Leighton Consulting, Inc.
A LEIGHTON GROUP COMPANY

December 21, 2020

Project No. 12441.034

Long Beach Unified School District
Facilities Development and Planning Branch
2425 Webster Avenue
Long Beach, California 90810

Attention: Ms. Talitha Crain

**Subject: Waste Pre-Characterization Sampling**
**Wilson High School**
**4400 East 10th Street**
**Long Beach, California 90804**

## Introduction

Leighton Consulting, Inc. (Leighton Consulting) provides this memorandum to the Long Beach Unified School District (the District or LBUSD) to convey analytical results for soil samples collected at Wilson High School located at 4400 East 10th Street, Long Beach, California ("Site") (Figure 1, Site Location Map). Samples were collected per the District's request in order to provide analytical results for waste pre-characterization purposes in support of construction activities at the Site. Leighton Consulting understands that planned construction at the Site includes a new aquatics system and is estimated to generate up to 10,600 cubic yards (CY) of soil for disposal or possible reuse onsite. The work area is reported to be 27,225 square feet in size with a variable depth of excavation ranging between approximately 3.5 to 9 feet below ground surface (bgs). The construction area and boring locations are shown on Figure 2, Boring Location Map.

The assessment was performed in general conformance with the Department of Toxic Substances Control (DTSC) Information Advisory Clean Imported Fill Material (DTSC, 2001).

## Site Visit

Leighton Consulting contacted Underground Service Alert at least two full business days prior to the commencement of field activities to identify underground utilities. Onsite pavement coring and soil sampling activities were conducted on November 24, 2020, by Millennium Environmental with oversight by Leighton Consulting.

## Soil Sampling and Analyses

Ten soil samples were collected from five soil borings (identified as WHS1 through WHS5, Figure 2). A portable coring machine was used to remove the asphalt pavement at each location and a hand auger was used to collect the samples. Soils were screened for volatile organic compounds (VOCs) using a photoionization detector (PID). Leighton Consulting field staff recorded sample location observations, soil description, and PID readings on the attached Soil Sample Log form.

Soil samples were collected at depths of 0.5 and 2.5 feet bgs from borings WHS1, WHS2, and WHS5, and at depths of 0.5, 2.5, and 5.0 feet bgs from borings WHS3 and WHS4. The soil samples were placed into laboratory-supplied, 8-ounce glass jars with Teflon-lined lids. The US Environmental Protection Agency (EPA) Method 5035 field methanol preservation procedure was used to collect and preserve the two samples analyzed for VOCs and total petroleum hydrocarbons (TPH) as gasoline range organics (GRO). No significant VOC concentrations were identified based on PID soil screening; therefore, the samples selected for VOC and GRO analysis were selected at random. The soil primarily consisted of interbedded brown silty sand, clayey sand, and sandy clay, and was observed to be free of debris, odor, or staining.

Non-dedicated equipment was decontaminated before and after each sample was collected using a three stage wash of phosphate-free laboratory grade detergent and water, a potable water rinse, and a distilled water rinse. The borings were backfilled with the soil cuttings and the surface was completed to match the surrounding surface.

The soil samples were transported in an ice-chilled sample cooler under standard chain-of-custody protocol to Enthalpy Analytical Laboratory in Orange, California. Enthalpy is a California Department of Health Services accredited analytical laboratory.

The soil samples were analyzed for Title 22 metals by EPA Method 6010B and 7471A and TPH as diesel range organics (DRO) and oil range organics (ORO) by EPA Method 8015B. The 0.5 foot samples were analyzed for organochlorine pesticides (OCPs) by

EPA Method 8081A. Two samples were analyzed for VOCs and GRO by EPA Methods 5035/8260B. One sample was analyzed for semi-volatile organic compounds (SVOCs) by EPA Method 8270C and polychlorinated biphenyls (PCBs) by EPA Method 8082. Based on the initial results, two additional samples were analyzed for PCBs.

## Analytical Results

Analytical results from the above-mentioned sampling activities are summarized in Tables 1 and 2. The laboratory report is included as an attachment. The analytical results were compared to conservative, risk-based screening levels, including the EPA Regional Screening Levels (RSLs; EPA, 2020), the Department of Toxic Substances Control (DTSC)-modified Screening Levels (DTSC-SLs; DTSC, 2020), and/or the San Francisco Bay Regional Water Quality Control Board (SFB-RWQCB) Environmental Screening Levels (ESLs, January 2019). The analytical results were also compared to state and federal hazardous waste criteria.

Concentrations of Title 22 metals detected in the samples analyzed were below their respective hazardous waste criteria, and were below their respective RSL and DTSC-SL for residential property, with the exception of arsenic. Arsenic is naturally occurring and the concentrations detected at the Site (maximum 5.6 mg/kg in WHS1-0.5) were well below the DTSC background level of 12 mg/kg for arsenic in southern California.

DRO was detected in one sample, WHS1-0.5, at a concentration of 25 mg/kg, below the ESL of 260 mg/kg. ORO was detected in one sample, WHS1-0.5 at a concentration of 61 mg/kg, below the ESL of 12,000 mg/kg. The DRO and ORO concentrations detected onsite are below regulatory screening limits.

PCBs were not detected in the samples analyzed with the exception of Aroclor 1254 at a concentration of 87 micrograms per kilogram (µg/kg) in WHS3-2.5, below the ESL of 230 µg/kg and the RSL and DTSC-SL of 240 µg/kg. PCBs were not detected above the laboratory report limits in the 0.5 foot or 5.0 foot samples from boring WHS3.

GRO, VOCs, OCPs, and SVOCs were not detected above the laboratory reporting limits in the samples analyzed (Table 2). Individual analytes and associated laboratory reporting limits can be found in the attached laboratory analytical report.

## Conclusions and Recommendations

Based on a comparison of soil analytical results to federal and state waste characterization criteria, the samples will likely be classified as non-hazardous. Some landfills may require segregation of soil or additional analyses for acceptance and the contractor should verify acceptance criteria with the individual landfill prior to transport.

In general, observations should be made during the proposed soil disturbance for areas of possible contamination such as, but not limited to, the presence of underground facilities, buried debris, waste drums, tanks, stained soil or odorous soils. Should such materials be encountered, further investigation and analysis may be necessary at that time.

If you have questions and/or comments regarding this report, please contact the undersigned at our Irvine office at (949) 250-1421, ext. 4208.


Respectfully Submitted,

LEIGHTON CONSULTING, INC.

Meredith Church

Meredith Church, PG 8326
Associate Geologist

Attachments: References
Figure 1 – Site Location Map
Figure 2 – Boring Location Map
Table 1 – Summary of Laboratory Results in Soil for Title 22 Metals
Table 2 – Summary of Laboratory Results in Soil for TPH, OCPs, VOCs, SVOCs, and PCBs
Soil Sample Log
Laboratory Analytical Report

Distribution: (1 PDF) Addressee



Leighton

## References

California Environmental Protection Agency (CalEPA), Department of Toxic Substances Control, 2001, *Information Advisory Clean Imported Fill Material,* Dated October 2001.

California Environmental Protection Agency Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO), 2020, *Human Health Risk Assessment Note 3 – DTSC Modified Screening Levels (DTSC-SLs), http://www.dtsc.ca.gov/assessingrisk/humanrisk2.cfm*, dated June 2020.

Department of Toxic Substances Control (DTSC), 2008, Determination of a Southern California Regional Background Arsenic Concentration in Soil, http://www.dtsc.ca.gov/ upload/Background-Arsenic.pdf, dated 2008.

San Francisco Bay Regional Water Quality Control Board, Environmental Screening Levels, dated January 2019.

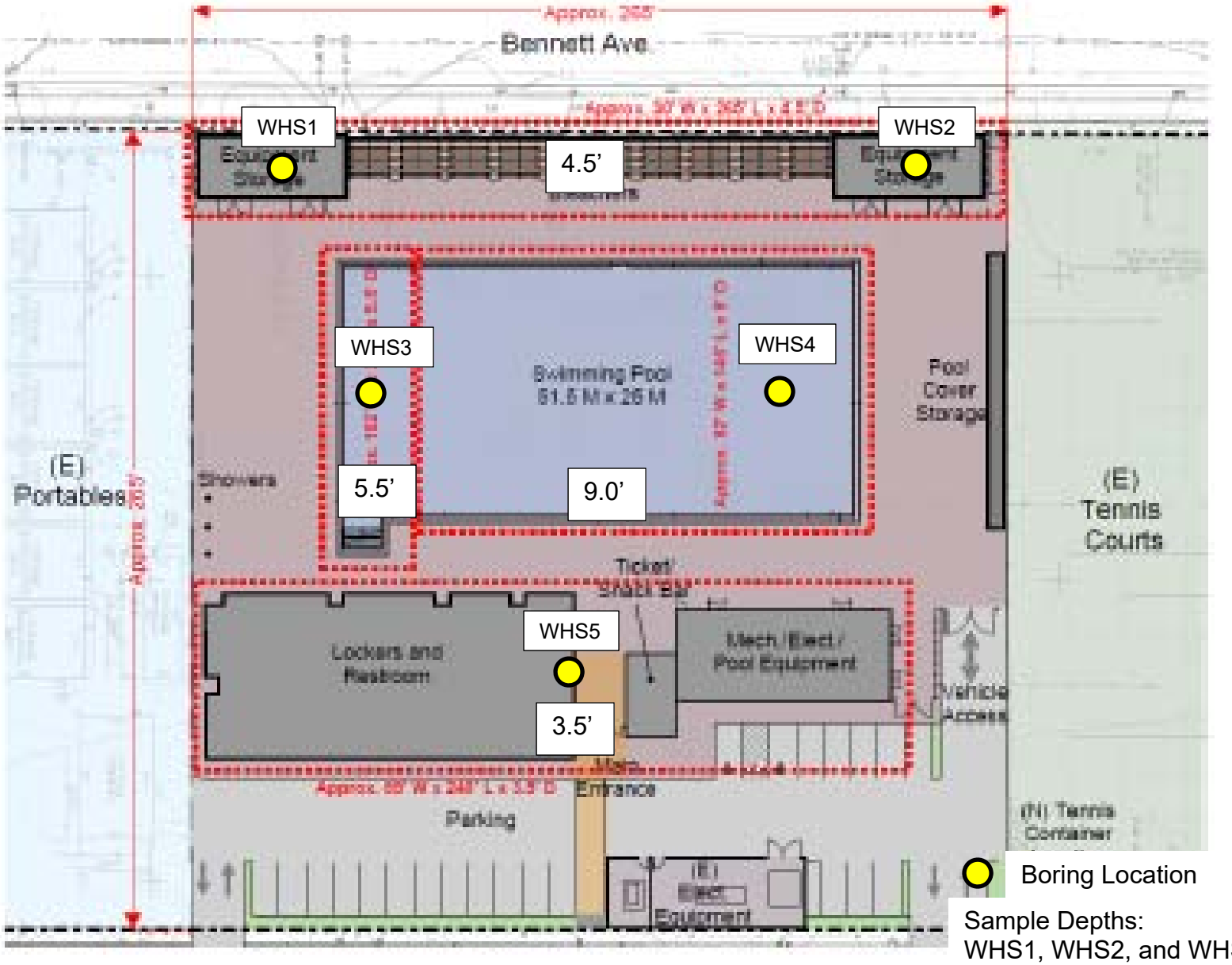
United States Environmental Protection Agency, 2020, Regional Screening Levels, Residential Soil Tables (TR-1E-06, THQ=1.0), Dated May 2020, https://semspub.epa.gov/work/03/2245073.pdf.

# FIGURES

Figure 1, Site Location Map
Wilson High School, 4400 East 10th Street, Long Beach, CA 90804


North

Figure 2, Boring Location Map
Wilson High School, 4400 East 10th Street, Long Beach, CA 90804




Sample Depths:
WHS1, WHS2, and WHS5 – 0.5 & 2.5
WHS3 and WHS4 – 0.5, 2.5 and 5.0

Expected excavation depth depicted on figure

# TABLES – LABORATORY RESULTS

**TABLE 1**
**Summary of Laboratory Results in Soil for Title 22 Metals**
**Wilson High School, 4400 East 10th Street, Long Beach, California**

| Sample ID | Sample Date | Title 22 Metals by EPA Method 6010B/7471A (mg/kg) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium (Total) | Cobalt | Copper | Lead | Mercury | Molybdenum | Nickel | Selenium | Silver | Thallium | Vanadium | Zinc |
| **USEPA RSL Residential Soil** | | 31 | 0.68 | 15,000 | 160 | 71 | 120,000 | 23 | 3,100 | 400 | 11 | 390 | 1,500 | 390 | 390 | 0.78 | 390 | 23,000 |
| **DTSC-SL Residential Soil** | | -- | 0.11 | -- | 16 | 71 | -- | -- | -- | 80 [1] | 1.0 | -- | 820 | -- | -- | -- | -- | -- |
| **DTSC Background Limits for School Properties (2008)** | | -- | 12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **TTLC (mg/kg)** | | 500 | 500 | 10,000 | 75 | 100 | 2,500 | 8,000 | 2,500 | 1,000 | 20 | 500 | 2,000 | 100 | 500 | 700 | 2,400 | 5,000 |
| **10X STLC (mg/kg)** | | 150 | 50 | 1,000 | 7.5 | 10 | 50 | 800 | 250 | 50 | 2 | 50 | 200 | 10 | 50 | 70 | 240 | 2,500 |
| **STLC/TCLP (mg/L)** | | 15 | 5 | 100 | 0.75 | 1 | 5 | 80 | 25 | 5 | 0.2 | 5 | 20 | 1 | 5 | 7 | 24 | 250 |
| WHS1-0.5 | 11/24/20 | <3.1 | **5.6** | **110** | **0.54** | <0.51 | **23** | **6.8** | **18** | **18** | <0.13 | <1.0 | **16** | <3.1 | <0.51 | <3.1 | **36** | **99** |
| WHS1-2.5 | 11/24/20 | <3.0 | **3.5** | **140** | **0.66** | <0.50 | **26** | **8.5** | **18** | **6.6** | <0.13 | <1.0 | **19** | <3.0 | <0.50 | <3.0 | **44** | **55** |
| WHS2-0.5 | 11/24/20 | <2.7 | **3.5** | **93** | **0.46** | <0.45 | **20** | **6.9** | **14** | **9** | <0.13 | <0.90 | **14** | <2.7 | <0.45 | <2.7 | **36** | **98** |
| WHS2-2.5 | 11/24/20 | <2.8 | **2.5** | **84** | <0.46 | <0.46 | **18** | **5.8** | **13** | **5** | <0.12 | <0.93 | **11** | <2.8 | <0.46 | <2.8 | **32** | **43** |
| WHS3-0.5 | 11/24/20 | <3.1 | **2.6** | **82** | <0.52 | <0.52 | **10** | **3.7** | **10** | **11** | <0.14 | <1.0 | **9.1** | <3.1 | <0.52 | <3.1 | **20** | **42** |
| WHS3-2.5 | 11/24/20 | <2.9 | **5.2** | **100** | **0.66** | <0.49 | **26** | **8.7** | **20** | **6.1** | <0.14 | <0.97 | **21** | <2.9 | <0.49 | <2.9 | **46** | **55** |
| WHS4-0.5 | 11/24/20 | <2.7 | **5.5** | **150** | <0.45 | <0.45 | **14** | **4.9** | **23** | **16** | <0.14 | <0.91 | **13** | <2.7 | <0.45 | <2.7 | **28** | **69** |
| WHS4-2.5 | 11/24/20 | <2.7 | **2.4** | **74** | <0.45 | <0.45 | **16** | **4.9** | **12** | **4.2** | <0.13 | <0.90 | **10** | <2.7 | <0.45 | <2.7 | **29** | **36** |
| WHS5-0.5 | 11/24/20 | <3.0 | **4** | **150** | <0.51 | <0.51 | **11** | **3.4** | **19** | **12** | <0.13 | <1.0 | **9.5** | <3.0 | <0.51 | <3.0 | **20** | **66** |
| WHS5-2.5 | 11/24/20 | <3.0 | **3.1** | **75** | <0.50 | <0.50 | **17** | **5.4** | **13** | **5.5** | <0.12 | <1.0 | **12** | <3.0 | <0.50 | <3.0 | **30** | **43** |

**Notes:**
1. For lead in soil, DTSC recommends that a 95% upper confidence limit on the arithmetic mean calculated to be 80 mg/kg or less is protective of human health.
2. The Soluble Threshold Leaching Concentration (STLC) reported for lead is shown in brackets and is in milligrams per liter (mg/L)
**Bold** values represent detected concentrations above the laboratory reporting limit
RSLs = USEPA Regional Screening Levels, Updated May 2020, Criteria selected: Residential soil,
DTSC-SL = Department of Toxic Substances Control (DTSC)-modified screening levels; updated June 2020.

