1.79	5.57
	SB3	4/14/2020	12.8	1.98	78.6	<1.92	9.33	<1.92	<1.92	<0.0185
	SB4	4/14/2020	5.98	2.68	92.5	<1.89	4.97	<1.89	<1.89	<0.0185
	SB5	4/14/2020	23.7	2.31	42.1	<1.92	5.37	<1.92	<1.92	<0.0169



*Emile G. Couroux*  
 7/20/2020

**Limited Environmental Site Assessment  
 Shelter Place and 4321 Delta Drive  
 El Paso, Texas**

**Site Plan & Environmental Impact Map**

Revisions

July 20, 2020 - EGC

Sheet No.

**3 OF 3**

Project No. CQC-20-01  
 Date: July 2020  
 Scale: MTS  
 dwg by: ESSCO  
 designed by: ESSCO