**Acronyms/Abbreviations:**

| | | | |
|---|---|---|---|
| mg/kg | milligram per kilogram | * | Chromium III RSL |
| -- | Not analyzed or no published value | | |
| <1.0 | Analyte not detected above the referenced reporting limit | | |

**TABLE 2**

**Summary of Laboratory Results in Soil for TPH, OCPs, VOCs, SVOCs, and PCBs**

**Wilson High School, 4400 East 10th Street, Long Beach, California**

| Sample ID | Sample Date | TPH GRO by EPA 8260B TPH DRO/ORO by EPA 8015M (mg/kg) | | | OCPs by EPA 8081A (µg/kg) | VOCs by EPA 8260B (µg/kg) | SVOCs by EPA 8270C (µg/kg) | PCBs by EPA 8082 (µg/kg) | |
|---|---|---|---|---|---|---|---|---|---|
| | | GRO (C6-C12) | DRO (C10-C28) | ORO (C28-C44) | All OCPs | Other VOCs | All SVOCs | Aroclor 1254 | Other PCBs |
| **RSL Residential Soil** | | -- | -- | -- | Varies | Varies | Varies | 240 | Varies |
| **DTSC-SL Residential Soil** | | -- | -- | -- | Varies | Varies | Varies | 240 | Varies |
| **ESLs Residential Soil** | | 430 | 260 | 12,000 | Varies | Varies | Varies | 230 | Varies |
| WHS1-0.5 | 11/24/20 | -- | **25** | **61** | ND | -- | -- | -- | -- |
| WHS1-2.5 | 11/24/20 | -- | ND<10 | ND<20 | -- | -- | -- | -- | -- |
| WHS2-0.5 | 11/24/20 | -- | ND<50 | ND<100 | ND | -- | -- | -- | -- |
| WHS2-2.5 | 11/24/20 | ND<0.086 | ND<10 | ND<20 | -- | ND | -- | -- | -- |
| WHS3-0.5 | 11/24/20 | -- | ND<100 | ND<200 | ND | -- | -- | ND<250 | -- |
| WHS3-2.5 | 11/24/20 | ND<0.083 | ND<10 | ND<20 | -- | ND | ND | **87** | ND |
| WHS3-5.0 | 11/24/20 | -- | -- | -- | -- | -- | -- | ND<50 | -- |
| WHS4-0.5 | 11/24/20 | -- | ND<100 | ND<200 | ND | -- | -- | -- | -- |
| WHS4-2.5 | 11/24/20 | -- | ND<10 | ND<20 | -- | -- | -- | -- | -- |
| WHS5-0.5 | 11/24/20 | -- | ND<99 | ND<200 | ND | -- | -- | -- | -- |
| WHS5-2.5 | 11/24/20 | -- | ND<10 | ND<20 | -- | -- | -- | -- | -- |

**Notes:**

**Bold** values represent detected concentrations above the laboratory detection limit

RSLs = USEPA Regional Screening Levels, Updated May 2020, Criteria selected: Residential soil,

**TABLE 2**

**Summary of Laboratory Results in Soil for TPH, OCPs, VOCs, SVOCs, and PCBs**

**Wilson High School, 4400 East 10th Street, Long Beach, California**

| Sample ID | Sample Date | TPH GRO by EPA 8260B TPH DRO/ORO by EPA 8015M (mg/kg) | | | OCPs by EPA 8081A (µg/kg) | VOCs by EPA 8260B (µg/kg) | SVOCs by EPA 8270C (µg/kg) | PCBs by EPA 8082 (µg/kg) | |
|---|---|---|---|---|---|---|---|---|---|
| | | GRO (C6-C12) | DRO (C10-C28) | ORO (C28-C44) | All OCPs | Other VOCs | All SVOCs | Aroclor 1254 | Other PCBs |
| **RSL Residential Soil** | | -- | -- | -- | Varies | Varies | Varies | 240 | Varies |
| **DTSC-SL Residential Soil** | | -- | -- | -- | Varies | Varies | Varies | 240 | Varies |
| **ESLs Residential Soil** | | 430 | 260 | 12,000 | Varies | Varies | Varies | 230 | Varies |

Total Hazard Quotient = 1.0, Target risk of 1.0E-6

DTSC-SL = Department of Toxic Substances Control (DTSC)-modified screening levels for residetial soil; updated June 2020.

SFBRWQB ESL = San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels for residential shallow soil exposure (January 2019)

**Acronyms/Abbreviations:**

| | |
|---|---|
| mg/kg | milligram per kilogram |
| µg/kg | microgram per kilogram |
| -- | Not analyzed or no published value |
| ND<1.0 | Analyte not detected above the referenced reporting limit |
| USEPA | United States Environmental Protection Agency |
| TPH | Total Petroleum Hydrocarbons |
| VOCs | Volatile Oraganic Compounds |
| SVOCs | Semi-Volatile Oraganic Compounds |
| OCPs | Organochlorine Pesticides |
| PCBs | Polychlorinated Biphenyls |

# SOIL SAMPLE LOG

# Soil Sample Log

P/N 12441.034

| Sample No. | Date | USCS[1] Symbol | Soil Type | Angularity[2] | Color | Moisture[3] | Grain Size[4] | Plasticity[5] | Comments[6] |
|---|---|---|---|---|---|---|---|---|---|
| WHS1-0.5 | 11/24/2020 | SM | Silty SAND | subround | orangeish brown | moist | fine | low | PID = 0.0 |
| WHS1-2.5 | 11/24/2020 | SM | Silty SAND | subround | orangeish brown | moist | fine | low | PID = 0.0 |
| WHS2-0.5 | 11/24/2020 | SC-SMg | Clayey Silty SAND w/ Gravel | subangular | medium brown | moist | medium-coarse | low | PID = 0.0 |
| WHS2-2.5 | 11/24/2020 | SC | Clayey SAND | subround | dark brown | moist | fine | low | PID = 0.0 |
| WHS3-0.5 | 11/24/2020 | SC-SMg | Clayey Silty SAND w/ Gravel | subangular | medium brown | moist | medium-coarse | low | PID = 0.0 |
| WHS3-2.5 | 11/24/2020 | CLs | Sandy CLAY | subround | dark brown | moist | fine | medium | PID = 0.0 |
| WHS3-5.0 | 11/24/2020 | CLs | Sandy CLAY | subround | dark brown | moist | fine | medium | PID = 0.1 |
| WHS4-0.5 | 11/24/2020 | SC-SMg | Clayey Silty SAND w/ Gravel | subangular | medium brown | moist | medium-coarse | low | PID = 0.0 |
| WHS4-2.5 | 11/24/2020 | SM | Silty SAND | subround | dark brown | moist | fine | low | PID = 0.0 |
| WHS4-5.0 | 11/24/2020 | SC-SM | Clayey Silty SAND | subround | medium brown | moist | fine | low | PID = 0.0 |
| WHS5-0.5 | 11/24/2020 | SC-SMg | Clayey Silty SAND w/ Gravel | subangular | medium brown | moist | medium-coarse | low | PID = 0.0 |
| WHS5-2.5 | 11/24/2020 | SC | Clayey SAND | subround | dark brown | moist | fine | low | PID = 0.0 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Notes:

[1] SP = Poorly graded sand, SW = Well Graded Sand, SM = Silty Sand, SC, Clayey Sand, ML = silt/sandy silt, CL = lean clay/sandy clay, CH = fat clay/sandy fat clay, OL = organic soil/with sand/with grave

[2] Angular, Sub-angular, Sub-rounded, Rounded

[3] Dry = no moisture, dusty to the touch; Moist = Damp but no visible water; Wet = Visible free water

[4] Range of particle sizes for sand (coarse, medium, fine) or gravel (coarse or fine)

[5] Non-plastic, Low, Medium, High

[6] Other descriptive features about the soil including dilatancy, toughness, or odor

# LABORATORY ANALYTICAL REPORT

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 436857
Report Level: II
Report Date: 12/11/2020

**Analytical Report** *prepared for:*

Meredith Church
Leighton Consulting
17781 Cowan
Suite 100
Irvine, CA 92614

Project: LBUSD - LBUSD - Wilson High School, 12441.034

*Authorized for release by:*

Patty Mata, Project Manager
patty.mata@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE Member

ENTHALPY ANALYTICAL

# Sample Summary

| | | |
|---|---|---|
| Meredith Church<br>Leighton Consulting<br>17781 Cowan<br>Suite 100<br>Irvine, CA 92614 | Lab Job #:<br>Project No:<br>Location:<br>Date Received: | 436857<br>LBUSD<br>LBUSD - Wilson High School, 12441.034<br>11/24/20 |

| Sample ID | Lab ID | Collected | Matrix |
|---|---|---|---|
| WHS1-0.5 | 436857-001 | 11/24/20 08:55 | Soil |
| WHS1-2.5 | 436857-002 | 11/24/20 08:56 | Soil |
| WHS2-0.5 | 436857-003 | 11/24/20 09:17 | Soil |
| WHS2-2.5 | 436857-004 | 11/24/20 09:18 | Soil |
| WHS3-0.5 | 436857-005 | 11/24/20 08:44 | Soil |
| WHS3-2.5 | 436857-006 | 11/24/20 08:45 | Soil |
| WHS3-5.0 | 436857-007 | 11/24/20 08:46 | Soil |
| WHS4-0.5 | 436857-008 | 11/24/20 09:05 | Soil |
| WHS4-2.5 | 436857-009 | 11/24/20 09:06 | Soil |
| WHS4-5.0 | 436857-010 | 11/24/20 09:07 | Soil |
| WHS5-0.5 | 436857-011 | 11/24/20 09:30 | Soil |
| WHS5-2.5 | 436857-012 | 11/24/20 09:31 | Soil |

ENTHALPY ANALYTICAL

# Case Narrative

Leighton Consulting
17781 Cowan
Suite 100
Irvine, CA 92614
Meredith Church

Lab Job Number: 436857
Project No: LBUSD
Location: LBUSD - Wilson High School, 12441.034
Date Received: 11/24/20

This data package contains sample and QC results for ten soil samples, requested for the above referenced project on 11/24/20. The samples were received cold and intact. Revised report to include additional PCB results for sample WHS3-0.5 per client request. Revised report 2 to include additional PCB results for sample WHS3-5.0 as requested on 12/9/20. This last test request was outside of 14 day hold time and was flagged with H qualifiers to note extraction past hold time.

**TPH-Extractables by GC (EPA 8015M):**
A number of samples were diluted due to the dark color of the sample extracts. No other analytical problems were encountered.

**Semivolatile Organics by GC/MS (EPA 8270C):**
High responses were observed for N-nitroso-di-n-propylamine and phenol in the CCV analyzed 11/25/20 12:22; affected data was qualified with "b". No other analytical problems were encountered.

**Pesticides (EPA 8081A):**
All samples underwent florisil cleanup using EPA Method 3620C. Low recoveries were observed for methoxychlor in the MS/MSD of HMS2-0.5 (lab # 436853-003); the LCS was within limits, and the associated RPD was within limits. High surrogate recovery was observed for decachlorobiphenyl in the method blank for batch 256823; the corresponding TCMX surrogate recovery was within limits, and no target analytes were detected in the sample. A number of samples were diluted due to the dark color of the sample extracts. No other analytical problems were encountered.

**PCBs (EPA 8082):**
High recoveries were observed for Aroclor-1016 and Aroclor-1260 in the MSD for batch 256823; the parent sample was not a project sample, the LCS was within limits, and these analytes were not detected at or above the RL in the associated samples. High RPD was observed for Aroclor-1016 in the MS/MSD for batch 256823; this analyte was not detected at or above the RL in the associated samples. Response exceeding the instrument's linear range was observed for Aroclor-1260 in the MSD for batch 256823; affected data was qualified with "E". 436857-007 was prepared outside of hold time; affected data was qualified with "H". WHS3-0.5 (lab # 436857-005) was diluted due to the dark color of the sample extract. No other analytical problems were encountered.

**Metals (EPA 6010B and EPA 7471A):**
High response was observed for mercury in the CCV analyzed 11/25/20 13:22; affected data was qualified with "b". High response was observed for mercury in the CCV analyzed 11/25/20 13:47; affected data was qualified with "b". Low recoveries were observed for antimony in the MS/MSD of WHS1-0.5 (lab # 436857-001); the LCS was within limits, and the associated RPD was within limits. High recovery was observed for zinc in the MS of WHS1-0.5 (lab # 436857-001); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

# ENTHALPY ANALYTICAL

**Chain of Custody Record** — Lab No: 436857 — Page: 1 of 2

**Turn Around Time (rush by advanced notice only)**

| Standard: | X | 5 Day: | | 3 Day: | |
|---|---|---|---|---|---|
| 2 Day: | | 1 Day: | | Custom TAT: | |


**Enthalpy Analytical - Orange**
931 W. Barkley Avenue, Orange, CA 92868
Phone 714-771-6900


**Matrix:** A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = $HNO_3$ 4 = $H_2SO_4$ 5 = NaOH 6 = Other

**Sample Receipt Temp:** 17.8/4.8 (lab use only)

| CUSTOMER INFORMATION | | PROJECT INFORMATION | |
|---|---|---|---|
| Company: | Leighton Consulting, Inc. | Name: | LBUSD - Wilson High School |
| Report To: | Meredith Church | Number: | 12441.034 |
| Email: | mchurch@leightongroup.com | P.O. #: | |
| Address: | 17781 Cowan | Address: | |
| | Irvine, CA 92614 | | |
| Phone: | 949-293-2519 | Global ID: | |
| Fax: | | Sampled By: | KMD |

| | Sample ID | Sampling Date | Sampling Time | Matrix | Container No. / Size | Pres. | TPH-g (8260B) | TPH-d (8015M) | TPH-o (8015M) | Title 22 Metals (6010B/7471A) | OCPs (8081) | PCBs (8082) | VOCs (8260B) | SVOCs (8270) | | HOLD | Test Instructions / Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | WHS1-0.5 | 11/24/20 | 0855 | S | 1 | | | X | X | X | X | | | | | | |
| 2 | WHS1-2.5 | 11/24/20 | 0856 | S | 1 | | | X | X | X | | | | | | | |
| 3 | WHS2-0.5 | 11/24/20 | 0917 | S | 1 | | | X | X | X | X | | | | | | |
| 4 | WHS2-2.5 | 11/24/20 | 0918 | S | 6 | | X | X | X | X | | | X | | | | |
| 5 | WHS3-0.5 | 11/24/20 | 0844 | S | 1 | | | X | X | X | X | | | | | | |
| 6 | WHS3-2.5 | 11/25/20 | 0845 | S | 6 | | X | X | X | X | | X | X | X | | | |
| 7 | WHS3-5.0 | 11/24/20 | 0846 | S | 1 | | | X | X | X | X | | | | | X | |
| 8 | WHS4-0.5 | 11/24/20 | 0905 | S | 1 | | | X | X | X | X | | | | | | |
| 9 | WHS4-2.5 | 11/24/20 | 0906 | S | 1 | | | X | X | X | | | | | | | |
| 10 | WHS4-5.0 | 11/24/20 | 0907 | S | 1 | | | X | X | X | | | | | | X | |

| | Signature | Print Name | Company / Title | Date / Time |
|---|---|---|---|---|
| [1] Relinquished By: | | Kalie Drecchi | LCI / Geologist | 11-24-20 / 1410 |
| [1] Received By: | | G. Kim | | 11/24/20 1413 |
| [2] Relinquished By: | | | | |
| [2] Received By: | | | | |
| [3] Relinquished By: | | | | |
| [3] Received By: | | | | |

# ENTHALPY ANALYTICAL

## Chain of Custody Record

Lab No:

Page: 2 of 2

**Turn Around Time (rush by advanced notice only)**

| Standard: | X | 5 Day: | | 3 Day: | |
|---|---|---|---|---|---|
| 2 Day: | | 1 Day: | | Custom TAT: | |


**Enthalpy Analytical - Orange**

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900


**Matrix:** A = Air S = Soil/Solid
W = Water DW = Drinking Wate SD = Sediment
PP = Pure Product SEA = Sea Water
SW = Swab T = Tissue WP = Wipe O = Other

**Preservatives:**
1 = $Na_2S_2O_3$ 2 = HCl 3 = $HNO_3$
4 = $H_2SO_4$ 5 = NaOH 6 = Other

**Sample Receipt Temp:**

(lab use only)

| CUSTOMER INFORMATION | | PROJECT INFORMATION | |
|---|---|---|---|
| Company: | Leighton Consulting, Inc. | Name: | LBUSD - Wilson High School |
| Report To: | Meredith Church | Number: | 12441.034 |
| Email: | mchurch@leightongroup.com | P.O. #: | |
| Address: | 17781 Cowan | Address: | |
| | Irvine, CA 92614 | | |
| Phone: | 949-293-2519 | Global ID: | |
| Fax: | | Sampled By: | KMD |

| | Sample ID | Sampling Date | Sampling Time | Matrix | Container No. / Size | Pres. | TPH-g (8260B) | TPH-d (8015M) | TPH-o (8015M) | Title 22 Metals (6010B/7471A) | OCPs (8081) | PCBs (8082) | VOCs (8260B) | SVOCs (8270) | | HOLD | Test Instructions / Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | WHS5-0.5 | 11/24/20 | 0930 | S | 1 | | | X | X | X | X | | | | | | |
| 2 | WHS5-2.5 | 11/24/20 | 0931 | S | 1 | | | X | X | X | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |

| | Signature | Print Name | Company / Title | Date / Time |
|---|---|---|---|---|
| [1] Relinquished By: | | Kalie Ducomi | LCI / Geologist | 11-24-20 / 1410 |
| [1] Received By: | | | | 11/24/20 1413 |
| [2] Relinquished By: | | | | |
| [2] Received By: | | | | |
| [3] Relinquished By: | | | | |
| [3] Received By: | | | | |

ENTHALPY ANALYTICAL

# SAMPLE ACCEPTANCE CHECKLIST

**Section 1**

Client: Leighton

Project: LBUSD - Wilson H.S.

Date Received: 11/24/20

Sampler's Name Present: ☑ Yes ☐ No

**Section 2**

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2)

Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 12.6 #2: _____ #3: _____ #4: _____

*(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)*

Shipping Information: _____

**Section 3**

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 4.8 #2: _____ #3: _____ #4: _____

| Section 4 | YES | NO | N/A |
|---|---|---|---|
| Was a COC received? | ✓ | | |
| Are sample IDs present? | ✓ | | |
| Are sampling dates & times present? | ✓ | | |
| Is a relinquished signature present? | ✓ | | |
| Are the tests required clearly indicated on the COC? | ✓ | | |
| Are custody seals present? | | ✓ | |
| If custody seals are present, were they intact? | | | ✓ |
| Are all samples sealed in plastic bags? (Recommended for Microbiology samples) | | | ✓ |
| Did all samples arrive intact? If no, indicate in Section 4 below. | ✓ | | |
| Did all bottle labels agree with COC? (ID, dates and times) | ✓ | | |
| Were the samples collected in the correct containers for the required tests? | ✓ | | |
| Are the containers labeled with the correct preservatives? | ✓ | | |
| Is there headspace in the VOA vials greater than 5-6 mm in diameter? | | | ✓ |
| Was a sufficient amount of sample submitted for the requested tests? | ✓ | | |

**Section 5** Explanations/Comments

**Section 6**

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____ ☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 11/24/20

| | |
|---|---|
| **From:** | Meredith Church |
| **To:** | "patty.mata@enthalpy.com" |
| **Subject:** | RE: LBUSD Wilson High School, 12441.034 - Enthalpy Data (436857) |
| **Date:** | Tuesday, December 08, 2020 3:02:28 PM |

Patty, can you please analyze sample WHS3-0.5 on a rush 1-day TAT for PCBs. I believe the hold time may expire today, would it be possible to get it extracted today? Thank you!


**Meredith Church, PG**
**Associate Geologist**

**LEIGHTON**
**Solutions You Can Build On**
17781 Cowan
Irvine, CA 92614
(949) 681-4208 (Direct)
(949) 293-2519 (Cell)
(949) 477-4040 (Office)
(949) 250-1114 (Fax)


**Please consider the environment before printing this e-mail.**

**From:** Patty Mata <patty.mata@enthalpy.com>
**Sent:** Thursday, December 3, 2020 5:56 PM
**To:** Meredith Church <mchurch@leightongroup.com>
**Subject:** LBUSD Wilson High School, 12441.034 - Enthalpy Data (436857)

Hi Meredith,

Data qualifiers and additional information necessary for the interpretation of the test results are contained in the PDF file and may not be included in the EDD.

Please find attached the following files:
• PDF Deliverable
• Standard Pivot Table EDD (436857.xls)

With Regards,


**Patty Mata**
Project Manager

931 W. Barkley Ave., Orange, CA 92868
O: 714.771.6900
D: 714.771.9930
Patty.mata@enthalpy.com


*To help protect the air we breathe, the water we drink, and the soil that feeds us.*

*Please take a moment to provide customer feedback.*

| | |
|---|---|
| **From:** | Meredith Church |
| **To:** | "patty.mata@enthalpy.com" |
| **Subject:** | LBUSD Wilson HS 12441.034 additional PCBs Request - Enthalpy Data (436857) |
| **Date:** | Wednesday, December 09, 2020 9:48:53 AM |

Patty, please have the lab analyze WHS3-5.0 for PCBs on the fastest TAT time possible. Thank you very much!


**Meredith Church, PG**
**Associate Geologist**

**LEIGHTON**
**Solutions You Can Build On**
17781 Cowan
Irvine, CA 92614
(949) 681-4208 (Direct)
(949) 293-2519 (Cell)
(949) 477-4040 (Office)
(949) 250-1114 (Fax)


**Please consider the environment before printing this e-mail.**

**From:** Patty Mata <patty.mata@enthalpy.com>
**Sent:** Tuesday, December 8, 2020 5:39 PM
**To:** Meredith Church <mchurch@leightongroup.com>
**Subject:** LBUSD Wilson HS 12441.034 with additional PCBs - Enthalpy Data (436857)

Hi Meredith,

We were able to report the PCBs for sample WHS3-0.5 from the original run because we already had PCB QC in the batch, and instrument was PCB-calibrated. The original test was done with 5x dilution so PCB reporting limits are slightly elevated.

Data qualifiers and additional information necessary for the interpretation of the test results are contained in the PDF file and may not be included in the EDD.

Please find attached the following files:
• PDF Deliverable
• Standard Pivot Table EDD (436857_rev1.xls)

With Regards,


**Patty Mata** ;
Project Manager

931 W. Barkley Ave., Orange, CA 92868
O: 714.771.6900
D: 714.771.9930
Patty.mata@enthalpy.com

*To help protect the air we breathe, the water we drink, and the soil that feeds us.*

*Please take a moment to provide customer feedback.*

ENTHALPY ANALYTICAL

# Analysis Results for 436857

Meredith Church
Leighton Consulting
17781 Cowan
Suite 100
Irvine, CA 92614

Lab Job #: 436857
Project No: LBUSD
Location: LBUSD - Wilson High School, 12441.034
Date Received: 11/24/20

**Sample ID: WHS1-0.5** **Lab ID: 436857-001** **Collected: 11/24/20 08:55**
**Matrix: Soil**

| 436857-001 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 6010B<br>Prep Method: EPA 3050B | | | | | | | | | |
| Antimony | ND | | mg/Kg | 3.1 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Arsenic | **5.6** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Barium | **110** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Beryllium | **0.54** | | mg/Kg | 0.51 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Cadmium | ND | | mg/Kg | 0.51 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Chromium | **23** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Cobalt | **6.8** | | mg/Kg | 0.51 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Copper | **18** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Lead | **18** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Molybdenum | ND | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Nickel | **16** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 12/01/20 | KLN |
| Selenium | ND | | mg/Kg | 3.1 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Silver | ND | | mg/Kg | 0.51 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Thallium | ND | | mg/Kg | 3.1 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Vanadium | **36** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Zinc | **99** | | mg/Kg | 5.1 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Method: EPA 7471A<br>Prep Method: METHOD | | | | | | | | | |
| Mercury | ND | | mg/Kg | 0.13 | 0.95 | 256927 | 11/24/20 | 11/25/20 | JDB |
| Method: EPA 8015M<br>Prep Method: EPA 3580 | | | | | | | | | |
| DRO C10-C28 | **25** | | mg/Kg | 20 | 2 | 256998 | 11/25/20 | 12/01/20 | MES |
| ORO C28-C44 | **61** | | mg/Kg | 40 | 2 | 256998 | 11/25/20 | 12/01/20 | MES |
| **Surrogates** | | | | **Limits** | | | | | |
| n-Triacontane | 86% | | %REC | 70-130 | 2 | 256998 | 11/25/20 | 12/01/20 | MES |
| Method: EPA 8081A<br>Prep Method: EPA 3546 | | | | | | | | | |
| alpha-BHC | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| beta-BHC | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| gamma-BHC | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| delta-BHC | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Heptachlor | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Aldrin | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Heptachlor epoxide | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 436857

| 436857-001 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| Endosulfan I | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Dieldrin | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| 4,4'-DDE | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endrin | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endosulfan II | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endosulfan sulfate | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| 4,4'-DDD | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endrin aldehyde | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endrin ketone | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| 4,4'-DDT | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Methoxychlor | ND | | ug/Kg | 51 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Toxaphene | ND | | ug/Kg | 510 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Chlordane (Technical) | ND | | ug/Kg | 250 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| **Surrogates** | | | | **Limits** | | | | | |
| TCMX | 84% | | %REC | 23-120 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Decachlorobiphenyl | 78% | | %REC | 24-120 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 436857

| Sample ID: WHS1-2.5 | Lab ID: 436857-002 | Collected: 11/24/20 08:56 |
|---|---|---|
| | Matrix: Soil | |

| 436857-002 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 6010B<br>Prep Method: EPA 3050B | | | | | | | | | |
| Antimony | ND | | mg/Kg | 3.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Arsenic | **3.5** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Barium | **140** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Beryllium | **0.66** | | mg/Kg | 0.50 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Cadmium | ND | | mg/Kg | 0.50 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Chromium | **26** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Cobalt | **8.5** | | mg/Kg | 0.50 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Copper | **18** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Lead | **6.6** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Molybdenum | ND | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Nickel | **19** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 12/01/20 | KLN |
| Selenium | ND | | mg/Kg | 3.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Silver | ND | | mg/Kg | 0.50 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Thallium | ND | | mg/Kg | 3.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Vanadium | **44** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Zinc | **55** | | mg/Kg | 5.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Method: EPA 7471A<br>Prep Method: METHOD | | | | | | | | | |
| Mercury | ND | | mg/Kg | 0.13 | 0.91 | 256927 | 11/24/20 | 11/25/20 | JDB |
| Method: EPA 8015M<br>Prep Method: EPA 3580 | | | | | | | | | |
| DRO C10-C28 | ND | | mg/Kg | 10 | 1 | 256998 | 11/25/20 | 12/01/20 | MES |
| ORO C28-C44 | ND | | mg/Kg | 20 | 1 | 256998 | 11/25/20 | 12/01/20 | MES |
| **Surrogates** | | | | **Limits** | | | | | |
| n-Triacontane | 90% | | %REC | 70-130 | 1 | 256998 | 11/25/20 | 12/01/20 | MES |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 436857

| Sample ID: WHS2-0.5 | Lab ID: 436857-003 | Collected: 11/24/20 09:17 |
|---|---|---|
| | Matrix: Soil | |

| 436857-003 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 6010B<br>Prep Method: EPA 3050B | | | | | | | | | |
| Antimony | ND | | mg/Kg | 2.7 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Arsenic | **3.5** | | mg/Kg | 0.90 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Barium | **93** | | mg/Kg | 0.90 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Beryllium | **0.46** | | mg/Kg | 0.45 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Cadmium | ND | | mg/Kg | 0.45 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Chromium | **20** | | mg/Kg | 0.90 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Cobalt | **6.9** | | mg/Kg | 0.45 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Copper | **14** | | mg/Kg | 0.90 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Lead | **9.0** | | mg/Kg | 0.90 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Molybdenum | ND | | mg/Kg | 0.90 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Nickel | **14** | | mg/Kg | 0.90 | 0.9 | 256924 | 11/24/20 | 12/01/20 | KLN |
| Selenium | ND | | mg/Kg | 2.7 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Silver | ND | | mg/Kg | 0.45 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Thallium | ND | | mg/Kg | 2.7 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Vanadium | **36** | | mg/Kg | 0.90 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Zinc | **98** | | mg/Kg | 4.5 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Method: EPA 7471A<br>Prep Method: METHOD | | | | | | | | | |
| Mercury | ND | | mg/Kg | 0.13 | 0.92 | 256927 | 11/24/20 | 11/25/20 | JDB |
| Method: EPA 8015M<br>Prep Method: EPA 3580 | | | | | | | | | |
| DRO C10-C28 | ND | | mg/Kg | 50 | 5 | 256998 | 11/25/20 | 12/01/20 | MES |
| ORO C28-C44 | ND | | mg/Kg | 100 | 5 | 256998 | 11/25/20 | 12/01/20 | MES |
| **Surrogates** | | | | **Limits** | | | | | |
| n-Triacontane | | DO | %REC | 70-130 | 5 | 256998 | 11/25/20 | 12/01/20 | MES |
| Method: EPA 8081A<br>Prep Method: EPA 3546 | | | | | | | | | |
| alpha-BHC | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| beta-BHC | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| gamma-BHC | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| delta-BHC | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Heptachlor | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Aldrin | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Heptachlor epoxide | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endosulfan I | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Dieldrin | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| 4,4'-DDE | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endrin | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endosulfan II | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endosulfan sulfate | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 436857

| 436857-003 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endrin aldehyde | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endrin ketone | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| 4,4'-DDT | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Methoxychlor | ND | | ug/Kg | 51 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Toxaphene | ND | | ug/Kg | 510 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Chlordane (Technical) | ND | | ug/Kg | 250 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| **Surrogates** | | | | **Limits** | | | | | |
| TCMX | 95% | | %REC | 23-120 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Decachlorobiphenyl | 91% | | %REC | 24-120 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 436857

| Sample ID: WHS2-2.5 | Lab ID: 436857-004 | Collected: 11/24/20 09:18 |
|---|---|---|
| | Matrix: Soil | |

| 436857-004 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 6010B<br>Prep Method: EPA 3050B | | | | | | | | | |
| Antimony | ND | | mg/Kg | 2.8 | 0.93 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Arsenic | **2.5** | | mg/Kg | 0.93 | 0.93 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Barium | **84** | | mg/Kg | 0.93 | 0.93 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Beryllium | ND | | mg/Kg | 0.46 | 0.93 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Cadmium | ND | | mg/Kg | 0.46 | 0.93 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Chromium | **18** | | mg/Kg | 0.93 | 0.93 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Cobalt | **5.8** | | mg/Kg | 0.46 | 0.93 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Copper | **13** | | mg/Kg | 0.93 | 0.93 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Lead | **5.0** | | mg/Kg | 0.93 | 0.93 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Molybdenum | ND | | mg/Kg | 0.93 | 0.93 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Nickel | **11** | | mg/Kg | 0.93 | 0.93 | 256924 | 11/24/20 | 12/01/20 | KLN |
| Selenium | ND | | mg/Kg | 2.8 | 0.93 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Silver | ND | | mg/Kg | 0.46 | 0.93 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Thallium | ND | | mg/Kg | 2.8 | 0.93 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Vanadium | **32** | | mg/Kg | 0.93 | 0.93 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Zinc | **43** | | mg/Kg | 4.6 | 0.93 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Method: EPA 7471A<br>Prep Method: METHOD | | | | | | | | | |
| Mercury | ND | | mg/Kg | 0.12 | 0.86 | 256927 | 11/24/20 | 11/25/20 | JDB |
| Method: EPA 8015M<br>Prep Method: EPA 3580 | | | | | | | | | |
| DRO C10-C28 | ND | | mg/Kg | 10 | 1 | 256998 | 11/25/20 | 12/02/20 | MES |
| ORO C28-C44 | ND | | mg/Kg | 20 | 1 | 256998 | 11/25/20 | 12/02/20 | MES |
| **Surrogates** | | | | **Limits** | | | | | |
| n-Triacontane | 100% | | %REC | 70-130 | 1 | 256998 | 11/25/20 | 12/02/20 | MES |
| Method: EPA 8260B<br>Prep Method: EPA 5035 | | | | | | | | | |
| 3-Chloropropene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| cis-1,4-Dichloro-2-butene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| trans-1,4-Dichloro-2-butene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Isopropyl Ether (DIPE) | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Ethyl tert-Butyl Ether (ETBE) | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Methyl tert-Amyl Ether (TAME) | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| tert-Butyl Alcohol (TBA) | ND | | ug/Kg | 8.6 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| TPH Gasoline | ND | | ug/Kg | 86 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Freon 12 | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Chloromethane | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Vinyl Chloride | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Bromomethane | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Chloroethane | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |



Results for any subcontracted analyses are not included in this section.

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# Analysis Results for 436857

| 436857-004 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| Trichlorofluoromethane | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Acetone | ND | | ug/Kg | 86 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Freon 113 | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,1-Dichloroethene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Methylene Chloride | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| MTBE | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| trans-1,2-Dichloroethene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,1-Dichloroethane | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 2-Butanone | ND | | ug/Kg | 86 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| cis-1,2-Dichloroethene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 2,2-Dichloropropane | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Chloroform | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Bromochloromethane | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,1,1-Trichloroethane | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,1-Dichloropropene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Carbon Tetrachloride | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,2-Dichloroethane | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Benzene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Trichloroethene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,2-Dichloropropane | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Bromodichloromethane | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Dibromomethane | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 4-Methyl-2-Pentanone | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| cis-1,3-Dichloropropene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Toluene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| trans-1,3-Dichloropropene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,1,2-Trichloroethane | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,3-Dichloropropane | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Tetrachloroethene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Dibromochloromethane | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,2-Dibromoethane | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Chlorobenzene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,1,1,2-Tetrachloroethane | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Ethylbenzene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| m,p-Xylenes | ND | | ug/Kg | 8.6 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| o-Xylene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Styrene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Bromoform | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Isopropylbenzene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,1,2,2-Tetrachloroethane | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,2,3-Trichloropropane | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Propylbenzene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Bromobenzene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,3,5-Trimethylbenzene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 2-Chlorotoluene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 4-Chlorotoluene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |



Results for any subcontracted analyses are not included in this section.

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# Analysis Results for 436857

| 436857-004 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| tert-Butylbenzene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,2,4-Trimethylbenzene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| sec-Butylbenzene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| para-Isopropyl Toluene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,3-Dichlorobenzene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,4-Dichlorobenzene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| n-Butylbenzene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,2-Dichlorobenzene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,2-Dibromo-3-Chloropropane | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,2,4-Trichlorobenzene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Hexachlorobutadiene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Naphthalene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,2,3-Trichlorobenzene | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Xylene (total) | ND | | ug/Kg | 4.3 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| **Surrogates** | | | | **Limits** | | | | | |
| Dibromofluoromethane | 99% | | %REC | 70-145 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,2-Dichloroethane-d4 | 108% | | %REC | 70-145 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Toluene-d8 | 103% | | %REC | 70-145 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Bromofluorobenzene | 109% | | %REC | 70-145 | 0.86 | 256993 | 11/26/20 | 11/26/20 | LYZ |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 436857

| Sample ID: WHS3-0.5 | Lab ID: 436857-005 | Collected: 11/24/20 08:44 |
|---|---|---|
| | Matrix: Soil | |

| 436857-005 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 6010B<br>Prep Method: EPA 3050B | | | | | | | | | |
| Antimony | ND | | mg/Kg | 3.1 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Arsenic | **2.6** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Barium | **82** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Beryllium | ND | | mg/Kg | 0.52 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Cadmium | ND | | mg/Kg | 0.52 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Chromium | **10** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Cobalt | **3.7** | | mg/Kg | 0.52 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Copper | **10** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Lead | **11** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Molybdenum | ND | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Nickel | **9.1** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 12/01/20 | KLN |
| Selenium | ND | | mg/Kg | 3.1 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Silver | ND | | mg/Kg | 0.52 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Thallium | ND | | mg/Kg | 3.1 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Vanadium | **20** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Zinc | **42** | | mg/Kg | 5.2 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Method: EPA 7471A<br>Prep Method: METHOD | | | | | | | | | |
| Mercury | ND | | mg/Kg | 0.14 | 0.97 | 256927 | 11/24/20 | 11/25/20 | JDB |
| Method: EPA 8015M<br>Prep Method: EPA 3580 | | | | | | | | | |
| DRO C10-C28 | ND | | mg/Kg | 100 | 10 | 256998 | 11/25/20 | 12/01/20 | MES |
| ORO C28-C44 | ND | | mg/Kg | 200 | 10 | 256998 | 11/25/20 | 12/01/20 | MES |
| **Surrogates** | | | | **Limits** | | | | | |
| n-Triacontane | | DO | %REC | 70-130 | 10 | 256998 | 11/25/20 | 12/01/20 | MES |
| Method: EPA 8081A<br>Prep Method: EPA 3546 | | | | | | | | | |
| alpha-BHC | ND | | ug/Kg | 25 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| beta-BHC | ND | | ug/Kg | 25 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| gamma-BHC | ND | | ug/Kg | 25 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| delta-BHC | ND | | ug/Kg | 25 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Heptachlor | ND | | ug/Kg | 25 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Aldrin | ND | | ug/Kg | 25 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Heptachlor epoxide | ND | | ug/Kg | 25 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endosulfan I | ND | | ug/Kg | 25 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Dieldrin | ND | | ug/Kg | 25 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| 4,4'-DDE | ND | | ug/Kg | 25 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endrin | ND | | ug/Kg | 25 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endosulfan II | ND | | ug/Kg | 25 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endosulfan sulfate | ND | | ug/Kg | 25 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |



Results for any subcontracted analyses are not included in this section.

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# Analysis Results for 436857

| 436857-005 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | ug/Kg | 25 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endrin aldehyde | ND | | ug/Kg | 25 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endrin ketone | ND | | ug/Kg | 25 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| 4,4'-DDT | ND | | ug/Kg | 25 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Methoxychlor | ND | | ug/Kg | 49 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Toxaphene | ND | | ug/Kg | 490 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Chlordane (Technical) | ND | | ug/Kg | 250 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| **Surrogates** | | | | **Limits** | | | | | |
| TCMX | 111% | | %REC | 23-120 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Decachlorobiphenyl | 98% | | %REC | 24-120 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Method: EPA 8082<br>Prep Method: EPA 3546 | | | | | | | | | |
| Aroclor-1016 | ND | | ug/Kg | 250 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Aroclor-1221 | ND | | ug/Kg | 250 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Aroclor-1232 | ND | | ug/Kg | 250 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Aroclor-1242 | ND | | ug/Kg | 250 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Aroclor-1248 | ND | | ug/Kg | 250 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Aroclor-1254 | ND | | ug/Kg | 250 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Aroclor-1260 | ND | | ug/Kg | 250 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Aroclor-1262 | ND | | ug/Kg | 250 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Aroclor-1268 | ND | | ug/Kg | 250 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |
| **Surrogates** | | | | **Limits** | | | | | |
| Decachlorobiphenyl (PCB) | 95% | | %REC | 19-121 | 4.9 | 256823 | 11/25/20 | 11/25/20 | KTD |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 436857

| Sample ID: WHS3-2.5 | Lab ID: 436857-006 | Collected: 11/24/20 08:45 |
|---|---|---|
| | Matrix: Soil | |

| 436857-006 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 6010B<br>Prep Method: EPA 3050B | | | | | | | | | |
| Antimony | ND | | mg/Kg | 2.9 | 0.97 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Arsenic | **5.2** | | mg/Kg | 0.97 | 0.97 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Barium | **100** | | mg/Kg | 0.97 | 0.97 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Beryllium | **0.66** | | mg/Kg | 0.49 | 0.97 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Cadmium | ND | | mg/Kg | 0.49 | 0.97 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Chromium | **26** | | mg/Kg | 0.97 | 0.97 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Cobalt | **8.7** | | mg/Kg | 0.49 | 0.97 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Copper | **20** | | mg/Kg | 0.97 | 0.97 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Lead | **6.1** | | mg/Kg | 0.97 | 0.97 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Molybdenum | ND | | mg/Kg | 0.97 | 0.97 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Nickel | **21** | | mg/Kg | 0.97 | 0.97 | 256924 | 11/24/20 | 12/01/20 | KLN |
| Selenium | ND | | mg/Kg | 2.9 | 0.97 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Silver | ND | | mg/Kg | 0.49 | 0.97 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Thallium | ND | | mg/Kg | 2.9 | 0.97 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Vanadium | **46** | | mg/Kg | 0.97 | 0.97 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Zinc | **55** | | mg/Kg | 4.9 | 0.97 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Method: EPA 7471A<br>Prep Method: METHOD | | | | | | | | | |
| Mercury | ND | | mg/Kg | 0.14 | 0.98 | 256927 | 11/24/20 | 11/25/20 | JDB |
| Method: EPA 8015M<br>Prep Method: EPA 3580 | | | | | | | | | |
| DRO C10-C28 | ND | | mg/Kg | 10 | 1 | 256998 | 11/25/20 | 12/01/20 | MES |
| ORO C28-C44 | ND | | mg/Kg | 20 | 1 | 256998 | 11/25/20 | 12/01/20 | MES |
| **Surrogates** | | | | **Limits** | | | | | |
| n-Triacontane | 70% | | %REC | 70-130 | 1 | 256998 | 11/25/20 | 12/01/20 | MES |
| Method: EPA 8082<br>Prep Method: EPA 3546 | | | | | | | | | |
| Aroclor-1016 | ND | | ug/Kg | 50 | 0.99 | 256823 | 11/25/20 | 12/01/20 | KTD |
| Aroclor-1221 | ND | | ug/Kg | 50 | 0.99 | 256823 | 11/25/20 | 12/01/20 | KTD |
| Aroclor-1232 | ND | | ug/Kg | 50 | 0.99 | 256823 | 11/25/20 | 12/01/20 | KTD |
| Aroclor-1242 | ND | | ug/Kg | 50 | 0.99 | 256823 | 11/25/20 | 12/01/20 | KTD |
| Aroclor-1248 | ND | | ug/Kg | 50 | 0.99 | 256823 | 11/25/20 | 12/01/20 | KTD |
| Aroclor-1254 | **87** | | ug/Kg | 50 | 0.99 | 256823 | 11/25/20 | 12/01/20 | KTD |
| Aroclor-1260 | ND | | ug/Kg | 50 | 0.99 | 256823 | 11/25/20 | 12/01/20 | KTD |
| Aroclor-1262 | ND | | ug/Kg | 50 | 0.99 | 256823 | 11/25/20 | 12/01/20 | KTD |
| Aroclor-1268 | ND | | ug/Kg | 50 | 0.99 | 256823 | 11/25/20 | 12/01/20 | KTD |
| **Surrogates** | | | | **Limits** | | | | | |
| Decachlorobiphenyl (PCB) | 82% | | %REC | 19-121 | 0.99 | 256823 | 11/25/20 | 12/01/20 | KTD |
| Method: EPA 8260B<br>Prep Method: EPA 5035 | | | | | | | | | |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 436857

| 436857-006 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| cis-1,4-Dichloro-2-butene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| trans-1,4-Dichloro-2-butene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Isopropyl Ether (DIPE) | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Ethyl tert-Butyl Ether (ETBE) | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Methyl tert-Amyl Ether (TAME) | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| tert-Butyl Alcohol (TBA) | ND | | ug/Kg | 8.3 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| TPH Gasoline | ND | | ug/Kg | 83 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Freon 12 | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Chloromethane | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Vinyl Chloride | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Bromomethane | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Chloroethane | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Trichlorofluoromethane | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Acetone | ND | | ug/Kg | 83 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Freon 113 | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,1-Dichloroethene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Methylene Chloride | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| MTBE | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| trans-1,2-Dichloroethene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,1-Dichloroethane | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 2-Butanone | ND | | ug/Kg | 83 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| cis-1,2-Dichloroethene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 2,2-Dichloropropane | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Chloroform | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Bromochloromethane | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,1,1-Trichloroethane | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,1-Dichloropropene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Carbon Tetrachloride | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,2-Dichloroethane | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Benzene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Trichloroethene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,2-Dichloropropane | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Bromodichloromethane | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Dibromomethane | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 4-Methyl-2-Pentanone | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| cis-1,3-Dichloropropene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Toluene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| trans-1,3-Dichloropropene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,1,2-Trichloroethane | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,3-Dichloropropane | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Tetrachloroethene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Dibromochloromethane | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,2-Dibromoethane | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Chlorobenzene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,1,1,2-Tetrachloroethane | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 436857

| 436857-006 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| m,p-Xylenes | ND | | ug/Kg | 8.3 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| o-Xylene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Styrene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Bromoform | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Isopropylbenzene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,1,2,2-Tetrachloroethane | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,2,3-Trichloropropane | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Propylbenzene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Bromobenzene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,3,5-Trimethylbenzene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 2-Chlorotoluene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 4-Chlorotoluene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| tert-Butylbenzene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,2,4-Trimethylbenzene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| sec-Butylbenzene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| para-Isopropyl Toluene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,3-Dichlorobenzene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,4-Dichlorobenzene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| n-Butylbenzene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,2-Dichlorobenzene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,2-Dibromo-3-Chloropropane | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,2,4-Trichlorobenzene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Hexachlorobutadiene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Naphthalene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,2,3-Trichlorobenzene | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Xylene (total) | ND | | ug/Kg | 4.2 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| **Surrogates** | | | | **Limits** | | | | | |
| Dibromofluoromethane | 102% | | %REC | 70-145 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| 1,2-Dichloroethane-d4 | 113% | | %REC | 70-145 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Toluene-d8 | 101% | | %REC | 70-145 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Bromofluorobenzene | 107% | | %REC | 70-145 | 0.83 | 256993 | 11/26/20 | 11/26/20 | LYZ |
| Method: EPA 8270C<br>Prep Method: EPA 3550C | | | | | | | | | |
| Carbazole | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 1-Methylnaphthalene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Pyridine | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| N-Nitrosodimethylamine | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Phenol | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Aniline | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| bis(2-Chloroethyl)ether | ND | | ug/Kg | 1,200 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 2-Chlorophenol | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 1,3-Dichlorobenzene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 1,4-Dichlorobenzene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Benzyl alcohol | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 1,2-Dichlorobenzene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 436857

| 436857-006 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| 2-Methylphenol | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| bis(2-Chloroisopropyl) ether | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 3-,4-Methylphenol | ND | | ug/Kg | 400 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| N-Nitroso-di-n-propylamine | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Hexachloroethane | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Nitrobenzene | ND | | ug/Kg | 1,200 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Isophorone | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 2-Nitrophenol | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 2,4-Dimethylphenol | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Benzoic acid | ND | | ug/Kg | 1,200 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| bis(2-Chloroethoxy)methane | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 2,4-Dichlorophenol | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 1,2,4-Trichlorobenzene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Naphthalene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 4-Chloroaniline | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Hexachlorobutadiene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 4-Chloro-3-methylphenol | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 2-Methylnaphthalene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Hexachlorocyclopentadiene | ND | | ug/Kg | 1,200 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 2,4,6-Trichlorophenol | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 2,4,5-Trichlorophenol | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 2-Chloronaphthalene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 2-Nitroaniline | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Dimethylphthalate | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Acenaphthylene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 2,6-Dinitrotoluene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 3-Nitroaniline | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Acenaphthene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 2,4-Dinitrophenol | ND | | ug/Kg | 1,200 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 4-Nitrophenol | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Dibenzofuran | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 2,4-Dinitrotoluene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Diethylphthalate | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Fluorene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 4-Chlorophenyl-phenylether | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 4-Nitroaniline | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 4,6-Dinitro-2-methylphenol | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| N-Nitrosodiphenylamine | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 1,2-diphenylhydrazine (as azobenzene) | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 4-Bromophenyl-phenylether | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Hexachlorobenzene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Pentachlorophenol | ND | | ug/Kg | 1,200 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Phenanthrene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Anthracene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Di-n-butylphthalate | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Fluoranthene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |



Results for any subcontracted analyses are not included in this section.

# Analysis Results for 436857

| 436857-006 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| Benzidine | ND | | ug/Kg | 1,200 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Pyrene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Butylbenzylphthalate | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 3,3'-Dichlorobenzidine | ND | | ug/Kg | 1,200 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Benzo(a)anthracene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Chrysene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| bis(2-Ethylhexyl)phthalate | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Di-n-octylphthalate | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Benzo(b)fluoranthene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Benzo(k)fluoranthene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Benzo(a)pyrene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Indeno(1,2,3-cd)pyrene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Dibenz(a,h)anthracene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Benzo(g,h,i)perylene | ND | | ug/Kg | 250 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| **Surrogates** | | | | **Limits** | | | | | |
| 2-Fluorophenol | 104% | | %REC | 29-120 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Phenol-d6 | 117% | | %REC | 30-120 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 2,4,6-Tribromophenol | 60% | | %REC | 32-120 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Nitrobenzene-d5 | 118% | | %REC | 33-120 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| 2-Fluorobiphenyl | 84% | | %REC | 39-120 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |
| Terphenyl-d14 | 77% | | %REC | 44-125 | 1 | 256937 | 11/25/20 | 11/25/20 | TJW |

**Sample ID: WHS3-5.0** **Lab ID: 436857-007** **Collected: 11/24/20 08:46**
**Matrix: Soil**

| 436857-007 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 8082<br>Prep Method: EPA 3546 | | | | | | | | | |
| Aroclor-1016 | ND | H | ug/Kg | 50 | 1 | 257631 | 12/09/20 | 12/10/20 | KTD |
| Aroclor-1221 | ND | H | ug/Kg | 50 | 1 | 257631 | 12/09/20 | 12/10/20 | KTD |
| Aroclor-1232 | ND | H | ug/Kg | 50 | 1 | 257631 | 12/09/20 | 12/10/20 | KTD |
| Aroclor-1242 | ND | H | ug/Kg | 50 | 1 | 257631 | 12/09/20 | 12/10/20 | KTD |
| Aroclor-1248 | ND | H | ug/Kg | 50 | 1 | 257631 | 12/09/20 | 12/10/20 | KTD |
| Aroclor-1254 | ND | H | ug/Kg | 50 | 1 | 257631 | 12/09/20 | 12/10/20 | KTD |
| Aroclor-1260 | ND | H | ug/Kg | 50 | 1 | 257631 | 12/09/20 | 12/10/20 | KTD |
| Aroclor-1262 | ND | H | ug/Kg | 50 | 1 | 257631 | 12/09/20 | 12/10/20 | KTD |
| Aroclor-1268 | ND | H | ug/Kg | 50 | 1 | 257631 | 12/09/20 | 12/10/20 | KTD |
| **Surrogates** | | | | **Limits** | | | | | |
| Decachlorobiphenyl (PCB) | 101% | H | %REC | 19-121 | 1 | 257631 | 12/09/20 | 12/10/20 | KTD |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 436857

| Sample ID: WHS4-0.5 | Lab ID: 436857-008 | Collected: 11/24/20 09:05 |
|---|---|---|
| | Matrix: Soil | |

| 436857-008 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 6010B<br>Prep Method: EPA 3050B | | | | | | | | | |
| Antimony | ND | | mg/Kg | 2.7 | 0.91 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Arsenic | **5.5** | | mg/Kg | 0.91 | 0.91 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Barium | **150** | | mg/Kg | 0.91 | 0.91 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Beryllium | ND | | mg/Kg | 0.45 | 0.91 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Cadmium | ND | | mg/Kg | 0.45 | 0.91 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Chromium | **14** | | mg/Kg | 0.91 | 0.91 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Cobalt | **4.9** | | mg/Kg | 0.45 | 0.91 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Copper | **23** | | mg/Kg | 0.91 | 0.91 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Lead | **16** | | mg/Kg | 0.91 | 0.91 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Molybdenum | ND | | mg/Kg | 0.91 | 0.91 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Nickel | **13** | | mg/Kg | 0.91 | 0.91 | 256924 | 11/24/20 | 12/01/20 | KLN |
| Selenium | ND | | mg/Kg | 2.7 | 0.91 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Silver | ND | | mg/Kg | 0.45 | 0.91 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Thallium | ND | | mg/Kg | 2.7 | 0.91 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Vanadium | **28** | | mg/Kg | 0.91 | 0.91 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Zinc | **69** | | mg/Kg | 4.5 | 0.91 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Method: EPA 7471A<br>Prep Method: METHOD | | | | | | | | | |
| Mercury | ND | | mg/Kg | 0.14 | 1 | 256927 | 11/24/20 | 11/25/20 | JDB |
| Method: EPA 8015M<br>Prep Method: EPA 3580 | | | | | | | | | |
| DRO C10-C28 | ND | | mg/Kg | 100 | 10 | 256998 | 11/25/20 | 12/01/20 | MES |
| ORO C28-C44 | ND | | mg/Kg | 200 | 10 | 256998 | 11/25/20 | 12/01/20 | MES |
| **Surrogates** | | | | **Limits** | | | | | |
| n-Triacontane | | DO | %REC | 70-130 | 10 | 256998 | 11/25/20 | 12/01/20 | MES |
| Method: EPA 8081A<br>Prep Method: EPA 3546 | | | | | | | | | |
| alpha-BHC | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| beta-BHC | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| gamma-BHC | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| delta-BHC | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Heptachlor | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Aldrin | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Heptachlor epoxide | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endosulfan I | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Dieldrin | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| 4,4'-DDE | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endrin | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endosulfan II | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endosulfan sulfate | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |



Results for any subcontracted analyses are not included in this section.

# Analysis Results for 436857

| 436857-008 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endrin aldehyde | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endrin ketone | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| 4,4'-DDT | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Methoxychlor | ND | | ug/Kg | 51 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Toxaphene | ND | | ug/Kg | 510 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Chlordane (Technical) | ND | | ug/Kg | 250 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| **Surrogates** | | | | **Limits** | | | | | |
| TCMX | 100% | | %REC | 23-120 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Decachlorobiphenyl | 82% | | %REC | 24-120 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |

**Sample ID: WHS4-2.5** **Lab ID: 436857-009** **Collected: 11/24/20 09:06**
**Matrix: Soil**

| 436857-009 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 6010B<br>Prep Method: EPA 3050B | | | | | | | | | |
| Antimony | ND | | mg/Kg | 2.7 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Arsenic | **2.4** | | mg/Kg | 0.90 | 0.9 | 256924 | 11/24/20 | 12/01/20 | KLN |
| Barium | **74** | | mg/Kg | 0.90 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Beryllium | ND | | mg/Kg | 0.45 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Cadmium | ND | | mg/Kg | 0.45 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Chromium | **16** | | mg/Kg | 0.90 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Cobalt | **4.9** | | mg/Kg | 0.45 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Copper | **12** | | mg/Kg | 0.90 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Lead | **4.2** | | mg/Kg | 0.90 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Molybdenum | ND | | mg/Kg | 0.90 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Nickel | **10** | | mg/Kg | 0.90 | 0.9 | 256924 | 11/24/20 | 12/01/20 | KLN |
| Selenium | ND | | mg/Kg | 2.7 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Silver | ND | | mg/Kg | 0.45 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Thallium | ND | | mg/Kg | 2.7 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Vanadium | **29** | | mg/Kg | 0.90 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Zinc | **36** | | mg/Kg | 4.5 | 0.9 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Method: EPA 7471A<br>Prep Method: METHOD | | | | | | | | | |
| Mercury | ND | | mg/Kg | 0.13 | 0.92 | 256927 | 11/24/20 | 11/25/20 | JDB |
| Method: EPA 8015M<br>Prep Method: EPA 3580 | | | | | | | | | |
| DRO C10-C28 | ND | | mg/Kg | 10 | 1 | 256998 | 11/25/20 | 12/01/20 | MES |
| ORO C28-C44 | ND | | mg/Kg | 20 | 1 | 256998 | 11/25/20 | 12/01/20 | MES |
| **Surrogates** | | | | **Limits** | | | | | |
| n-Triacontane | 70% | | %REC | 70-130 | 1 | 256998 | 11/25/20 | 12/01/20 | MES |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 436857

| Sample ID: WHS5-0.5 | Lab ID: 436857-011 | Collected: 11/24/20 09:30 |
|---|---|---|
| | Matrix: Soil | |

| 436857-011 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 6010B<br>Prep Method: EPA 3050B | | | | | | | | | |
| Antimony | ND | | mg/Kg | 3.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Arsenic | **4.0** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Barium | **150** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Beryllium | ND | | mg/Kg | 0.51 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Cadmium | ND | | mg/Kg | 0.51 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Chromium | **11** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Cobalt | **3.4** | | mg/Kg | 0.51 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Copper | **19** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Lead | **12** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Molybdenum | ND | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Nickel | **9.5** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 12/01/20 | KLN |
| Selenium | ND | | mg/Kg | 3.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Silver | ND | | mg/Kg | 0.51 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Thallium | ND | | mg/Kg | 3.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Vanadium | **20** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Zinc | **66** | | mg/Kg | 5.1 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Method: EPA 7471A<br>Prep Method: METHOD | | | | | | | | | |
| Mercury | ND | | mg/Kg | 0.13 | 0.95 | 256927 | 11/24/20 | 11/25/20 | JDB |
| Method: EPA 8015M<br>Prep Method: EPA 3580 | | | | | | | | | |
| DRO C10-C28 | ND | | mg/Kg | 99 | 9.9 | 256998 | 11/25/20 | 12/01/20 | MES |
| ORO C28-C44 | ND | | mg/Kg | 200 | 9.9 | 256998 | 11/25/20 | 12/01/20 | MES |
| **Surrogates** | | | | **Limits** | | | | | |
| n-Triacontane | | DO | %REC | 70-130 | 9.9 | 256998 | 11/25/20 | 12/01/20 | MES |
| Method: EPA 8081A<br>Prep Method: EPA 3546 | | | | | | | | | |
| alpha-BHC | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| beta-BHC | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| gamma-BHC | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| delta-BHC | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Heptachlor | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Aldrin | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Heptachlor epoxide | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endosulfan I | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Dieldrin | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| 4,4'-DDE | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endrin | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endosulfan II | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endosulfan sulfate | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 436857

| 436857-011 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endrin aldehyde | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Endrin ketone | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| 4,4'-DDT | ND | | ug/Kg | 25 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Methoxychlor | ND | | ug/Kg | 51 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Toxaphene | ND | | ug/Kg | 510 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Chlordane (Technical) | ND | | ug/Kg | 250 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| **Surrogates** | | | | **Limits** | | | | | |
| TCMX | 81% | | %REC | 23-120 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |
| Decachlorobiphenyl | 70% | | %REC | 24-120 | 5.1 | 256823 | 11/25/20 | 11/25/20 | KTD |

**Sample ID: WHS5-2.5** **Lab ID: 436857-012** **Collected: 11/24/20 09:31**
**Matrix: Soil**

| 436857-012 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 6010B<br>Prep Method: EPA 3050B | | | | | | | | | |
| Antimony | ND | | mg/Kg | 3.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Arsenic | **3.1** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Barium | **75** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Beryllium | ND | | mg/Kg | 0.50 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Cadmium | ND | | mg/Kg | 0.50 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Chromium | **17** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Cobalt | **5.4** | | mg/Kg | 0.50 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Copper | **13** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Lead | **5.5** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Molybdenum | ND | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Nickel | **12** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 12/01/20 | KLN |
| Selenium | ND | | mg/Kg | 3.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Silver | ND | | mg/Kg | 0.50 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Thallium | ND | | mg/Kg | 3.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Vanadium | **30** | | mg/Kg | 1.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Zinc | **43** | | mg/Kg | 5.0 | 1 | 256924 | 11/24/20 | 11/30/20 | KLN |
| Method: EPA 7471A<br>Prep Method: METHOD | | | | | | | | | |
| Mercury | ND | | mg/Kg | 0.12 | 0.88 | 256927 | 11/24/20 | 11/25/20 | JDB |
| Method: EPA 8015M<br>Prep Method: EPA 3580 | | | | | | | | | |
| DRO C10-C28 | ND | | mg/Kg | 10 | 1 | 256998 | 11/25/20 | 12/01/20 | MES |
| ORO C28-C44 | ND | | mg/Kg | 20 | 1 | 256998 | 11/25/20 | 12/01/20 | MES |
| **Surrogates** | | | | **Limits** | | | | | |
| n-Triacontane | 70% | | %REC | 70-130 | 1 | 256998 | 11/25/20 | 12/01/20 | MES |



Results for any subcontracted analyses are not included in this section.

# Analysis Results for 436857

DO Diluted Out
H Holding time was exceeded
ND Not Detected



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Batch QC

| Type: Blank | Lab ID: QC896508 | Batch: 256823 |
|---|---|---|
| Matrix: Soil | | |

| QC896508 Analyte | Result | Qual | Units | RL | Prepared | Analyzed |
|---|---|---|---|---|---|---|
| Method: EPA 8081A<br>Prep Method: EPA 3546 | | | | | | |
| alpha-BHC | ND | | ug/Kg | 5.0 | 11/24/20 | 11/25/20 |
| beta-BHC | ND | | ug/Kg | 5.0 | 11/24/20 | 11/25/20 |
| gamma-BHC | ND | | ug/Kg | 5.0 | 11/24/20 | 11/25/20 |
| delta-BHC | ND | | ug/Kg | 5.0 | 11/24/20 | 11/25/20 |
| Heptachlor | ND | | ug/Kg | 5.0 | 11/24/20 | 11/25/20 |
| Aldrin | ND | | ug/Kg | 5.0 | 11/24/20 | 11/25/20 |
| Heptachlor epoxide | ND | | ug/Kg | 5.0 | 11/24/20 | 11/25/20 |
| Endosulfan I | ND | | ug/Kg | 5.0 | 11/24/20 | 11/25/20 |
| Dieldrin | ND | | ug/Kg | 5.0 | 11/24/20 | 11/25/20 |
| 4,4'-DDE | ND | | ug/Kg | 5.0 | 11/24/20 | 11/25/20 |
| Endrin | ND | | ug/Kg | 5.0 | 11/24/20 | 11/25/20 |
| Endosulfan II | ND | | ug/Kg | 5.0 | 11/24/20 | 11/25/20 |
| Endosulfan sulfate | ND | | ug/Kg | 5.0 | 11/24/20 | 11/25/20 |
| 4,4'-DDD | ND | | ug/Kg | 5.0 | 11/24/20 | 11/25/20 |
| Endrin aldehyde | ND | | ug/Kg | 5.0 | 11/24/20 | 11/25/20 |
| Endrin ketone | ND | | ug/Kg | 5.0 | 11/24/20 | 11/25/20 |
| 4,4'-DDT | ND | | ug/Kg | 5.0 | 11/24/20 | 11/25/20 |
| Methoxychlor | ND | | ug/Kg | 10 | 11/24/20 | 11/25/20 |
| Toxaphene | ND | | ug/Kg | 100 | 11/24/20 | 11/25/20 |
| Chlordane (Technical) | ND | | ug/Kg | 50 | 11/24/20 | 11/25/20 |
| **Surrogates** | | | | **Limits** | | |
| TCMX | 99% | | %REC | 23-120 | 11/24/20 | 11/25/20 |
| Decachlorobiphenyl | 138% | * | %REC | 24-120 | 11/24/20 | 11/25/20 |
| Method: EPA 8082<br>Prep Method: EPA 3546 | | | | | | |
| Aroclor-1016 | ND | | ug/Kg | 50 | 11/24/20 | 11/24/20 |
| Aroclor-1221 | ND | | ug/Kg | 50 | 11/24/20 | 11/24/20 |
| Aroclor-1232 | ND | | ug/Kg | 50 | 11/24/20 | 11/24/20 |
| Aroclor-1242 | ND | | ug/Kg | 50 | 11/24/20 | 11/24/20 |
| Aroclor-1248 | ND | | ug/Kg | 50 | 11/24/20 | 11/24/20 |
| Aroclor-1254 | ND | | ug/Kg | 50 | 11/24/20 | 11/24/20 |
| Aroclor-1260 | ND | | ug/Kg | 50 | 11/24/20 | 11/24/20 |
| Aroclor-1262 | ND | | ug/Kg | 50 | 11/24/20 | 11/24/20 |
| Aroclor-1268 | ND | | ug/Kg | 50 | 11/24/20 | 11/24/20 |
| **Surrogates** | | | | **Limits** | | |
| Decachlorobiphenyl (PCB) | 91% | | %REC | 19-121 | 11/24/20 | 11/24/20 |

ENTHALPY ANALYTICAL

# Batch QC

| | | |
|---|---|---|
| **Type:** Lab Control Sample | **Lab ID:** QC896509 | **Batch:** 256823 |
| **Matrix:** Soil | **Method:** EPA 8082 | **Prep Method:** EPA 3546 |

| QC896509 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Aroclor-1016 | 547.6 | 500.0 | ug/Kg | 110% | | 14-150 |
| Aroclor-1260 | 564.5 | 500.0 | ug/Kg | 113% | | 10-150 |
| **Surrogates** | | | | | | |
| Decachlorobiphenyl (PCB) | 49.77 | 50.00 | ug/Kg | 100% | | 19-121 |

| | | |
|---|---|---|
| **Type:** Matrix Spike | **Lab ID:** QC896510 | **Batch:** 256823 |
| **Matrix (Source ID):** Soil (436799-005) | **Method:** EPA 8082 | **Prep Method:** EPA 3546 |

| QC896510 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | 503.8 | ND | 500.0 | ug/Kg | 101% | | 42-127 | 1 |
| Aroclor-1260 | 598.4 | 211.4 | 500.0 | ug/Kg | 77% | | 38-130 | 1 |
| **Surrogates** | | | | | | | | |
| Decachlorobiphenyl (PCB) | 35.89 | | 50.00 | ug/Kg | 72% | | 19-121 | 1 |

| | | |
|---|---|---|
| **Type:** Matrix Spike Duplicate | **Lab ID:** QC896511 | **Batch:** 256823 |
| **Matrix (Source ID):** Soil (436799-005) | **Method:** EPA 8082 | **Prep Method:** EPA 3546 |

| QC896511 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | 776.7 | ND | 500.0 | ug/Kg | 155% | * | 42-127 | 43* | 30 | 1 |
| Aroclor-1260 | 2,272 | 211.4 | 500.0 | ug/Kg | 412% | E,* | 38-130 | | 30 | 1 |
| **Surrogates** | | | | | | | | | | |
| Decachlorobiphenyl (PCB) | 48.43 | | 50.00 | ug/Kg | 97% | | 19-121 | | | 1 |

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# Batch QC

| | | |
|---|---|---|
| **Type: Lab Control Sample** | **Lab ID: QC896758** | **Batch: 256823** |
| **Matrix: Soil** | **Method: EPA 8081A** | **Prep Method: EPA 3546** |

| QC896758 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| alpha-BHC | 43.48 | 49.02 | ug/Kg | 89% | | 22-129 |
| beta-BHC | 43.02 | 49.02 | ug/Kg | 88% | | 28-125 |
| gamma-BHC | 43.55 | 49.02 | ug/Kg | 89% | | 22-128 |
| delta-BHC | 44.78 | 49.02 | ug/Kg | 91% | # | 24-131 |
| Heptachlor | 42.00 | 49.02 | ug/Kg | 86% | | 18-124 |
| Aldrin | 39.41 | 49.02 | ug/Kg | 80% | | 23-120 |
| Heptachlor epoxide | 39.03 | 49.02 | ug/Kg | 80% | | 26-120 |
| Endosulfan I | 41.96 | 49.02 | ug/Kg | 86% | | 25-126 |
| Dieldrin | 40.06 | 49.02 | ug/Kg | 82% | | 23-124 |
| 4,4'-DDE | 39.63 | 49.02 | ug/Kg | 81% | | 28-121 |
| Endrin | 41.84 | 49.02 | ug/Kg | 85% | | 25-127 |
| Endosulfan II | 37.03 | 49.02 | ug/Kg | 76% | | 29-121 |
| Endosulfan sulfate | 37.15 | 49.02 | ug/Kg | 76% | | 30-121 |
| 4,4'-DDD | 36.59 | 49.02 | ug/Kg | 75% | | 26-120 |
| Endrin aldehyde | 24.66 | 49.02 | ug/Kg | 50% | | 10-120 |
| Endrin ketone | 36.69 | 49.02 | ug/Kg | 75% | | 28-125 |
| 4,4'-DDT | 40.27 | 49.02 | ug/Kg | 82% | | 22-125 |
| Methoxychlor | 38.54 | 49.02 | ug/Kg | 79% | | 28-130 |
| **Surrogates** | | | | | | |
| TCMX | 44.07 | 49.02 | ug/Kg | 90% | | 23-120 |
| Decachlorobiphenyl | 35.33 | 49.02 | ug/Kg | 72% | | 24-120 |

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# Batch QC

| | | | | | |
|---|---|---|---|---|---|
| **Type:** | **Matrix Spike** | **Lab ID:** | **QC896759** | **Batch:** | **256823** |
| **Matrix (Source ID):** | **Soil (436853-003)** | **Method:** | **EPA 8081A** | **Prep Method:** | **EPA 3546** |

| QC896759 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 30.83 | ND | 49.50 | ug/Kg | 62% | | 46-120 | 5 |
| beta-BHC | 33.41 | ND | 49.50 | ug/Kg | 67% | | 41-120 | 5 |
| gamma-BHC | 33.43 | ND | 49.50 | ug/Kg | 68% | | 41-120 | 5 |
| delta-BHC | 31.00 | ND | 49.50 | ug/Kg | 63% | | 38-123 | 5 |
| Heptachlor | 31.79 | ND | 49.50 | ug/Kg | 64% | | 39-120 | 5 |
| Aldrin | 30.41 | ND | 49.50 | ug/Kg | 61% | | 34-120 | 5 |
| Heptachlor epoxide | 27.71 | ND | 49.50 | ug/Kg | 56% | | 43-120 | 5 |
| Endosulfan I | 29.14 | ND | 49.50 | ug/Kg | 59% | | 45-120 | 5 |
| Dieldrin | 28.61 | ND | 49.50 | ug/Kg | 58% | | 45-120 | 5 |
| 4,4'-DDE | 31.08 | 10.09 | 49.50 | ug/Kg | 42% | | 34-120 | 5 |
| Endrin | 27.86 | ND | 49.50 | ug/Kg | 56% | | 40-120 | 5 |
| Endosulfan II | 28.06 | ND | 49.50 | ug/Kg | 57% | | 41-120 | 5 |
| Endosulfan sulfate | 25.71 | ND | 49.50 | ug/Kg | 52% | | 42-120 | 5 |
| 4,4'-DDD | 24.37 | ND | 49.50 | ug/Kg | 49% | | 41-120 | 5 |
| Endrin aldehyde | 18.81 | ND | 49.50 | ug/Kg | 38% | | 30-120 | 5 |
| Endrin ketone | 32.00 | ND | 49.50 | ug/Kg | 65% | | 45-120 | 5 |
| 4,4'-DDT | 31.46 | ND | 49.50 | ug/Kg | 64% | | 35-127 | 5 |
| Methoxychlor | 29.37 | ND | 49.50 | ug/Kg | 0% | * | 42-136 | 5 |
| **Surrogates** | | | | | | | | |
| TCMX | 37.22 | | 49.50 | ug/Kg | 75% | | 23-120 | 5 |
| Decachlorobiphenyl | 22.75 | | 49.50 | ug/Kg | 46% | | 24-120 | 5 |

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# Batch QC

| | | | | | |
|---|---|---|---|---|---|
| **Type:** | **Matrix Spike Duplicate** | **Lab ID:** | **QC896760** | **Batch:** | **256823** |
| **Matrix (Source ID):** | **Soil (436853-003)** | **Method:** | **EPA 8081A** | **Prep Method:** | **EPA 3546** |

| QC896760 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 32.64 | ND | 50.00 | ug/Kg | 65% | | 46-120 | 5 | 30 | 5 |
| beta-BHC | 37.37 | ND | 50.00 | ug/Kg | 75% | | 41-120 | 10 | 30 | 5 |
| gamma-BHC | 34.63 | ND | 50.00 | ug/Kg | 69% | | 41-120 | 3 | 30 | 5 |
| delta-BHC | 33.07 | ND | 50.00 | ug/Kg | 66% | | 38-123 | 5 | 30 | 5 |
| Heptachlor | 34.02 | ND | 50.00 | ug/Kg | 68% | | 39-120 | 6 | 30 | 5 |
| Aldrin | 32.64 | ND | 50.00 | ug/Kg | 65% | | 34-120 | 6 | 30 | 5 |
| Heptachlor epoxide | 29.44 | ND | 50.00 | ug/Kg | 59% | | 43-120 | 5 | 30 | 5 |
| Endosulfan I | 32.06 | ND | 50.00 | ug/Kg | 64% | | 45-120 | 9 | 30 | 5 |
| Dieldrin | 29.00 | ND | 50.00 | ug/Kg | 58% | | 45-120 | 0 | 30 | 5 |
| 4,4'-DDE | 33.56 | 10.09 | 50.00 | ug/Kg | 47% | | 34-120 | 7 | 30 | 5 |
| Endrin | 37.88 | ND | 50.00 | ug/Kg | 76% | | 40-120 | 30 | 30 | 5 |
| Endosulfan II | 30.78 | ND | 50.00 | ug/Kg | 62% | | 41-120 | 8 | 30 | 5 |
| Endosulfan sulfate | 32.49 | ND | 50.00 | ug/Kg | 65% | | 42-120 | 22 | 30 | 5 |
| 4,4'-DDD | 25.96 | ND | 50.00 | ug/Kg | 52% | | 41-120 | 5 | 30 | 5 |
| Endrin aldehyde | 20.59 | ND | 50.00 | ug/Kg | 41% | | 30-120 | 8 | 30 | 5 |
| Endrin ketone | 28.90 | ND | 50.00 | ug/Kg | 58% | | 45-120 | 11 | 30 | 5 |
| 4,4'-DDT | 31.23 | ND | 50.00 | ug/Kg | 62% | | 35-127 | 2 | 30 | 5 |
| Methoxychlor | 24.78 | ND | 50.00 | ug/Kg | 0% | * | 42-136 | 18 | 30 | 5 |
| **Surrogates** | | | | | | | | | | |
| TCMX | 40.96 | | 50.00 | ug/Kg | 82% | | 23-120 | | | 5 |
| Decachlorobiphenyl | 22.91 | | 50.00 | ug/Kg | 46% | | 24-120 | | | 5 |

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# Batch QC

| | | |
|---|---|---|
| **Type: Blank** | **Lab ID: QC896728** | **Batch: 256924** |
| **Matrix: Soil** | **Method: EPA 6010B** | **Prep Method: EPA 3050B** |

| QC896728 Analyte | Result | Qual | Units | RL | Prepared | Analyzed |
|---|---|---|---|---|---|---|
| Antimony | ND | | mg/Kg | 3.0 | 11/24/20 | 11/30/20 |
| Arsenic | ND | | mg/Kg | 1.0 | 11/24/20 | 11/30/20 |
| Barium | ND | | mg/Kg | 1.0 | 11/24/20 | 12/01/20 |
| Beryllium | ND | | mg/Kg | 0.50 | 11/24/20 | 11/30/20 |
| Cadmium | ND | | mg/Kg | 0.50 | 11/24/20 | 11/30/20 |
| Chromium | ND | | mg/Kg | 1.0 | 11/24/20 | 11/30/20 |
| Cobalt | ND | | mg/Kg | 0.50 | 11/24/20 | 11/30/20 |
| Copper | ND | | mg/Kg | 1.0 | 11/24/20 | 11/30/20 |
| Lead | ND | | mg/Kg | 1.0 | 11/24/20 | 11/30/20 |
| Molybdenum | ND | | mg/Kg | 1.0 | 11/24/20 | 11/30/20 |
| Nickel | ND | | mg/Kg | 1.0 | 11/24/20 | 12/01/20 |
| Selenium | ND | | mg/Kg | 3.0 | 11/24/20 | 11/30/20 |
| Silver | ND | | mg/Kg | 0.50 | 11/24/20 | 11/30/20 |
| Thallium | ND | | mg/Kg | 3.0 | 11/24/20 | 11/30/20 |
| Vanadium | ND | | mg/Kg | 1.0 | 11/24/20 | 11/30/20 |
| Zinc | ND | | mg/Kg | 5.0 | 11/24/20 | 11/30/20 |

| | | |
|---|---|---|
| **Type: Lab Control Sample** | **Lab ID: QC896729** | **Batch: 256924** |
| **Matrix: Soil** | **Method: EPA 6010B** | **Prep Method: EPA 3050B** |

| QC896729 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Antimony | 99.83 | 100.0 | mg/Kg | 100% | | 80-120 |
| Arsenic | 98.61 | 100.0 | mg/Kg | 99% | | 80-120 |
| Barium | 112.6 | 100.0 | mg/Kg | 113% | | 80-120 |
| Beryllium | 103.5 | 100.0 | mg/Kg | 104% | | 80-120 |
| Cadmium | 117.6 | 100.0 | mg/Kg | 118% | | 80-120 |
| Chromium | 106.0 | 100.0 | mg/Kg | 106% | | 80-120 |
| Cobalt | 105.1 | 100.0 | mg/Kg | 105% | | 80-120 |
| Copper | 104.8 | 100.0 | mg/Kg | 105% | | 80-120 |
| Lead | 108.1 | 100.0 | mg/Kg | 108% | | 80-120 |
| Molybdenum | 101.5 | 100.0 | mg/Kg | 102% | | 80-120 |
| Nickel | 108.6 | 100.0 | mg/Kg | 109% | | 80-120 |
| Selenium | 103.1 | 100.0 | mg/Kg | 103% | | 80-120 |
| Silver | 100.3 | 100.0 | mg/Kg | 100% | | 80-120 |
| Thallium | 105.5 | 100.0 | mg/Kg | 106% | | 80-120 |
| Vanadium | 109.8 | 100.0 | mg/Kg | 110% | | 80-120 |
| Zinc | 119.7 | 100.0 | mg/Kg | 120% | | 80-120 |

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# Batch QC

| Type: | Matrix Spike | Lab ID: | QC896730 | Batch: | 256924 |
|---|---|---|---|---|---|
| Matrix (Source ID): | Soil (436857-001) | Method: | EPA 6010B | Prep Method: | EPA 3050B |

| QC896730 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Antimony | 36.40 | ND | 100.0 | mg/Kg | 36% | * | 75-125 | 1 |
| Arsenic | 107.3 | 5.622 | 100.0 | mg/Kg | 102% | | 75-125 | 1 |
| Barium | 231.2 | 111.5 | 100.0 | mg/Kg | 120% | | 75-125 | 1 |
| Beryllium | 108.0 | 0.5408 | 100.0 | mg/Kg | 107% | | 75-125 | 1 |
| Cadmium | 112.5 | 0.3980 | 100.0 | mg/Kg | 112% | | 75-125 | 1 |
| Chromium | 126.7 | 22.97 | 100.0 | mg/Kg | 104% | | 75-125 | 1 |
| Cobalt | 104.9 | 6.776 | 100.0 | mg/Kg | 98% | | 75-125 | 1 |
| Copper | 127.0 | 18.18 | 100.0 | mg/Kg | 109% | | 75-125 | 1 |
| Lead | 120.0 | 18.32 | 100.0 | mg/Kg | 102% | | 75-125 | 1 |
| Molybdenum | 98.03 | 0.8878 | 100.0 | mg/Kg | 97% | | 75-125 | 1 |
| Nickel | 122.6 | 15.97 | 100.0 | mg/Kg | 107% | | 75-125 | 1 |
| Selenium | 100.2 | ND | 100.0 | mg/Kg | 100% | | 75-125 | 1 |
| Silver | 96.25 | ND | 100.0 | mg/Kg | 96% | | 75-125 | 1 |
| Thallium | 95.93 | ND | 100.0 | mg/Kg | 96% | | 75-125 | 1 |
| Vanadium | 148.3 | 35.79 | 100.0 | mg/Kg | 113% | | 75-125 | 1 |
| Zinc | 227.5 | 98.78 | 100.0 | mg/Kg | 129% | * | 75-125 | 1 |

| Type: | Matrix Spike Duplicate | Lab ID: | QC896731 | Batch: | 256924 |
|---|---|---|---|---|---|
| Matrix (Source ID): | Soil (436857-001) | Method: | EPA 6010B | Prep Method: | EPA 3050B |

| QC896731 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 31.96 | ND | 99.01 | mg/Kg | 32% | * | 75-125 | 12 | 41 | 0.99 |
| Arsenic | 105.4 | 5.622 | 99.01 | mg/Kg | 101% | | 75-125 | 1 | 35 | 0.99 |
| Barium | 223.8 | 111.5 | 99.01 | mg/Kg | 113% | | 75-125 | 3 | 20 | 0.99 |
| Beryllium | 104.8 | 0.5408 | 99.01 | mg/Kg | 105% | | 75-125 | 2 | 20 | 0.99 |
| Cadmium | 111.2 | 0.3980 | 99.01 | mg/Kg | 112% | | 75-125 | 0 | 20 | 0.99 |
| Chromium | 124.0 | 22.97 | 99.01 | mg/Kg | 102% | | 75-125 | 1 | 20 | 0.99 |
| Cobalt | 103.7 | 6.776 | 99.01 | mg/Kg | 98% | | 75-125 | 0 | 20 | 0.99 |
| Copper | 124.6 | 18.18 | 99.01 | mg/Kg | 107% | | 75-125 | 1 | 20 | 0.99 |
| Lead | 116.2 | 18.32 | 99.01 | mg/Kg | 99% | | 75-125 | 2 | 20 | 0.99 |
| Molybdenum | 95.50 | 0.8878 | 99.01 | mg/Kg | 96% | | 75-125 | 2 | 20 | 0.99 |
| Nickel | 119.3 | 15.97 | 99.01 | mg/Kg | 104% | | 75-125 | 2 | 20 | 0.99 |
| Selenium | 97.48 | ND | 99.01 | mg/Kg | 98% | | 75-125 | 2 | 20 | 0.99 |
| Silver | 94.04 | ND | 99.01 | mg/Kg | 95% | | 75-125 | 1 | 20 | 0.99 |
| Thallium | 92.57 | ND | 99.01 | mg/Kg | 94% | | 75-125 | 3 | 20 | 0.99 |
| Vanadium | 145.2 | 35.79 | 99.01 | mg/Kg | 111% | | 75-125 | 1 | 20 | 0.99 |
| Zinc | 215.8 | 98.78 | 99.01 | mg/Kg | 118% | | 75-125 | 5 | 20 | 0.99 |

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# Batch QC

| Type: Blank | Lab ID: QC896740 | Batch: 256927 |
|---|---|---|
| Matrix: Soil | Method: EPA 7471A | Prep Method: METHOD |

| QC896740 Analyte | Result | Qual | Units | RL | Prepared | Analyzed |
|---|---|---|---|---|---|---|
| Mercury | ND | | mg/Kg | 0.14 | 11/24/20 | 11/25/20 |

| Type: Lab Control Sample | Lab ID: QC896741 | Batch: 256927 |
|---|---|---|
| Matrix: Soil | Method: EPA 7471A | Prep Method: METHOD |

| QC896741 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Mercury | 0.9178 | 0.8333 | mg/Kg | 110% | b | 80-120 |

| Type: Matrix Spike | Lab ID: QC896742 | Batch: 256927 |
|---|---|---|
| Matrix (Source ID): Soil (436857-001) | Method: EPA 7471A | Prep Method: METHOD |

| QC896742 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Mercury | 0.9514 | 0.04720 | 0.7576 | mg/Kg | 119% | b | 75-125 | 0.91 |

| Type: Matrix Spike Duplicate | Lab ID: QC896743 | Batch: 256927 |
|---|---|---|
| Matrix (Source ID): Soil (436857-001) | Method: EPA 7471A | Prep Method: METHOD |

| QC896743 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.9675 | 0.04720 | 0.7813 | mg/Kg | 118% | b | 75-125 | 1 | 20 | 0.94 |

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# Batch QC

| | | | | | |
|---|---|---|---|---|---|
| **Type:** | **Blank** | **Lab ID:** | **QC896770** | **Batch:** | **256937** |
| **Matrix:** | **Soil** | **Method:** | **EPA 8270C** | **Prep Method:** | **EPA 3550C** |

| QC896770 Analyte | Result | Qual | Units | RL | Prepared | Analyzed |
|---|---|---|---|---|---|---|
| Carbazole | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 1-Methylnaphthalene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Pyridine | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| N-Nitrosodimethylamine | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Phenol | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Aniline | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| bis(2-Chloroethyl)ether | ND | | ug/Kg | 1,200 | 11/25/20 | 11/25/20 |
| 2-Chlorophenol | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 1,3-Dichlorobenzene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 1,4-Dichlorobenzene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Benzyl alcohol | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 1,2-Dichlorobenzene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 2-Methylphenol | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| bis(2-Chloroisopropyl) ether | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 3-,4-Methylphenol | ND | | ug/Kg | 400 | 11/25/20 | 11/25/20 |
| N-Nitroso-di-n-propylamine | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Hexachloroethane | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Nitrobenzene | ND | | ug/Kg | 1,200 | 11/25/20 | 11/25/20 |
| Isophorone | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 2-Nitrophenol | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 2,4-Dimethylphenol | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Benzoic acid | ND | | ug/Kg | 1,200 | 11/25/20 | 11/25/20 |
| bis(2-Chloroethoxy)methane | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 2,4-Dichlorophenol | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 1,2,4-Trichlorobenzene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Naphthalene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 4-Chloroaniline | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Hexachlorobutadiene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 4-Chloro-3-methylphenol | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 2-Methylnaphthalene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Hexachlorocyclopentadiene | ND | | ug/Kg | 1,200 | 11/25/20 | 11/25/20 |
| 2,4,6-Trichlorophenol | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 2,4,5-Trichlorophenol | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 2-Chloronaphthalene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 2-Nitroaniline | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Dimethylphthalate | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Acenaphthylene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 2,6-Dinitrotoluene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 3-Nitroaniline | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Acenaphthene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 2,4-Dinitrophenol | ND | | ug/Kg | 1,200 | 11/25/20 | 11/25/20 |
| 4-Nitrophenol | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |

ENTHALPY ANALYTICAL

## Batch QC

| QC896770 Analyte | Result | Qual | Units | RL | Prepared | Analyzed |
|---|---|---|---|---|---|---|
| Dibenzofuran | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 2,4-Dinitrotoluene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Diethylphthalate | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Fluorene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 4-Chlorophenyl-phenylether | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 4-Nitroaniline | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 4,6-Dinitro-2-methylphenol | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| N-Nitrosodiphenylamine | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 1,2-diphenylhydrazine (as azobenzene) | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 4-Bromophenyl-phenylether | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Hexachlorobenzene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Pentachlorophenol | ND | | ug/Kg | 1,200 | 11/25/20 | 11/25/20 |
| Phenanthrene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Anthracene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Di-n-butylphthalate | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Fluoranthene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Benzidine | ND | | ug/Kg | 1,200 | 11/25/20 | 11/25/20 |
| Pyrene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Butylbenzylphthalate | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| 3,3'-Dichlorobenzidine | ND | | ug/Kg | 1,200 | 11/25/20 | 11/25/20 |
| Benzo(a)anthracene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Chrysene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| bis(2-Ethylhexyl)phthalate | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Di-n-octylphthalate | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Benzo(b)fluoranthene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Benzo(k)fluoranthene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Benzo(a)pyrene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Dibenz(a,h)anthracene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| Benzo(g,h,i)perylene | ND | | ug/Kg | 250 | 11/25/20 | 11/25/20 |
| **Surrogates** | | | | **Limits** | | |
| 2-Fluorophenol | 84% | | %REC | 29-120 | 11/25/20 | 11/25/20 |
| Phenol-d6 | 96% | | %REC | 30-120 | 11/25/20 | 11/25/20 |
| 2,4,6-Tribromophenol | 46% | | %REC | 32-120 | 11/25/20 | 11/25/20 |
| Nitrobenzene-d5 | 98% | | %REC | 33-120 | 11/25/20 | 11/25/20 |
| 2-Fluorobiphenyl | 70% | | %REC | 39-120 | 11/25/20 | 11/25/20 |
| Terphenyl-d14 | 59% | | %REC | 44-125 | 11/25/20 | 11/25/20 |

ENTHALPY ANALYTICAL

# Batch QC

| | | |
|---|---|---|
| **Type:** Lab Control Sample | **Lab ID:** QC896771 | **Batch:** 256937 |
| **Matrix:** Soil | **Method:** EPA 8270C | **Prep Method:** EPA 3550C |

| QC896771 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Phenol | 2,230 | 2000 | ug/Kg | 112% | b | 42-120 |
| 2-Chlorophenol | 1,708 | 2000 | ug/Kg | 85% | | 41-120 |
| 1,4-Dichlorobenzene | 1,511 | 2000 | ug/Kg | 76% | | 36-120 |
| 3-,4-Methylphenol | 2,032 | 2000 | ug/Kg | 102% | | 42-120 |
| N-Nitroso-di-n-propylamine | 2,192 | 2000 | ug/Kg | 110% | b | 43-121 |
| 2,4-Dimethylphenol | 1,562 | 2000 | ug/Kg | 78% | | 25-120 |
| 1,2,4-Trichlorobenzene | 1,438 | 2000 | ug/Kg | 72% | | 38-120 |
| 4-Chloro-3-methylphenol | 1,706 | 2000 | ug/Kg | 85% | | 40-125 |
| 2,4,5-Trichlorophenol | 1,448 | 2000 | ug/Kg | 72% | | 40-124 |
| Acenaphthene | 1,421 | 2000 | ug/Kg | 71% | | 35-126 |
| 4-Nitrophenol | 1,657 | 2000 | ug/Kg | 83% | | 24-128 |
| 2,4-Dinitrotoluene | 1,520 | 2000 | ug/Kg | 76% | | 40-131 |
| Pentachlorophenol | 1,134 | 2000 | ug/Kg | 57% | | 35-120 |
| Pyrene | 1,447 | 2000 | ug/Kg | 72% | | 37-135 |
| Chrysene | 1,465 | 2000 | ug/Kg | 73% | | 38-132 |
| Benzo(b)fluoranthene | 1,383 | 2000 | ug/Kg | 69% | | 38-135 |
| **Surrogates** | | | | | | |
| 2-Fluorophenol | 1,586 | 2000 | ug/Kg | 79% | | 29-120 |
| Phenol-d6 | 1,819 | 2000 | ug/Kg | 91% | | 30-120 |
| 2,4,6-Tribromophenol | 886.6 | 2000 | ug/Kg | 44% | | 32-120 |
| Nitrobenzene-d5 | 1,868 | 2000 | ug/Kg | 93% | | 33-120 |
| 2-Fluorobiphenyl | 1,258 | 2000 | ug/Kg | 63% | | 39-120 |
| Terphenyl-d14 | 1,106 | 2000 | ug/Kg | 55% | | 44-125 |

ENTHALPY ANALYTICAL

# Batch QC

| | | | | | |
|---|---|---|---|---|---|
| **Type:** | **Matrix Spike** | **Lab ID:** | **QC896772** | **Batch:** | **256937** |
| **Matrix (Source ID):** | **Soil (436853-011)** | **Method:** | **EPA 8270C** | **Prep Method:** | **EPA 3550C** |

| QC896772 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Phenol | 2,157 | ND | 2000 | ug/Kg | 108% | b | 37-120 | 10 |
| 2-Chlorophenol | 1,661 | ND | 2000 | ug/Kg | 83% | | 33-120 | 10 |
| 1,4-Dichlorobenzene | 1,515 | ND | 2000 | ug/Kg | 76% | | 32-120 | 10 |
| 3-,4-Methylphenol | 1,970 | ND | 2000 | ug/Kg | 98% | | 37-120 | 10 |
| N-Nitroso-di-n-propylamine | 2,179 | ND | 2000 | ug/Kg | 109% | b | 32-120 | 10 |
| 2,4-Dimethylphenol | 1,670 | ND | 2000 | ug/Kg | 84% | | 32-120 | 10 |
| 1,2,4-Trichlorobenzene | 1,435 | ND | 2000 | ug/Kg | 72% | | 33-120 | 10 |
| 4-Chloro-3-methylphenol | 1,685 | ND | 2000 | ug/Kg | 84% | | 41-121 | 10 |
| 2,4,5-Trichlorophenol | 1,440 | ND | 2000 | ug/Kg | 72% | | 40-120 | 10 |
| Acenaphthene | 1,550 | ND | 2000 | ug/Kg | 78% | | 37-120 | 10 |
| 4-Nitrophenol | 1,538 | ND | 2000 | ug/Kg | 77% | | 20-141 | 10 |
| 2,4-Dinitrotoluene | 1,406 | ND | 2000 | ug/Kg | 70% | | 33-128 | 10 |
| Pentachlorophenol | 2,783 | ND | 2000 | ug/Kg | | DO | 28-132 | 10 |
| Pyrene | 1,557 | ND | 2000 | ug/Kg | 78% | | 39-135 | 10 |
| Chrysene | 1,582 | ND | 2000 | ug/Kg | 79% | | 37-135 | 10 |
| Benzo(b)fluoranthene | 1,457 | ND | 2000 | ug/Kg | 73% | | 34-139 | 10 |
| **Surrogates** | | | | | | | | |
| 2-Fluorophenol | 1,507 | | 2000 | ug/Kg | 75% | | 29-120 | 10 |
| Phenol-d6 | 1,780 | | 2000 | ug/Kg | 89% | | 30-120 | 10 |
| 2,4,6-Tribromophenol | 821.5 | | 2000 | ug/Kg | 41% | | 32-120 | 10 |
| Nitrobenzene-d5 | 1,735 | | 2000 | ug/Kg | 87% | | 33-120 | 10 |
| 2-Fluorobiphenyl | 1,279 | | 2000 | ug/Kg | 64% | | 39-120 | 10 |
| Terphenyl-d14 | 1,098 | | 2000 | ug/Kg | 55% | | 44-125 | 10 |

ENTHALPY ANALYTICAL

# Batch QC

| | | | | | |
|---|---|---|---|---|---|
| **Type:** | **Matrix Spike Duplicate** | **Lab ID:** | **QC896773** | **Batch:** | **256937** |
| **Matrix (Source ID):** | **Soil (436853-011)** | **Method:** | **EPA 8270C** | **Prep Method:** | **EPA 3550C** |

| QC896773 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Phenol | 2,165 | ND | 2000 | ug/Kg | 108% | b | 37-120 | 0 | 49 | 10 |
| 2-Chlorophenol | 1,638 | ND | 2000 | ug/Kg | 82% | | 33-120 | 1 | 52 | 10 |
| 1,4-Dichlorobenzene | 1,465 | ND | 2000 | ug/Kg | 73% | | 32-120 | 3 | 50 | 10 |
| 3-,4-Methylphenol | 1,928 | ND | 2000 | ug/Kg | 96% | | 37-120 | 2 | 54 | 10 |
| N-Nitroso-di-n-propylamine | 2,023 | ND | 2000 | ug/Kg | 101% | b | 32-120 | 7 | 50 | 10 |
| 2,4-Dimethylphenol | 1,825 | ND | 2000 | ug/Kg | 91% | | 32-120 | 9 | 50 | 10 |
| 1,2,4-Trichlorobenzene | 1,396 | ND | 2000 | ug/Kg | 70% | | 33-120 | 3 | 50 | 10 |
| 4-Chloro-3-methylphenol | 1,636 | ND | 2000 | ug/Kg | 82% | | 41-121 | 3 | 43 | 10 |
| 2,4,5-Trichlorophenol | 1,427 | ND | 2000 | ug/Kg | 71% | | 40-120 | 1 | 47 | 10 |
| Acenaphthene | 1,581 | ND | 2000 | ug/Kg | 79% | | 37-120 | 2 | 48 | 10 |
| 4-Nitrophenol | 1,579 | ND | 2000 | ug/Kg | 79% | | 20-141 | 3 | 30 | 10 |
| 2,4-Dinitrotoluene | 1,295 | ND | 2000 | ug/Kg | 65% | | 33-128 | 8 | 50 | 10 |
| Pentachlorophenol | 2,674 | ND | 2000 | ug/Kg | | DO | 28-132 | | 30 | 10 |
| Pyrene | 1,479 | ND | 2000 | ug/Kg | 74% | | 39-135 | 5 | 41 | 10 |
| Chrysene | 1,569 | ND | 2000 | ug/Kg | 78% | | 37-135 | 1 | 46 | 10 |
| Benzo(b)fluoranthene | 1,480 | ND | 2000 | ug/Kg | 74% | | 34-139 | 2 | 47 | 10 |
| **Surrogates** | | | | | | | | | | |
| 2-Fluorophenol | 1,640 | | 2000 | ug/Kg | 82% | | 29-120 | | | 10 |
| Phenol-d6 | 1,867 | | 2000 | ug/Kg | 93% | | 30-120 | | | 10 |
| 2,4,6-Tribromophenol | 820.6 | | 2000 | ug/Kg | 41% | | 32-120 | | | 10 |
| Nitrobenzene-d5 | 1,927 | | 2000 | ug/Kg | 96% | | 33-120 | | | 10 |
| 2-Fluorobiphenyl | 1,414 | | 2000 | ug/Kg | 71% | | 39-120 | | | 10 |
| Terphenyl-d14 | 1,223 | | 2000 | ug/Kg | 61% | | 44-125 | | | 10 |

ENTHALPY ANALYTICAL

# Batch QC

| | | | | | |
|---|---|---|---|---|---|
| **Type:** | **Blank** | **Lab ID:** | **QC896917** | **Batch:** | **256993** |
| **Matrix:** | **Soil** | **Method:** | **EPA 8260B** | **Prep Method:** | **EPA 5035** |

| QC896917 Analyte | Result | Qual | Units | RL | Prepared | Analyzed |
|---|---|---|---|---|---|---|
| 3-Chloropropene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| cis-1,4-Dichloro-2-butene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| trans-1,4-Dichloro-2-butene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Isopropyl Ether (DIPE) | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Ethyl tert-Butyl Ether (ETBE) | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Methyl tert-Amyl Ether (TAME) | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| tert-Butyl Alcohol (TBA) | ND | | ug/Kg | 10 | 11/25/20 | 11/25/20 |
| TPH Gasoline | ND | | ug/Kg | 100 | 11/25/20 | 11/25/20 |
| Freon 12 | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Chloromethane | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Vinyl Chloride | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Bromomethane | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Chloroethane | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Trichlorofluoromethane | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Acetone | ND | | ug/Kg | 100 | 11/25/20 | 11/25/20 |
| Freon 113 | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 1,1-Dichloroethene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Methylene Chloride | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| MTBE | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| trans-1,2-Dichloroethene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 1,1-Dichloroethane | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 2-Butanone | ND | | ug/Kg | 100 | 11/25/20 | 11/25/20 |
| cis-1,2-Dichloroethene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 2,2-Dichloropropane | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Chloroform | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Bromochloromethane | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 1,1,1-Trichloroethane | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 1,1-Dichloropropene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Carbon Tetrachloride | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 1,2-Dichloroethane | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Benzene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Trichloroethene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 1,2-Dichloropropane | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Bromodichloromethane | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Dibromomethane | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 4-Methyl-2-Pentanone | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| cis-1,3-Dichloropropene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Toluene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| trans-1,3-Dichloropropene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 1,1,2-Trichloroethane | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 1,3-Dichloropropane | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Tetrachloroethene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |

ENTHALPY ANALYTICAL

## Batch QC

| QC896917 Analyte | Result | Qual | Units | RL | Prepared | Analyzed |
|---|---|---|---|---|---|---|
| Dibromochloromethane | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 1,2-Dibromoethane | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Chlorobenzene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Ethylbenzene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| m,p-Xylenes | ND | | ug/Kg | 10 | 11/25/20 | 11/25/20 |
| o-Xylene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Styrene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Bromoform | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Isopropylbenzene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 1,2,3-Trichloropropane | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Propylbenzene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Bromobenzene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 1,3,5-Trimethylbenzene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 2-Chlorotoluene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 4-Chlorotoluene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| tert-Butylbenzene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 1,2,4-Trimethylbenzene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| sec-Butylbenzene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| para-Isopropyl Toluene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 1,3-Dichlorobenzene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 1,4-Dichlorobenzene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| n-Butylbenzene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 1,2-Dichlorobenzene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 1,2-Dibromo-3-Chloropropane | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 1,2,4-Trichlorobenzene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Hexachlorobutadiene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Naphthalene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| 1,2,3-Trichlorobenzene | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| Xylene (total) | ND | | ug/Kg | 5.0 | 11/25/20 | 11/25/20 |
| **Surrogates** | | | | **Limits** | | |
| Dibromofluoromethane | 95% | | %REC | 70-130 | 11/25/20 | 11/25/20 |
| 1,2-Dichloroethane-d4 | 98% | | %REC | 70-145 | 11/25/20 | 11/25/20 |
| Toluene-d8 | 102% | | %REC | 70-145 | 11/25/20 | 11/25/20 |
| Bromofluorobenzene | 111% | | %REC | 70-145 | 11/25/20 | 11/25/20 |

ENTHALPY ANALYTICAL

# Batch QC

| Type: Lab Control Sample | Lab ID: QC896918 | Batch: 256993 |
|---|---|---|
| Matrix: Soil | Method: EPA 8260B | Prep Method: EPA 5035 |

| QC896918 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 43.22 | 50.00 | ug/Kg | 86% | | 70-131 |
| MTBE | 49.35 | 50.00 | ug/Kg | 99% | | 69-130 |
| Benzene | 47.54 | 50.00 | ug/Kg | 95% | | 70-130 |
| Trichloroethene | 48.83 | 50.00 | ug/Kg | 98% | | 70-130 |
| Toluene | 45.08 | 50.00 | ug/Kg | 90% | | 70-130 |
| Chlorobenzene | 45.65 | 50.00 | ug/Kg | 91% | | 70-130 |
| **Surrogates** | | | | | | |
| Dibromofluoromethane | 51.05 | 50.00 | ug/Kg | 102% | | 70-130 |
| 1,2-Dichloroethane-d4 | 49.96 | 50.00 | ug/Kg | 100% | | 70-145 |
| Toluene-d8 | 49.15 | 50.00 | ug/Kg | 98% | | 70-145 |
| Bromofluorobenzene | 50.56 | 50.00 | ug/Kg | 101% | | 70-145 |

| Type: Lab Control Sample Duplicate | Lab ID: QC896919 | Batch: 256993 |
|---|---|---|
| Matrix: Soil | Method: EPA 8260B | Prep Method: EPA 5035 |

| QC896919 Analyte | Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 39.79 | 50.00 | ug/Kg | 80% | | 70-131 | 8 | 33 |
| MTBE | 43.24 | 50.00 | ug/Kg | 86% | | 69-130 | 13 | 30 |
| Benzene | 44.14 | 50.00 | ug/Kg | 88% | | 70-130 | 7 | 30 |
| Trichloroethene | 46.20 | 50.00 | ug/Kg | 92% | | 70-130 | 6 | 30 |
| Toluene | 43.08 | 50.00 | ug/Kg | 86% | | 70-130 | 5 | 30 |
| Chlorobenzene | 43.74 | 50.00 | ug/Kg | 87% | | 70-130 | 4 | 30 |
| **Surrogates** | | | | | | | | |
| Dibromofluoromethane | 49.58 | 50.00 | ug/Kg | 99% | | 70-130 | | |
| 1,2-Dichloroethane-d4 | 47.10 | 50.00 | ug/Kg | 94% | | 70-145 | | |
| Toluene-d8 | 50.45 | 50.00 | ug/Kg | 101% | | 70-145 | | |
| Bromofluorobenzene | 50.07 | 50.00 | ug/Kg | 100% | | 70-145 | | |

| Type: Blank | Lab ID: QC896936 | Batch: 256998 |
|---|---|---|
| Matrix: Soil | Method: EPA 8015M | Prep Method: EPA 3580 |

| QC896936 Analyte | Result | Qual | Units | RL | Prepared | Analyzed |
|---|---|---|---|---|---|---|
| DRO C10-C28 | ND | | mg/Kg | 10 | 11/25/20 | 11/30/20 |
| ORO C28-C44 | ND | | mg/Kg | 20 | 11/25/20 | 11/30/20 |
| **Surrogates** | | | | **Limits** | | |
| n-Triacontane | 91% | | %REC | 70-130 | 11/25/20 | 11/30/20 |

ENTHALPY ANALYTICAL

# Batch QC

| Type: Lab Control Sample | Lab ID: QC896937 | Batch: 256998 |
|---|---|---|
| Matrix: Soil | Method: EPA 8015M | Prep Method: EPA 3580 |

| QC896937 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Diesel C10-C28 | 245.5 | 247.5 | mg/Kg | 99% | | 76-122 |
| **Surrogates** | | | | | | |
| n-Triacontane | 9.664 | 9.901 | mg/Kg | 98% | | 70-130 |

| Type: Matrix Spike | Lab ID: QC896938 | Batch: 256998 |
|---|---|---|
| Matrix (Source ID): Soil (436830-004) | Method: EPA 8015M | Prep Method: EPA 3580 |

| QC896938 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Diesel C10-C28 | 250.0 | 6.158 | 248.8 | mg/Kg | 98% | | 62-126 | 1 |
| **Surrogates** | | | | | | | | |
| n-Triacontane | 9.308 | | 9.950 | mg/Kg | 94% | | 70-130 | 1 |

| Type: Matrix Spike Duplicate | Lab ID: QC896939 | Batch: 256998 |
|---|---|---|
| Matrix (Source ID): Soil (436830-004) | Method: EPA 8015M | Prep Method: EPA 3580 |

| QC896939 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel C10-C28 | 263.3 | 6.158 | 248.8 | mg/Kg | 103% | | 62-126 | 5 | 35 | 1 |
| **Surrogates** | | | | | | | | | | |
| n-Triacontane | 9.886 | | 9.950 | mg/Kg | 99% | | 70-130 | | | 1 |

| Type: Blank | Lab ID: QC898594 | Batch: 257631 |
|---|---|---|
| Matrix: Soil | Method: EPA 8082 | Prep Method: EPA 3546 |

| QC898594 Analyte | Result | Qual | Units | RL | Prepared | Analyzed |
|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | ug/Kg | 50 | 12/09/20 | 12/10/20 |
| Aroclor-1221 | ND | | ug/Kg | 50 | 12/09/20 | 12/10/20 |
| Aroclor-1232 | ND | | ug/Kg | 50 | 12/09/20 | 12/10/20 |
| Aroclor-1242 | ND | | ug/Kg | 50 | 12/09/20 | 12/10/20 |
| Aroclor-1248 | ND | | ug/Kg | 50 | 12/09/20 | 12/10/20 |
| Aroclor-1254 | ND | | ug/Kg | 50 | 12/09/20 | 12/10/20 |
| Aroclor-1260 | ND | | ug/Kg | 50 | 12/09/20 | 12/10/20 |
| Aroclor-1262 | ND | | ug/Kg | 50 | 12/09/20 | 12/10/20 |
| Aroclor-1268 | ND | | ug/Kg | 50 | 12/09/20 | 12/10/20 |
| **Surrogates** | | | | **Limits** | | |
| Decachlorobiphenyl (PCB) | 86% | | %REC | 19-121 | 12/09/20 | 12/10/20 |

ENTHALPY ANALYTICAL

# Batch QC

| | | |
|---|---|---|
| **Type:** Lab Control Sample | **Lab ID:** QC898598 | **Batch:** 257631 |
| **Matrix:** Soil | **Method:** EPA 8082 | **Prep Method:** EPA 3546 |

| QC898598 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Aroclor-1016 | 451.4 | 500.0 | ug/Kg | 90% | | 14-150 |
| Aroclor-1260 | 522.9 | 500.0 | ug/Kg | 105% | | 10-150 |
| **Surrogates** | | | | | | |
| Decachlorobiphenyl (PCB) | 42.13 | 50.00 | ug/Kg | 84% | | 19-121 |

| | | |
|---|---|---|
| **Type:** Matrix Spike | **Lab ID:** QC898599 | **Batch:** 257631 |
| **Matrix (Source ID):** Soil (437304-005) | **Method:** EPA 8082 | **Prep Method:** EPA 3546 |

| QC898599 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | 505.9 | ND | 495.0 | ug/Kg | 102% | | 42-127 | 0.99 |
| Aroclor-1260 | 482.6 | ND | 495.0 | ug/Kg | 97% | | 38-130 | 0.99 |
| **Surrogates** | | | | | | | | |
| Decachlorobiphenyl (PCB) | 34.46 | | 49.50 | ug/Kg | 70% | | 19-121 | 0.99 |

| | | |
|---|---|---|
| **Type:** Matrix Spike Duplicate | **Lab ID:** QC898600 | **Batch:** 257631 |
| **Matrix (Source ID):** Soil (437304-005) | **Method:** EPA 8082 | **Prep Method:** EPA 3546 |

| QC898600 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | 510.9 | ND | 500.0 | ug/Kg | 102% | | 42-127 | 0 | 30 | 1 |
| Aroclor-1260 | 488.3 | ND | 500.0 | ug/Kg | 98% | | 38-130 | 0 | 30 | 1 |
| **Surrogates** | | | | | | | | | | |
| Decachlorobiphenyl (PCB) | 36.68 | | 50.00 | ug/Kg | 73% | | 19-121 | | | 1 |

| | |
|---|---|
| # | CCV drift outside limits; average CCV drift within limits per method requirements |
| * | Value is outside QC limits |
| DO | Diluted Out |
| E | Response exceeds instrument's linear range |
| ND | Not Detected |
| b | See narrative |